ARPA

Agenzia Regionale per la Prevenzione e l'Ambiente

dell'Emilia - Romagna

*** * ***

Atti amministrativi

Determinazione dirigenziale	n. DET-2014-240 del 03/04/2014
Oggetto	Direzione Tecnica. Progetto 3CE292P3 "Development and application of mitigation and adaptation strategies and measures for counteracting the global Urban
Proposta	n. PDTD-2014-231 del 26/03/2014
Struttura adottante	Direzione Tecnica
Dirigente adottante	Zinoni Franco
Struttura proponente	Ctr Ambiente Salute
Dirigente proponente	Dott. Lauriola Paolo
Responsabile del procedimento	Lauriola Paolo

Questo giorno 03 (tre) aprile 2014 (duemilaquattordici) presso la sede di Largo Caduti del Lavoro, 6 in Bologna, il Direttore Tecnico , Dott. Franco Zinoni, ai sensi del Regolamento Arpa sul Decentramento amministrativo, approvato con D.D.G. n. 65 del 27/09/2010 e dell'art. 4, comma 2 del D.Lgs. 30 marzo 2001, n. 165 determina quanto segue.

Oggetto: Direzione Tecnica. Progetto 3CE292P3 "Development and application of mitigation and adaptation strategies and measures for counteracting the global Urban Heat Islands phenomenon - acronimo UHI" – Modifica durata e budget.

PREMESSO:

- che, con deliberazione n. 43 del 29/04/2011, è stata approvata la partecipazione di ARPA ER al progetto "Development and application of mitigation and adaptation strategies and measures for counteracting the global Urban Heat Islands phenomenon - acronimo UHI" nell'ambito del Programma di cooperazione interregionale Central Europe (CEU);
- che, con la citata delibera, il Direttore Tecnico è stato individuato quale soggetto legittimato ad agire in qualità di delegato del legale rappresentante di Arpa Emilia-Romagna nei confronti della Commissione Europea e dei partner;

CONSIDERATO:

- che Arpa Emilia-Romagna riveste il ruolo di partner capofila e che, pertanto, è l'unico soggetto responsabile nei confronti della Commissione Europea per la realizzazione del Progetto UHI;
- che, durante lo svolgimento delle attività e nel rispetto della normativa vigente per il programma, il project manager del progetto, Dott. Paolo Lauriola, in accordo con i partner, ha ravvisato la necessità di richiedere formalmente al Segretariato Tecnico Congiunto del programma CEU una proroga rispetto alla durata prevista per il progetto (da 36 mesi a 39 mesi) e una modifica nella distribuzione del budget assegnato ai partner di progetto pur mantenendo inalterato l'importo complessivo del budget di UHI, pari a euro 3.983.054,20;
- che, tra l'altro, risulta opportuno incrementare il budget di ARPA ER da euro 446.580,00 a euro 450.080,00, riducendo corrispondentemente il budget del partner n. 5 Karlsruhe Institute of Technology in quanto sono aumentati per ARPA i costi di missione e quelli relativi ai servizi esterni;
- che in data 12 febbraio 2014 Arpa Emilia-Romagna, in quanto partner capofila, ha presentato al Segretariato Tecnico Congiunto, tramite apposita piattaforma elettronica, proposta di modifica al progetto secondo le esigenze evidenziate nei precedenti paragrafi;
- che tale modifica è stata approvata e che, pertanto, il Segretariato Tecnico Congiunto del programma CEU ha invitato Arpa Emilia-Romagna a spedire l'Application Form del progetto opportunamente modificata e firmata dal legale rappresentante;

- che ARPA ha eseguito quanto richiesto dal Segretariato e in data 3 marzo 2014 ha inviato l'Application form di progetto aggiornata con le modifiche approvate;

DATO ATTO:

- che, con nota PGDG/2014/1919 del 25/03/2014, conservata agli atti, il Segretariato Tecnico Congiunto del programma CEU ha approvato l'Application form aggiornata e allegata sub A) al presente atto quale parte integrante e sostanziale;

RITENUTO:

- opportuno prendere atto delle modifiche apportate al progetto UHI;

SU PROPOSTA:

- del Dott. Paolo Lauriola, responsabile del CTR Ambiente e Salute e project manager di UHI, il quale ha espresso il proprio parere favorevole in ordine alla regolarità amministrativa del presente provvedimento;

DATO ATTO:

- che i ricavi del progetto coprono interamente i costi esterni (compresi quelli di missione) previsti per la realizzazione dello stesso;
- che si è provveduto a nominare responsabile del procedimento, ai sensi del combinato disposto di cui agli artt. 4, 5 e 6 della Legge n. 241/90 e della Legge Regionale n. 32/93 lo stesso Dott. Paolo Lauriola;
- del parere di regolarità contabile espresso dal Responsabile dell'Area Bilancio e Controllo Economico, Dott. Giuseppe Bacchi Reggiani, ai sensi del Regolamento ARPA per il Decentramento amministrativo approvato con D.D.G. n. 65 del 27/09/2010;

DETERMINA

1. di dare atto che le attività del progetto "Development and application of mitigation and adaptation strategies and measures for counteracting the global Urban Heat Islands phenomenon - acronimo UHI" nell'ambito del Programma di cooperazione interregionale Central Europe (CEU) sono prorogate al 31 luglio 2014 e che, pertanto, il progetto avrà durata pari a 39 mesi (1/05/2011 – 31/07/2014);
2. di dare atto, inoltre, che il budget assegnato ad ARPA ER è incrementato di euro 3.500,00 ed è quindi pari a euro 450.080,00 per tutta la durata del progetto;
3. di confermare per ogni ulteriore aspetto quanto disposto con la citata deliberazione n. 743 del 08/11/2013.

IL DIRETTORE TECNICO

Dott. Franco Zinoni

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APPLICATION FORM

European Territorial Cooperation Objective

CENTRAL EUROPE Programme

Application Round 3

Don't remove the Excel protection. You risk that the form will be damaged and thus the application will become INELIGIBLE

Title of the project:

Development and application of mitigation and adaptation strategies and measures for counteracting the global

Acronym:

UHI

Lead Applicant (official name of the institution in English):

Regional Agency for Environmental Protection in Emilia-Romagna

Lead Applicant country:

Italia

Region:

Emilia-Romagna

Priority:

Priority 3

Area of Intervention:

3.2 Reducing Risks and Impacts of Natural and Man-made Hazards

Duration:

Start date		End date		Duration (months)
5	2011	7	2014	39

Form has to be filled in and returned by post as printed version and on CD-ROM/other device:
CENTRAL EUROPE Programme
Joint Technical Secretariat
Museumstraße 3/A/III
A-1070 Vienna, Austria

Phone +43 (1) 4000 - 76 142
Fax +43 (1) 4000 - 99 76 141

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Index number:	
Registration Date:	
Date of approval:	

LEGEND

white field	To be completed by applicant: text input/drop down menu: single choice/multiple choice
☐ ↔ ☒	"Checkbox" (use drop down menu to select Value or "x" for "yes" and "o" for "no")
grey field	Not to be completed by applicant, data are automatically transferred/ calculated
blue field	Will be filled by JTS

Checklist for submission of the Application Form

Yes	N/A	
☒	☐	The filled in Application Form and related Annexes will be sent in one single envelope to the Joint Technical Secretariat by normal post or courier no later than 7 May 2010 (date as per post mark). In case of delivery by hand, the application must arrive before 5 p.m.
☒	☐	The original hard copy versions of the filled in Application Form and all related Annexes, together with a CD-ROM / other electronic support (including e-version of the Application Form, the Map and, in case of private Lead Applicant, also the SFS) are submitted in a single envelope.
☒	☐	An e-mail will be sent by the Lead Applicant to the JTS (info@central2013.eu) announcing the submission (including project title and acronym) not later than 7 May 2010.
☒	☐	Only the Application Package of the 3rd call for proposals has been used and all submitted documents are completed in English.
☒	☐	The paper version of the filled in Application Form is not bound in order to ease photocopying.
☒	☐	Hard copy and electronic versions of the Application Form (AF), the Map and if applicable, the SFS, are equal in content. Both AF versions indicate the same Checksum number (For printing the hardcopy the button “Finalize and print” on AF Coversheet has been used).
☒	☐	Both versions of the Application Form show no ERROR and INCOMPLETE messages.
☒	☐	The hard copy version of the Application Form is in original, dated, stamped and signed by the legal representative/duly authorised person of the Lead Applicant in original (i.e. only original, handwritten signature will be accepted).
☒	☐	The hard copies of the Annexes (1. Co-financing Statements, Declarations on Administrative and Financial Capacity and on Legal status; 2. Declaration on status in relation to the State Aid discipline; 3. if applicable, Simplified Financial Statement-SFS) are in original, dated, stamped, printed on Partners' letter headed paper, and signed (original handwritten signature) by the legal representative/duly authorised person. In case of fax or scanned copies the originals have to be submitted by the Lead Applicant not later than 3 working days.
☒	☐	For all submitted declarations only the 3rd Call Application templates have been used and the template text has not been amended.
☒	☐	The figures in the Co-financing Statements are identical with the partner’s co-financing figures in Section 4 of the submitted Application Form.
☒	☐	State Aid Declarations are submitted for the Lead Applicant and all Project Partners (except International Organisations and Third Country partners) receiving ERDF funds.
☒	☐	In case the Lead Applicant within Priority 1 is a private institution, the SFS is submitted and the following requirements have been respected: copy of the most recent profit and loss accounts included; copy of the most recent balance sheet included; copy of an independent audit report or auditor's certification included; most recent balance sheet refers to the same legal entity indicated in the Application Form and in the Annexes.
☒	☐	A flow chart indicating the co-ordination and management structure has been attached.
☒	☐	A map showing the location of all partners has been attached.

Section 1: Basic Information

Project summary

Describe the project background, issues/challenges, objectives (general and specific), need for transnational cooperation, relevance of the partnership, main activities, expected outputs and results.

The urban heat island (UHI) is a microclimatic phenomenon that occurs in the metropolitan areas. It consists in a significant increasing of the temperature in the urban area respect to the surrounding peri-urban and rural neighbourhoods. This phenomenon is known and studied since eighties and is caused by:
- physical characteristics of the surfaces: because of the thermal and radioactive proprieties of the materials composing urban surfaces, such as concrete and asphalt, that absorb rather than reflecting solar radiations;
- lack of natural evaporative surfaces (vegetation) that, in rural areas, contribute to maintain a stable energy balance;
- augmentation of the vertical surface that both provide an increased surface absorbing and reflecting solar radiation as well as block winds that could contribute to the lowering of the temperature (canyon effect);
- human activities that mainly consists in heat produced by hating and cooling plants, industrial activities, vehicles, etc.;

high level of pollutants that alter the radioactive proprieties of the atmosphere.
The intensity of UHI phenomenon raises proportionally to the dimension and population of the urban area; consequently, it is doomed to become more severe in the coming years due to the constant growing of number of people living in urban areas. The UHI effects are directly related to (and worsened by) the climate change phenomena, where it is expected that an increase of the average temperature has a stronger and immediate effect on the health of people living in cities, and particularly in weak categories (diseased and aged citizens, etc.)
The project, starting from a deep analysis of the phenomenon carried out with traditional micrometeorology techniques and remote sensing techniques, is designed to both develop mitigation and risk prevention and management strategies.

In particular, mitigation strategies consist in the adoption of urban and land planning models that prevent the establishment of UHI, while risk prevention/management strategies aim at reducing the impact of phenomena related to UHI, such as summer bioclimatic discomfort.
The general objective of the project is to establish a Transnational attention, as well as policies and practical actions, for the prevention, adaptation and mitigation of the natural and man-made risks arising from the urban heat island phenomenon.
In particular, the project is indented to:
- provide a deeper knowledge on the man-made risk of the UHIs and its interactions with global climate change;
- establish a permanent transnational network for monitoring the phenomenon and its development;
- set up suitable strategies for the mitigation of- and the adaptation to UHI;
- improve current land-use planning tools and civil management systems according to mitigation and adaptation strategies.

UHI project is developed in 8 of the most relevant metropolitan areas and MEGAs (Mega Urban Regions) of Central Europe cooperation programme: the metropolitan cluster of Bologna – Modena (IT) and the urban corridor of Venice – Padua (IT), the cities of Wien (AT), Stuttgard (D), Lodz & Warsaw (PL), Ljubljana (SI), Budapest (HU) and Prague (CZ). The broad participation of cities belonging to 7 CE Countries assures an optimal coverage of the Programme spaces and potential of replication into other territorial contexts. Additionally, the direct participation into the project of the regional planning directions as well as the City Council assure a concrete impact of the project deliverables into the pilot areas and the effective ownership of strategies and planning options.

Textbox 1 you have 3613 characters (max. 4.000 characters)

Project partnership

Table 1: Overview of project partnership

Partner No.	Institution (Name)	Country (Code)	Total ERDF	Public co-financing (CE Partners)	Private co-fin. (CE Partners)	Public co-financing (EU outside CENTRAL)	Private co-fin. (EU outside CENTRAL)	Financing from Third Countries	Total Budget
LP	Regional Agency for Environmental Protection in Emilia-Romagna	IT	337.560,00	112.520,00	0,00	0,00	0,00	0,00	450.080,00
PP 2	Emilia Romagna Region. General Directorate Territorial and negotiated planning, agreements.	IT	186.585,00	62.195,00	0,00	0,00	0,00	0,00	248.780,00
PP 3	Veneto Region - Territorial Planning, Strategic and Cartography regional Section	IT	193.800,00	64.600,00	0,00	0,00	0,00	0,00	258.400,00
PP 4	Consortium for Coordination of Research Activities Concerning the Venice Lagoon System (CORILA)	IT	181.710,00	60.570,00	0,00	0,00	0,00	0,00	242.280,00
PP 5	Karlsruhe Institute of Technology	DE	183.795,75	61.265,25	0,00	0,00	0,00	0,00	245.061,00
PP 6	Municipality of Stuttgart	DE	138.870,00	46.290,00	0,00	0,00	0,00	0,00	185.160,00
PP 7	Meteorological Institute - University of Freiburg	DE	150.607,50	50.202,50	0,00	0,00	0,00	0,00	200.810,00
PP 8	Institute of Geography and Spatial Organization, Polish Academy Of Sciences	PL	181.577,00	32.043,00	0,00	0,00	0,00	0,00	213.620,00
PP 9	City of Lodz WITHDRAWAL on the 6th of May	PL	0,00	0,00	0,00	0,00	0,00	0,00	0,00
PP 10	Nofer Institute of Occupational Medicine	PL	66.538,00	11.742,00	0,00	0,00	0,00	0,00	78.280,00
PP 11	Vienna University of Technology - Department of Building Physics and Building Ecology - Institute of Architectural Sciences	AT	266.857,50	88.952,50	0,00	0,00	0,00	0,00	355.810,00
PP 12	City of Vienna - Environmental Department (MA 22)	AT	172.695,00	57.565,00	0,00	0,00	0,00	0,00	230.260,00
PP 13	Hungarian Meteorological Service	HU	221.115,60	39.020,40	0,00	0,00	0,00	0,00	260.136,00
PP 14	Charles University in Prague, Faculty of Mathematics and Physics	CZ	190.772,47	33.665,73	0,00	0,00	0,00	0,00	224.438,20
PP 15	Prague Institute of Planning and Development	CZ	147.148,60	25.967,40	0,00	0,00	0,00	0,00	173.116,00
PP 16	Czech Hydrometeorological Institute	CZ	92.085,60	16.250,40	0,00	0,00	0,00	0,00	108.336,00
PP 17	Research Centre of the Slovenian Academy of Sciences and Arts	SI	142.347,80	25.120,20	0,00	0,00	0,00	0,00	167.468,00
PP 18	Municipality of Ljubljana	SI	289.866,15	51.152,85	0,00	0,00	0,00	0,00	341.019,00
Total			3.143.931,97	839.122,23	0,00	0,00	0,00	0,00	3.983.054,20

Table 2: Eligibility of project partnership

EU - within CENTRAL EUROPE		EU - outside CENTRAL EUROPE		Third Country partners	
Country of EU LP and partners	Number of partners in these countries	Country of EU partners	Number of partners in these countries	Third Countries (ENPI, IPA, others)	Number of partners in these countries
AT:	2	BE:	0	AL:	0
CZ:	3	BG:	0	AM:	0
DE:	3	CY:	0	AZ:	0
SI:	2	DE:	0	BA:	0
IT:	4	DK:	0	BY:	0
HU:	1	EE:	0	DZ:	0
SK:	0	ES:	0	EG:	0
PL:	3	FI:	0	GE:	0
		FR:	0	HR:	0
		GR:	0	IL:	0
		IE:	0	JO:	0
		IT:	0	LB:	0
		LT:	0	LY:	0
		LU:	0	MA:	0
		LV:	0	ME:	0
		MT:	0	MK:	0
		NL:	0	MV:	0
		PT:	0	PS:	0
		RO:	0	RS:	0
		SE:	0	RU:	0
		UK:	0	SY:	0
				TN:	0
				TR:	0
				UA:	0
				others:	0
Summe:	18	Summe:	0	Summe:	0

Eligibility Summary:

Partners:	18	Countries:	7	CE Partners:	18

Project funding

Table 3: Project funding

Location of partner	Source of funding	Amount
CENTRAL EUROPE partners	**ERDF**	3.143.931,97 €
	- out of which for activities in Third Countries (ERDF)	0,00 €
	Public co-financing	839.122,23 €
	Private co-financing	0,00 €
	TOTAL budget EU CENTRAL EUROPE partners	**3.983.054,20 €**
EU partners outside CENTRAL EUROPE	**ERDF**	0,00 €
	Public co-financing	0,00 €
	Private co-financing	0,00 €
	TOTAL budget EU partners outside CENTRAL EUROPE	**0,00 €**
Third Country partners (ENPI countries, IPA countries, others)	ENPI/IPA funding	0,00 €
	Public co-financing from ENPI/IPA countries	0,00 €
	Private co-financing from ENPI/IPA countries	0,00 €
	Total budget Third Country partners with ENPI, IPA	**0,00 €**
	Public co-financing from Third Countries (own funds)	0,00 €
	Private co-financing from Third Countries (own funds)	0,00 €
	Total budget Third Country partners (own funds)	**0,00 €**

TOTAL ERDF	**3.143.931,97 €**
TOTAL ELIGIBLE BUDGET	**3.983.054,20 €**
TOTAL BUDGET	**3.983.054,20 €**
ERDF grant rate:	**78,93%**
ERDF % for activities in Third Countries (10% rule):	**0,00%**
ERDF % for EU partners outside CE (20% rule):	**0,00%**

Has the project idea already been presented in other Territorial Cooperation Programmes or other relevant EU Programmes/Funding Schemes? no

Co-financing Statement and Declaration on Administrative and Financial Capacity and on Legal status by the Legal Representative of the Lead Applicant Organisation

I, the undersigned, representing Regional Agency for Environmental Protection in Emilia-Romagna

request from the Managing Authority (MA) an ERDF contribution of 3.143.931,97 EUR

with a view to implementing the action that is the subject of this project proposal.

I declare that:

- I am authorised by my organisation to sign the Application Form on its behalf;
- All information contained in this application is correct to the best of my knowledge;
- The organisation I represent has the adequate legal capacity to participate in the call for proposals;
- The organisation I represent is a Public equivalent body.

The organisation I represent has financial capacity to complete the proposed actions and in particular:

- The proposed financial commitment is adequate to the organisation´s size and capacity;
- It has the capacity of providing advanced payments also for considerable amounts (e.g.: investments);
- Eventual delays in ERDF reimbursement will not undermine the organisation´s capacity of implementing the foreseen actions within the project;
- Its financial involvement in the project does not undermine the organisation´s daily activities.

The organisation I represent has the administrative capacity to complete the proposed actions and in particular:

- It has enough internal human resources to ensure sound project management and coordination and the timely performance of the proposed actions. In the absence of these, additional necessary resources are properly included in the project budget;
- It has appropriate infrastructure and tools to ensure the adequate performance of the proposed actions;
- Its administrative involvement in the project does not undermine the organisation´s daily activities.

All partners of this proposal comply with the rules on beneficiaries as stated in Reg. (EC) No 1080/2006, 1083/2006 and No 1828/2006 and their amendments.

Certify that the organisation I represent:

- Is not bankrupt, being wound up, or having its affairs administered by the courts, has not entered into an arrangement with creditors, has not suspended business activities, is not the subject of proceedings concerning those matters, nor is it in any analogous situation arising from a similar procedure provided for in national legislation or regulations;
- Has not been convicted of an offence concerning its professional conduct by a judgment which has the force of 'res judicata';
- Has not been guilty of grave professional misconduct proven by any means which the Contract Authority can justify;
- Has fulfilled its obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which it is established;
- Has not been the subject of a judgment which has the force of 'res judicata' for fraud, corruption, involvement in a criminal organisation or any other illegal activity detrimental to the Communities' financial interests;
- Following another procurement procedure or grant award procedure financed by the Community budget, has not been declared to be in serious breach of contract for failure to comply with its contractual obligations

as stated in Articles 93(1) of Reg. (EC) No 1605/2002 and its amendments.

I acknowledge that:

- The organisation I represent will not receive ERDF funds if it finds itself, at the time of the grant award procedure, in contradiction with any of the statements certified above, or is guilty of misrepresentation in supplying the information required by the MA a condition of participation in the grant award procedure or has failed to supply this information;
- In the event of this application being approved, the MA has the right to publish the name and address of this organisation, the subject of the grant and the amount awarded and the rate of funding.

Confirm that:

In the event of project approval the organisation I represent commits itself to the operation, and will provide: 112.520,00 EUR as national co-financing to the CENTRAL EUROPE project's budget.

The specific actions listed in this project proposal have not and will not receive any other aid from the Structural Funds or other Community financial instruments. In the event that any of such funding is received after the submission of this proposal or during the implementation of the project, my organisation will immediately inform the MA.

By signing this I confirm that the proposed project is in line with the relevant EU and national legislation and policies of all countries involved.

Official stamp of Partner institution:

Signature of the legal representative:

Date:

19/02/2014

Name:	Mr Franco Zinoni
Organisation:	Regional Agency for Environmental Protection in Emilia-Romagna
Function:	Technical Director

Section 2: Project outline

2.1 Relevance

Describe the **history of the project idea** as well as the partners' and/or relevant stakeholders' involvement in developing the project concept.

Project moves from two main issues: 1) notwithstanding the Urban Heat Island (UHI) phenomenon is the origin of a emergency challenge for European public health systems, there is a lack of policies and actions at EU level regarding this topic; 2) there are several research groups and local/regional authorities that especially in Central Europe are investigating the phenomenon and are facing its consequences. The project is therefore based on the common needs to improve policies and instruments for risk management as well as to counteract, on a long term view, the effects of UHI phenomenon related to climate change and air pollution. Partnership is representative of both research groups directly involved in the UHI investigation, as well as those public authorities that are more directly committed in improving their instruments for public health protection and their models of urban development. PPs are also representative of the main project's stakeholders, i.e. health public services,

urban and territorial planners, scientific institutions, while all PPs have previous experiences in UHI phenomenon investigation. It has to be considered that CE area is the European most advanced territory on these issues. All partners put together their experiences in developing the project concept through informal meetings and daily communications, making for the first time a real and deep relationship between scientific organization and territorial relevant bodies toward a common goal of environment improvement. Due to their representativeness, partners will be able to generate an emulation effect on stakeholders of the whole CE area and wider, during project implementation and follow up. An additional follow up is expected in terms of proposition of new concepts on the EU policies on spatial planning and environment and health protection, shortening the delay of Europe on these issues respect to US and far East (Japan).

Textbox 2 you have 1937 characters (max. 2.000 characters)

Describe how the **project's general objectives** will contribute to the achievement of the objectives related to the chosen Priority and Area of Intervention.

The general objective of the project is to trigger the elaboration of policies and practical actions to reduce the impact of Urban Heat Island phenomenon. This is an issue common to all largest urban agglomerations in Central Europe area: project aims at establishing a transnational attention for the prevention, adaptation and mitigation of the risks arising from this micro-climate phenomenon.
UHI is truly an affect of man footprint on natural environment: it's a direct consequence of increasing level of urbanization and its impact is worsened by large scale climate change - like global warming - which is again linked with man use (or abuse) of our planet.

The project aims to tackle UHI issue moving European policies towards a more responsible use of our environment.
This will be done not addressing global warming causes but its impact on urban environment and citizen life.
Outcomes will be on the one hand rules and policies for planning new urbanizations less exposed to UHI phenomenon and on the other hand action plans to mitigate the impact of UH on citizens health in already existing Central Europe cities.
Project contribution is coherent with the chosen Priority n.3 and Area of Intervention 3.2: it formulates rules and methods for a more responsible use of environment in relation to urbanization planning and finalize actions to mitigate negative effects of man-made micro-climate change in Central Europe cities

Textbox 3 you have 1441 characters (max. 2.000 characters)

Describe how the **project's specific objectives** will contribute to the achievement of the objectives related to the chosen Priority and Area of Intervention.

Complying with AoI 3.2 priorities, the project pursues the following specific objectives to manage risks arising from urban heat island phenomenon:
- to raise awareness of risks coming from UHI phenomenon at the transnational, national, regional and local levels, with a communication and sensitization strategy specifically tailored both to general public and to policy-makers.
- To implement transnational networks between research groups directly involved in the UHI investigation and those public authorities that are more directly committed in improving their instruments for public health protection and their models of urban development, ensuring more effective communication and coordination across national, disciplinary and institutional borders.
- To provide a deeper knowledge on the man-made risk of the UHIs and its interactions with global climate change.

To establish a common standard for monitoring the phenomenon and its development: a permanent, continuously fed up, transnational database of micro-climate monitoring parameters; this objective will let partners to integrate and harmonize UH related risk assessment standards.
- To implement common methods to evaluate risks coming from UHI phenomenon; a shared model will be chosen/developed to reproduce/predict UHI within different urban area characteristic scenarios, in order to support policy-makers to define mitigation strategies.
- To set up suitable strategies for the mitigation and the adaptation to UHI, applicable in all Central Europe cities;
- To improve land-use planning tools and civil management systems currently used by Central Europe cities' administrations, according to the identified mitigation and adaptation strategies.

Textbox 4 you have 1723 characters (max. 2.000 characters)

Describe how the project will contribute to the overall goals of the programme (strengthening territorial cohesion/promoting internal integration/enhancing competitiveness of CENTRAL EUROPE) that are based on the Lisbon and Gothenburg agendas and the Community strategic guidelines for Cohesion policy.

UHI phenomenon is common to all biggest metropolitan areas in CE zone; here the phenomenon assumes specifics features due to the typical continental climate, common to this geographical area.
Project contribution to the overall programme goals coming from Lisbon and the Gothenburg agendas are:
STRENGTHENING TERRITORIAL COHESION: (a) one dominant trend in CE urbanization is the migration from rural areas to industrial cities and from cities' urban centers towards suburbs. The combined affect is the urban sprawl phenomenon, i.e. the spreading outwards of a city to wide low-density areas which impact negatively on cities environmental and socio economical sustainability. Urban sprawl means long transport distances to work, high car dependence, inadequate facilities, higher per-person infrastructure costs: in the end urban sprawl worsen territorial cohesion, creating uneven access to services between people that live in urban centres and who live in suburban zones;

(b) among the reasons which induce people to abandon urban centers there is urban microclimate which is unpleasantly hot in the hot and humid continental summer of CE cities. Facing UHI phenomenon is then a key factor for cities planner and administrators in order to avoid urban sprawl phenomenon and so driving urbanization and housing policies towards a more territorially cohesive and environmentally sustainable model.
PROMOTING INTERNAL INTEGRATION: (a) the transnational approach of UHI project promotes the setting of common standards in monitoring metropolitan microclimate phenomena and in adopting innovative land-use planning tools as well as strategies for mitigation of/adaptation to UH. The similar climatic condition - mainly continental - is an important factor to foster the collaboration in facing together the UHI phenomenon, so promoting internal integration through shared action plans.

(b) metropolitan areas have a key role in CE as catalysts for the development of their countries and regions: integration can be effectively promoted by building up a strong polycentric network composed by metropolitan areas which adopts similar strategies for a sustainable development. A common strategy to fight UHI phenomenon is part of this integration strategy.
COMPETITIVENESS: (a) competitiveness concept in CE program deals not only with pure economic performance but it embraces also soft factors that influence economic performance positively like quality of life and sustainability. UHI project aims to increase competitiveness of CE metropolitan areas improving their quality of life and sustainability, making them an attractive place for people to live in and for companies to invest.

Project output actions will bring CE cities towards more sustainable urbanization model: they'll be less exposed to UHI phenomenon, so improving life quality but also decreasing energy costs (for summer cooling) and health care system ones (for sensible populations). Improving the general quality of the urban environment and reducing the impacts of UHI hazards are related to this objective. UHI project helps CE's cities to set measures to become attractive places to invest in and to live in.
Considering that the UHI project fit also with the Europe 2020 priorities supporting a smart growth: developing an economy based on knowledge and innovation, sustainable growth: promoting a more resource efficient, greener and more competitive economy, inclusive growth: fostering a high-employment economy delivering social and territorial cohesion.

Textbox 5 you have 3540 characters (max. 4.000 characters)

Does the project have **links to other Areas of Intervention?** yes

1.1 Enhancing Framework Conditions for Innovation	☐
1.2 Establishing Capabilities for the Diffusion and Application of Innovation	☐
1.3 Fostering Knowledge Development	☐
2.1 Improving Central Europe's Interconnectivity	☐
2.2 Developing Multimodal Logistics' Cooperation	☐
2.3 Promoting Sustainable and Safe Mobility	☐
2.4 Promoting Information and Communication Technologies and Alternative Solutions for Enhancing Access	☐
3.1 Developing a High Quality Environment by Managing and Protecting Natural Resources and Heritage	☒
3.3 Supporting the Use of Renewable Energy Sources and Increasing Energy Efficiency	☐
3.4 Supporting Environmentally Friendly Technologies and Activities	☒
4.1 Developing Polycentric Settlement Structures and Territorial Cooperation	☐
4.2 Addressing the Territorial Effects of Demographic and Social Change on Urban and Regional Development	☒
4.3 Capitalising on Cultural Resources for More Attractive Cities and Regions	☐

Describe the links to those Areas of Intervention.

EU has recognized the importance of public health & environmental compatibility. UHI general objective is to raise a transnational awareness, as well as policies and practical actions, for the prevention, adaptation and mitigation of the natural and man-made hazard arising from the urban heat island phenomenon. The actions developed will focus on the strengthening of a new and multidisciplinary approach to the urban and regional development. The development of the activities forecasted in the WP5 & 6 will allow to implement and disseminate competences and knowledge on the architectural and building technologies fitting the goal to support environmentally friendly technologies and activities. Improvement of land-use planning tools & civil management systems according to mitigation and adaptation strategies lead to implement a new approach on urban development fully compliant with an innovative management of the Territorial Effects of Demographic and Social Change

Textbox 6 you have 977 characters (max. 1.000 characters)

Describe **problems or issues** that the project intends to address; provide background information related to the chosen **Priority and Area of Intervention.**

UHI phenomenon is a common threat for urban environment of all European metropolitan areas.
The combined effect of increasing urbanization impact on microclimate and global warming effect can worsen significantly the quality of life of future generations cities. This impose a careful and detailed action plan to better know the phenonomen and counteract and prevent it.
The UHI project meets the need of regional and local administration to have proper instruments to manage the emerging problem, both in term of prevention and adaptation to it. The project overcomes the lack of a shared deep knowledge of the phenomenon, the lack of policy strategies to mitigate it, the lack of land-use planning tools and decision support systems to help policy makers to plan future generation cities less exposed to UHI phenomenon. This is particularly relevant for Central Europe where an economic catching-up process is taking place, creating both new opportunities as well as threats for the environment:

it is essential to drive the fast growth of the polycentric urban network in Central Europe towards more sustainable urbanization models.
This fully complies the Priority 3 objective, promoting a responsible protection of the environmental potentials of the region, with the adoption of sustainable land – use policies. Project acts not only with a reactive approach (adaptation strategies to limit summer bioclimatic discomfort which causes heavy problems to human health) but also with a preventive approach promoting the adoption of new land-use planning strategies capable to design cities less exposed to UHI phenomenon.
Project specifically addresses the need for transnational cooperation to reduce risks and impacts coming from UHI phenomenon, preventing its man-made causes (AoI 3.2).
The achievement of integrated standards to collect and analyze micro-climate data and the sharing of practices, experiences and decision support tools for eco-friendly urbanization model

will be key factors to help Central Europe administration to mitigate UHI phenomenon and deriving risks to human health, especially for weak people such as diseased and elders.
In particular the main issues the projects will address, complying AoI 3.2 action lines, can be summarized as follows:
- To integrate and harmonise risk assessments data in relation to UHI phenomenon, by standardizing and unifying urban microclimate data collection and their evaluation methodology;
- To implement shared methods to evaluate human health risks related to UHI phenomenon, through the development of Decision Support Systems enabling urban administrations to produce urban policies strictly correlated with the mitigation and adaptation strategies;

To implement joint risk management plans and strategies against hazards related to UHI phenomenon, through different feasibility study concerning the development of urban areas. The feasibility studies will evaluate how a city's space could be developed taking in full consideration the adaptation and mitigation strategies developed in the project;
- To apply communication strategies for increasing UHI risk awareness, sharing among Central Europe the knowledge about the UHI anthropogenic causes and the measures adopted to fight its intensification. In particular, communication and sensitization activities will be addressed both to general public and policy-makers, to foster the mitigation strategies adoption both with public opinion pressure and policy makers sensitization.

Textbox 7 you have 3509 characters (max. 4.000 characters)

Describe **problems or issues** that the project intends to address, describe why the project is considered **necessary in relation to the involved regions/countries**.

The Central Europe metropolitan areas are facing different environmental challenges like the development determined by the social and economical trend. The combined effect of increasing urbanization and global warming effect can impact on urban microclimate compromising the quality of life and generating hazard on the population's health.Urban environment with its heat island could be sensitive to climate change impacts, especially on extremes like heat waves and connected adverse effects on air quality with photochemical smog formation, thus contributing to the health effects, moreover heavy precipitation and flash flooding appearance. If no measures or action will be taken, in addition to the steadily adverse environment in the cities and under climate change possible increase of negative effects in connection to proposed increase of extreme events with consequences in quality of life.In a warming climate the urban heat island also tends to be an increasing health risk for people

who cannot stand heat stress particularly elder and sensitive population. The result is an increasing mortality rate due to heat stress; emerging risks for the water balance and for the vegetation maintenances. The possible reply to this well known problems is a twofold strategies
Adaptation strategies (Information of people on what to do in case of heat waves).
Mitigation strategies (Heat reduction strategies in planning processes-green in the city, fresh air corridors).Main expected result consists in the establishment of a permanent capacity to foster urban planning and land using, in representative CE regions, by applying a multi-level approach directly involving Municipalities, Regions, research bodies and institutions. After project end, the following results are expected: - a common knowledge concerning the state of the art of the CE UHI phenomenon;
- the direct and concrete improvement of mitigation and adaptation strategies as tools to implement a new

urban planning approach in the CE metropolitan areas;
- a direct participation of target groups (urban planners, scientists, policies maker) both at national and transnational level;
- an increased awareness of the environmental issues and of the citizens of the CE region.
The participative and multi-level approach applied throughout the project will ensure a capillary dissemination and communication of the project issues to all the target groups. Financial sustainability of project results has been addressed already from its preparation. Permanent structures, as internal Transnational Network, will be supported by PPs, which will continue to cooperate after project end. Policy and institutional sustainability lies in the inclusion of project strategies and tools in PPs' government tasks, due to the partners' politic choices. Transferability of project results will be provided,in addition to

WP2 activities, by participation of PPs to European networks.Relevant documents related to the topic of the project are the following:Emilia-Romagna Regional Land Plan (approved on February 4th 2010);Veneto Coordination Regional Master Plan(approved on 2009);Spatial and Physical Development Act in Poland (approved in 2003); Act on the town and country planning and on building regulations(No.183/2006) in Czech Republic;Federal Regional Planning Act(Raumordnungsgesetz,ROG)(07/02/2008) and Federal Building Code (Baugesetzbuch,BauGB) to take care of climate in urban planning; Federal air quality law; commitment to the aims of the Kyoto protocol and; climate protection strategy-KLIKS to mitigate and to adapt to climate change in Germany;Spatial Planning Act (ZPNacrt) of Slovenia(28 April 2007);Austrian Spatial Development Concept("ÖREK 2001");Hungarian Act on the shaping and protection of the built environment the 253/1997 (20 December)Government Decree on National Requirements of

Textbox 8 you have 3871 characters (max. 4.000 characters)

Describe the **target groups**, indirect beneficiaries and their estimated number as well as their needs. Use one line per target group.

A maximum of 500 characters can be used for each field

Target group	Identified needs	Quantification
Public bodies: municipalities; regional administrations, national administration, monitoring authorities	Need to adopt strategies to counteract the climate change effects on urban environment. Scientific parameter to develop urban plans	At least 60 public bodies involved in the CE area and beyond
Research bodies (engineers, building materials, physics, meteorologist, Automated Data Processing, ICT..)	Need to share the research's data with policy makers to get a comparable set of mitigation scenarios. Supported the knowledge flow in a transnational environment	At least 30 research body involved in the CE and beyond
Private bodies (Architects, planners, and urban designers, entrepreneurship associations…..)	Need to share competences and skills in a transnational level Implement the knowledge on the UHI phenomenon and on the tools to fight.	At least 1400 professionals, entrepreneurs and private stakeholders (at least 200 for each Nation involved)
Citizens (urban areas' dwellers, sensitive groups of elderly, patient groups, children	scarcity of information and related communication undervalues the influence of this phenomena on the people' health state: deriving need to raise awareness on environmental and climatic issues to push policymakers to plan UHI contrasting measures Participate in the urban planning decisions. A&M strategies	2 million people exposed to communication measures and 70.000 people directly influenced by UHI message

Explain why the project goals cannot be efficiently reached acting at national, regional or local level only and why **transnational co-operation** is vital for the achievement of the expected results.

Urban development and land organization in the Central Europe Space (CE) are hampered by the presence of evident disparities. The promotion of a sustainable development across the whole area, according to Kyoto and Gothenburg goals, has to be based onto the urban planning tools' homogenization and implementation also by the overcoming the existing lack of regulations and institutional capacities that affects competitiveness and cities attractiveness. The transnational structure of the project will be guarantee by the establishment of an transnational multilevel network" among the involved CE Regions and opened to other EU regions in order to set up mechanisms that allow sharing of key technologies, skills, experiences and knowledge. The activities, outputs and results will be developed and implemented focusing the peculiarities of the single countries, shared to all the partners and transposed in macro area approach constructing a real and tangible mutual benefit.

The ownership of the results will be a partners common good and shared relapse of a joint transnational action. The partnership is aware that, nowadays, there is a lack between institutions' capacity to apply proper urban planning policies able to fight the UHI phenomenon or the climate change related challenges and the development needs of the urban social needs. On the other hand, it is well known that a regional definition and implementation of urban plan or building rules, decontextualized from a wider scenario, would not be effective in reaching Kyoto targets, leading to a waste of resources. On this basis, the setting up of a transnational network for building links among Municipalities, Regions, urban planners and research bodies of a wide area, represents a transnational added value and a clear opportunity to improve the partner's institutional capacity to be effective in promoting environmental friendly urban development.

The main objective of the project is building a transnational network of competences by connecting Municipalities, Regions, assessment authorities, research bodies. The partnership structure comprise a well balanced mix of policy maker (Emilia Romagna Region, Veneto Region, Ljubljana Municipality, Wien Municipality, Lodz Municipality, Stuttgart Municipality, Prague Municipality and Hungarian Met. Service on behalf of Hungarian Env Ministry), universities and competences suppliers (Charls Univ. Prague-CZ; Czech Hydrometeorological Institut-CZ Technical Univ. of Wien-A; Karlsruhe Instit. Of technology-DE; University of Freiburg-DE; Institute of Geography and Spatial organization Warsav-PL; Slovenian Academy of Sciences-SI; CORILA Venice-IT; NIOM lodz-PL; ARPAER-IT). This partnership composition will allow to achieve not only a deep analysis of the UHI phenomenon in the all CE region but also to compare different and disomogeneous metropolitan areas.

The presences of two Regional Administration will guarantee the implementation of tools for a macro scale land management plan.
Direct involvement of Municipalities will represent a fundamental characteristic of internationality, concurring to create urban planning and building rules capable to implement the cities' competitiveness and attractiveness with a transnational sharing of the implemented regulations.
The aim of the proposal is to set up a working and efficient network of competences suppliers and institutions, able to implement the knowledge on the phenomenon and promoting the adequate mitigation and adaptation strategies on different central Europe metropolitan areas.

Textbox 9 you have 3578 characters (max. 4.000 characters)

How does your project affect the **environmental dimension of sustainability** (Gothenburg goals) ?

Addressed

Describe contributions to the environmental dimension of sustainability (Gothenburg goals).

UHI project affects positively the environmental dimension of sustainability:
- the expected output of new land-use planning strategies and tools will provide cities' and regional administrations with instruments capable to mitigate urbanization impact on microclimate. This will turn in an environmentally friendly use of land for urbanization, leaving to next generation cities more environmentally sustainable, less energivorous, with more vegetation, less pollution, more ventilation and of course less urban heat island effect. - project elaborates also mitigation strategies to UHI phenomenon improving the urban environment and city life quality of existing metropolitan areas.- both land-use tools and UH mitigation strategies elaborated in the project will help to prevent health risks for future generation citizens, who otherwise would suffer from the combination of global warming effect and UH phenomenon.

Textbox 10 you have 924 characters (max. 1.000 characters)

Select the relevant environmental indicators for your project

The project is contributing to the reduction of greenhouse gases	☒
The project is contributing to the reduction of transport-related emissions	☐
The project is contributing positively to the maintenance of biodiversity	☐
The project is reducing risks and impacts of natural and man-made hazards	☒
The project is promoting cleaner production and consumption	☒
The project is contributing to the reduction of land take for urban development	☒
The project carries out studies on enviromental issues and human health (e.g. in pre-investment projects)	☒

How does your project affect the **economic dimension of sustainability** (Lisbon goals) ?

Addressed

Describe contributions to the economic dimension of sustainability (Lisbon goals).

UHI project faces an emerging problem of all big metropolitan areas which will become more and more important as urbanization is generally increasing and because of the combined effect with global warming. Planning tools, competences, policies and strategies developed to better know, manage and fight UH are competitive factors for future oriented economic system, preparing Central Europe urban regions to deal with this emerging issue. From this, UHI promotes green economy & research into this field and to turn research to green-economy market exploitations. Then, cities less affected by UH will be cheaper cities, i.e. they'll face lower energy costs (summer conditioning) and health care costs during the heat waves in hot summers. Future generations living in regions where UHI countermeasures have been adopted will then benefit from these economic savings.

Textbox 11 you have 869 characters (max. 1.000 characters)

Select the relevant economic indicators for your project

The project is contributing positively to innovation and competitiveness	☒
The project is supporting RTD activities in SMEs and SME access to RTD services	☐
The project is contributing to strengthened co-operation among businesses	☒
The project is contributing to strengthened co-operation between businesses and research	☒
The project is technology transfer or tertiary education institutions	☐
The project is contributing to the establishment or development of transnational clusters	☐
The project is contributing to the co-operation of key players of regional innovation systems	☒
The project is fostering entrepreneurship	☐
The project is supporting the use of ICT and the access to ICT services	☐
The project is contributing to strengthened co-operation among training facilities and labour market organisations	☐

How does your project affect the **social dimension of sustainability**?

Addressed

Describe the contributions to the social dimension of sustainability

Mitigating UHI phenomenon affects indirectly also the social dimension of sustainability. In absence of UH countermeasures urban centres will become less and less attractive for upper class people to live in, resulting in a less social balanced urban population. On the contrary making urban centres a pleasant place to live in will avoid urban sprawl phenomenon and it will help administrations in guaranteeing basic civil and social services to all citizens (from public transport to cultural services). A strategy to reduce UHI phenomenon turns in preparing future cities with high quality of life and high level of social cohesion.
Moreover strategies for adaptation to and mitigation of the UHI phenomenon will leave to future generation less social issues linked to public health threat coming from hot summer heat waves, which are expected to increase in number and intensity with global warming trend.

Textbox 12 you have 914 characters (max. 1.000 characters)

How does your project affect **equal opportunity and non discrimination**?

Addressed

Describe the contributions to equal opportunity and non discrimination

UHI does not aim specifically to the direct promotion of equal opportunities and non-discrimination principles. Nevertheless PPs are committed, also according to their Statutes, in complying with them and in guaranteeing that the realization of the project activities will respect these principles. Moreover, it is worth to underline that project tackles with the topics of urban sustainable and healthy development. As agreed at EU level within framework legislation (Sustainable Development Strategy and Healthy Strategy), a high level of protection of human life and health should be assured by sustainable and healthier Urban areas, contributing significantly to the well-being of citizens and to their social and economic interests. In this scenario, the project intends to provide the overall CE area with improved urban planning rules, obtained with a deeper knowledge on the UHI phenomenon in order to allow citizens to live in healthier cities replying to a primary human need.

Textbox 13 you have 986 characters (max. 1.000 characters)

List the most relevant **EU policies and regulations** in relation to the selected Priority.

UHI fits with: EU 2020 Strategy (Sustainable growth target & 20/20/29 objective); EU Sustainable Development Strategy Com. from the Commission- Mainstreaming sustainable development into EU policies : 2009 Review of the EU Strategy for Sustainable Development; Com. from the Commission of 11 Jan. 2006 on a thematic strategy on the urban environment.
Com. from the Commission -Europe 2020 A strategy for smart, sustainable and inclusive growth-Brussels, 3.3.2010 COM(2010) 2020; EU Health Strategy- Commission White Paper of 23 October 2007 'Together for Health: A Strategic Approach for the EU 2008-2013; ECCP – EU Climate Change Programme (last update of the Copenhagen strategy); Com. from the Commission 09/03/2010-International climate policy post-Copenhagen: Acting now to reinvigorate global action on climate change; International: EU-Initiative “Covenant of mayors” to reduce CO2 by at least 20% till 2020; Climate Alliance: Commitments to reduce CO2-Emissions

Textbox 14 you have 969 characters (max. 1.000 characters)

Describe how your project relates to these **EU policies and regulations**.

EU SUSTAINABLE DEV.STRATEGY:Identification of UHI's specificity will allow to underline interactions between non sustainable urban development and the phenomenon.So results will provide arguments to prepare Sustainable Development Strategies for studied cities.EU STRATEGIES ON URBAN ENVIRONMENT:EU sets out cooperation measures aimed at enable Member States and local authorities to improve urban environmental management.The aim of this strategy is to improve quality of urban environment by making cities more attractive and healthier places: Adaptation&Mitigations strategies fit completely this goals; EU HEATH STRATEGY:development of urban planning tools to mitigate UHI impact tackle specifically health strategies Principle III: health in all policies (HIAP) allowing a perfect synergy between urban planning policies&health strategies;EU CLIMATE CHANGE PROG.:research will analyse how globally observed climate fluctuations influence climatic conditions in studied areas &then will

describe how changes in land use and urban structures can modify climate features.EU COHESION POLICY:activities of L.A. must be coherent and finally lead to improve quality of life in the region.Project's results will provide&share strategies to keep cohesion strategy in urban planning outlined by ESDP (Territorial Agenda 2007-2011 & Green Paper on T.C. 2008),ESPON,CIEMAT &Leipzig Chart 2007;CLEAN AIR4EUROPE:Air pollution is1of important factors that influence UHI.Air pollution also directly influence human health&well being.Project will identify main sources of air pollution in studied areas.COVENANT OF MAYORS, the commitment to go beyond objectives of EU energy policy, sharing the main target, facilitate the sustainability of urban development.EU STATE OF THE ART:As for regulatory framework,there are only guidelines and general recommendations;as for technical there are alert systems and research centres sustainable urban development, building material, energy saving, etc...

Textbox 15 you have 1981 characters (max. 2.000 characters)

Describe the compliance of your project with the relevant national polices of all participating countries.

In detail, the sustainability of urban development carried out by UHI project complies with: the CE nations "National Strategic Framework for the regional development policy 2007-2013"; Emilia-Romagna Regional Land Plan (approved the February 4th 2010); Veneto Coordination Regional Master Plan (approved on 2009); Spatial and Physical Development Act in Poland (approved in 2003); Act on the town and country planning and on building regulations (No. 183/2006) in Czech Republic; Federal Regional Planning Act (Raumordnungsgesetz, ROG) (07/02/2008) and the Federal Building Code (Baugesetzbuch, BauGB) Federal Building code to take care of climate in urban planning; Federal air quality law; commitment to the aims of the Kyoto protocol and; climate protection strategy-KLIKS to mitigate and to adapt to climate change in Germany; Spatial Planning Act (ZPNacrt) of Slovenia. (28 April 2007); Austrian Spatial Development Concept ("ÖREK 2001");

Hungarian Act on the shaping and protection of the built environment the 253/1997 (20 December) Government Decree on National Requirements of Spatial Planning and Building (OTÉK).There are several laws in the member states in order to ensure the attainment of the Kyoto emission mitigation targets (2012) but the one that are facing directly the climate changes phenomenon are mainly in terms of proposal. The project UHI analyzing the interactions between climate change and urban planning complain with the law or proposal approved or presented to be approved in the different CE member States as: In Austria Climate Protection Acts (proposal presented during the year 2009); in the Czech Republic a proposal of Climate Change Act was introduced to the Parliament in autumn 2009; Hungary-Resolution No. 60 of 2009 (24 of June) on the Preparation of a Framework Act on Climate Protection; the Slovenian Climate Change Act; in Poland, Italy and Germany the policies making process is more backward.

Textbox 16 you have 1944 characters (max. 2.000 characters)

Describe the **innovative elements** of the project (benefits over and above the normal returns that beneficiaries would receive from a standard action or provision of services) in relation to the following degree(s): process-oriented innovation, goal-oriented innovation, context-oriented innovation.

The project intends to tackle the UHI threat to human health in cities by applying for the first time an integrated approach between mitigation of the phenomenon (i.e. policies and actions for counteracting the heating of urban areas) and adaptation (i.e. protection of health of citizens with particular reference to weak categories as elder and diseased people). Principal process-oriented innovation elements consist in the newly developed tools to monitor, to model and to simulate the phenomenon. Monitoring system will bring a common data collection strategy. The UHI model will be tailored starting from the dataset of the multiple UHIs existing across the Central Europe area. The model will be the basis of innovative land-use planning tools which will allow to simulate both the adaptation strategies and the mitigation ones, changing the urbanization process in Central Europe zone.

As regard to the specific goals of the project the main innovative element respect to previous funded projects (e.g. Urban Heat Island and Urban Thermography funded by ESA) is that the proposed one doesn't limit its action in studying and monitoring the phenomenon but it also develops instruments and strategies to minimize it.
Project is centered around the formulation of new strategies to both contribute to mitigate the phenomenon on the long-terms (mitigation strategies) and to contribute to fight risk as well as to prevent emergency in short-medium time (adaptation strategies).
Context innovation elements mainly stand in the transnational and networking approach adopted to fight the "UHI problem", recognizing that it is a common problem for all continental European regions. Project brings together the most important metropolitan areas in Central Europe for a shared study of the phenomenon and for a joint experimentation of developed countermeasures

Textbox 17 you have 1863 characters (max. 2.000 characters)

2.2 Methodology

Describe the **approach and the methodology** (activities, their combination and sequence) that will be used to produce the intended outputs and results.

UHI project set up effective actions addressed to mitigate the phenomenon of the urban heat island according to the analysis of the necessary and relevant information on the phenomenon and the definition of a common and shared assessment's methodology.
The project's "fishbone" will be a permanent Transnational Network (WP4-TN) among experts and institutions involved in the urban planning.
The TN will develop a multidisciplinary and trans-sector approach to the UHI issue thorough two main tools: Transnational Focus Groups aiming at sharing competence and knowledge on thematic issues (meteorological, climatic and biometereological aspects, architectural techniques and urban planning….) and Local Working Groups composed by national partners and local stakeholders to apply at local level the technical competences and address the pilot actions planned in WP6.

The framework analysis (WP3) will consider two main aspects: (1) characteristics of UHI phenomenon both in terms of causes and effects on environment and population and (2) its relationships with climate change trends: such information will provide the knowledge basis for an appropriate analysis and intervention strategies levering on the real situation of the CE urban areas.
The WP4 implementation approach consists in 3 steps: (1) definition of the sensible indicators, the sampling procedures and the analysis tools to implement a common methodology (2) assessment manual collecting the operative procedures for data sampling, accessing and processing (3) shared virtual database thorough input from the existing local partners/institutions in charge to monitor the specific situation. In those areas the measurements and data will be obtained and analyzed in order to describe precisely the intensity of the phenomenon and its characteristics.

The core output of WP4 is the Central Europe Atlas implementation which regards the digitalization and the geo-referencing of collected data. In particular, activities will concern the creation of a GIS based data processing tool, where all information about detected UHIs of the Central Europe area will overlapped and put in relation with meteorological and climatic data and trends as well as to spatial planning information. WP 5 starts from the knowledge basis provided by the previous work packages and focuses on approaches to models for long-terms mitigation strategies and short-medium-term adaptation strategies to counteract UHI phenomena and risks. With the aim of implementing the adequate strategies and to test the effect of the proposed measures, a computational modeling environment will be developed.. Thereby, low-resolution (large-grid) meteorological models provide data on large-scale UHI effects.

Following the above coupled modeling environment, the relative performances (predicted degree of success) for various alternative M&A strategies & measures will be examined / numerically described. This combination allow to set up a mitigation & adaptation measures portfolio that will include specific urban & territorial planning guidelines (according to the scale of governance of the partners) as well as risk management recommendations. As consequences of the previous WPs, it will be possible to implement at regional level strategies. In particular, a progressive integration of mitigation and adaptation strategies into the existing urban planning tools will be run in the pilot areas. Indeed, WP6 is addressed to the definition and realization of a set of pilot actions to foster implementation of planning strategies in each involved region. The aim is to share the technical relevancies of the project and facilitate implementation of a new approach on the territorial planning

Textbox 18 you have 3729 characters (max. 4.000 characters)

Outline **past and current initiatives** relevant to the project .

The partnership dimension and composition allow to describe a large amount of initiative, projects and actions developed and a wide panel of experiences on the UHI and related issues. The projects developed on different European programs as FP5, FP6, FP7, INTERREG IIIc, INTERREG IVc, EPSON, LIFE and other by the partners amount to more than 40. The following project are described as main examples of the activities previously developed. Project CECILIA (Central and Eastern Europe Climate Change Impact and Vulnerability Assessment) started on June 1st 2006 as a part of the Sixth Framework Programme. CECILIA analyze the climate change impacts and vulnerability assessment in targeted areas of Central and Eastern Europe. Emphasis is given to applications of regional climate modelling studies at a resolution of 10 km for local impact studies in key sectors of the region

MEGAPOLI-Megacities: Emissions, urban, regional and Global Atmospheric POLlution and climate effects, and Integrated tools for assessment and mitigation. The MEGAPOLI project bringing together leading European research groups, state-of-the-art scientific tools and key players from third countries to investigate the interactions among megacities, air quality and climate. The main MEGAPOLI objectives beside assessing impacts of megacities / large air-pollution hot-spots on local, regional and global air quality are quantification of feedbacks among megacity air quality, local and regional climate and global climate change, and to develop improved integrated tools for prediction of air pollution in megacities. CITEAIR CITEAIR II developed on the framework of INTERREG IIIC & IV C to evaluate the the xposure to high levels of air pollution and the emerging impacts of climate change of Cities and regions all around Europe considering also the detrimental effects on citizens and economy

Textbox 19 you have 1870 characters (max. 2.000 characters)

Outline how the project will benefit from **lessons learned**.

The experiences developed in the previous projects' experiences lead the partnership to develop a multidisciplinary and interdisciplinary approach to a complex phenomenon like the UHI. To face the problem in a wide manner it is compulsory to evaluate the necessary double output: urban planning and building technique, but also the sanitary approach to prevent the derived discomforts. Considering this as a milestone of the project, UHI analysis forecasted in the WP3 and 4 will be focalized to the realization of specific adaptation and mitigation strategies (WP5) that will be applied in the pilot actions (WP6). With this strategy the project intends to tackle the UHI threat to human health in cities by applying for the 1st time an integrated approach between mitigation of the phenomenon (i.e. policies and actions for counteracting the heating of urban areas) and adaptation (i.e. protection of health of citizens, above all to weak categories as older / diseased people).

Regarding the shape out of a joint strategy in the field of urban & territorial governance, UHI could capitalize the results gained by INTERMETREX and POLYMETREX plus projects (INTERREG IIIC, www.eurometrex.org): they represent one of the larger joint project carried out by the major EU metropolitan areas to benchmark the position of the cities against the main challenges (among them, the sustainable development and the effects of the climate changes patterns) and present a proactive approach to readapt the existing territorial planning schemes according to new policy visions. Additionally, PP3 will bring into the UHI the lesson & deliverables of POLYDEV (CADSES, www.polydev.org) that consisted in strengthening, at the transnational level, the governance capacity of local and regional institutions in the issues related to spatial and territorial planning and management towards ESDP, ESPON, and CEMAT principles and in line with the EU Territorial Agenda

Textbox 20 you have 1946 characters (max. 2.000 characters)

Links to Relevant initiatives	
Objective 1 and 2 Structural Fund programmes	☒
Territorial co-operation Programmes (transnational, interregional, cross-border)	☒
Regions for Economic Change	☐
Other Priority-relevant EU programmes (LIFE+, CIP, RTD programmes, etc.)	☒
Other initiatives	☐
Networks (research, interest groups, etc.)	☒

Describe the expected **constraints and risks** related to project implementation.

A potential constrain affecting project implementation is related to the involvement of target groups, in particular a scarce participation of local stakeholder as policy makers that are often biased against evolution of the urban planning tools. Classic example is the approach to the zoning planning in the urban areas that significantly lags behind the evolution of the existing urban fabric. At the same time citizens, the "final consumer" of the urban planning, are not completely aware of the environmental issues nor the UHI or climate change. To overcome this structural constrain, awareness actions outline advantages of participating in the project as well as intents to develop in the citizens and urban planners an innovation "mind" by showing and promoting a specific environmental innovation that comply with urban development. Other constraint is connected with existing gaps between the different urban planning and environmental legislation and regional institutional scenarios

After the political changes that occurred in countries of the former Eastern Block, climate change and environmental issues started to be taken into account to some extent at the governmental level.
The assessment of climate-change impacts on agriculture, water management and health was the consequent implemented awareness. Unfortunately, it was not always available the sufficient know-how to start real cooperation efforts in the development of urban planning and land using tools. However, this knowledge gap has been progressively eliminated the management of the urban development has not been implemented equally. Considering this scenario the project provides institutions with strategies to fill these gap and to render the land use and urban planning homogenous at CE level considering two main aspect related to the UHI phenomenon: define a shared assessment' s methodology (WP4) and producing tools to implement adequate policy's decisions (WP6).

Textbox 21 you have 1955 characters (max. 2.000 characters)

How does the project ensure actual implementation? Indicate which **type(s) of action** the project intends to implement and quantify related core output indicators.

Type of Action	Core output indicators		No./Vol.
Joint transnational strategy and action plan	No. of strategies/policy documents developed/ improved	☒	1
	No. of strategies/policy documents implemented/adopted	☒	8
Transnational tool development	No. of new tools developed	☒	7
	No. of new tools implemented	☐	
	No. of trainings for new tools prepared or implemented	☐	
Joint management establishment	No. of permanent co-operations established	☐	
	No. of permanent management structures established	☒	1
Investment preparation measures	Volume of investment prepared (in Euro)	☐	
	No. of jobs to be created through these investments	☐	
	Volume of private/public funds leveraged (in Euro)	☐	
Pilot Actions including investment	No. of Pilot Actions implemented (including Nr. of investments realised)	☒	8
	Volume of investment realised through Pilot Actions (in Euro)	☐	
	No. of jobs created through Pilot Actions	☐	
Other			

Describe the chosen **type(s) of action for all core outputs. Please** ensure consistency with the summary table below (core outputs per Work package).

JOINT TRANSN. STRAT.: 1 Final Publication including the pilot actions' review (core output 6.2), in the field of mitigation and adaptation, fundamental for the definition of the portfolios foreseen in WP5, will constitute important contribution to the transnational debate on the UHI theme and climatic changes (core output 2.2).TRANSN. TOOL DEV.: 1 review drafting of UHI knowledge focusing on the CE region, considering its origin, bio-climatic factors that affect its intensity (core output 3.1); 1 Report on UHI vs climate change focused on the correlations between UHI and climate changes: they define indicators that establish relations among urban planning and human activities with climate change trends(core output 3.2); 1 Gold standard for the assessment of UHI phenomenon (core output 4.2), 1 web database will be implemented thorough input from the existing local partners/institutions in charge

to monitor the specific local situation(core output 4.3); 1 UHI modelling: a computational modelling environment for the assessment of the effectiveness of M&A measures and options (Core output 5.2);1Strategic portfolio to examine the UHI including the urban & special planning guidelines as well as risk management recommendations (Core output 5.2);1DSS software would be used as analyzer of the interaction between causes and effects in the development of the urban spaces(= decision tool able to cross different variables and produces urban policies strictly correlated with the mitigation and adaptation strategies)(core output 6.1); PILOT ACTIONS: 8 pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments (core output 6.2).JOINT MNG ESTABL.:1 Transnational Network (Act.4.1)

Textbox 22 you have 1790 characters (max. 2.000 characters)

Summary of Section 3: Work Packages

WP1: Project management and coordination	
Strategic focus/main objectives	Sound project management and coordination
Responsible partner	Regional Agency for Environmental Protection in Emilia-Romagna
WP2: Communication, knowledge management and dissemination	
Strategic focus/main objectives	Ensure wide project promotion of output and results
Responsible partner	PP2: Emilia Romagna Region. General Directorate Territorial and negotiated planning, agreements.
title of core outputs	Final publication
WP3: Framework analysis	
Strategic focus/main objectives	It will be prepared the necessary and relevant information on the UHI phenomenon and analyze the interactions between UHI and climate change.
Responsible partner	PP5: Karlsruhe Institute of Technology
title of core outputs	drafting of UHI knowledge review
	Report on UHI vs climate change
WP4: Transnational Network and UHI assessment's tools	
Strategic focus/main objectives	Setting up a permanent Transnational Network (TN) among experts and institutions; define a common and shared methodology to investigate the UHI phenomenon and compare the characteristics of the different areas; structuring a virtual UHI database
Responsible partner	PP13: Hungarian Meteorological Service
title of core outputs	Gold standard for an UHI evaluation
	WEB database
WP5: Mitigation and adaptation strategies	
Strategic focus/main objectives	Starting from scientific and institutional framework and from assessment tools provided by previous WPs 3, 4, WP5 focuses on approaches to models for long-terms mitigation strategies and short-medium-term adaptation strategies to encounter UHI
Responsible partner	PP11: Vienna University of Technology - Department of Building Physics and Building Ecology - Institute of Architectural Sciences
title of core outputs	UHI modelling
	Transnational strategy for Urban Areas & spatial planning
WP6: Pilot and capitalization actions for limiting UHIs effects	
Strategic focus/main objectives	Development of pilot actions in at least 8 urban areas to apply M&A strategies analyzed in previous WP; progressive integration of M&A strategies in urban planning tools to facilitateimplementation of a new approach on territorial planning.
Responsible partner	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional Section
title of core outputs	Decision support system (DSS)
	Pilot action: mitigation UHI effects

Does the project foresee an external **independent appraisal** (e.g.: peer review along the project implementation)?

Project management includes a external independent appraisal of coherence among expected vs achieved outputs and results. Evaluations will be performed by an independent and internationally recognized body, committed by the LP. It is foreseen a mid-term and a final evaluation. Assessment reports will contain eventual suggestions concerning suitable corrective measures to be adopted by the partnership. The assessments will be carried out on the basis of a explanatory-methodological document on the applied evaluation system, presented and approved by the SC.
Quality Evaluation will be appointed by the lead partner to an independent body. The LP and all PPs will provide all requested information for a suitable evaluation performed by the external evaluator.

Project management includes a external independent appraisal of coherence among expected vs achieved outputs and results. Evaluations will be performed by an independent and internationally recognized body, committed by the LP. It is foreseen a mid-term and a final evaluation. Assessment reports will contain eventual suggestions concerning suitable corrective measures to be adopted by the partnership. The assessments will be carried out on the basis of a explanatory-methodological document on the applied evaluation system, presented and approved by the SC.
Quality Evaluation will be appointed by the lead partner to an independent body. The LP and all PPs will provide all requested information for a suitable evaluation performed by the external evaluator.

Textbox 23 you have 1528 characters (max. 2.000 characters)

Describe - if foreseen by the project - activities of EU partners outside C.E. and the benefits for C.E.

No activities planned

Textbox 24 you have 21 characters (max. 2.000 characters)

2.3 The Sustainability and Knowledge Management

How will the **sustainability of the project achievements** be ensured (including ownership of project results)? Describe the further implementation process at institutional, financial and political level after the finalisation of the project.

Most of counteractions to UHI is a long term challenge, hardly measurable in short line, and success factors are tightly dependent from an adequate and eco-sustainable strategy of soft / hard investments for adaptation strategies. Such approach requires an organic set of integrated urban plans, where decentralized policymakers are involved in choosing the best strategy with minor costs in terms of environmental impact, and where economic investors, stakeholders and urban communities are engaged by participative processes.Additionally,UHI invests on human capital as resources to gather skills and capacity and facilitate participative processes: the ownership of the project is guaranteed by the active participation of policy makers and planners since the beginning and all along the project implementation, through several tools as local working tables. To this goals it is foreseen the post project-long standing duration of the network.Consequently, to realize a light structure that will

run in an independent financial management, it is foreseen the definition of start-up program.At project end, sustainability and durability of project deliverables is guaranteed in the long run: (a) INSTIT.LEVEL:UHI project may trigger a substantial contribution to general normative of involved partners, joint development of project will foster implementation and a possible review of urban plans and building rules to underpin further green development of EU urban areas (b) FINANCIAL SUSTAINAB.:Pilot actions focus also on promotion of economic assessment tools (business plan and cost analyses) helping set priorities for investments and sustain practical development of actions and meet financing needs and sequence investments in green economy to maximize sector-based collaboration and advance towards sustainable development. Ownership of project results given to UHI by each partner and results achieved will be described in Partnership Agreement

Textbox 25 you have 1955 characters (max. 2.000 characters)

How will the **transferability of the project results** be ensured? Describe how these results will be transferred and adopted in the programming and implementation of the relevant policies at local, regional, national and transnational level. How do you foresee the transfer of results beyond the partnership?

The concrete impact of UHI project at local scale is guaranteed by the development of 8 Pilot actions, designed in the framework of a joint guidance and scaled down in each project area. Those plans, developed in the WP6 provide a meaningful contribution to the normative and planning rules governing the eight metropolitan areas (Bologna/Modena, Venezia/Padova, Stuttgart, Lodz/Warsaw, Prague, Wien; Budapest, Ljubljana). Thus, those plans duly integrated with the national and regional programs for urban and land planning, contribute at the application of an integrated Decision Support System, where a systematic diagnosis of climate change-related problems and the design of urban-effective adaptation measures become policymaking patterns to elaborate long-term and effective programmes for the development of the urban areas.Beside, replication and extension of the project outcomes is another hard requirements to create a common CE vision over the urban

planning shared rules In order to maintain and keep developing the achieved results, UHI project envisages potentialities for the follow-up and transferability of the project deliverables: AT LOCAL LEVEL, by focusing on uhi issues and promoting further interventions also funded by other financial channels in the framework of political and planning instruments available to the partners; AT TRANSNATIONAL LEVEL: in the framework of the transnational follow-up, a M&A catalogue and an urban planning guidelines and strategies is envisaged in the project, with the aim of planning new possible cooperation projects on specific common subjects to be decided along the project, according to possible opportunities and criticalities that could arise during the implementation period. All major project results produced within UHI will be free available to the wide public through project website. The ownership of the UHI results is of the Project Partners.

Textbox 26 you have 1917 characters (max. 2.000 characters)

Describe the **knowledge management strategy** on ensuring to gather all the relevant and up-to-date information necessary for the success of the project and on the dissemination of this information to the partnership as well as target groups not directly involved in the partnership in a first step. Further on provide a strategy by outlining tools to promote the achieved new knowledge to relevant target groups.

Metropolitan urban areas have several significant negative impacts on the its environment and microclimate as well as on the citizens health. One of the most often arise phenomena is related to the urban heat island (UHI) effect that considering its incidence turns out to be rarely pointed out both by the media and interested metropolitan authorities. Therefore, this scarcity of information and related communication undervalues the influence of this phenomena on the people' health state. Consequently hardly ever prevention actions or regulations are implemented to mitigate urban heat island negative impacts. The UHI project aims to call the transnational attention to natural and man-made risks arising from the urban heat island phenomenon and foster the tailored urban mitigation strategies in the most relevant Central European cities and MEGAs. The created network composed by scientific centres, carrying out in-depth analysis on UHIs impacts and its interactions

with global climate change, will transfer empirical knowledge to the metropolitan urban planning authorities involved in the project, to update and convince them to set out targeted mitigation strategies improving existing territorial planning plans and instruments. In order to considerably improve citizens and urban planners consciousness regarding the UHI phenomenon, the project foresees an apposite communication awareness campaign tailored to local needs and applying several dissemination channels like local e-newsletters, leaflets and brochure along with various territorial sensitization events and involvement of local media to reach in the most efficient and direct way the widest public possible. The UHI project will create a multi-level and multi-sectorial information and know-how corridor, linking scientific institutions, cities authorities, territorial planners and finally the citizens, in order to draw more attention to urban heat island environmental and health impacts

Textbox 27 you have 1970 characters (max. 2.000 characters)

Provide a description of the **external communication strategy** including different tools which are used to disseminate the relevant information, project outputs and results to different target groups (media, decision makers and stakeholders, end-users and other relevant target groups not directly involved in the project) and describe why the project is of added interest to the broader public.

Microclimatic phenomenon of UHI occurring in the major metropolitan areas is poorly taken into consideration by MEDIA because low awareness and scarce knowledge of implications to the territorial asset. Thus, the lack of a serious communication effort about this phenomenon risks to underestimate the negative effects on people' health living in cities. Much more has to be done to drive attention to the UHI and push decision makers to adopt mitigation strategies. This assumption influences the CS on UHI project, managed by one communication officer per area and coordinated by PP2. The CS, scaled down at local level, provides (1) methods, visual standards & recommendations in line with ERDF & CE Programme's communication requirements (2) timeframe, tasks and shared calendar of events (3) guidelines to form local catchments groups & networks of stakeholders (citizens, policy-makers, environmental agencies, urban planners).

The CS is implemented through a multi-tool Information Package based on several information channels: MEDIA relation and articles for thematic journals and press releases; 4 electronic international newsletters issued by PP2 and 4 local ones by each partners, 1 project website and local website adaptations; 1 video in English for each partner about the projects goals to be broadcasted through the websites, 1 international publication in English with technical descriptions of the project scenarios & achievements about the UHI mitigation measures (one per involved pilot areas), 1 final publication for each involved pilot areas describing the project results, 18 local events (2 each partner's pilot area) to awaken public opinion to environmental problems and project actions and 1 final conference organized to be organized in Vienna. Expected results of the communication strategy lead to 2 million people exposed to communication measures and 70.000 people directly influenced by UHI message

Textbox 28 you have 1933 characters (max. 2.000 characters)

Outreach to selected target group		No.
No. of entities of the public sector, administration addressed	☒	8
No. of entities of the private sector and related services addressed	☐	
No. of research, technology development entities addressed	☒	11
No. of entities providing intermediary services and training addressed	☐	
No. of interest groups addressed	☒	6

Will the project communication manager be sub-contracted? yes

Describe the experience and skills of the **Communication manager** (If subcontracted, please explain the degree of experience that will be requested).

Significant internal communications or corporate communications experience with a creative approach to communication; ability to develop new and engaging ways of delivering key messages to stakeholders & wide public. In the frame of UHI the CM will coordinate & supervise the WP2 in cooperation with the LP, the Technical Secretariat and tasked partners

Textbox 29 you have 353 characters (max. 500 characters)

2.4 The Partnership

Describe the **relevance of the chosen partnership** in relation to the aims of the project and its implementation. What are the common issues, interest and/or opportunities of the involved partners? Focus on the entire partnership. For the relevance of individual partners please refer to section 4.

UHI involves 7EUMS: Italy,Austria, Slovenia,Czech Republic,Germany,Hungary,Poland providing a representative picture of the CE space complexity.Sustainability of territorial development promoted by the project is ensured by the partnership structure that represents a balanced mix of policy makers "institutional partners",environment-monitoring agencies and Universities that will perform as "scientific partners".Partnership composition will allow - on 1 hand - to investigate the phenomenon, and - on the other hand – to apply/improve environmental,land-use and urban planning policies at local level thanks to the presence of institutional partners that will capitalize the scientific findings.This will ensure the integration of mitigation & adaptation strategies into the regional and local urban planning policies, with long lasting effects. Moreover, the presence of municipalities (like Praha,Stuttgart,Ljubljana,Wien) leads to a great and immediate impact onthe cities and urban context,

while the presence of MEGAs will allow the design of strategy at larger scale.Different characteristic and wide geographic distribution of areas like Bologna/Modena,Padova/Venezia,Stuttgart,Lodz/Warsaw,Praha, Ljubljana and Wien will ensure:(1)a deeper knowledge of the UHI phenomenon as a huge amount of significant variable (as geomorphologic aspects, meteo-climatologic, anthropogenic) could be compared;(2)a overall picture of the macroclimatic and microclimatic situation in the whole CE Region that could address synergic mitigation policies to counteract the UHI phenomenon.Partnership has been extended to different "scientific" partners with the aim to define a wide amount of competences and knowledge linked to the necessary multidisciplinary and cross-sector approach o the complex and non linear phenomenon of the UHI.Scientific partnership will define a transnational network of meteorological, bio-meteorological,epidemiological, urban planners experts on a transnational level

A crucial characteristic to be underlined in the "institutional" partnership regards different level of governance of partners: the presence of municipalities, regional administration (Veneto,Emilia-Romagna) and Ministry (Hungarian Met Services) allow to design different level of political intervention:in particular,regional governance level plays a crucial role as the macro-scale strategies must be negotiated (bottom-up approach) with the lower provincial and municipal level in order to be effective.About governance scale, UHI gives opportunity to explore also the interregional governing level between Veneto&Emilia Romagna:indeed,the development of UHI represents 1further contribution to long-standing process of integration of territorial planning policies framed into the Adria-PoValley Agreement,a wide strategy shared by all Northern Italian regions for the coordination of the regional spatial planning policies. The expected results of the undergoing NATREG project

(SEE Programme, www.natreg.eu, aiming at the shared management of Po valley) could be capitalized into UHI as the green-belt between the 2 up-cited Regions could peg the heating effects occurring in the 2 pilot areas located at the border of this high natural area.WP Leaders are the following: WP1: LP; WP2: PP2, WP3: PP5; WP4: PP13; WP5: PP11; WP6: PP3. These leadership have been decided by the PPs during a partnership preparatory meeting in Bologna on the basis of competences and knowledge of them. WP Leaders will have to coordinate and steer the WP works, providing useful working plan and monitoring the achievement of the WP goals.
All the Partners are actively involved in the Transnational Network established during the project implementation and that will last after the project end.

Textbox 30 you have 3770 characters (max. 4.000 characters)

Identify and describe the relevant **stakeholders and key actors** and how they will be involved in the partnership.

The relevant stakeholders could be described as 4 different groups:
1. Public bodies: municipalities (office for social affairs , planning office, health office, hospitals administration, office for gardens and forest, fire brigade office), regional administrations (District Planning and Land Use, Health, Environment) national administration, monitoring authorities (environmental agencies, health authorities, meteorological institutes)
2. Research bodies: Universities, (engineers, building materials, physics, meteorology, Automated Data Process¬ing, Information and Communications Technologies)
3. Private bodies (Architects, planners, and urban designers, building and facility management, entrepreneurship associations)
4. Citizens (urban areas' dwellers, sensitive groups of elderly, patient groups, children

As they always have, urban planners try to implement widely accepted social policies and programs but their implementations are often a complex compromise. Collaborative Strategic Goal Oriented Programming (CoSGOP) is a collaborative and communicative way of strategic programming, decision-making implementation and monitoring oriented towards defined and specific goals. Furthermore it shall put emphasis on stake-holder participation, is expected to create awareness among actors. It has been taken like a theoretical model as a starting point for an analysis of redevelopment processes in large urban distressed areas in European Cities. It will also be adopted as model of communication by LWG to propose and disseminate the UHI project's results and urban plan as pilot action in an interactive and cooperative way.

Textbox 31 you have 1643 characters (max. 2.000 characters)

What is the degree of transnational co-operation within the partnership? (tick at least one additonal option)

Joint development	☒
Joint implementation	☒
Joint staffing	☒
Joint financing	☒

Describe the selected degrees of transnational cooperation.

(1) Joint development. Starting from April 09, All partners contributed to the definition of project idea, objectives and actions, under the LP's coordination, through several daily contacts and restricted meetings plus 1 plenary meeting (23.04.10). (2) Joint implementation. It will be ensured by the involvement of all PPs in all WPs. Each WP is coordinated by one PP according to its specific skills. Deliverables obtained by a PP will be applied by other partners. PPs in the UHI Steering Committee will provide overall monitoring of project implementation. (3) Joint staffing. Each staff employed in the project will have specific tasks, according to an unique organization chart. This will allow to promote synergies and exchange among staff of different PPs, avoiding doubling of functions. (4) Joint financing. Project budget is assigned to each PP in relation to its tasks and the respective expected outcomes, on the basis of real costs

Textbox 32 you have 947 characters (max. 1.000 characters)

In case of **sub-contracted activities** (coordination, financial management and communication excluded), explain the reasons why these activities cannot be implemented by the partnership with own resources.

The thematic tackles by UHI needs an interdisciplinary approach and specific expertise to investigate the phenomena and its broad range of application. Partners develop mainly with their own competences project activities, but external support is required where so specific tasks are foreseen. With reference to WP3, LP, PP4, PP17 need external support to collect the most relevant experiences on UHI and review the climate change impact on the CE area and in their own region. WP4 foresees the creation of a Transnational Network (composed by Transnational Focus Groups and Local Working Groups) which has to be coordinated in a multidisciplinary and trans-sector approach. For this reason, the LP requires a specific external support.

Main subcontracting to be reported in this WP are: design of a common methodology and implementation of web database run by PP4; PP13 needs specific competences for the editing of CE Atlas.
WP5 and WP6 are very specialized WP. In particular, LP, PP3, PP4 and PP18 will need external support for the Definition of mitigation and adaptation strategies in WP5.
WP6 foresees the Pilot and capitalisation actions for limiting the UHIs effects which need multidisciplinary and trans-sectoral approach; PP2, PP3, PP4, PP10, PP12, PP13, PP14, PP15, PP18 will need external expertise.

Textbox 33 you have 1313 characters (max. 2.000 characters)

Describe the main **co-ordination and management structure** and the foreseen procedures including the decision-making process (e.g. composition of the project Steering Committee, its competences and procedures, the internal evaluation system) and how the day to day management will be organised. Provide a description of the management flow that you will also illustrate in a flow chart to be attached to the Application Form. The description of the management structure has to include roles and responsibilities of partners too.

Project coordination&management structure,cross-cutting towards all WPs,aims at assuring relevance,efficiency,effectiveness&sustainability of UHI as a whole.Project coordination&management structure foresees the set up of following bodies:1.Project Steering Committee(PSC); 2.project managers' team;3.project Technical Secretariat(TS)composed by 3multidisciplinary pools of experts with a longstanding experience in (a)EU law and international legal agreements,(b)financial management of projects financed by EU Structural Funds,(c)communication,MEDIA relations and mainstreaming;4.independent appraisal,as described in the chart.PSC,chaired by LP,is composed by1representative of each Partner.Established during Kick off mtg and having internal regulatory chart.SC meets periodically during project life, in coincidence with meetings of the TSB.SC will take strategic joint decisions regarding project implemeUHI,toward MA, JTS, PA.

According to the LP principle,LP is responsible for setting internal Project Manager, as described in the following paragraphs, works closely with the other project managers (1per partner) and it is in charge of supervising all operative processes, technical project performance and level of achievements and of the project reporting.TS will support the LP and all project actors in the day-by-day management (strategic programming, coordination of the activities; technical and financial project monitoring; support to the organization and participation in the international events, communication activities'supervision, help-desk). Moreover, direct communications from LP to PPs and among PPs are facilitated by TS.TS activities is entirely covered and outsourced by LP,on the basis of EU and National public procurement rules.Project management includes an independent appraisal of coherence among expected vs achieved outputs and results. It is foreseen a mid-term and a final evaluation

Textbox 34 you have 1925 characters (max. 2.000 characters)

Provide an overview of the project's **internal communication**, outlining how the communication flow within the partnership will be established and the tools that will be used.

Effective internal communication between partners is assured through the usage of several dissemination channels and potentials for the transferability of information. Beyond the normal responsibilities of supervision and coordination of the work packages in charge of the WP leaders, the LP will keep closer relationship with them with the aim of assuring a constant overall coordination to the UHI project.
Beside the SC meetings, a restricted work-sessions participated by LP, WP leaders and PTS will be devoted to a general evaluation of the project achievements so far and gathering the work plan for the next activities. With the scope of facilitating the internal communication, the LP will appoint, for the benefit of the whole partnership an external Project technical Secretariat (PTS)

PTS will support all the LP staff and all project actors in the day-by-day management (strategic programming, coordination of the activities; technical and financial project monitoring; support to the organization and participation in the international events, communication activities' supervision; help-desk). Thanks to the creation of a project help desk, PTS will provide a day-by-day assistance to all PPs, providing answers in real time by e-mail-telephone-skype. With specific reference to the WP1 and WP2, the leaders of such WPs will deliver a monthly "to do list" to the project managers and communication managers as reminder of the scheduled activities. In the project website, a partners' restricted area will be used to exchange documents and files.

Textbox 35 you have 1560 characters (max. 2.000 characters)

Will the project coordination and management be sub-contracted? yes

Describe the experience and skills of the **Project manager / Coordinator** (If subcontracted, please explain the degree of experience that will be requested).

Project Manager (PM) is nominated by LP within internal staff and is responsible for overall project implementation both from technical and financial viewpoint.PM supervises on overall UHI coordination by leading (a) PPs,within PSC, (b)internal financial unit (c)project Technical Secretariat. Additionally,PM is "direct contact" with Programme Bodies and participates in LP Seminars and is responsible of timely submission of Progress Reports. Beyond normal PM's responsibilities, the ambitious target of 8 different pilot actions and high degree of technical/scientific competences related to UHI topic require that,during project implementation,PM must focus its efforts above all on technical implementation of project activities in close coordination with WP resp. partners.Therefore,to achieve satisfactory project results and assuring best coordination & management in line with CE standards,PM delegates some of its administrative&bureaucratic responsibilities to Technical Secretariat (TS)

Textbox 36 you have 998 characters (max. 1.000 characters)

Describe the **finance management structure** and the foreseen procedures including the financial monitoring system and how the day to day finance management will be organised. The description of the finance management structure has to include roles and responsibility of partners too.

Financial management activities include the financial accounting, data supply, general administrative tasks according to Programme's Authorities requirements. First level control for expenditures certification will be carried out by each PP according to national requirements.
It foresees following bodies:Project Finance Manager; PPs' Finance Managers; financial external support service appointed by LP.
Project Finance Manager, identified by the LP, is responsible for project budget, accounts, financial reporting, internal management of ERDF funds with specific reference to transfer of funds and cash flow management.
Each financial manager, 1 per partner, is appointed to take care of relevant duties deriving from the EU main regulations on ERDF, by Subsidy Contract and Partnership Agreement.
Financial external support service is appointed by LP and will support LP and PPs in financial issues. Moreover, it will ensure the managing EU funded projects knowledge transfer to PPs' managers

Textbox 37 you have 998 characters (max. 1.000 characters)

Will the finance management be sub-contracted? yes

Describe the experience and skills of the **Finance Manager** (If subcontracted, please explain the degree of experience that will be requested).

The Project Finance Manager will work in close contact with the Project Manager and the Project Partners in order to ensure an efficient financial management and the project cash flow, monitoring expenditure, payments. Financial manager will be envisage at project partners' level too.
Moreover, the LP will appoint, on behalf of the whole partnership, an external support service provided by experts that will assist the project's staff in complying technical and financial tasks.
The LP Financial manager will work in close cooperation with the LP project manager and with the chief project manager of the TS, in order to match relevant tasks (both monitoring physical and financial implementation of the project).

Textbox 38 you have 717 characters (max. 1.000 characters)

Information on Associated Institutions

If applicable, please list all institutions that will support the operation without financially contributing to it. Clearly relate them to one of the official partners of the operation.

No	Name of Institution	Partner	Country	Region
1	Italian Local Agenda 21 Association	LP: Regional Agency for Environr	Italia	Emilia-Romagna
2				

Section 2: Project outline

2.5 Investment

Investment 5.1

Software licenses necessary for the modelling activities (compilers for running the models, maintenance of Intel FORTRAN, ArchGIS for output postprocessing and analysis)

Responsible Partner	PP14: Charles University in Prague, Faculty of Mathematics and Physics				
Budget	2.055,00 €				
Specify the start and end date.	Start date		End date		Duration (months)
	6	2013	5	2014	12

Provide a short description of preparatory steps for the investment (e.g. feasibility study, environmental impact assessment, contacts to decision makers, etc) already carried out.

During the project implementation, P14 acknowledged the lack of appropriate tools essential for the elaboration of data, analysis and calculation foreseen by the project in this WP, in particular linked with the environmental computational modeling
In order to allow the full participation of PP14 in this work package, and to obtain the required information / data on UHI phenomenon for the Czech pilot area that are compulsory to achieve the overall and complete analysis covering all project partners (and almost all CE area), the project partnership agreed on including the purchase of the contract use of licenses in project budget.

Textbox 159 you have 640 characters (max. 2.000 characters)

Outline the characteristics of the investment by ticking at least 3 of the boxes below:

Form part of or be the result of transnational project co-operation	☒
Have a transnational effect	☒
Create a physical link or a functional connection between regions	
Have a demonstrating/model or pilot character being jointly strived for and evaluated by the partners.	

Provide an overall description of the proposed investment and specify the chosen **characteristic of the investment**. Provide also a **split** of costs related to the proposed investment. Should works be involved, include costs for manpower and for construction materials separately. Specify also any good and/or service supplied in the framework of the proposed investment, providing as well its quantification.

The necessary licenses are described below:
The “Intel FORTRAN” which helps to create and maintain computationally intensive programs on a number of different platforms. The Fortran language provides a set of mathematical computation features, array manipulation and constructs to help you create complex modeling algorithms. 1 contract use for 1 year
The “ArchGIS that can create, manage, and share geographic data, maps, and analytical models using desktop and server applications. 1 contract use for 1 year
The approximate breakdown of expenses to be purchased is the following:
Intel FORTRAN: 1255 euro
ArchGIS: 800 euro

Textbox 160 you have 627 characters (max. 3.000 characters)

Who is benefiting?

Who is (financially, content-wise) benefiting from this Investment?

The licenses will be used by PP14 for the environmental computational modeling foreseen in WP5 and to be part of the specific portfolio of mitigation strategies for each pilot area, but all PPs will benefit from the results foreseen in these activities

Textbox 161 you have 253 characters (max. 1.000 characters)

Expected Impact

Specify the expected impact this investment will have in particular on different (policy) levels (i.e. local, regional, national and transnational level). Explain how you are going to use your investment in order to meet the Work package's objective.

The WP5 results are very important for the entire project because they allow the assessment of the pilot actions carried out. In particular, for the identification of the meteorological and of the building environmental inputs variables and also for the computational models to be provided and shared among PPs. The possibility to provide complete, tested and valid data is then essential for each partner (and consequently for city/region/nation that represents). Therefore the full participation of the PP14, reinforced by specific technical instruments, in development of such analysis is indispensable to guarantee the profiling of UHI phenomenon for the Czech area (and its local governance policy) and for the whole partnership as the data delivered will be shared with other partners and included in the framework analysis.

Textbox 162 you have 830 characters (max. 2.000 characters)

Transnational added value

What is the transnational added value of the investment and how is it embedded in transnational cooperation?

The WP5.1 activity foresees the set of data subsequently translated into the boundary conditions for medium-scale and small-scale thermal modeling tools of the built environment. To this goal it is necessary to test the model in a variety of settlement typologies and also the modification of its variables (land cover, building and opens space shapes, ecc) that will help to collect information and develop the mitigation and adaptation strategies.
In order to ensure the complete result/output including also including the Czech data it is strictly necessary to reinforce the partner technical capacities by these licenses.

Textbox 163 you have 628 characters (max. 2.000 characters)

Sustainability

Provide explanations on the strategy/plan to technically and financially sustain the investment after the end of co-financing. Describe any kind of leverage effects or follow up activities.

The sustainability of the described licenses is ensured by PP14 who will purchase those use contracts necessary to carry out project activities. The partner will sustain all costs related to the tools maintenance also after the end of the project.

Textbox 164 you have 249 characters (max. 2.000 characters)

Investment 6.1

Software licences necessary for the modelling activities (compilers for running the models, maintenance of IDL, COMSOL, SPSS and MATLAB for output postprocessing and analysis)

Responsible Partner	PP14: Charles University in Prague, Faculty of Mathematics and Physics				
Budget	4.500,00 €				
Specify the start and end date.	Start date		End date		Duration (months)
	6	2013	5	2014	12

Provide a short description of preparatory steps for the investment (e.g. feasibility study, environmental impact assessment, contacts to decision makers, etc) already carried out.

During the project implementation, P14 acknowledged the lack of appropriate tools essential for the elaboration of data, analysis and calculation foreseen by the project in this WP, in particular linked with the post-processing of results, and microscale flow. The use of these licences for the implementation the the above mentioned activities will allow the full participation of PP14 in this work package, and to obtain the required information / data on UHI phenomenon for the Czech pilot area.

Textbox 219 you have 498 characters (max. 2.000 characters)

Outline the characteristics of the investment by ticking at least 3 of the boxes below:

Form part of or be the result of transnational project co-operation	☒
Have a transnational effect	☒
Create a physical link or a functional connection between regions	
Have a demonstrating/model or pilot character being jointly strived for and evaluated by the partners.	

Provide an overall description of the proposed investment and specify the chosen **characteristic of the investment**. Provide also a **split** of costs related to the proposed investment. Should works be involved, include costs for manpower and for construction materials separately. Specify also any good and/or service supplied in the framework of the proposed investment, providing as well its quantification.

The necessary licenses are described below:
COMSOL is a powerful interactive environment for modeling and solving scientific and engineering problems based on partial differential equations (PDEs). COMSOL allows you to create equation-based models through a flexible self-contained graphical user interface or from the MATLAB command line.
IDL: A scientific graphing, data analysis, image processing and programming software tool for scientists and engineers.
MATLAB Mathematical analysis software is a high-performance language for technical computing. It integrates computation, visualization, and programming in an easy-to-use environment where problems and solutions are expressed in familiar mathematical notation.
SPSS Modeler is a data mining and text analytics software application. It's used to build predictive models. It has a visual interface which allows users to leverage statistical and data mining algorithms without programming.

The approximate breakdown of expenses to be purchased is the following:
COMSOL: 1100 euro
IDL: 1200 euro
MATLAB: 1000 euro
SPSS: 1200

Textbox 220 you have 1082 characters (max. 3.000 characters)

Who is benefiting?
Who is (financially, content-wise) benefiting from this Investment?

The licenses will be used by PP14 for the feasibility studies carried out in WP6 and to be part of the common project report on the mitigation effects, but all PPs will benefit from the results foreseen in these activities

Textbox 221 you have 222 characters (max. 1.000 characters)

Expected Impact

Specify the expected impact this investment will have in particular on different (policy) levels (i.e. local, regional, national and transnational level). Explain how you are going to use your investment in order to meet the Work package's objective.

Thanks to these licenses the PP14 could fully participate in this activity of WP6 providing data regarding its area and allowing Prague region to have those data available. These tools will be used by PP14 (also for the benefit of the other CZ Partners) to include the information gathered by the PP14 to be shared with the other PPs.

Textbox 222 you have 335 characters (max. 2.000 characters)

Transnational added value

What is the transnational added value of the investment and how is it embedded in transnational cooperation?

The 6.2 activity foresees the macro scale analysis to be used for the feasibility study implementation in 8 pilot areas. 1 of these pilot study area is the urban conglomeration of Prague. The licenses will be used specifically for this purpose: to calculate those data for the development of mitigation and adaptation strategies. This core output has transnational character because it will allow to compare and share results from the 8 areas (Prague included).

Textbox 223 you have 463 characters (max. 2.000 characters)

Sustainability

Provide explanations on the strategy/plan to technically and financially sustain the investment after the end of co-financing. Describe any kind of leverage effects or follow up activities.

The sustainability of the described licenses is ensured by PP14 who will purchase those use contracts necessary to carry out project activities. The partner will sustain all costs related to the tools maintenance also after the end of the project.

Textbox 224 you have 249 characters (max. 2.000 characters)

Section 3: Work plan

Work package 0

Work package name:	**Project preparation**

Responsible partner	LP: Regional Agency for Environmental Protection in Emilia-Romagna																	
Involved partners	LP	☒	PP2	☒	PP3	☒	PP4	☒	PP5	☒	PP6	☒	PP7	☒	PP8	☒	PP9	☒
			PP10	☒	PP11	☒	PP12	☒	PP13	☒	PP14	☒	PP15	☒	PP16	☒	PP17	☒
			PP18	☒	PP19		PP20		PP21		PP22		PP23		PP24		PP25	

Description of preparation activities and outputs that have taken place

WP0 includes the following actions:
1.Project drafting: characterization of project partnership along with the definition of the project objectives, arrangement and scheduling of project activities and tasks and drafting of the budget, according to Programme's requirements and forms.
2.Preparatory meeting: it has been held on the 23rd April 2010 in Bologna. It foresaw the formal introduction of each partner, followed by a technical session oriented to the common assessment of the project proposal.
The partnership has been set up on the basis of sharing common needs and objectives, and competences to achieve and follow-up expected results.
All PPs contributed to the definition of project goals, methodology and to the project work-plan definition.Formal adhesion to the project has been assured by the co-financing statement declarations. Project activities have been jointly defined on the basis of PPs' competences and skills. Specific attention has been paid in setting up of pilot actions

Textbox 279 you have 1000 characters (max. 1.000 characters)

Date when preparation activities started (DD/MM/YYYY)	12	1	2009
Total costs of the work package			13.523,20 €

Work package 1

Work package name:	**Project management and coordination**

Work package level

Strategic focus/main objectives	Sound project management and coordination

Summary **description** and approach (including the contribution to the project main objectives)

LP is responsible for the management of the overall project, on the basis of the provisions stated in the Subsidy Contract and Partnership Agreement. LP is therefore responsible for setting the internal project management procedures, for ensuring the project implementation, and for the sound financial management.
The WP1 includes:
1.1 Fulfilment of start up requirements: the LP will manage the negotiation with the Programme's bodies and will involve PPs in the decision marking process and in the preparation of start up documents needed for the contracting phase. Moreover, at project start, the LP, with the support of the PTS, will draft a project "road map", including project WBS and OBS, working budget with spending forecast, reporting time schedule and financial flows forecast.
1.2 Day to day project management, coordination and internal communication: it is developed through the

Transnational Management Board, which involves all partners in the management of own specific activities and of the related administrative and financial duties. The tight coordination will be guarantee by an external expertise service, appointed by LP on behalf of the whole partnership, selected in compliance with public procurement rules.
1.3 Steering and monitoring of the project implementation: the project management will be jointly developed by establishing a Project Steering Committee in which each PP is represented. The PSC provides: monitoring and review of the project performance; project strategic addresses; considerations and recommendations concerning project work plan; formal decisions on project modifications/changes; approving project official documents; common supervision over the compliance with the technical, administrative and financial duties and tasks foreseen by the Partnership Agreement.

Decision-making procedures within PSC are based on achievement of the full partners' consensus over the most important items and on the majority principle (1partner,1vote).
8 meetings of PSC are planned throughout the project duration: Bologna, May 2011 – in coincidence with Kick off (Act. 2.3); Stuttgart, June 2011; Budapest, January 2012; Lodz, June 2012; Prague, Feb 2013; Venice, Sept 2013; Bologna - March 2014; Vienna, April 2014 – in coincidence with Final Conference (Act. 2.3).Additionally, 1independent evaluator will be appointed by the LP to supervise the project processes implementation and the technical quality of the project results
1.4 Financial management, certification of expenditures will be developed by Financial Manager, responsible for expenditures accounting, making the relevant report and having certified by the controller; collecting and verifying partners data and reports, compiling the progress Report; transferring the ERDF funds pro-quota to the Partners

Textbox 280 you have 2810 characters (max. 3.000 characters)

Links to other work packages	all work packages
Responsible partner	Regional Agency for Environmental Protection in Emilia-Romagna
Involved partners	all partners

	Title of action	Start month of Action	End month of Action	Total costs of Action
1.1.	Fulfillment of **start up requirements**	1	3	16.443,31 €
1.2.	Day to day **project management, coordination** and **internal communication**	3	39	227.150,79 €
1.3.	**Steering and monitoring of the project implementation**	3	39	40.336,67 €
1.4.	**Financial management, certification of expenditure**	3	39	260.696,10 €
		Total costs of the work package		544.626,87 €

Outputs

		Title of output (max. 75 characters)	Month of av.		Qualitative description (max. 250 characters)	Quantitative desc. (max. 75 characters)
1.1.	1.1.1	Negotiation	1		LP negotiation with the JTS, PPs involvement for common decisions, preparation of start up documents, towards the final approval of the projec	1 application form approved and all start up reports
	1.1.2	Contracting	2		Procedure for the signature of the Subsidy Contract (following notified to all Partners) and Partnership Agreement signed within 3 months after project start by all partners	1 subsidy contract (MA and LP) and partnership agreement among PPs signed
	1.1.3					
1.2.	1.2.1	Project management	3		Transnational Management Board composed by the Project management of all project partners	n.17 project managements identified
	1.2.2	Project Technical Secretariat	4		TS appointed & paid by LP to support all PPS in the coordination of the activities; technical and financial project monitoring; help-desk; support and participation in the Transnational events organization	1 Technical secretariat established
	1.2.3					
1.3.	1.3.1	Set up of Project Steering Committee	3		PSC is representative of each partner and leaded by LP. Established during kick-off, will meet periodically during the whole project life, in coincidence with TSB mtgs. PSC will take strategic joint decisions regarding project implementation	Bologna, Stuttgart, Budapest, Lodz, Prague, Venice, Bologna, Vienna
	1.3.2	External Independent Appraisal	7		Indipendent appraisal appointed by the lead partner to validate the intermediate and final project results	2Peer reviews along the project implementation: 1 intermediate+1 final
	1.3.3					
1.4.	1.4.1	Financial management	3		Regular preparation of partners reports and LP progress report. Daily financial monitoring for effective coordination and management of project development	6 progress reports + 1 final report submitted
	1.4.2	Audit	39		Validation of the partners' expenditures according to the Programme rules and national rules, and check out of the public procurement procedures in case of outsourcing / tenders	6 validations of expenditures per each partner
	1.4.3					

Activities outside Central Europe area, but within EU:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned

Activities in Third Countries:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned outside CE Programme area

Indicate the planned ERDF for these activities:

Amount:	0,00 €

Work package 2

Work package name:	Communication, knowledge management and dissemination

Work package level

Strategic focus/main objectives	Ensure wide project promotion of output and results

Summary **description** and approach (including the contribution to the project main objectives)

The communication strategy of UHI, coordinated by PP2 Emilia Romagna Region, provides the PPs with (1) methods, visual standards & recommendations in line with ERDF & Central Europe Programme's communication requirements (2) timeframe, tasks and shared calendar of events (3) guidelines to form local catchments groups & networks of stakeholders (citizens, policy-makers, environmental agencies, urban and spatial planners). All these systematic actions aim to better achieve the UHI Project objectives and the dissemination of its results: indeed, the CS aims to presents how UHI Project partners will network, participate and interact with stakeholders and other target audiences at local (pilot areas and neighbouring regions) and international scale (Central Europe cooperation space). In order to catch the needs of the targeted audience, to design and deliver audience-informed products, and than gather feedback to assess the impact, the CS is also used at local level, in order to

contribute to (1) better understanding the UHI phenomenon at local level (2) present the analysis and proposed mitigation / adaptation strategies in the concerned urban pilot areas (3) create consensus, common vision and broad acceptance of WP6 strategies between the civil society and the public authority on charge of managing the territory. The CS is implemented through a multi-tool Information Package based on several information channels: media relation and articles for thematic journals and press releases; electronic international newsletters and local ones; a project website with local website adaptations; an English video created by LP, about the projects goals to be broadcasted through the websites, a final publication with technical descriptions of the project scenarios & achievements about the UHI mitigation measures (one per involved pilot areas), with relevant translated version in each involved country's language, one regional

handbook focused on the specific pilot actions in Veneto, describing the project results, the organisation of two local events for each partner'spilot area to raise public opinion to environmental problems and project actions and a final conference organized in Vienna. Additionally, several meetings and trainings will create a stable platform for discussion between the public authorities, planners, private sector and civil society to rise awareness on the urban heat island phenomenon and address a responsible perception of the problem. Expected results of the communication strategy lead to 2,5 million people exposed to communication measures and 70.000 people directly influenced by UHI project message. The CS is implemented by one communication manager hired by PP2 in charge of coordinating the communication activities and of by 9 communication Managers (one per each partner) who are the responsible for the coordination of the communication strategy at local level.

Textbox 281 you have 2922 characters (max. 3.000 characters)

Links to other work packages

WP2 is cross-cutting towards the other WPs, providing dissemination initiatives related to specific actions, in particular pilot actions

Textbox 282 you have 136 characters (max. 150 characters)

Responsible partner	PP2: Emilia Romagna Region. General Directorate Territorial and negotiated planning, agreemen																			
Involved partners	LP	☒	PP2	☒	PP3	☒	PP4	☒	PP5	☒	PP6	☒	PP7	☒	PP8	☒	PP9	☒		
			PP10	☒	PP11	☒	PP12	☒	PP13	☒	PP14	☒	PP15	☒	PP16	☒	PP17	☒		
			PP18	☒	PP19		PP20		PP21		PP22		PP23		PP24		PP25			

	Title of action	Start month of Action	End month of Action	Total costs of Action
2.1.	Media communication/ dissemination	1	39	15.830,02 €
2.2.	Non-media communication/ dissemination and website	1	39	211.594,22 €
2.3.	PR Events	1	39	191.204,10 €
2.4.	Communication Strategy	1	39	97.968,50 €
		Total costs of the work package		516.596,84 €

Outputs

In case you choose an Output as Core Output, please fill in the description in the Core Output Table below the Output table.

		Title of output (max. 75 characters)	Month of av.	is a Core Out ?	Qualitative description (max. 250 characters)	Quantitative desc. (max. 75 characters)
2.1.	2.1.1	MEDIA articles and press released	39	☐	Preparation of press releases / articles (one per each area) and press conferences (after kick off and final events), to be published on the main specialized magazines / newspapers	9 press releases/articles + 2 press conferences
	2.1.2					
2.2.	2.2.1	Electronic newletter	39	☐	An e-newsletter will be issued in English and connected to the core-specialist Wps; it will be carried out one per each country with translations in IT, DE, PL, HU, CZ, SI included. Action coordinated by PP4	4 issues per 7 countries involved
	2.2.2	Local Dissemination material	39	☐	Leaftlets and brochures promoting the project goals and local pilot actions. In 7 languages: EN, IT, DE, PL, HU, CZ, SI. Action coordinated by PP2	1 project brochure in EN (with translations); 6 set of leaflets
	2.2.3	Web site and multimedia dissemination	6	☐	Web site management (PP13 responsible) and multimedia communication tools, video and other documentation, in EN, broadcast by the project web platform (LP responsible with PP13 supporter). Translations included	1 Web Site, video broadcast by web
	2.2.4	Regional handbook	39	☐	To enhance the UHI message, PP3 carries on an handbook (CD-ROM included) that zooms on the Veneto pilot area.	1 regional handbook; estimated copies printed: 1800
	2.2.5	Final publication	39	☒	Final publication drafted in EN under the coordination of PP4 with the technical contribution of ALL PPs. Translations included. Final publication editing.	1 Final publication; Estimated copies printed: 3600
	2.2.6					
2.3.	2.3.1	Kick off event	2	☐	Launch meeting, a big trasnational event to present the project activities and its results at research and institutional levels, in coincidence with the 1°PSC, EXT speakers included	1 kick off event in Bologna
	2.3.2	Local events (sensitizations) 2 per area	39	☐	Awareness initiatives both orientated to pubblic (as final beneficiary) and to policy makers (as chief stakeholders). EXT SPEAKERS INCLUDED	18 local events organized
	2.3.3	Final Conference	39	☐	Closing Meeting: a big trasnational event to present the project outcomes at research and institutional levels, in coincidence with the 7°PSC. EXT SPEAKERS INCLUDED	1 final conference in Vienna; 200 attendees
	2.3.4					
4.	2.4.1	Communication Plan	6	☐	Comunication Plan, procedures and tools, outlines in English: CS provides requirements, timeframe and guidelines to form local catchments groups & networks of stakeholders	1 communication strategy
	2.4.2	Project communication team	2	☐	This is composed by the Project communication Manager of the WP Leader and of own partners communications managers, responsible for assuring the application of the CS at partners'level and the higher degree of project results' dissemination	1 Communication Manager Leader and 17 CMs partners

2.	2.4.3	Results Exploitation Action Plan	39	☐	Follow up strategy guidelines in English to continue transnational cooperation in the UHI field	1 Results Exploitation Action Plan
	2.4.4					

Core Outputs

Please describe the core outputs by specifying the major activities and their envisaged **results;** also outline the **target groups**, and the **process how the results are used** by these target groups (max. of 2x1000 characters).

		Title of Core Output	Core Output description
2.2.	2.2.5	Final publication	The final publication, to be delivered in 3600 estimated number of copies, informs stakeholders about the achieved positive changes and about the tangible and intangible project results. In particular it will be addressed to the potential users of UHI studies and analyses: policy-makers, environmental agencies and urban planners at local, national and EU level. It is considered a core output because of its capacity to recall international attention to the heat island problem in urban settlements (it contains all the main outputs) and to spread the mitigation strategies figured out in the pilot areas: in this sense, it represents a master communication channel to transfer the local-based measures to other urban – metropolitan areas of the Central Europe cooperation space and beyond. FP will be issued in English and translated into the partners' languages. To enhance the UHI message, PP3 carries on a further handbook that zooms on the Veneto pilot area.

Activities outside Central Europe area, but within EU:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned

Activities in Third Countries:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned outside CE Programme area

Indicate the planned ERDF for these activities:

Amount:	0,00 €

Work package 3

Work package name:	Framework analysis

Work package level

Strategic focus/main objectives	It will be prepared the necessary and relevant information on the UHI phenomenon and analyze the interactions between UHI and climate change.

Summary **description** and approach (including the contribution to the project main objectives)

WP3 will prepare necessary and relevant information on UHI phenomenon.Info about origin, bio-climatic factors affecting its intensity and possible impact of climate change will be conveyed to the stakeholders of participating cities and of PPs.WP3 will consider 2main scientific aspects: the characteristics of UHI phenomenon both in terms of causes and effects on environment and population, and its relationships with climate change trends.Moreover, activities will be focused on CE area,including an analysis of already existent UHIs, as well as a study of those situations that could constitute a potential for an increase of UHIs.Additionally a list of existing rules and legislation toward UHI phenomenon in CE regions will be prepared.Actions are: Act.3.1.State of the art:analysis focused on anthropogenic causes that generate the UHI phenomenon and the survey techniques used to study it. Analysis will be set up considering

1)technical&scientific issues and 2)urban planning and land use regulation. 1.a reviewing knowledge,(causes and related factors: anthropogenic causes that generate UHI phenomenon i.e. peculiar urban and building characteristics, particular industrial activities, etc.; the patterning of UHI phenomenon; the measures adopted to fight the intensification of UHI; the survey techniques used to study the phenomenon) and 1.b scheduling of existing infrastructures to meteorological and environment data assessment in different project areas.
2.a. review of different rules and regulation set up by involved local government (reviewing of the local main rules and regulations to plan the urban development and the land use; incentives and regulatory actions in support of environmental restoration, energy conservation and to fight climate change put in act from the different local authorities), 2.b. review of the main European legislation concerning urban and spatial

planning and concerned issues. Act.3.2.UHI vs Climate Change: it aims to studying the interaction between UHI and climate change phenomena as well as understanding the influences and correlations between them. In particular, there will be set up indicators establishing relations among urban planning and human activities (main causes of UHI) with climate change trends, estimated on the basis of temperature shifting and other parameters. Regional climate model simulations are able to provide an estimation of the future climate conditions (temperature, humidity, precipitation, wind speed, cloud cover, etc.) which may serve as outer conditions for the assessment of UHI phenomenon in the CE cities. The simulations can be made with WRF, e.g., for a time slice of 10 years and statistical output on means and standard deviations of the meteorological variables can be supplied. Regional climate model uses available boundary conditions provided by existing global climate model.

Textbox 283 you have 2884 characters (max. 3.000 characters)

Links to other work packages

The forecasted actions represent the basis for the ones developed in the WP 4, WP5 and WP6, and will be implemented in the framework of the TN (WP4)

Textbox 284 you have 148 characters (max. 150 characters)

Responsible partner	PP5: Karlsruhe Institute of Technology																							
Involved partners	LP	☒	PP2	☒	PP3	☒	PP4	☒	PP5	☒	PP6	☒	PP7	☒	PP8	☒	PP9							
	PP10	☒	PP11	☒	PP12	☒	PP13	☒	PP14	☒	PP15	☒	PP16	☒	PP17	☒								
	PP18	☒	PP19		PP20		PP21		PP22		PP23		PP24		PP25									

	Title of action	Start month of Action	End month of Action	Total costs of Action
3.1.	State of the art	2	7	328.688,76 €
3.2.	UHI vs CLIMATE CHANGE	6	20	242.359,00 €
3.3.				
			Total costs of the work package	571.047,76 €

Outputs

In case you choose an Output as Core Output, please fill in the description in the Core Output Table below the Output table.

		Title of output (max. 75 characters)	Month of av.	Is a Core Out.?	Qualitative description (max. 250 characters)	Quantitative desc. (max. 75 characters)
	3.1.1	drafting of UHI knowledge review	5	☒	UHI knowledge review report focusing on the CE region, considering its origin, bio-climatic factors that affect its intensity and the possible impact of climate change will be conveyed to the stakeholders and the project partners drafted by all PPs.	1 review
	3.1.2	Urban planning rules review	5	☐	List of the local and European Urban Planning rules focusing the UHI related aspects and the incentive and regulatory actions put in act to support of environmental restoration, energy conservation and to fight climate change .	1 transnational review + 1 local review per each country

3.1.	3.1.3	1st Transnational Scientific Board (TSB) mtg	2	☐	2-days-meeting to coordinate the implementation of activities foreseen in WP3 (first day dedicated to project technical issues and second day to project administrative, financial and performance evaluation within SC).In coincidence with 2nd SC mtg	1 meeting in Stuttgart
	3.1.4	Collection of most relevant experiences on UHI	7	☐	Best practices collection, examples of interventions to fight the UHI phenomenon or to prevent the health impact of the climate change (heat weavs....) in the different involved regions. The activities will be developed in the framework of TN	1 review containing the output from CE 7 countries
	3.1.5					
3.2.	3.2.1	Forecasting model	18	☐	10 year-time-slice simulation of regional climate factors influencing the UHI for a period of about 50 years ahead (e.g., 2060 – 2070) with an existing numerical regional climate model developed by PP5 as WP leader supported by technical PPs	1 forecasting model
	3.2.2	Report on UHI vs climate change	20	☒	Review focused on the correlations between UHI and climate changes. They will be set up indicators that establish relations among urban planning and human activities with climate change trends, implemented by PP5 supported by technical PPs	1 report
	3.2.3					

Core Outputs

Please describe the core outputs by specifying the major activities and their envisaged **results;** also outline the **target groups**, and the **process how the results are used** by these target groups (max. of 2x1000 characters)

		Title of Core Output	Core Output description
3.1.	3.1.1	drafting of UHI knowledge review	The aim is to investigate the state of the art of the UHI phenomenon, the current degree of awareness of the citizens, as well as the aptitude of the policy maker to face the problem. The analysis will be carried out at regional level, according to a common and shared transnational methodology. RPs The analysis will focus on the anthropogenic causes that generate the UHI phenomenon (peculiar urban and building characteristics, particular industrial activities, etc.) and the survey techniques used to study it. The issues focalized will be of twofold orders: technical/scientific and normative concerning the urban planning. The technical and scientific analysis will be aimed at gathering knowledge on the main causes and related factors of the phenomenon as the anthropogenic causes that generate the UHI (peculiar urban and building characteristics, particular industrial activities, etc.); or the patterning of UHI phenomenon; the measures adopted to fight the intensification of UHI in the CE area and beyond; the survey techniques used to study the phenomenon comprising the scheduling of the existing infrastructure to the meteorological and environment data assessment in the different project areas.The development of the technical and scientific analysis will be implemented in the framework of the TN by the all technical PPs The reviewing analysis of the urban planning and land use regulation will be implemented lightening the different rules and regulation set up by the local governments considering the aspect related to urban planning, building and the land use regulations and the compliances with the acquis communaitaire; the incentives and regulatory actions in support of environmental restoration, energy conservation and to fight climate change put in act from the different local authorities.The development of the normative analysis will be implemented in the framework of the TN by the all
3.2.	3.2.2	Report on UHI vs climate change	To the extent that it has been possible produce realistic climate simulations that can be powerful tools in the study of regional climate impacts focusing mainly on the UHI Phenomenon. The matching of the two aspects needs to be deeply analyzed to fully understand the interaction between UHI and climate change as well as at facing the influences and correlations between them. In particular, they will be set up indicators that establish relations among urban planning and human activities (that are the main causes of UHI) with climate change trends, estimated on the basis of temperature shifting and other parameters. During the last decade regional climate models (RCMs) have been increasingly used to examine climate variations at scales that are not resolved by global models.The analysis of the regional climate model simulations will be able to give an estimation of the future climate conditions (temperature, humidity, precipitation, wind speed, cloud cover, etc.) which may serve as outer conditions for the assessment of the UHI phenomenon in the cities of CE. The simulations can be made with for a time slice of 10 years and statistical output on means and standard deviations of the meteorological variables can be supplied. The regional climate model will allow to define a forecasting of the development of the UHI in the next years allowing a better understanding and evaluation of the following countermeasures to be taken.The report will analyze two main aspect: the macro scenarios of the climatologically evolution of the CE areas and the microclimatic interferences on the different metropolitan areas facing a real climate change impact and vulnerability assessments.The report will be developed by the PP 5 as WP leader in the supported by the technical PPs.

Activities outside Central Europe area, but within EU:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned

Activities in Third Countries:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned outside CE Programme area

Indicate the planned ERDF for these activities:

Amount:	0,00 €

Work package 4

Work package name:	Transnational Network and UHI assessment's tools

Work package level

Strategic focus/main objectives	Setting up a permanent Transnational Network (TN) among experts and institutions; define a common and shared methodology to investigate the UHI phenomenon and compare the characteristics of the different areas; structuring a virtual UHI database.

Summary **description** and approach (including the contribution to the project main objectives)

Act.4.1.Transnational network:WP4 define project framework and methodology.To this goals, it will be set up a permanent Transnational Network (TN) among experts scientific and institutional involved. TN role is to improve and support system on technical, scientific and institutional aspects linked to UHI. TN includes 6 Technical Working Groups on different concerned fields, in order to establish collaborations with research institution, assessment authorities and policy makers.TN will: monitor UHI in CE area;develop of shared&coordinated strategies in urban planning and land using.This actions will be developed by multidisciplinary and cross-sectoral approach to UHI issue thorough 2main tools: Transnational Focus Groups that will meet during and will be part of the TSB developing thematic issues concerning the UHIs.The TFGs are conceived to manage the knowledge flow between partners and stakeholders share competence and knowledge on thematic issues, and Local Working Groups.

Activities include organization and start up of TN, in view of its permanent character after project end.Act.4.2.methodology and areas definition: definition of sensible indicators, sampling procedures, and analysis tools are fundamental issues that need to be shared for a common methodology and compare different characteristics of urban areas.an assessment manual collecting the operative procedures for data sampling, accessing and processing will be developed.A gold standard in assessment of UHIs and in the respective data sampling, accessing and processing will be defined. Cities not having a monitoring network suitable for monitoring UHI should take gold standard as a prototype when creating a new monitoring system.Cities with existing monitoring systems will be asked to adapt their systems to this gold standard,to allow a better coverage of phenomenon and to enhance the comparability between different cities.

Act.4.3. CE UHIs web database and Atlas: shared web database will be implemented thorough input from existing local partners/institutions in charge to monitor the specific situation.Here, the measurements and data will be obtained and analyzed in order to describe precisely the intensity of phenomenon and its characteristics.Where possible direct survey will be conducted by applying both traditional urban biometeorology techniques and remote sensing techniques that allow to collect may data and information about the micro-macro meteorological conditions..CE Atlas implementation foresees digitalization and geo-referencing of data collected. Creation of a GIS based data processing tool, where all information about detected UHIs of CE area where loaded and put in relation with meteorological and climatic data and trends as well as to spatial planning information.

Textbox 285 you have 2789 characters (max. 3.000 characters)

Links to other work packages

The TN, the methodology and the database will allow to develop analysis and survey of WP3, WP5 and implement the pilot actions (Wp6)

Textbox 286 you have 132 characters (max. 150 characters)

Responsible partner	PP13: Hungarian Meteorological Service

Involved partners	LP	☒	PP2	☒	PP3	☒	PP4	☒	PP5	☒	PP6	☒	PP7	☒	PP8	☒	PP9	
			PP10	☒	PP11	☒	PP12	☒	PP13	☒	PP14	☒	PP15	☒	PP16	☒	PP17	☒
			PP18	☒	PP19		PP20		PP21		PP22		PP23		PP24		PP25	

	Title of action	Start month of Action	End month of Action	Total costs of Action
4.1.	Transnational network	2	39	187.957,54 €
4.2.	Methodology and area definition	5	22	98.203,98 €
4.3.	Central Europe UHIs web database and Atlas	14	22	137.048,79 €
4.4.				
			Total costs of the work package	423.210,31 €

Outputs

In case you choose an Output as Core Output, please fill in the description in the Core Output Table below the Output table.

		Title of output (max. 75 characters)	Month of av.	is a Core Out.?	Qualitative description (max. 250 characters)	Quantitative desc. (max. 75 characters)
4.1.	4.1.1	Transnational Scientific Board (TSB)	3	☐	TFG will meet during and will be part of the TSB developing thematic issues concerning the UHIs. The TFGs concerning the main scientific issues are conceived to manage the knowledge flow between partners and stakeholders	5TSB meetings,4 reports onTFG issues+1 start up of post project activities
	4.1.2	Local Working Groups	39	☐	Local Working Groups (at least 7, 1 for each Nation involved) composed by national partners and local stakeholders to apply the technical competences and facilitate the pilot actions developed in the different metropolitan areas as forecasted in WP6.	7 LWG,7 Reports of activities developed in LWG
	4.1.3			☐		
4.2.	4.2.1	Preliminary recognition action	10	☐	Sharing data and monitoring systems of PPs, to assess UHI phenomenon	1 report
	4.2.2	UHI assessment manual	12	☐	Common methodology for data collection (incl. areas selection and data collection plans' model) and procedure's definition for the assessment of the UHI and the data sampling. Activities developed by PP13 as WP leader supported by technical PPs.	1 manual collecting the operative procedures
	4.2.3	Gold standard for an UHI evaluation	22	☒	Gold standard in the assessment of the UHIs and in data sampling, accessing and processing will be defined. Defining the best practices and the optimal structure to monitorate the Urban microclimate. Cities should take this standard as a prototype.	1 Gold standard definition
	4.2.4	2nd Transnational Scientific Board (TSB) mtg	10	☐	2-days-meeting to coordinate the implementation of activities foreseen in WP4 (first day dedicated to project technical issues and second day to project administrative, financial and performance evaluation within SC). In coincidence with 3rd SC mtg	1 meeting in Budapest
	4.2.5					
4.3.	4.3.1	Data collection for web data base	16	☐	On the basis of previous 4.2.1 methodology, collection of inputs from the existing local partners/institutions	1 data collection
	4.3.2	Web data base methodology	19	☐	Definition of a web data base methodology (from both point of view, implementation and management)	1 report on methodology
	4.3.3	WEB database	20	☒	A shared web database will be implemented thorough input from the existing local partners/institutions in charge to monitor the specific local situation.. Developed by PP13 as WP leader supported by technical PPs.	1 web database 1 operative manual with the operative procedure
	4.3.4	Central Europe UHIs Atlas	22	☐	Geo-referencing of data and creation of a GIS based data processing tool, where all information about detected UHIs of the Central Europe area where loaded and put in relation with meteo-climatic data and trends as well as to spatial planning	1 CE UHIs atlas describing 8 metropolitan areas
	4.3.5					

Core Outputs

Please describe the core outputs by specifying the major activities and their envisaged **results;** also outline the **target groups**, and the **process how the results are used** by these target groups (max. of 2x1000 characters).

	Title of Core Output	**Core Output description**

4.2.	4.2.3	Gold standard for an UHI evaluation	The main goal of this activity will be the improvement of the knowledge about the UHI phenomenon also in order to optimize the mitigation and adaptation strategies, by focusing on critical points and on needs of the specific urban areas. At this aim, it is foreseen the development and application of a shared and common methodology able to allow the institutions, the research bodies and the other stakeholder to evaluate and compare different situations. On the basis of the methodology described in the assessment manual it will be developed the Gold standard which aim consists of identifying also sampling infrastructures to be developed in the singles urban areas. In specific it will be a reference system enabling cities, not having a monitoring network, for monitoring UHI to take the UHI gold standard as a prototype when creating a new monitoring system. Cities with existing monitoring systems will be asked to adapt their systems to this gold standard, to allow a better coverage of phenomenon and to enhance the comparability between different cities. The Gold Standard will be developed by the LP in close cooperation with the PP13, which is also the WP4 leader, for the benefit of all PPs.
4.3.	4.3.3	WEB database	Cities&regions in CE and beyond are facing exposure to high levels of air pollution and the emerging impacts of climate change, which have detrimental effects on their citizens and their economy.EU has taken many initiatives in this and is supporting local and regional authorities in their actions to mitigate air pollution and climate change and to provide updated and comparable information to their citizens.Designing, implementing and monitoring mitigation measures is a tremendous challenge for policy makers and authorities,as is the need to raise public awareness.A wealth of knowledge and best-practices is available for cities and regions,which offers ample opportunities for collaboration.The main and fundamental step to reach this goal would be implementation of a shared web database. In framework of UHI will be implemented a virtual database thorough input from the existing local partners/institutions in charge to monitor the specific situation.In those areas measurements and data will be obtained and analyzed in order to describe precisely the intensity of the phenomenon and its characteristics.Where possible direct survey will be conducted by applying both traditional urban biometeorology techniques and remote sensing techniques that allow to collect may data and information about the micro and macro meteorological conditions of CE area and especially its town and urban conglomerations.1 of the main outputs of the web data base will be the CE Atlas implementation, foresees the digitalization and the geo-referencing of data collected. In particular, activities will concern the creation of a GIS based data processing tool, where all information about detected UHIs of CE area where loaded and put in relation with meteorological and climatic data and trends as well as to spatial planning information.

Activities outside Central Europe area, but within EU:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned

Activities in Third Countries:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned outside CE Programme area

Indicate the planned ERDF for these activities:

Amount:	0,00 €

Work package 5

Work package name:	Mitigation and adaptation strategies

Work package level

Strategic focus/main objectives	Starting from scientific and institutional framework and from assessment tools provided by previous WPs 3, 4,WP5 focuses on approaches to models for long-terms mitigation strategies and short-medium-term adaptation strategies to encounter UHI

Summary **description** and approach (including the contribution to the project main objectives)

WP deals with three specific questions:Given the results of WPs 3 and 4, what are the common and differential features of the UHI that effect the regions studied? What set of mitigation and adaptation measures and options should be considered as potentially effective and subjected to detailed modeling studies?How could "top-down" (low-resolution) meteorological prediction models and bottom-up (high-resolution) building models be combined to provide a environment modeling for parametric study of the aforementioned mitigation and adaptation measures and strategies?Having identified a coupled top-down and bottom-up UHI modeling environment, what would be the outcome and implications (recommendations, guidelines) of the parametric modelling studies of alternative mitigation and adaptation measures?Act.5.1.Extent of UHI effects and corresponding potential Mitigation and Adaptation (M&A) measures: Within the framework of this action, the common and differential features of UHI

effects in the selected regions will be identified by the corresponding partners.A set of candidate (potentially effective) M&A measures will be collect and review by the interdisciplinary and transnational research team. Thereby, the mitigation strategies will provide the definition and application of urban& spatial-planning approaches (e.g. widening of green areas and rows,spread distribution of populated areas preferring short buildings surrounded by gardens, canyon effect) that prevent UHIs emergences.Likewise,relevant construction parameters for buildings (e.g. surfaces characteristics of external building components) will be considered.As to adaptation strategies, the phenomenon of summer bioclimatic discomfort will be addressed by setting up warning and prevention systems.Act.5.2.Establishment of an effective UHI modeling environment:The purpose of action is establish a coupled "top-down" (meteorological) and bottom-up (built environment) computational modeling environment.

Thereby, low-resolution (large-grid) meteorological models provide data on large-scale UHI effects.This data is subsequently translated into boundary conditions for medium-small scale thermal modeling tools of the built environment.Toward this end,the potential of transfer functions will be explored, that derive from weather-station data, high-resolution micro-climatic conditions at immediate proximity of built structures.
Act.5.3.Definition of mitigation and adaptation strategies:Given the above coupled modeling environment, the relative performance (predicted degree of success) for various alternative M&A strategies and measures could be examined and numerically described. A set of strategies are formulated to be applied at national and transnational scales to address the UHI phenomena. Such M&A measures portfolio will include specific urban & spatial planning guidelines as well as risk management recommendations

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Links to other work packages

The WP5 will match the meteo-climatic knowledge (WP3-4) with the urban planning with the aim to produce suitable responses for the policy maker (WP6)

Textbox 288 you have 149 characters (max. 150 characters)

Responsible partner	PP11: Vienna University of Technology - Department of Building Physics and Building Ecology - In																							
Involved partners	LP	☒	PP2	☒	PP3	☒	PP4	☒	PP5	☒	PP6	☒	PP7	☒	PP8	☒	PP9							
	PP10	☒	PP11	☒	PP12	☒	PP13	☒	PP14	☒	PP15	☒	PP16	☒	PP17	☒								
	PP18	☒	PP19		PP20		PP21		PP22		PP23		PP24		PP25									

	Title of action	Start month of Action	End month of Action	Total costs of Action
5.1.	Extent of UHI effects and corresponding potential M&A measures	11	16	227.091,74 €
5.2.	Establishment of an effective UHI modelling environment	16	36	185.580,00 €
5.3.	Definition of mitigation and adaptation strategies	23	39	482.098,86 €
5.4.				
		Total costs of the work package		894.770,60 €

Outputs

In case you choose an Output as Core Output, please fill in the description in the Core Output Table below the Output table.

		Title of output (max. 75 characters)	Month of av.	is a Core Out.?	Qualitative description (max. 250 characters)	Quantitative desc. (max. 75 characters)
1.	5.1.1	Description of the different Urban areas	16	☐	Documentation of the common and differential features of the UHI effects in the selected regions in Central Europe UHIs, with the aim to identify the lack and criticities in term of urban planning or building structuring	1 report describing a set of metropolitan areas in UE region (n. 8)
	5.1.2	Catalogue of M&A strategies	16	☐	Definition of catalogue of potentially effective candidate M&A measures& strategies for further elaboration. The catalogue will consider the previous documented differential features to determine different potential M&A strategies	1 catalog reporting; at least one for each metropolitan areas (8 M&A plans)

5.	5.1.3	3rd Transnational Scientific Board (TSB) mtg	16	☐	2-days-meeting to coordinate the implementation of activities foreseen in WP5-1st part (1st day dedicated to technical issues and second day to administrative, financial and performance evaluation within SC).In coincidence with 4th SC mtg	1 meeting in Lodz/Warsaw
	5.1.4					
5.2.	5.2.1	Preliminary analysis for the UHI modelling	20	☐	Identification of the meteorological and of the building environmental inputs variables	1 review
	5.2.2	UHI modelling	36	☒	A coupled meteorological and built environment computational modeling environment will be establish. Low-resolution meteorological models provide data on large-scale UHI effects for the assessment of the effectiveness of M&A measures	1 environment computational model
	5.2.3	4th Transnational Scientific Board (TSB) mtg	22	☐	2-days-meeting to coordinate the implementation of activities foreseen in WP5-2nd part (1st day dedicated to technical issues and second day to administrative, financial and performance evaluation within SC).In coincidence with 5th SC mtg	1 meeting in Prague
	5.2.4					
5.3.	5.3.1	Prelim. study for definition of Urban Areas & spatial planning strategy	36	☐	Identification of the geographical urban areas concerned and definition of M&A strategies to be tested	1 recognition
	5.3.2	Transnational strategy for Urban Areas & spatial planning	39	☒	Parametric modelling for Urban Areas planning. Given the above coupled modelling environment, the relative performance (predicted degree of success) for various alternative M&A strategies and measures could be examined and numerically described	1 urban planning strategy
	5.3.3	Mitigation: Area specific portfolio	39	☐	Documentation of the portfolio of mitigation strategies. In each single urban area will be defined a specific portfolio of mitigation actions as guide line and policy support manual for local administration policies. As result of the pilot actions	1 portfolio of mitigation strategies for each area (n. 8)
	5.3.4	Adaptation: area specific portfolio	39	☐	Documentation of the common portfolio of adaptation strategies for the target regions. This output would be the basis of the pilot actions	1 portfolio of mitigation strategies for each area (n. 8)
	5.3.5					

Core Outputs

Please describe the core outputs by specifying the major activities and their envisaged **results;** also outline the **target groups**, and the **process how the results are used** by these target groups (max. of 2x1000 characters)

		Title of Core Output	**Core Output description**
5.2.	5.2.2	UHI modelling	It defines a simulating model with the purpose to imitate different UHI scenarios related to a variety of urban settlements. The model should reproduce UHI trends in future developments areas as well in already build environments. The possibility of testing the model in a variety of settlement typologies and also the modification of its variables (land cover, building and opens space shapes, ecc) will help to collect information and develop the mitigation and adaptation strategies. This data are subsequently translated into the boundary conditions for medium-scale and small-scale thermal modeling tools of the built environment.
3.	3.2	Transnational strategy for Urban Areas & spatial planning	Considering UHI effect on urban environment,anticipatory strategies for adapting urban structures in a way that impacts of a changing climate will not endanger urban living environment are fundamental.Adequate action plans will be developed in each city/region and priority measures will be implemented in small-scale investments.Focus is laid on existing urban&planning structures even if the main action addressed to counteract the UHI phenomenon should be the implementation of urban plans based on specific parameters and scientific data.Given the above coupled modeling environment, the relative performance (predicted degree of success) for various alternative M&A strategies and measures could be examined and numerically described. The project's partners will cooperate to develop, apply and improve assessment criteria for climate proof cities. All data, strategies, action plans and pilot actions developed by the project will be addressed to PPs

5.	5.		local Institutions (PP2, PP3, PP6, PP12,PP13, PP15, PP18) and also to other public authorities involved in the urban planning; they will take them into account when implementing their land use and urban planning regulations; the aim is to provide tools and data to implement innovative strategies of sustainable urban development. This output/ transnational strategy will constitute the project main result, aimed at reducing the impact of UHI phenomenon which will include concrete adaptation measures.

Activities outside Central Europe area, but within EU:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned

Activities in Third Countries:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned outside CE Programme area

Indicate the planned ERDF for these activities:

Amount:	0,00 €

Work package 6

Work package name:	Pilot and capitalization actions for limiting UHIs effects

Work package level

Strategic focus/main objectives	Development of pilot actions in at least 8 urban areas to apply M&A strategies analyzed in previous WP; progressive integration of M&A strategies in urban planning tools to facilitate implementation of a new approach on territorial planning.

Summary **description** and approach (including the contribution to the project main objectives)

The main activity within WP6 will be the UHIs simulation of future alternative scenarios related to the development of the selected urban areas.
In addition, WP6 is intended to implement, at regional level, the strategies defined within the previous activities. In particular, it is foreseen a progressive integration of mitigation and adaptation strategies in current urban planning tools. The WP is addressed to the definition and realization of a set of support actions for fostering the implementation of urban & spatial planning strategies in each involved region. Act. 6.1 - Decision support system
The possible implementation of a decision support system (DSS) will be analyze and assessed. The tool would be used as analyzer of the interaction between causes and effects in the development of the urban spaces.

The aim is to implement a decision tool able to cross different variables and produces urban policies strictly correlated with the mitigation and adaptation strategies. It is supposed to serve as an independently applicable and stakeholder based instrument for the implementation of measures for climate change and climate proofing for the municipal/ urban development. It is aiming at supporting local decision making processes about municipal urban heat island measures. The mesoscale model used in action 5.1 will be enclose in the decision support system.

Act. 6.2 - Urban plans feasibility studies

Concerning the urban area development, different feasibility studies will be implemented. The feasibility studies will evaluate how a city's space could be developed taking in full consideration the adaptation and mitigation strategies defined in the previous WP. The output of the feasibility studies will address a potential set of interventions as: urban plan of a new area development, prevention plan to reduce the hazard related to the head spikes or development of urban planning rules to mitigate the UHI phenomenon. These feasibility studies will be accompanied by measurements of meteorological (e.g., diurnal variation of temperature, mixing-layer height) and air-quality parameters (e.g., pollutant concentrations in the city centre) in order to evaluate the predictions of the decision support system.

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Links to other work packages

WP6 is intended to implement at local level strategies set up in previous WP. At least 8 feasibility studies on the M&A strategies developed.

Textbox 290 you have 141 characters (max. 150 characters)

Responsible partner	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional Section																							
Involved partners	LP	☒	PP2	☒	PP3	☒	PP4	☒	PP5	☒	PP6	☒	PP7	☒	PP8	☒	PP9							
			PP10	☒	PP11	☒	PP12	☒	PP13	☒	PP14	☒	PP15	☒	PP16	☒	PP17	☒						
			PP18	☒	PP19		PP20		PP21		PP22		PP23		PP24		PP25							

	Title of action	Start month of Action	End month of Action	Total costs of Action
6.1.	Analysis of the experiences on a DSS and setup of the system	11	36	118.194,67 €
6.2.	Urban planning feasibility studies	18	39	901.083,95 €
6.3.				
			Total costs of the work package	1.019.278,62 €

Outputs

In case you choose an Output as Core Output, please fill in the description in the Core Output Table below the Output table.

		Title of output (max. 75 characters)	Month of av.	is a Core Out.?	Qualitative description (max. 250 characters)	Quantitative desc. (max. 75 characters)
6.1.	6.1.1	Preliminary phase for the Decision support system (DSS)	34	☐	Identification of the inputs variables and definition of the model of interaction among variables to be analyzed for the DSS construction	1 preliminary report
	6.1.2	Decision support system (DSS)	36	☒	DSS definition and implementation. It is an interactive software-based working as driver to support policy decision-making activities. DSS designed and implemented by PP2	1 DSS
	6.1.3					
6.2.	6.2.1	5th Transnational Scientific Board (TSB) mtg	30	☐	2-days-meeting to coordinate the implementation of activities foreseen in WP6 (first day dedicated to project technical issues and second day to project administrative, financial and performance evaluation within SC). In coincidence with 6th SC mtg	1 meeting in Venice
	6.2.2	Pilot action: mitigation UHI effects	39	☒	Urban plan of a new area development, macro-scale strategies for spatial redevelopment, prevention plan to reduce the hazard related to the head spikes and development of urban planning rules to mitigate the UHI phenomenon	n.8 feasibility studies (one each area)
	6.2.3	Pilot actions: adaptation UHI effects	39	☐	Small scale interventions for the improvement of the citizens well-being, also through awareness and training-informative tools for the prevention of UHI negative effects (training tools, poster designing, ecc..)	n. 8 pilot actions (one each area)
	6.2.4					

Core Outputs

Please describe the core outputs by specifying the major activities and their envisaged **results;** also outline the **target groups**, and the **process how the results are used** by these target groups (max. of 2x1000 characters).

	Title of Core Output	**Core Output description**

6.1.	6.1.2	Decision support system (DSS)	Analysis of the possible implementation of a decision support system (DSS) that is a driver to support policy decision-making activities. To manage the urban development it is compulsory to management a multitude of purposes and address many different goals, often conflicting, to satisfy the needs of different stakeholders. This poses considerable challenges to policy makers and urban planner. The need for enhanced urban plan decision support systems (DSSs) is evident in the same complexity of the UHI phenomenon. A properly designed DSS is an interactive software-based system intended to help decision makers compile useful information from a combination of raw data, documents, personal knowledge, or policy models to identify and solve problems and make decisions. Typical information that a decision support application might gather and present would be the interaction between causes and effects in the development of the urban spaces. Urban Planning DSSs allow the policy maker to use advanced decision support tools, such as expert and knowledge based systems, multi-criteria techniques as well as communication and visualization tools. The DSS, based on a web-database, will be available online, integrating graphic illustrations of best practices and concrete measures.
6.2.	6.2.2	Pilot action: mitigation UHI effects	Different feasibility studies concerning development of (1) urban area or (2) MEGAs (Mega Urban Regions) will be implemented.Feasibility studies will evaluate how a city's district or a wider region (e.g. the cities' clusters like in Italian case) could be developed taking in full consideration the adaptation and mitigation strategies defined in the previous WP.In particular, considering the morphology of the EU urban areas, characterized by old towns, often subject to historical and architectural constraints, pilot actions will focus in testing mitigation strategies addressing the specific needs of old towns, for which this kind of interventions have not been developed yet.According to this frame,1of the aspect that will be investigated is adoption of energy-efficiency and energy-saving approaches, also through support to green economy initiatives,a good alternative for the management of UHI in old towns.Output of the feasibility studies, according to its scale of application (urban, regional, interregional) will address:(1)a urban plan of a new area development(2)macro-scale strategies for spatial redevelopment(3)prevention plan to reduce the hazard related to the head spikes (4)development of urban planning rules to mitigate the UHI phenomenon.These feasibility studies will be accompanied by measurements of meteorological and air-quality parameters to evaluate the predictions from the DSS.As examples it is possible to consider that the Veneto Region will develop its pilot action in the area of Marghera (Venice).This portion of Venice industrial settlement is recently going through a process of urban redevelopment and could become an ideal site to test and implement strategies and actions of UHI mitigation.A pilot actions' review(WP6),in the field of mitigation and adaptation, fundamental for the definition of the portfolios foreseen in WP5,will constitute important contribution to the transnational debate on the UHI theme and and climatic changes.

Activities outside Central Europe area, but within EU:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned

Activities in Third Countries:
please describe the activities and the planned benefits for the Central Europe area.

No activities planned outside CE Programme area

Indicate the planned ERDF for these activities:

Amount:	0,00 €

Section 4: Project Partners

Lead Applicant information

Contact details

Institution (original language, official name)	Agenzia Regionale per la Prevenzione e l'Ambiente dell'Emilia-Romagna		
Institution (official English translation)	Regional Agency for Environmental Protection in Emilia-Romagna		
Address of the legal seat	Via Po, 5		
Postal code	40139		
Town	Bologna		
Country	Italia		
Region (NUTS1)	NORD-EST		
Region (NUTS2)	Emilia-Romagna		
Region (NUTS3)	Bologna		
Website	ww.arpa.emr.it		
Contact person (Firstname, Surname)	Mr	Paolo	Lauriola
E-mail	plauriola@arpa.emr.it		
Phone (office)	+39 059 433631		
Phone (mobile)			
Fax	+39 059 4226462		
Legal representative / LP signatory (First-, Surname)	Mr	Franco	Zinoni
Function	Technical Director		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	Regional
Thematic field of activities	Environment
Functional Type of partner	Public sector / administration

Previous experience in managing cooperation projects (e.g. transnational, inter-regional, RTD,..)

The previous experience concerned TRANSITION FACILITY - Twinning Programme (as LP),V RTD-FP, LIFE and INTERREG IV C programme. ARPA has also been involved in projects funded by different regional and national programmes (ex.Programma di Azione Locale di Lotta alla siccità e alla desertificazione).

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Competences, capacity and know how of the partner to implement the result of the project.

ARPA stands for Regional Agency for Environmental Protection in Emilia-Romagna.It is an environmental control technical support body to the regional and local authorities and is administratively and technically independent.Activities deal with monitoring and control related with all types of chemical, biological and physical pollution in all environmental media.ARPA has also various areas which deal with activities related to urban meteorology, climate change and the relationship between environment and health and it has also been supporting regional and local authorities in territorial planning.ARPA includes technical departments,both directly involved in UHI. a) Reg. Meteor. Service, responsible for operational meteorological,climatic,agrometeorological,radar-meteorological,hydrographical,hydrologic and meteo-environmental activities, providing short and medium-term regional forecasts and local nowcasting products. It also provides agrometeorological products and information.

It operates as integrated regional hydro-meteorological gauging network.It is Regional Centre of the national information system in support of Italian Civil Protection and also National Competence Centre for Numerical Weather Prediction,a monitoring network that provides climatic information regarding the entire regional territory.This network is important for planning and management of territory and for environmental control.b) Reg. Center for Envir. and Health is responsible for strategies and plans aimed at activating and/or supporting programmes and initiatives for gathering information on effects of environmental factors on human health to develop the potential of the environmental and health prevention network through joint planning of interventions and integration between the Arpa network and public health structures.
As regard WP6, it will participate in the realization of the pilot actions for the practical integration of adaptation strategies on risk management instruments

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Contribution of the partner to the project

From the technical side, ARPA will also contribute as technical partner to the creation of the common knowledge on UHI phenomenon together with the study of its future effects due to climate change.

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Benefit of the partner from the project

TN inside the Project will be of great importance in dealing with UHIs. Exchange of knowledge and experiences with technical and institutional partners will enhance ARPA expertise in the topic.

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Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	337.560,00 €
	Public co-financing	112.520,00 €
	Total Budget	450.080,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €

Rate of ERDF co-financing	75,00%

Project Partner information: PP2

Contact details

Institution (original language, official name)	Regione Emilia Romagna. Direzione Generale Programmazione territoriale e negoziata, intese.		
Institution (official English translation)	Emilia Romagna Region. General Directorate Territorial and negotiated planning, agreements.		
Address	Viale Aldo Moro, 30		
Postal code	40127		
Town	Bologna		
Country	Italia		
Region (NUTS1)	NORD-EST		
Region (NUTS2)	Emilia-Romagna		
Region (NUTS3)	Bologna		
Website	www.regione.emilia-romagna.it		
Contact person (Firstname, Surname)	Ms	Graziella	Guaragno
E-mail	gguaragno@regione.emilia-romagna.it		
Phone (office)	+39 051 527 6937		
Phone (mobile)			
Fax	+39 051 527 6072		
Legal representative (Firstname, Surname)	Mr	Enrico	Cocchi
Function	General Director		

Institution profile

Legal status	Public authority
Geographic level of activities	Regional
Thematic field of activities	Others
Functional Type of partner	Public sector / administration

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

The Emilia Romagna Region has participated in the following EU cooperation projects: as LP in RePUS - INTERREG IIIB CADSES - 2005/2007 - LP (www.repus.it), as partner in ESTIA-SPOSE- INTERREG IIIB CADSES - 2004/2006 (www.uehr.panteion.gr/estia-spose/) and in PlaNet CenSE- INTERREG IIIB CADSES - 2003/2007 (www.planet-cense.net/); POLYMETREX and INTERMETREX project (INTERREG IIIC, info at: www.eurometrex.org)

Textbox 295 you have 453 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

The department involved in the project is responsible for the regional territorial planning. With this goal, it elaborates guidelines and laws in the field of territorial planning. As in Italy the territorial planning is in power of the Regions, Provinces and Municipalities have to comply with the rules fixed by the Region in this field.
In the last years the urban heat islands phenomenon became very frequent causing health risks especially for aged population. The Region introduced measures to face these problems, but there aren't yet indications concerning the spatial planning.

WP6: responsible for the design & development of DSS; regarding pilot actions, it will be mainly involved in developing a feasibility study concerning Bologna/Modena area for integration of mitigation strategies on territorial planning instruments

Textbox 296 you have 835 characters (max. 2.000 characters)

Contribution of the partner to the project

The Region will contribute providing data and coordinating the activities in the involved territories. Additionally, it is leader of WP2

Textbox 297 you have 136 characters (max. 200 characters)

Benefit of the partner from the project

The Region will receve benefit from indications, tools and guidelines concerning climate change in urban areas.

Textbox 298 you have 111 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	186.585,00 €
	Public co-financing	62.195,00 €
	Total Budget	248.780,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		75,00%

Project Partner information: PP3

Contact details

Institution (original language, official name)	Regione del Veneto - Sezione Pianificazione Territoriale, Strategia e Cartografia		
Institution (official English translation)	Veneto Region - Territorial Planning, Strategic and Cartography regional Section		
Address	Palazzo Linetti, Cannaregio 99		
Postal code	30121		
Town	Venice		
Country	Italia		
Region (NUTS1)	NORD-EST		
Region (NUTS2)	Veneto		
Region (NUTS3)	Venezia		
Website	www.regione.veneto.it		
Contact person (Firstname, Surname)	Mr	Alberto	Miotto
E-mail	alberto.miotto@regione.veneto.it		
Phone (office)	0039 0412792090		
Phone (mobile)			
Fax	0039 0412792096		
Legal representative (Firstname, Surname)	Mr	Maurizio	De Gennaro
Function	Head of the Section		

Institution profile

Legal status	Public authority
Geographic level of activities	Regional
Thematic field of activities	Others
Functional Type of partner	Public sector / administration

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

"Common best practices in spatial planning for the promotion of polycentric spatial planning – POLY.DEV" (INTERREG IIIB CADSES, lead partner), "InterMETREX" (INTERREG IIIC), "PolyMETREX - Polycentricity and better European territorial balance" (INTERREG IIIC) and "AlpCity - Local endogenous and urban regeneration of small alpine towns" (INTERREG IIIB Alpine Space), undergoing NATREG project (South East Europe Programme, www.natreg.eu)

Textbox 299 you have 438 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

The department of Spatial Planning and Parks is responsible for the framework for local planning in accordance with the directions of socio-economic programs (Regional Plan of Development).The Veneto Region in collaboration with the coordination of the parks, in order to enhance and upgrade its vast natural heritage, has created a portal dedicated to parks and protected natural areas in Veneto.About the competences and the capacity of the Region of Veneto in this project, the important thing to underline it's the role of this PP in definition of so called PTRC (Regional Territorial Plan of Coordination) adopted under regional law April 23, 2004, No.11 (Article 25 and 4) and than the possibility to realize and implement all the activities of the project. Spatial Planning and Parks Department has the aim to protect and manage the Region's territory in order to improve the quality of life, to assure balanced coherently with the European integration process and the European▫development

and to improve competitiveness while mitigating the▫landscape convention climate change effects. Department's tasks are as follows:Drawing up an updating of spatial planning; European project management and promotion of best practices in the field of spatial planning, urban and environmental quality; Coordination, management and valorisation of regional parks and protected areas of Veneto.
He is the WP6 leader and will carry out the pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments and will integrate and adapt DSS developed by PP2

Textbox 300 you have 1645 characters (max. 2.000 characters)

Contribution of the partner to the project

Together with the Emilia Romagna Region, it contributes to a better coordination of the spatial planning policies of northern italian regions in the frame of Adria Po Valley Agreement

Textbox 301 you have 185 characters (max. 200 characters)

Benefit of the partner from the project

Concrete inputs to design the future spatial development of the Urban Corridor Venice - Padua, one of the most dynamic area, towards sustainable green interventions

Textbox 302 you have 165 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	193.800,00 €
	Public co-financing	64.600,00 €
	Total Budget	258.400,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		75,00%

Project Partner information: PP4

Contact details

Institution (original language, official name)	Consorzio per la Gestione del Centro di Coordinamento delle Attività inerenti il Sistema Lagunare Veneziano (CORILA)		
Institution (official English translation)	Consortium for Coordination of Research Activities Concerning the Venice Lagoon System (CORILA)		
Address	San Marco 2847		
Postal code	30124		
Town	Venice		
Country	Italia		
Region (NUTS1)	NORD-EST		
Region (NUTS2)	Veneto		
Region (NUTS3)	Venezia		
Website	www.corila.it		
Contact person (Firstname, Surname)	Mr	Pierpaolo	Campostrini
E-mail	campostrini@corila.it		
Phone (office)	+39 0412402511		
Phone (mobile)			
Fax	+39 0412402512		
Legal representative (Firstname, Surname)	Mr	Paolo	Cescon
Function	President		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	International
Thematic field of activities	Environment
Functional Type of partner	Research / technology development

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

Several project experiences in cooperation were founded by Framework Programme as SPICOSA and ENCORA and by Interreg Adriatic Crossborder programme. CORILA had also experience in programme founded by national and regional programme as Regional, Municipality of Venice and Natinal special law for Venice.

Textbox 303 you have 308 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

CORILA is an association of Ca' Foscari University and the University IUAV of Venice, the University of Padua, the Italy's National Research Council and the National Institute of Oceanography and Experimental Geophysic. It is overseen by the Ministry of Education, University and Research.
The Research Programme of CORILA corresponds to activities promoted by the Special Laws for Venice and aims at providing concrete results, scientific excellence as well as relevance to specific queries emerging from policy makers and public administration.
CORILA's Research Programme is based upon 4 thematic areas, Economics, Architecture and cultural heritage, Environmental processes, Organisation and dissemination of data and broken into diverse research lines an d than it a strong partners in line with the this particular kinds of activities.
CORILA coordinates the research work, also facilitating effective interdisciplinary scientific exchange.

CORILA promotes and coordinates research on the Venice lagoon, also internationally. Accordingly, it facilitates interaction with the international scientific community; collects information on the physical system, territorial, environmental, economic and social aspects of the lagoon and lagoon settlements; processes and manages this information in an integrated framework; carries out interdisciplinary scientific research projects pertinent to the problems of the Venice Lagoon; and organises widespread dissemination of the research.
The operational structure is composed of qualified researchers who carry out scientific coordination and interdisciplinary integration activities, as well as administrative and management functions.
As for WP6: contributes in the definition of both pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments.

Textbox 304 you have 1894 characters (max. 2.000 characters)

Contribution of the partner to the project

Corila will contribute in the data harmonisation process and in the definition of a model for the UHI phenomenon to establish correlation between air temperature, land use and buldining tecnology.

Textbox 305 you have 196 characters (max. 200 characters)

Benefit of the partner from the project

Transnational cooperation will offer the opportunity to test, in different areas and in different environments, and to share integrated and knowledge-based approach used by scientific bodies

Textbox 306 you have 190 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	181.710,00 €
	Public co-financing	60.570,00 €
	Total Budget	242.280,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		75,00%

Project Partner information: PP5

Contact details

Institution (original language, official name)	Karlsruhe Institute of Technology		
Institution (official English translation)	Karlsruhe Institute of Technology		
Address	Kreuzeckbahnstr. 19		
Postal code	82467		
Town	Garmisch-Partenkirchen		
Country	Germany		
Region (NUTS1)	BAYERN		
Region (NUTS2)	Oberbayern		
Region (NUTS3)	Garmisch-Partenkirchen		
Website	http://imk-ifu.fzk.de		
Contact person (Firstname, Surname)	Mr	Stefan	Emeis
E-mail	stefan.emeis@kit.edu		
Phone (office)	0049 (0)8821 183 240		
Phone (mobile)			
Fax	0049 (0)8821 73 5 73		
Legal representative (Firstname, Surname)	Mr	Christine	Bender
Function	Head of Financial Management		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	International
Thematic field of activities	Environment
Functional Type of partner	Research / technology development

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

KIT participated as partner in several EU projects, mainly in the research field: INTERREG IIIB ALPINE SPACE ALPNAP project, V FP RTD WISE project and IV FP RTD VOTALP I and II. With specific refer to the UHI project theme, KIT is involved in a project financed by Helmholtz Society of Research Centres concerning the Risk Habitat Megacities

Textbox 307 you have 342 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

The Karlsruhe Institute of Technology (KIT) represents the cooperation of the Universität Karlsruhe with the Forschungszentrum Karlsruhe.
KIT research will primarily be based on the capacities and knowledge of the scientists, who are members of the over 140 Institutes of KIT. They are supported by an excellent and worldwide unique scientific infrastructure.
In KIT these scientists work in fields of competence depending on their expert know-how. Related fields of competence are bundled in areas of competence. Fields of Competence and Areas of Competence make up the Competence Portfolio of KIT. It is dynamic and develops and takes up new scientific topics.
While the Competence Portfolio is the basis of KIT research, KIT centers and KIT focuses are organizational units that bundle research projects.
Innovation is the economically successful implementation of KIT knowledge in novelties in economy and society.

This may be achieved by either direct transfer of new findings, innovative ideas and know-how or joint projects with industry, in the course of which specific products, technologies or processes are developed. In addition various persons contribute to innovation in many ways, as qualified KIT graduates at their future employers or as founders of own enterprises (spin-offs).The bases of all innovations are the scientific institutes and the thematically oriented and interdisciplinary KIT research structures. Information, consulting, and assistance in exploitation as well as establishing of contacts to scientific facilities of KIT or other central service departments are some of the tasks of the Innovation Department.
WP6: it will provide information on the possibility for an urbanised mesoscale model to be part of a decision support system and it will accompany PP6 in pilot actions

Textbox 308 you have 1813 characters (max. 2.000 characters)

Contribution of the partner to the project

Even if KIT is involved in the different wps, as WP3 Leader is mainly concentrated in steering the analysis, in developing forecasting model and in the report on UHI vs Climate Change

Textbox 309 you have 183 characters (max. 200 characters)

Benefit of the partner from the project

The possibility of exchanging knowledge and experiences with the other partners (both technical and institutional) will certainly contribute to enhance KIT expertise in the topic.

Textbox 310 you have 180 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	183.795,75 €
	Public co-financing	61.265,25 €
	Total Budget	245.061,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		75,00%

Project Partner information: PP6

Contact details

Institution (original language, official name)	Landeshauptstadt Stuttgart		
Institution (official English translation)	Municipality of Stuttgart		
Address	Rathaus, Marktplatz 1		
Postal code	70173		
Town	Stuttgart		
Country	Germany		
Region (NUTS1)	BADEN-WÜRTTEMBERG		
Region (NUTS2)	Stuttgart		
Region (NUTS3)	Stuttgart, Stadtkreis		
Website	www.stuttgart.de		
Contact person (Firstname, Surname)	Mr	Ulrich	Reuter
E-mail	ulrich.reuter@stuttgart.de		
Phone (office)	+49711/216 88625		
Phone (mobile)			
Fax	+49711/216 88640		
Legal representative (Firstname, Surname)	Mr	Werner	Flad
Function	Head of the office		

Institution profile

Legal status	Public authority
Geographic level of activities	Local
Thematic field of activities	Environment
Functional Type of partner	Public sector / administration

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

AMICA Interreg III C 7.2005 - 12.2007 Partner www.amica-climate.net
CIVITAS-CARAVEL Civitas 2.2005 - 1.2009 Partner www.civitas-caravel.org

Textbox 311 you have 141 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

The Institution plays a proactive role in climate protection and noise abatement, and also in improving air quality. The State Capital is extending its use of renewable energies in a bid to secure a sustainable, affordable and environmentally compatible energy supply. CO2 emissions are being successively reduced, green spaces extended and brownfield sites renaturized. Stuttgart uses its own solid waste management enterprise to recycle raw materials and also generates energy from sewage

The roles and responsibilities are distributed among the different levels of public authorities in the country as follows: National and regional: defining and setting the legal framework. Local (Municipality): Development of additional strategies; for some regulations and legislation the cities are responsible itself.
As scientific/technical body the Institution is mainly dealing with urban climatology, air pollution control, activities concerning mitigation and adaptation to global climate change. As governance body,the role of the organisation in the design and implementation of the relevant policies are eveloping the strategy and measures, implementing measures and controlling the success.
WP6: it will integrate and adapt DSS developed by PP2, and contributes in the definition of both pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments.

Textbox 312 you have 1446 characters (max. 2.000 characters)

Contribution of the partner to the project

The Institution will contribute to the development of mitigation and adaptation strategies and to the implemention of first measures.

Textbox 313 you have 134 characters (max. 200 characters)

Benefit of the partner from the project

The partner will benefit from the implementation of suitable measures to mitigate and to adapt to climate changes in Stuttgart.

Textbox 314 you have 128 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	138.870,00 €
	Public co-financing	46.290,00 €
	Total Budget	185.160,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		75,00%

Project Partner information: PP7

Contact details

Institution (original language, official name)	Meteorologisches Institut – Universität Freiburg		
Institution (official English translation)	Meteorological Institute - University of Freiburg		
Address	Fahnenbergplatz		
Postal code	79098		
Town	Freiburg		
Country	Germany		
Region (NUTS1)	BADEN-WÜRTTEMBERG		
Region (NUTS2)	Freiburg		
Region (NUTS3)	Freiburg im Breisgau, Stadtkreis		
Website	www.uni-freiburg.de		
Contact person (Firstname, Surname)	Mr	Andreas	Matzarakis
E-mail	andreas.matzarakis@meteo.uni-freiburg.de		
Phone (office)	+497612036921		
Phone (mobile)			
Fax	+497612036922		
Legal representative (Firstname, Surname)	Mr	Helmut	Mayer
Function	Head of Institute		

Institution profile

Legal status	Public authority
Geographic level of activities	International
Thematic field of activities	Others
Functional Type of partner	Research / technology development

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

W-IRIS - FP7 2008-2010 Lead Partner www.uni-freiburg.de
Biomass Energy Europe- FP7 2008-2011 Lead Partner http://www.eu-bee.net/ KUNTIKUM-
KlimaZwei 2006-2009 Lead Partner www.klimatrends.de
Startclim-Austroclim 2006-2007 Lead Partner www.austroclim.at
KLIMES- KlimaZwei 2006-2009 Lead Partner www.klimes.de
Impact of Climate Change on vegetation in the Upper Rhine Valley - Interreg IIIa - 2003-2006 Lead Partner

Textbox 315 you have 461 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

Development of assessment methods for climate in urban planning. Development and application of microscale climate models. Assessment of climate and weather on human health.The Institute belongs to Chair of the Commission on Climate, Tourism and Recreation of the International Society of Biometeorology, Vice-president of the International Society of Biometeorology, Editor and Manager of the Urban Climate Website (www.urbanclimate.net).

The University of Freiburg was founded in 1457 as a classical comprehensive university, making it one of the oldest higher education institutions in Germany. The structure of the university is multifaceted, ranging from a variety of committees to 11 academic faculties and a complete array of central service departments. As such, we are a dynamic, large-scale institution with a diverse educational offering. As studies, research, and continuing education are all an integral part of this offering, we maintain a close relationship with the city and region as well as with the international academic community and our alumni.

Textbox 316 you have 1066 characters (max. 2.000 characters)

Contribution of the partner to the project

Transfer of climate knowledge to urban planning, authorities and city dwelers.

Textbox 317 you have 78 characters (max. 200 characters)

Benefit of the partner from the project

Possible application and further development of assessment methods for human bioclimate in urban microscale.

Textbox 318 you have 110 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	150.607,50 €
	Public co-financing	50.202,50 €
	Total Budget	200.810,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		75,00%

Project Partner information: PP8

Contact details

Institution (original language, official name)	Instytut Geografii I Przestrzennego Zagospodarowania Polskiej Akademii Nauk		
Institution (official English translation)	Institute of Geography and Spatial Organization, Polish Academy Of Sciences		
Address	Twarda 51/55		
Postal code	00-818		
Town	Warszawa		
Country	Poland		
Region (NUTS1)	REGION CENTRALNY		
Region (NUTS2)	Mazowieckie		
Region (NUTS3)	Miasto Warszawa		
Website	www.igipz.pan.pl		
Contact person (Firstname, Surname)	Mr	Krzysztof	Blazejczyk
E-mail	k.blaz@twarda.pan.pl		
Phone (office)	+48-22-69-78-910		
Phone (mobile)			
Fax	+48-22-69-78-903		
Legal representative (Firstname, Surname)	Mr	Marek	Degórski
Function	Director		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	International
Thematic field of activities	Environment
Functional Type of partner	Research / technology development

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

The previous experiences in cooperation projects were mainly concerning 5 Framework and 6 Framework, as Peri-urban Land Use Relationships (PLUREL) project and Prevention of acute Health Effect (PHEWE) but also there are several projects concerning ESPON programme as The role of small and medium sized towns project and Governance of territorial and urban policies from EU to local level project.

Textbox 319 you have 399 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

The Institute perform UHI, urban planning and urban land use research on national and international level. Various urbanised areas are studied. Their size changed from very small (3000 of population) up to large agglomerations (up to 8-9 milions of population). We study all aspects of UHI: identification if sources, land use relationships and consequences for socio-economical development (e.g. health effects). As governance body the expertises serve for land use planning both, on local, regional and national level.

Textbox 320 you have 521 characters (max. 2.000 characters)

Contribution of the partner to the project

They are able to organise, mannage and monitoring network of UHI in various Central European cities, identifying UHI sources.The socio-economical consequences will be also undertaken.

Textbox 321 you have 184 characters (max. 200 characters)

Benefit of the partner from the project

The results of the project will help to find general rules and relationships between various components of urban spaces and their socio-economical development and evaluation of living conditions.

Textbox 322 you have 196 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	181.577,00 €
	Public co-financing	32.043,00 €
	Total Budget	213.620,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		85,00%

Project Partner information: PP9

Contact details

Institution (original language, official name)	City of Lodz WITHDRAWAL on the 6th of May		
Institution (official English translation)	City of Lodz WITHDRAWAL on the 6th of May		
Address	not available		
Postal code	not available		
Town	Lodz		
Country	Poland		
Region (NUTS1)	REGION CENTRALNY		
Region (NUTS2)	Lodzkie		
Region (NUTS3)	Miasto Lodz		
Website	not available		
Contact person (Firstname, Surname)	Ms	not available	not available
E-mail	not available		
Phone (office)	not available		
Phone (mobile)	not available		
Fax	not available		
Legal representative (Firstname, Surname)	Ms	not available	not available
Function	not available		

Institution profile

Legal status	Public authority
Geographic level of activities	Local
Thematic field of activities	Innovation / Knowledge / Business
Functional Type of partner	Public sector / administration

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

not available

Textbox 323 you have 13 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

not available

not available

Textbox 324 you have 26 characters (max. 2.000 characters)

Contribution of the partner to the project

not available

Textbox 325 you have 13 characters (max. 200 characters)

Benefit of the partner from the project

not available

Textbox 326 you have 13 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	Total Budget	0,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		85,00%

Project Partner information: PP10

Contact details

Institution (original language, official name)	Instytut Medycyny Pracy imienia prof. dra med. Jerzego Nofera w Łodzi		
Institution (official English translation)	Nofer Institute of Occupational Medicine		
Address	Teresy 8		
Postal code	91-348		
Town	Łódź		
Country	Poland		
Region (NUTS1)	REGION CENTRALNY		
Region (NUTS2)	Lodzkie		
Region (NUTS3)	Miasto Lodz		
Website	www.imp.lodz.pl		
Contact person (Firstname, Surname)	Ms	Katarzyna	Kalska
E-mail	kkalska@imp.lodz.pl		
Phone (office)	+ 48 42 631-48-39		
Phone (mobile)			
Fax	+ 48 42 631-48-39		
Legal representative (Firstname, Surname)	Mr	Konrad	Rydzyński
Function	Director		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	International
Thematic field of activities	Environment
Functional Type of partner	Research / technology development

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

Capacity building in the firld of environmenral Health - Twinning Programme -2006- lead partner
www.zrowiesrodowiskowe.pl

Textbox 327 you have 121 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

As Scientific/ Technical body they have a great experience in conducting projects involving different occupational and environmental factor exposure on humans health. They can implement questionnaire up to 1000 subject as well as perform medical examination and lab tests (eg allergy tests) up to 200-250 subjects. They can also asses concentration of different aeroallergens eg. pollens, molds in UHI area and compare to non-UHI environment.

The primary task of the Institute is to conduct research and development activities and provide expertise on health hazards arising from occupational and environmental exposure to noxious agents. The multidisciplinary nature of the research performed at NIOM makes it possible to solve complex problems of the work environment. It promotes healthy lifestyles among Polish workers with the main goal of improving the quality of life and having a positive impact on workers' health, work environment and work capability. Most of the senior research workers of the Institute were trained in recognised European and US institutions and have considerable experience in performing international projects.
WP6: contributes to the realisation of the pilot actions for adaptation strategies on risk management instruments

Textbox 328 you have 1255 characters (max. 2.000 characters)

Contribution of the partner to the project

The Institution can monitor health status of subjects under the influence of urban heat islands and compare to others

Textbox 329 you have 118 characters (max. 200 characters)

Benefit of the partner from the project

They can earn some knowledge of health impact of heat islands on urban residents.

Textbox 330 you have 81 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	66.538,00 €
	Public co-financing	11.742,00 €
	Total Budget	78.280,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		85,00%

Project Partner information: PP11

Contact details

Institution (original language, official name)	Abteilung für Bauphysik und Bauökologie, Technische Universität Wien - Institut für Architekturwissenschaften		
Institution (official English translation)	Vienna University of Technology - Department of Building Physics and Building Ecology - Institute of Architectural Sciences		
Address	Karlsplatz 13		
Postal code	1040		
Town	Vienna		
Country	Austria		
Region (NUTS1)	OSTÖSTERREICH		
Region (NUTS2)	Wien		
Region (NUTS3)	Wien		
Website	www.tuwien.ac.at		
Contact person (Firstname, Surname)	Mr	Ardeshir	Mahdavi
E-mail	amahdavi@tuwien.ac.at		
Phone (office)	+43/1/58801/27003		
Phone (mobile)			
Fax	+43/1/58801/27093		
Legal representative (Firstname, Surname)	Mr	Ardeshir	Mahdavi
Function	Director		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	International
Thematic field of activities	Environment
Functional Type of partner	Research / technology development

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

They have experience on a 6th FP RDT as partner in the project Hammam, Aspects and Multidisciplinary Methods of Analysis for the Mediterranean Region (www.hammams.org). They also have been Leader Partner in national and regional projects as Naturally Cool project of the Österreichischer Klima- und Energiefond programme and An innovative (energy-efficient and economical) room cooling method project of the Wirtschaftskammer Wien programme.

Textbox 331 you have 441 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

The partner is member of IBPSA International Building Performance Simulation Association and of ISIAQ- International Society of Indoor Air Quality and Climate. As scientific/ technical body, the University is an expert in empirical, computational and theoretical study of the physical interactions between people, buildings, and climate.
The TU Vienna has a great pool of specialists who are acting in a wide range of different topics in research, teaching and as partners of the economy. More than 2000 scientists do their research and teaching at highly advanced and modern institutes – in summary about 60. Although fundamental research has priority at the TU Vienna applied research is also done.

Moreover services are offered as high-tech problem solving and examination expertise for industry and economy. Innovation orientated companies are highly interested in co-operating with the Vienna University of Technology because of its high-tech and high-quality research and its openness for requests of the economy.
The Vienna University of Technology puts great emphasis on co-operation between its own institutes as well as with other universities. Therefore the TU Vienna participates in several European Union (EU) and other research programmes.
WP6: it contributes in the definition of both pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments.

Textbox 332 you have 1460 characters (max. 2.000 characters)

Contribution of the partner to the project

The main contribution focuses on the assessment of urban heat island (and climate change) effects on the energy and environmental performance of buildings and building ensembles.

Textbox 333 you have 178 characters (max. 200 characters)

Benefit of the partner from the project

The project is expected to provide information about the phenomena of UHI effects and to support the efforts to quantify the impact of UHI effects on buildings' energy and environmental performance.

Textbox 334 you have 198 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	266.857,50 €
	Public co-financing	88.952,50 €
	Total Budget	355.810,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		75,00%

Project Partner information: PP12

Contact details

Institution (original language, official name)	Magistratsabteilung 22 - Wiener Umweltschutzabteilung		
Institution (official English translation)	City of Vienna - Environmental Department (MA 22)		
Address	Dresdner Straße 45		
Postal code	1200		
Town	Vienna		
Country	Austria		
Region (NUTS1)	OSTÖSTERREICH		
Region (NUTS2)	Wien		
Region (NUTS3)	Wien		
Website	http://www.wien.gv.at/english/environment/protection/		
Contact person (Firstname, Surname)	Mr	Juergen	Preiss
E-mail	juergen.preiss@wien.gv.at		
Phone (office)	+431 4000 73545		
Phone (mobile)			
Fax	+43 1 4000-99-73541		
Legal representative (Firstname, Surname)	Mr	Karin	Buechl-Krammerstaetter
Function	Head of Department		

Institution profile

Legal status	Public authority
Geographic level of activities	Local
Thematic field of activities	Environment
Functional Type of partner	Public sector / administration

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

The previous experiences in: Greening the local economy PACTE programme / Umweltbezogene Indikatoren für die nachhaltige Entwicklung von Stadtteilen LITMUS programme / PASTILLE 5. RP für Forschung und technologische Entwicklung / Technologieoffensive Solarthermie, Expertennetzwerk Wien - Ungarn Solarnet II /Greenstructures and Urban Planning COST C11.

Textbox 335 you have 353 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

As Governace body, the Dept defines criterias, ecological requirements and measures for sustainable town planning in different planning levels like urban development plans, competition manuals, spatial planning and zoning plans.
Municipal Department 22 - Environmental Protection was founded in 1973. The team works to improve the quality of the local environment as well as the general quality of life in Vienna.
The department places particular value on supporting related research and cooperating with other municipal departments as well as ecological, social and economic interest groups, including the people of Vienna. The team strives to find a balance between different interest groups, to seek common solutions and to find potential synergies.

WP6: it will integrate and adapt DSS developed by PP2 and contribute to the realisation of the pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments

Textbox 336 you have 1003 characters (max. 2.000 characters)

Contribution of the partner to the project

The Dept will provide results of Vienna town from urban climate investigation work, studies about temperature szenarios, maps of the urban green space monitoring project.

Textbox 337 you have 170 characters (max. 200 characters)

Benefit of the partner from the project

Results will be used for defining criterias for different parameters of buildings to prevent urban heat island effects.

Textbox 338 you have 119 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	172.695,00 €
	Public co-financing	57.565,00 €
	Total Budget	230.260,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		75,00%

Project Partner information: PP13

Contact details

Institution (original language, official name)	Országos Meteorológiai Szolgálat		
Institution (official English translation)	Hungarian Meteorological Service		
Address	Kitaibel Pál 1		
Postal code	1024		
Town	Budapest		
Country	Hungary		
Region (NUTS1)	KOZEP-MAGYARORSZAG		
Region (NUTS2)	Kozep-Magyarorszag		
Region (NUTS3)	Budapest		
Website	www.met.hu		
Contact person (Firstname, Surname)	Ms	Györgyi	Baranka
E-mail	baranka.gyet.hu		
Phone (office)	+36-1+3464881		
Phone (mobile)			
Fax	+36-1-3464666		
Legal representative (Firstname, Surname)	Ms	Radics	Kornélia
Function	President		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	National
Thematic field of activities	Environment
Functional Type of partner	Public sector / administration

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

The previous experiences in: Meso-scale meteorological modelling for air pollution and dispersion applications project of Cost 728 programme as partner (www.cost.com) and on national project Forecasting of air pollution in budapest of OTKA PD 75500 programme as Lead partner (www.otka.hu)

Textbox 339 you have 289 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

Municipality of Budapest and Ministry of Environment provide a prevention and alert function in case of emergency on the basis of recommendation of Meteorogical Service. They inform the public. As a scientific/ technical Institution, it is experitised in maintenance of the network of meteorological and air quality stations to measure UHI's caracteristics and in modelling air pollution in Budapest. Asgovernance body the institution provides background information to policy-makers at Ministry of Environment.

The HMS develops activities mainly in the following fields: Strengthening the nuclear safety based on mutual confidence, Developing the nowcasting system with the harmonization of lightning detection systems, Development of forecasting methods and warning systems of heavy precipitation caus-ing sudden flash floods, Harmonization of evaluation of climatological normals.
WP6: contributes to the realisation of the pilot actions for adaptation strategies on risk management instruments

Textbox 340 you have 999 characters (max. 2.000 characters)

Contribution of the partner to the project

Hungarian Meteorological Service will provide meteorological measurement data from different level over Budapest to discribe the phenomenon of heat island over Budapest

Textbox 341 you have 170 characters (max. 200 characters)

Benefit of the partner from the project

Description of UHI development over Budapest.

Textbox 342 you have 45 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	221.115,60 €
	Public co-financing	39.020,40 €
	Total Budget	260.136,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		85,00%

Project Partner information: PP14

Contact details

Institution (original language, official name)	Univerzita Karlova v Praze, Matematicko-fyzikalni fakulta		
Institution (official English translation)	Charles University in Prague, Faculty of Mathematics and Physics		
Address	Ke Karlovu 3		
Postal code	121 16		
Town	Prague		
Country	Czech Republic		
Region (NUTS1)	CESKA REPUBLIKA		
Region (NUTS2)	Praha		
Region (NUTS3)	Hlavni mesto Praha		
Website	www.mff.cuni.cz		
Contact person (Firstname, Surname)	Mr	Tomas	Halenka
E-mail	tomas.halenka@mff.cuni.		
Phone (office)	+420 2 2191 2514		
Phone (mobile)			
Fax	+420 2 2191 2533		
Legal representative (Firstname, Surname)	Mr	Zdenek	Nemecek
Function	Vice Dean		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	International
Thematic field of activities	Environment
Functional Type of partner	Research / technology development

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

Five previous experiences in cooperation projects on RDT FP 6 and FP 7 programme, such as CECILIA project were the University was LP or megalopoli, still ongoing. Other projects were national/regional projects as Num. Model. of Tropospheric Smog above Complex Terrain of Grant Agency of CR programme and Adaptation to Climate Change of R/D Ministry of Environment programme.

Textbox 343 you have 374 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

Some of CUNI team are members of International Association for Urban Climate, free organisation of people interested in the topics. The Universtiy is expert in regional climate modelling (high resolution), in climate change scenarios construction, in urban heat island studies, in air quality, photochemical smog modelling, and in microscale modelling using LES. Charles University in Prague is the oldest and largest university in the Czech Republic. Founded in 1347, it is one of the oldest universities in Europe.
The Department of Meteorology and Environment Protection is part of the Faculty of Mathematics and Physicsof Charles University in Prague. The department provides training of students in subject field of meteorology and climatology in all degree programmes - bachelor, master and doctorate. In addition to training of experts in the field of atmospheric physics, the department contributes significantly to research focused on the weather, climate system or urban pollution

WP6: contributes to the realisation of the pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments. It will also and adapt DSS developed by PP2

Textbox 344 you have 1235 characters (max. 2.000 characters)

Contribution of the partner to the project

UHI studies, urban effects simulation, climate change scenarios construction, climate change impacts in urban environment, air quality, photochemical smog formation and microscale modelling using LES

Textbox 345 you have 199 characters (max. 200 characters)

Benefit of the partner from the project

Improvement and development of the modelling system tools, data access, improved expertise in urban heat islands issues, publications.

Textbox 346 you have 134 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	190.772,47 €
	Public co-financing	33.665,73 €
	Total Budget	224.438,20 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		85,00%

Project Partner information: PP15

Contact details

Institution (original language, official name)	Institut plánování a rozvoje hlavního města Prahy		
Institution (official English translation)	Prague Institute of Planning and Development		
Address	Vyšehradska 57/2077		
Postal code	128 00		
Town	Prague 2		
Country	Czech Republic		
Region (NUTS1)	CESKA REPUBLIKA		
Region (NUTS2)	Praha		
Region (NUTS3)	Hlavni mesto Praha		
Website	www.urm.cz		
Contact person (Firstname, Surname)	Ms	Maria	Kazmukova
E-mail	kazmukova@urm.mepnet.cz		
Phone (office)	+ 420 236 004 587		
Phone (mobile)			
Fax	+ 420 220 514 652		
Legal representative (Firstname, Surname)	Mr	TOMAS	CTIBOR
Function	Director		

Institution profile

Legal status	Public authority
Geographic level of activities	Regional
Thematic field of activities	Environment
Functional Type of partner	Public sector / administration

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

they participated in the following cooperation project: HEAVEN- 5FTP 2000-2003 Partner (www.heaven.com) / CITEAIR - INTERREG IIIC -2004-2007 Partner (www.citeair.eu) / CITEAIR II INTERREG IV C 2008-2011Partner (www.citeair.eu)/ AIR4EU 6FTP 2003-2004 Partner (www.air4eu.com)

Textbox 347 you have 276 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

City Hall of Prague is responsible for regional development and as a advisory body for Prague Districts as governance body, the City Dept Sutority is responsible for master plan of Prague, zoning in Prague. The City Development Authority Prague (URM) is a contributory organization established by the City of Prague. Its presence in the project is important for the implementation of activities because URM conducts the following activitie: the preparation and processing of strategic, town-planning and territorial development documents for the City of Prague and the Principles of Territorial Development of the City of Prague ;

the administration and procurement of a collection of geographical data on the territory of the City of Prague, in particular the Digital Map of Prague; the support for cooperation between the public and private sectors in the area of fulfilling the city's conceptual projects; the presentation and promotion of the results of activities on a city, national and international scale.
WP6: realizes the pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments. It will also and adapt DSS developed by PP2

Textbox 348 you have 1234 characters (max. 2.000 characters)

Contribution of the partner to the project

Evaluation of strategies to be implemented for UHI abatement, inpiut data about landscape.

Textbox 349 you have 90 characters (max. 200 characters)

Benefit of the partner from the project

Sharing experience with scientists and other cities/regions.

Textbox 350 you have 60 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	147.148,60 €
	Public co-financing	25.967,40 €
	Total Budget	173.116,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		85,00%

Project Partner information: PP16

Contact details

Institution (original language, official name)	Český hydrometeorologický ústav		
Institution (official English translation)	Czech Hydrometeorological Institute		
Address	Na Sabatce 17		
Postal code	143 06		
Town	Prague		
Country	Czech Republic		
Region (NUTS1)	CESKA REPUBLIKA		
Region (NUTS2)	Praha		
Region (NUTS3)	Hlavni mesto Praha		
Website	http://portal.chmi.cz		
Contact person (Firstname, Surname)	Mr	Luboš	Moravčík
E-mail	moravcik@chmi.cz		
Phone (office)	+ 420 244 03 2275		
Phone (mobile)			
Fax	420 244 03 2276		
Legal representative (Firstname, Surname)	Mr	Václav	Dvořák
Function	Director		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	National
Thematic field of activities	Environment
Functional Type of partner	Public sector / administration

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

Three previous project experiences were founded by FP6 programme, one by FP5 programme, one bu COST programme, one by INTERREG III B CADSES and other one by ECSN EUMETNET. There were also previous experience funded by Ministry of Environment of the Czech Republic, by Grant Agency of the Academy of Sciences of the Czech Republic and by City development Authority Prague.

Textbox 351 you have 371 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

The Institute activities focus on meteorology & climatology, hydrology and air quality fields. It is responsible for weather forecasting and is also involved in the integrated rescue system of the Czech Republic and cooperates in Meteoalarm. F
The institute owns know how in the areas of weather forecast, climate data analysis, climate change scenario development, extreme weather events analysis and the usage of geographic system information tools.

WP6: contributes to the realisation of the pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments

Textbox 352 you have 651 characters (max. 2.000 characters)

Contribution of the partner to the project

CHMI will be responsible mainly for the analysis of the current state of the UHI and for the analysis of potential vulnerabilities of Prague and creation of maps of UHIs CE Atlas

Textbox 353 you have 179 characters (max. 200 characters)

Benefit of the partner from the project

Better cooperation with local and regional authorities and stakeholders in the issues connected with UHI and adaptation to climate change.

Textbox 354 you have 138 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	92.085,60 €
	Public co-financing	16.250,40 €
	Total Budget	108.336,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		85,00%

Project Partner information: PP17

Contact details

Institution (original language, official name)	Znanstvenoraziskovalni center Slovenske akademije znanosti in umetnosti		
Institution (official English translation)	Research Centre of the Slovenian Academy of Sciences and Arts		
Address	Novi trg 2		
Postal code	1000		
Town	Ljubljana		
Country	Slovenia		
Region (NUTS1)	SLOVENIJA		
Region (NUTS2)	Zahodna Slovenija		
Region (NUTS3)	Osrednjeslovenska		
Website	http://giam2.zrc-sazu.si/#v		
Contact person (Firstname, Surname)	Ms	Petra	Rus
E-mail	petra.rus@zrc-sazu.si		
Phone (office)	+386 1 200 27 33		
Phone (mobile)			
Fax	+386 1 425 77 93		
Legal representative (Firstname, Surname)	Mr	Oto	Luthar
Function	General Director		

Institution profile

Legal status	Public equivalent body
Geographic level of activities	National
Thematic field of activities	Environment
Functional Type of partner	Research / technology development

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

The Scientific Research centre participated in several cooperation projects: CAPACities and ClimAlpTour – Alpine Space, Catch_MR Interreg IV C, INCOME – LIFE +, CapHaz-Net – 7th FP RDT

Textbox 355 you have 184 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

They conduct and applied geographical research on Slovenia and its landscapes and to prepare basic geographical texts on Slovenia as a country and as a part of the world. In cooperation with other Slovenian geographers the institute's staff has prepared a large variety of basic geographical works on Slovenia as an independent country. The Scientific Researcher Center has over 300 researchers and fellows, which are linked together in highly qualified and well-rounded research teams and institutes. Since it is composed of seventeen institutes and research groups its primary advantage is in interdisciplinary organization and diverse mixture of researchers and themes ranging from social and earth sciences to regional planning and humanities.

WP6: contributes to the realisation of the pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments

Textbox 356 you have 945 characters (max. 2.000 characters)

Contribution of the partner to the project

They are able to organise, mannage and monitoring network of UHI in various Central European cities, identifying UHI sources.The socio-economical consequences will be also undertaken.

Textbox 357 you have 184 characters (max. 200 characters)

Benefit of the partner from the project

Possible application and further development of assessment methods for human bioclimate in urban microscale in Ljubliana area

Textbox 358 you have 125 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	142.347,80 €
	Public co-financing	25.120,20 €
	Total Budget	167.468,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		85,00%

Project Partner information: PP18

Contact details

Institution (original language, official name)	Mestna občina Ljubljana		
Institution (official English translation)	Municipality of Ljubljana		
Address	Mestni trg 1		
Postal code	1000		
Town	Ljubljana		
Country	Slovenia		
Region (NUTS1)	SLOVENIJA		
Region (NUTS2)	Zahodna Slovenija		
Region (NUTS3)	Osrednjeslovenska		
Website	www.ljubljana.si		
Contact person (Firstname, Surname)	Ms	Zdenka	Šimonovič
E-mail	zdenka.simonovic@ljubljana.si		
Phone (office)	+386 1 306 11 47		
Phone (mobile)			
Fax	+386 1 306 13 47		
Legal representative (Firstname, Surname)	Mr	Zoran	Janković
Function	Mayor		

Institution profile

Legal status	Public authority
Geographic level of activities	Local
Thematic field of activities	Others
Functional Type of partner	Public sector / administration

Previous experience participating in cooperation projects (e.g. transnational, inter-regional, RTD,..)

The Municipality of Ljubljana participated in several cooperation projects: as LP in CIVITAS ELAN in the framework of FP7 RDT, CIVITAS MOBILIS in the framework of FP6 RDT, as partner in SECOND CHANCE and in CREATIVE CITIES - CE Programme, in REBECEE and EI-EDUCATION within the IEE programme as partner. Other relevant experience in project funded by ERDF Programme and Cohesion Found Programme

Textbox 359 you have 394 characters (max. 500 characters)

Competences, capacity and know how of the partner to implement the result of the project

The Municipality of Ljubljana will be involved in this project with three departments: Department for environment, Department for spatial planning and Section for international relations and protocol. Together these departments and section will implement all the activities of the Municipality in a complementary manner.
Department for environment at the Municipality of Ljubljana will be most involved in the project and performs the following tasks:
They are carrying out duties connected to sustain environment protection and the nature conservation
Prepares measures, guidelines, recommendations in the field of environment protection and the nature conservation
Proposes reconstruction programmes and ensures their implementation and monitoring. Ensures detailed and specific monitoring on the condition of the environment and nature. Prepares vulnerability studies and estimations and reports on the condition of the environment and nature

Assesses the impact of the plans and of the planned interventions on the environment
Ensures awareness, information and education of the general public on the issues of environment protection and nature conservation
Ensures the management of protected natural assets of local importance.
Department for spatial planning will be active in the preparation of urban planning strategies, since that is one of the functions of this department in the municipality.
Section for international relations and protocol will be mostly involved in the project management and co-ordination activities.
WP6: it will integrate and adapt DSS developed by PP2 and contribute to the realisation of the pilot actions for the integration of mitigation strategies on territorial planning instruments and for adaptation strategies on risk management instruments

Textbox 360 you have 1793 characters (max. 2.000 characters)

Contribution of the partner to the project

The Municipality will provide results of Ljubljana town from urban climate investigation work, studies about temperature scenarios, maps of the urban green space monitoring project

Textbox 361 you have 180 characters (max. 200 characters)

Benefit of the partner from the project

Opportunity to overcome lack of any tool for processing data, modelling and simulation of effects of measures related to UHI. City would gain new information for municipal strategic planning

Textbox 362 you have 191 characters (max. 200 characters)

Financial contribution

Location of partner	Source of funding	Amount
EU partner within CENTRAL EUROPE	ERDF	289.866,15 €
	Public co-financing	51.152,85 €
	Total Budget	341.019,00 €
	- out of which for activities in 3rd Countries (total costs)	0,00 €
ERDF grant rate		85,00%

Section 5: Project budget

Table 4: Budget break down #1

	WP 0	WP 1	WP 2	WP 3	WP 4	WP 5	WP 6	Total eligible	%
Staff costs	8.023,20 €	232.508,67 €	107.533,89 €	486.134,97 €	225.352,65 €	701.883,53 €	380.520,97 €	2.141.957,88 €	53,78%
Administration cost	0,00 €	2.988,51 €	470,00 €	360,00 €	1.170,00 €	180,00 €	160,00 €	5.328,51 €	0,13%
External expertise	5.000,00 €	276.618,02 €	51.200,00 €	49.133,00 €	98.965,22 €	145.460,33 €	599.822,83 €	1.226.199,40 €	30,79%
Travel/accommodation	500,00 €	22.611,67 €	58.525,55 €	29.919,79 €	62.222,44 €	39.291,74 €	23.765,82 €	236.837,01 €	5,95%
Meetings and events	0,00 €	1.500,00 €	117.978,00 €	5.500,00 €	35.500,00 €	5.900,00 €	10.509,00 €	176.887,00 €	4,44%
Promotion costs	X	0,00 €	180.889,40 €	0,00 €	0,00 €	0,00 €	0,00 €	180.889,40 €	4,54%
Equipment	X	8.400,00 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €	8.400,00 €	0,21%
Investments	X	X	X	0,00 €	0,00 €	2.055,00 €	4.500,00 €	6.555,00 €	0,16%
Other	X	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00%
Total	13.523,20 €	544.626,87 €	516.596,84 €	571.047,76 €	423.210,31 €	894.770,60 €	1.019.278,62 €	3.983.054,20 €	
WP Reference Total	13.523,20 €	544.626,87 €	516.596,84 €	571.047,76 €	423.210,31 €	894.770,60 €	1.019.278,62 €	3.983.054,20 €	
%	0,34%	13,67%	12,97%	14,34%	10,63%	22,46%	25,59%		

Table 5: Budget break down #2

	WP 0	WP 1	WP 2	WP 3	WP 4	WP 5	WP 6	Total eligible	%
Preparation phase	13.523,20 €	X	X	X	X	X	X	13.523,20 €	0,34%
Month 01-06	X	55.418,90 €	93.233,75 €	293.622,09 €	45.888,07 €	0,00 €	0,00 €	488.162,81 €	12,26%
Month 07-12	X	86.763,82 €	23.933,75 €	170.919,18 €	99.483,26 €	52.800,00 €	0,00 €	433.900,01 €	10,89%
Month 13-18	X	89.963,82 €	92.482,25 €	106.506,49 €	171.908,26 €	234.947,61 €	14.288,31 €	710.096,74 €	17,83%
Month 19-24	X	86.763,82 €	44.269,75 €		60.457,97 €	465.025,71 €	267.892,36 €	924.409,61 €	23,21%
Month 25-30	X	116.493,14 €	121.991,20 €		33.373,97 €	94.766,00 €	447.803,35 €	814.427,66 €	20,45%
Month 31-39	X	109.223,37 €	140.686,14 €		12.098,78 €	47.231,28 €	289.294,60 €	598.534,17 €	15,03%
	X							0,00 €	0,00%
	X							0,00 €	0,00%
Total	13.523,20 €	544.626,87 €	516.596,84 €	571.047,76 €	423.210,31 €	894.770,60 €	1.019.278,62 €	3.983.054,20 €	
WP Reference Total	13.523,20 €	544.626,87 €	516.596,84 €	571.047,76 €	423.210,31 €	894.770,60 €	1.019.278,62 €	3.983.054,20 €	
%	0,34%	13,67%	12,97%	14,34%	10,63%	22,46%	25,59%		

Table 6: Budget break down #3

	WP 0	WP 1	WP 2	WP 3	WP 4	WP 5	WP 6	Total eligible	Partner Ref	%
Regional Agency for Enviror	480,00 €	208.254,47 €	65.240,87 €	56.142,53 €	79.062,13 €	25.500,00 €	15.400,00 €	450.080,00 €	450.080,00 €	11,30%
Emilia Romagna Region. Ge	480,00 €	25.080,57 €	56.980,00 €	7.861,11 €	378,32 €	14.400,00 €	143.600,00 €	248.780,00 €	248.780,00 €	6,25%
Veneto Region - Territorial	3.000,00 €	32.493,06 €	61.274,02 €	23.317,10 €	16.258,83 €	21.395,60 €	100.661,39 €	258.400,00 €	258.400,00 €	6,49%
Consortium for Coordinatio	2.480,00 €	22.000,00 €	40.620,00 €	35.580,00 €	40.200,00 €	58.800,00 €	42.600,00 €	242.280,00 €	242.280,00 €	6,08%
Karlsruhe Institute of Techr	980,00 €	32.620,00 €	23.920,00 €	72.041,00 €	18.700,00 €	78.200,00 €	18.600,00 €	245.061,00 €	245.061,00 €	6,15%
Municipality of Stuttgart	480,00 €	20.860,00 €	10.700,00 €	21.120,00 €	16.300,00 €	5.300,00 €	110.400,00 €	185.160,00 €	185.160,00 €	4,65%
Meteorological Institute - U	480,00 €	34.474,32 €	9.680,34 €	45.651,90 €	17.321,18 €	92.800,00 €	402,26 €	200.810,00 €	200.810,00 €	5,04%
Institute of Geography and	336,00 €	17.220,00 €	23.724,00 €	26.360,00 €	16.480,00 €	119.600,00 €	9.900,00 €	213.620,00 €	213.620,00 €	5,36%
City of Lodz WITHDRAWAL (	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00%
Nofer Institute of Occupati	336,00 €	15.220,00 €	9.044,00 €	10.200,00 €	27.880,00 €	8.200,00 €	7.400,00 €	78.280,00 €	78.280,00 €	1,97%
Vienna University of Techn	1.480,00 €	19.060,00 €	10.900,00 €	62.160,00 €	16.200,00 €	164.540,00 €	81.470,00 €	355.810,00 €	355.810,00 €	8,93%
City of Vienna - Environme	480,00 €	21.360,00 €	56.000,00 €	20.120,00 €	11.800,00 €	20.600,00 €	99.900,00 €	230.260,00 €	230.260,00 €	5,78%
Hungarian Meteorological S	336,00 €	11.504,00 €	52.580,00 €	22.296,00 €	72.420,00 €	52.600,00 €	48.400,00 €	260.136,00 €	260.136,00 €	6,53%
Charles University in Pragu	846,20 €	12.261,44 €	8.280,00 €	70.440,00 €	16.965,00 €	57.035,00 €	58.610,56 €	224.438,20 €	224.438,20 €	5,63%
Prague Institute of Planning	336,00 €	15.104,00 €	21.162,00 €	6.404,00 €	4.573,00 €	16.600,00 €	108.937,00 €	173.116,00 €	173.116,00 €	4,35%
Czech Hydrometeorological	336,00 €	11.208,00 €	14.884,00 €	25.798,00 €	20.510,00 €	21.900,00 €	13.700,00 €	108.336,00 €	108.336,00 €	2,72%
Research Centre of the Slov	352,00 €	23.902,01 €	8.970,14 €	58.829,50 €	39.514,35 €	28.000,00 €	7.900,00 €	167.468,00 €	167.468,00 €	4,20%
Municipality of Ljubljana	305,00 €	22.005,00 €	42.637,47 €	6.726,62 €	8.647,50 €	109.300,00 €	151.397,41 €	341.019,00 €	341.019,00 €	8,56%
Total	13.523,20 €	544.626,87 €	516.596,84 €	571.047,76 €	423.210,31 €	894.770,60 €	1.019.278,62 €	3.983.054,20 €		
WP Reference Total	13.523,20 €	544.626,87 €	516.596,84 €	571.047,76 €	423.210,31 €	894.770,60 €	1.019.278,62 €	3.983.054,20 €		
%	0,34%	13,67%	12,97%	14,34%	10,63%	22,46%	25,59%			

If applicable, please provide further comments on the budget

The definition of the budget has been based on the WP articulation in actions and tasks - needed to achieve the project's objectives - and on the project's GANTT. Each task has been associated to the corresponding expenditures, principally focusing on the technical actions: the 73% of the total project budget is in fact allocated to the "core" project actions (WP3, WP4, WP5, and WP6) whereas the 15% is related to the PM activities and the 12% to the communication and dissemination tasks.
The coherence between the activities and the related financial resources is reflected on the articulation of the budget allocated to partners - with a prevalence of the resources allocated to the LP, responsible for the PM, and a balanced breakdown among the other project partners. This reflects also the genuine character of the transnational partnership.The expenditures are based on "real costs" and calculated according to the CE application manual and control and audit guidelines

Textbox 391 you have 980 characters (max. 1.000 characters)

Table 7: Specification of budget line "External Expertise"

Work package 0: Preparation			
Description of "External expertise" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
External support for drafting the AF, coordinating the partnership and supporting partners in the definition of their involvement in the project, in terms of activities and relevant budget	0.1	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	3.000,00 €
External support for drafting the AF, coordinating the partnership and supporting partners in the definition of their involvement in the project, in terms of activities and relevant budget	0.2	PP4: Consortium for Coordination of Research Activities Concerning the Venice	2.000,00 €
Subtotal WP0			5.000,00 €

Work package 1: Management			
Description of "External expertise" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
External support Service appointed by LP for the benefit of all PPs: day-by-day coordination of the partnership, tools and procedures, help desk service, transnational events support, know-how transfer in managing EU project (Act.1.2)	1.2.2	LP: Regional Agency for Environmental Protection in Emilia-Romagna	78.301,47 €
External Independent Appraisal for the peer review along the project implementation: 1 intermediate and 1 final (Act.1.3)	1.3.2	LP: Regional Agency for Environmental Protection in Emilia-Romagna	4.000,00 €
External support for the financial and administrative management: accounting, reporting, payment claim,tenders preparation (Act.1.4)	1.4.1	LP: Regional Agency for Environmental Protection in Emilia-Romagna	90.000,00 €
External support for the Transnational Management Board (Project management of all project partners) (Act.1.2)	1.2.1	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	11.500,00 €
External support for the preparation and participation and follow up in n. 7 Project Steering Commitee (PSC) meetings (Act.1.3)	1.3.1	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	1.900,00 €
External support for the financial and administrative management: accounting, reporting, payment claim,tenders preparation (Act.1.4)	1.4.1	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	12.000,00 €
Costs for the First Level Control allocated on the basis of previous experience and following the information provided by the National Contact Points (Act.1.4)	1.4.2	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	5.625,05 €
Costs for the First Level Control allocated on the basis of previous experience and following the information provided by the National Contact Points (Act.1.4)	1.4.2	PP4: Consortium for Coordination of Research Activities Concerning the Venice	4.880,00 €
Costs for the First Level Control allocated on the basis of previous experience and following the information provided by the National Contact Points (Act.1.4)	1.4.2	PP5: Karlsruhe Institute of Technology	15.500,00 €
Costs for the First Level Control allocated on the basis of previous experience and following the information provided by the National Contact Points (Act.1.4)	1.4.2	PP6: Municipality of Stuttgart	3.740,00 €
Costs for the First Level Control allocated on the basis of previous experience and following the information provided by the National Contact Points (Act.1.4)	1.4.2	PP7: Meteorological Institute - University of Freiburg	9.000,00 €
Costs for the First Level Control allocated on the basis of previous experience and following the information provided by the National Contact Points (Act.1.4)	1.4.2	PP11: Vienna University of Technology - Department of Building Physics and Building	3.240,00 €
Costs for the First Level Control allocated on the basis of previous experience and following the information provided by the National Contact Points (Act.1.4)	1.4.2	PP12: City of Vienna - Environmental Department (MA 22)	5.240,00 €
External support for the financial and administrative management: accounting, reporting, payment claim,tenders preparation (Act.1.4)	1.4.1	PP17: Research Centre of the Slovenian Academy of Sciences and Arts	14.600,01 €

External support for the financial and administrative management: accounting, reporting, payment claim,tenders preparation (Act.1.4)	1.4.1	PP18: Municipality of Ljubljana	12.000,00 €
External support for day to day project management (act.1.2)	1.2.1	PP8: Institute of Geography and Spatial Organization, Polish Academy Of Sciences	4.000,00 €
Fulfilment of start up requirements: translation into czech language of AF	1.1.1	PP16: Czech Hydrometeorological Institute	1.091,49 €
Subtotal WP1			276.618,02 €

Work package 2: Communication			
Description of "External expertise" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Communication manager appointed by LP to support the LP in the general communication management	2.4.2	LP: Regional Agency for Environmental Protection in Emilia-Romagna	9.000,00 €
Support in the communication plan draft to be prepared at the beginning of the project as a tool for all the project communication outputs	2.4.1	PP2: Emilia Romagna Region. General Directorate Territorial and negotiated	15.000,00 €
Result Exploitation Action plan: a project follow up strategy guidelines to be prepared with the external support	2.4.3	PP2: Emilia Romagna Region. General Directorate Territorial and negotiated	10.000,00 €
Communication manager appointed by PP3 in order to support the whole partner's communication in close connection with the Communication manager leader, appointed by the PP2	2.4.2	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	5.000,00 €
Communication manager appointed by PP18 in order to support the whole partner's communication in close connection with the Communication manager leader, appointed by the PP2	2.4.2	PP18: Municipality of Ljubljana	5.000,00 €
Support for the development of local dissemination material	2.2.2	PP15: Prague Institute of Planning and Development	7.200,00 €
Subtotal WP2			51.200,00 €

Work package 3: Framework analysis			
Description of "External expertise" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
External support to define and draft the UHI knowledge review, focused on the CE region for stakeholders and project partners (Act.3.1)	3.1.1	LP: Regional Agency for Environmental Protection in Emilia-Romagna	15.000,00 €
Urban Planning rules: List of the Urban planning local and European Urban Planning rules, focusing the UHI related aspects (Act.3.1)	3.1.1	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	11.500,00 €
Collection of most relevant experiences on UHI with external support (Act.3.1)	3.1.4	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	9.000,00 €
Review focused on the correlations between UHI and climate changes, with external support	3.2.2	PP4: Consortium for Coordination of Research Activities Concerning the Venice	3.000,00 €
Support for the realisation of the forecasting model	3.2.1	PP4: Consortium for Coordination of Research Activities Concerning the Venice	7.633,00 €
Collection of most relevant experiences on UHI with external support	3.1.4	PP4: Consortium for Coordination of Research Activities Concerning the Venice	3.000,00 €
Subtotal WP3			49.133,00 €

Work package 4: Transnational Network and UHI assessment's tools			
Description of "External expertise" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Transnational Scientific Board (TSB): external support for the coordination of the whole network set up with the specialized actors. The task includs also the start up plan for the network	4.1.1	LP: Regional Agency for Environmental Protection in Emilia-Romagna	50.000,00 €
External support in the organisation of Local Working Groups	4.1.2	PP10: Nofer Institute of Occupational Medicine	5.000,00 €
Transnational Scientific Board (TSB): external support for the participation and coordination in the the network of specialized thematic actors of this partner. The task includes also the start up plan for the network	4.1.1	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	5.054,22 €
External support for UHI Assessment manual:Common methodology for data collection (incl. areas selection and data collection plans) and defintion of gold standards for the assessment of the UHI and the data sampling	4.2.2	PP4: Consortium for Coordination of Research Activities Concerning the Venice	14.000,00 €

Transnational Scientific Board (TSB): external support for the participation and coordination in the the network of specialized thematic actors of this partner. The task includes also the start up plan for the network	4.1.1	PP6: Municipality of Stuttgart	2.500,00 €
Transnational Scientific Board (TSB): external support for the participation and coordination in the the network of specialized thematic actors of this partner. The task includes also the start up plan for the network	4.1.1	PP13: Hungarian Meteorological Service	2.500,00 €
CE Atlas: support for the Web based GIS implementation of UHI maps for the selected urban areas	4.3.4	PP13: Hungarian Meteorological Service	9.000,00 €
Transnational Scientific Board (TSB): external support for the participation and coordination in the the network of specialized thematic actors of this partner. The task includes also the start up plan for the network	4.1.1	PP15: Prague Institute of Planning and Development	2.500,00 €
Transnational Scientific Board (TSB): external support for the participation and coordination in the the network of specialized thematic actors of this partner. The task includes also the start up plan for the network	4.1.1	PP12: City of Vienna - Environmental Department (MA 22)	2.000,00 €
External support for set up and implementation of a web database (Data collection on UHI in each region)	4.3.1	PP4: Consortium for Coordination of Research Activities Concerning the Venice	6.411,00 €
Subtotal WP4			98.965,22 €

Work package 5: Mitigation and adaptation strategies			
Description of "External expertise" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
External support for description of the different Urban areas: support in the documentation of the common and differential features of the UHI effects in the selected regions	5.1.1	LP: Regional Agency for Environmental Protection in Emilia-Romagna	7.500,00 €
External support for adaptation: area specific portfolio; documentation of the common portfolio of adaptation strategies for the selected regions	5.3.4	LP: Regional Agency for Environmental Protection in Emilia-Romagna	9.700,00 €
Support for Urban areas planning guidelines	5.3.1	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	2.000,00 €
External support for mitigation: Area specific portfolio. Support for the documentation of the common portfolio of mitigation strategies for the selected regions	5.3.3	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	10.700,00 €
External support for adaptation: area specific portfolio; documentation of the common portfolio of adaptation strategies for the selected regions	5.3.4	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	2.000,00 €
External support for adaptation: area specific portfolio; documentation of the common portfolio of adaptation strategies for the selected regions	5.3.4	PP4: Consortium for Coordination of Research Activities Concerning the Venice	14.560,33 €
External support for Urban areas planning guidelines	5.3.1	PP18: Municipality of Ljubljana	18.000,00 €
External support for adaptation: area specific portfolio; documentation of the common portfolio of adaptation strategies for the selected regions	5.3.4	PP18: Municipality of Ljubljana	20.000,00 €
External support for mitigation: Area specific portfolio. Support for the documentation of the common portfolio of mitigation strategies for the selected regions	5.3.3	PP18: Municipality of Ljubljana	35.000,00 €
External support for description of the different Urban areas: support in the documentation of the common and differential features of the UHI effects in the selected regions	5.3.1	PP4: Consortium for Coordination of Research Activities Concerning the Venice	5.000,00 €
External support for description of the different Urban areas: support in the documentation of the common and differential features of the UHI effects in the selected regions	5.3.1	PP8: Institute of Geography and Spatial Organization, Polish Academy Of Sciences	10.000,00 €
External support for adaptation: area specific portfolio; documentation of the common portfolio of adaptation strategies for the selected regions	5.3.4	PP8: Institute of Geography and Spatial Organization, Polish Academy Of Sciences	10.000,00 €
External support for collection of weather data for the UHI modeling	5.2.2	PP11: Vienna University of Technology - Department of Building Physics and Building	1.000,00 €
Subtotal WP5			145.460,33 €

Work package 6: Pilot and capitalization actions for limiting UHIs effects			
Description of "External expertise" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
External support for the realisation of pilot action related to the integration of mitigation strategies - feasibility study concerning the development / renewal of an urban area in the Bologna/Modena macro urban area	6.2.2	PP2: Emilia Romagna Region. General Directorate Territorial and negotiated	88.000,00 €
Act.6.2 External support for the realisation of pilot action in the area of Bologna/Modena for the practical integration of adaptation strategies on risk management and prevention instruments	6.2.3	PP2: Emilia Romagna Region. General Directorate Territorial and negotiated	5.000,00 €

Act.6.1 External support for the design and development of a Decision support system - DSS and presentation/sharing of it among the concerned partners (PP2 is the Partner activity's coordinator)	6.1.2	PP2: Emilia Romagna Region. General Directorate Territorial and negotiated	50.000,00 €
Act.6.1 External support for Decision support system - DSS adaptation and application by the Veneto Region	6.1.1	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	11.600,00 €
External support for the realisation of pilot action related to the integration of mitigation strategies - feasibility study concerning the development / renewal of an urban area in the Venice/Padua macro urban area	6.2.2	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	58.575,42 €
Act.6.2 External support for the realisation of pilot action in the area of Venice/Padua for the practical integration of adaptation strategies on risk management and prevention instruments	6.2.3	PP3: Veneto Region - Territorial Planning, Strategic and Cartography regional	13.000,00 €
Act.6.2 External support for the realisation of pilot action related to the integration of mitigation strategies - concerning the development / renewal of an urban area in the Venice/Padua macro urban area	6.2.2	PP4: Consortium for Coordination of Research Activities Concerning the Venice	4.000,00 €
Act.6.2 External support for the realisation of pilot action in the area of Venice/Padua for the practical integration of adaptation strategies on risk management and prevention instruments	6.2.3	PP4: Consortium for Coordination of Research Activities Concerning the Venice	6.000,00 €
Act.6.2 External support for the realisation of pilot action in the area of Lodz/Warsaw for the practical integration of adaptation strategies on risk management and prevention instruments	6.2.3	PP8: Institute of Geography and Spatial Organization, Polish Academy Of Sciences	8.500,00 €
Act.6.1 External support for Decision support system - DSS adaptation and application by the Municipality of Vienna	6.1.1	PP12: City of Vienna - Environmental Department (MA 22)	6.500,00 €
Act.6.2 External support for the realisation of pilot action related to the integration of mitigation strategies - feasibility study concerning the development / renewal of an urban area in Wien	6.2.2	PP12: City of Vienna - Environmental Department (MA 22)	68.000,00 €
Act.6.2 External support for the realisation of pilot action in the area of Wien for the practical integration of adaptation strategies on risk management and prevention instruments	6.2.3	PP12: City of Vienna - Environmental Department (MA 22)	24.000,00 €
Act.6.2 External support for the realisation of pilot action in the area of Budapest for the practical integration of adaptation strategies on risk management and prevention instruments	6.2.3	PP13: Hungarian Meteorological Service	47.000,00 €
Act.6.1 External support for Decision support system - DSS adaptation and application by the city of Stuttgart	6.1.1	PP6: Municipality of Stuttgart	20.000,00 €
Act.6.2 External support for the realisation of pilot action in the area of Stuttgart for the practical integration of adaptation strategies on risk management and prevention instruments	6.2.3	PP6: Municipality of Stuttgart	11.000,00 €
Act.6.2 External support for the realisation of pilot action in the area of Ljubljana for the practical integration of adaptation strategies on risk management and prevention instruments	6.2.3	PP18: Municipality of Ljubljana	49.000,00 €
Act.6.1 External support for Decision support system - DSS adaptation and application by the City of Prague	6.1.1	PP15: Prague Institute of Planning and Development	10.000,00 €
Act.6.2 External support for the realisation of pilot action related to the integration of mitigation strategies - feasibility study concerning the development / renewal of an urban area in Prague	6.2.2	PP15: Prague Institute of Planning and Development	77.600,00 €
Act.6.2 External support for the realisation of pilot action in the area of Prague for the practical integration of adaptation strategies on risk management and prevention instruments	6.2.3	PP15: Prague Institute of Planning and Development	10.000,00 €
Act.6.1 External support for Decision support system - DSS adaptation and application by the Municipality of Ljubljana	6.1.1	PP18: Municipality of Ljubljana	12.047,41 €
Act.6.2 External support for the realisation of pilot action related to the integration of mitigation strategies - feasibility study concerning the development / renewal of an urban area in the Ljubljana	6.2.2	PP18: Municipality of Ljubljana	20.000,00 €
Subtotal WP6			599.822,83 €

Table 8: Specification of budget line "Equipment"

Work package 1: Management			
Description of "Equipment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Purchase of PCs and monitors	1.2.1	PP7: Meteorological Institute - University of Freiburg	3.000,00 €
2 licences of Creative Standard and 1 licence of Acrobat	1.2.1	PP8: Institute of Geography and Spatial Organization, Polish Academy Of Sciences	1.500,00 €
PCs necessary for project management and financial management with related Microsoft Office licenses	1.4.1	PP10: Nofer Institute of Occupational Medicine	3.500,00 €
External Hard disks: digital archives of the project data	1.2.1	PP14: Charles University in Prague, Faculty of Mathematics and Physics	400,00 €

Subtotal WP1			8.400,00 €

Work package 2: Communication			
Description of "Equipment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP2			0,00 €

Work package 3: Framework analysis			
Description of "Equipment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP3			0,00 €

Work package 4: Transnational Network and UHI assessment's tools			
Description of "Equipment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP4			0,00 €

Work package 5: Mitigation and adaptation strategies			
Description of "Equipment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP5			0,00 €

Work package 6: Pilot and capitalization actions for limiting UHIs effects			
Description of "Equipment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP6			0,00 €

Table 9: Specification of budget line "Investment"

Please split the costs into works and investment-related equipment

Work package 3: Framework analysis			
Description of "Investment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount

Subtotal WP3	0,00 €

Work package 4: Transnational Network and UHI assessment's tools			
Description of "Investment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP4			0,00 €

Work package 5: Mitigation and adaptation strategies			
Description of "Investment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Software licenses necessary for the modelling activities (compilers for running the models, maintenance of Intel FORTRAN, ArchGIS for output postprocessing and analysis)	5.2.2	PP14: Charles University in Prague, Faculty of Mathematics and Physics	2.055,00 €
Subtotal WP5			2.055,00 €

Work package 6: Pilot and capitalization actions for limiting UHIs effects			
Description of "Investment" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Software licences necessary for the modelling activities (compilers for running the models, maintenance of IDL, COMSOL, SPSS and MATLAB for output postprocessing and analysis)	6.2.3	PP14: Charles University in Prague, Faculty of Mathematics and Physics	4.500,00 €
Subtotal WP6			4.500,00 €

Table 10: Specification of budget line "Other"

Work package 1: Management			
Description of "Other" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP1			0,00 €

Work package 2: Communication			
Description of "Other" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP2			0,00 €

Work package 3: Framework analysis			
Description of "Other" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP3			0,00 €

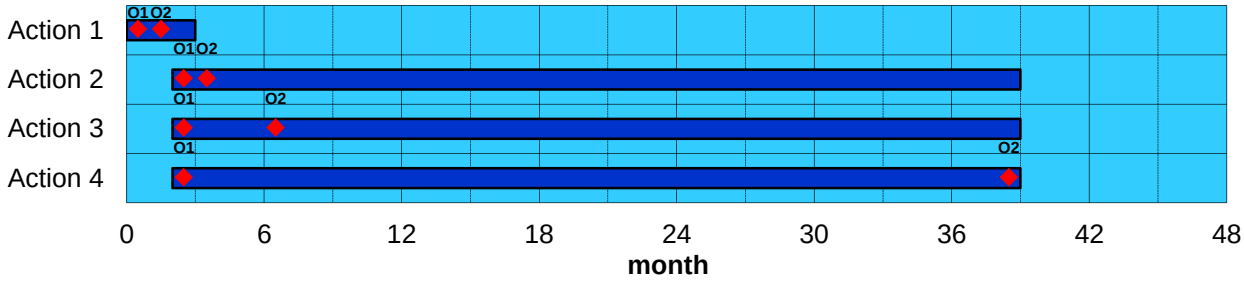
Work package 4: Transnational Network and UHI assessment's tools			
Description of "Other" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP4			0,00 €

Work package 5: Mitigation and adaptation strategies			
Description of "Other" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP5			0,00 €

Work package 6: Pilot and capitalization actions for limiting UHIs effects			
Description of "Other" to be subcontracted (max. 300 characters)	No of corr. output	Contracting partner	Amount
Subtotal WP6			0,00 €

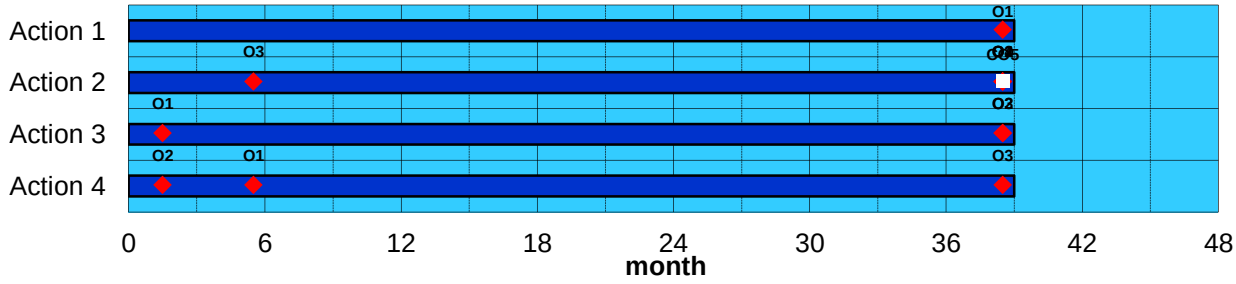
Timeline of Work Packages

Work package 1		
	Start Date	End Date
Action 1	1	3
Action 2	3	39
Action 3	3	39
Action 4	3	39



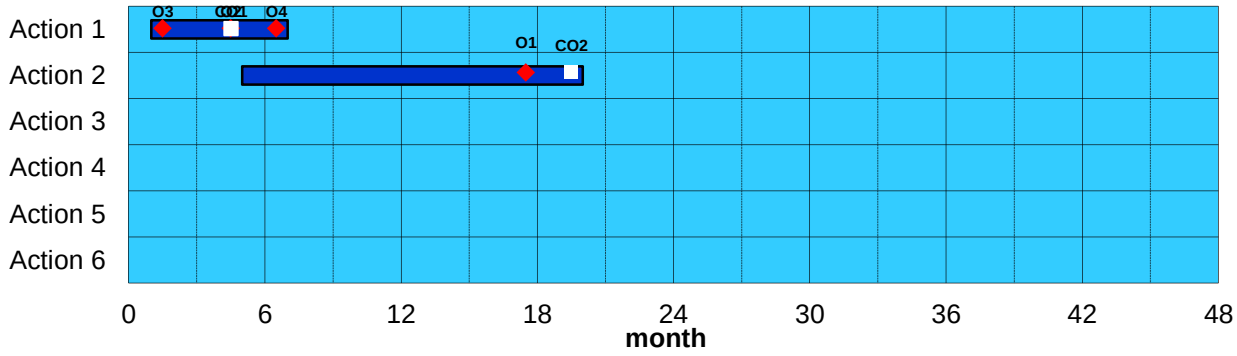
Budgets per Period	55.418,90 €	86.763,82 €	89.963,82 €	86.763,82 €	116.493,14 €	109.223,37 €	0,00 €	0,00 €

Work package 2		
	Start Date	End Date
Action 1	1	39
Action 2	1	39
Action 3	1	39
Action 4	1	39



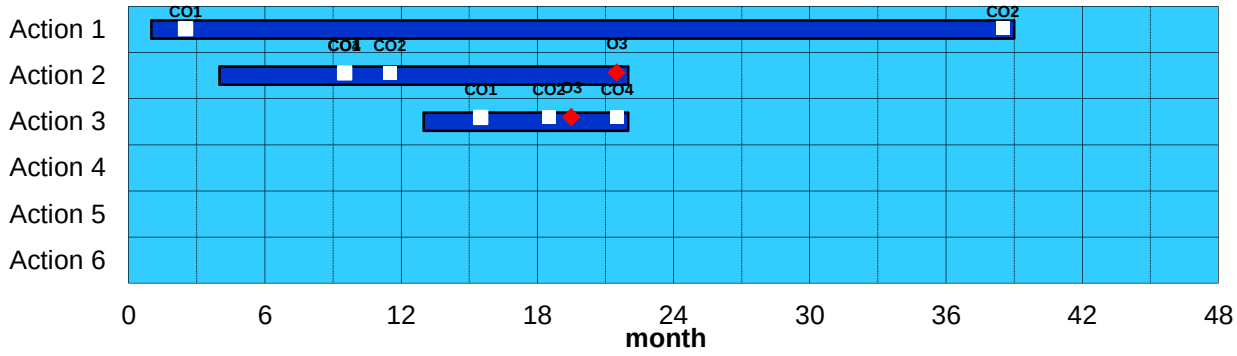
Budgets per Period	93.233,75 €	23.933,75 €	92.482,25 €	44.269,75 €	121.991,20 €	140.686,14 €	0,00 €	0,00 €

Work package 3		
	Start Date	End Date
Action 1	2	7
Action 2	6	20
Action 3	0	0
Action 4	0	0
Action 5	0	0
Action 6	0	0



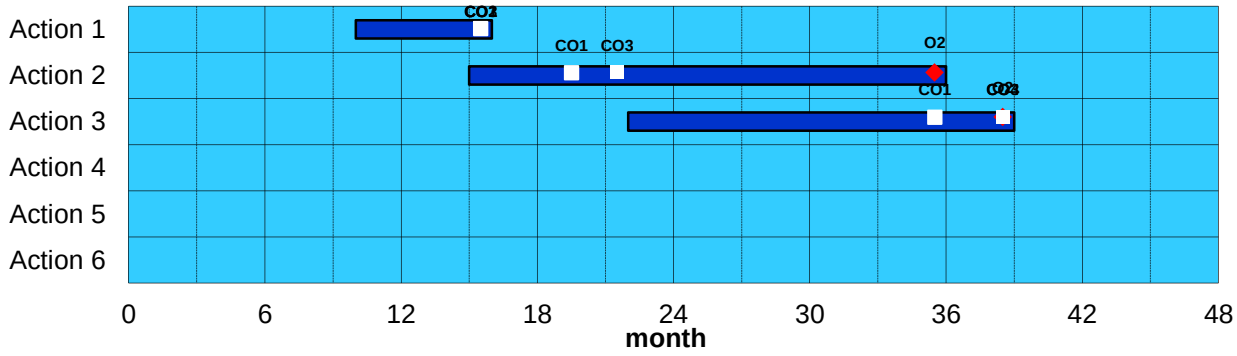
Budgets per Period	293.622,09 €	170.919,18 €	106.506,49 €	0,00 €	0,00 €	0,00 €	0,00 €	0,00 €

Work package 4		
	Start Date	End Date
Action 1	2	39
Action 2	5	22
Action 3	14	22
Action 4	0	0
Action 5	0	0
Action 6	0	0



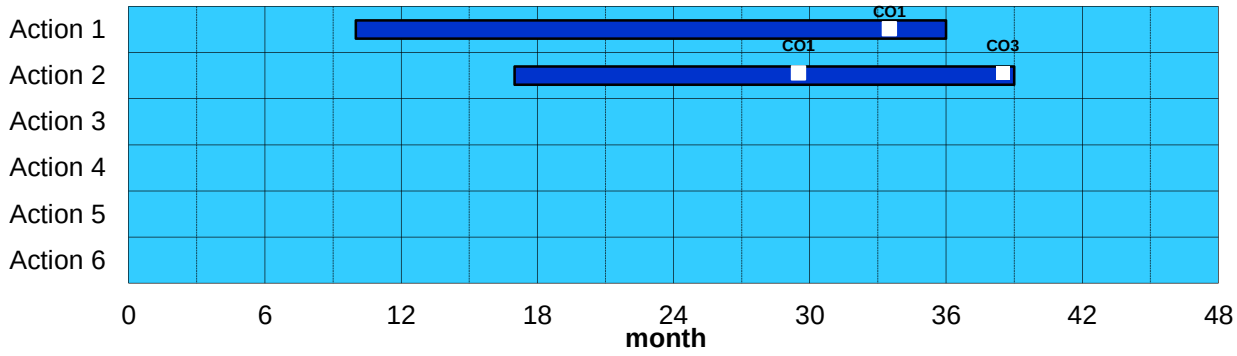
Budgets per Period	45.888,07 €	99.483,26 €	171.908,26 €	60.457,97 €	33.373,97 €	12.098,78 €	0,00 €	0,00 €

Work package 5		
	Start Date	End Date
Action 1	11	16
Action 2	16	36
Action 3	23	39
Action 4	0	0
Action 5	0	0
Action 6	0	0



Budgets per Period	0,00 €	52.800,00 €	234.947,61 €	465.025,71 €	94.766,00 €	47.231,28 €	0,00 €	0,00 €

Work package 6		
	Start Date	End Date
Action 1	11	36
Action 2	18	39
Action 3	0	0
Action 4	0	0
Action 5	0	0
Action 6	0	0



Budgets per Period	0,00 €	0,00 €	14.288,31 €	267.892,36 €	447.803,35 €	289.294,60 €	0,00 €	0,00 €

N. Proposta: PDTD-2014-231 del 26/03/2014

Centro di Responsabilità: Direzione Tecnica

OGGETTO: Direzione Tecnica. Progetto 3CE292P3 "Development and application of mitigation and adaptation strategies and measures for counteracting the global Urban

PARERE CONTABILE

Il sottoscritto Dott. Bacchi Reggiani Giuseppe, Responsabile dell'Area Bilancio e Controllo Economico, esprime parere di regolarità contabile ai sensi del Regolamento Arpa sul Decentramento amministrativo.

Data 01/04/2014

Il Responsabile dell'Area Bilancio e
Controllo Economico