

D6.2 Research Seed Projects launched by SCC VI

I. Research Seed Project A

Increasing the resilience of sensible groups to the effect of heat waves in European cities, in a Climate Change scenario.

A. Objectives

- 1 – Mapping and forecasting of the probability of occurrence of heat waves
- 2 – Definition of suitable indicators to generate alerts
- 3 – Implementation and testing of a Monitoring Pilot
- 4 – Guidelines and corrective measures to mitigate the impact of heat waves

B. Workplan

- Task 1 – Literature review
- Task 2 – Installation of Monitoring Pilot
- Task 3 – Collection of physical and subjective data
- Task 4 – Data processing and analysis
- Task 5 – Writing of Guidelines and Report

C. Gantt Chart

	M13-M15	M16-M18	M19-M21	M22-M24	M25-M27	M28-M30	M31-M33	M34-M36
Task 1								
Task 2								
Task 3								
Task 4								
Task 5								



D. Initial Research Team

University of Coimbra	Manuel Gameiro da Silva Coordinator of WP6), Full Professor, PhD (Mech Engng) Adélio Rodrigues Gaspar, Associate Professor (Mech Engineering) Luisa Dias Pereira, Researcher, PhD (Sustainable Energy Systems) Eugénio Rodrigues, Researcher, PhD (Sustainable Energy Systems) Nazanin Azimi Fereidani, PhD Student (Sustainable Energy Systems) WP6 Virtual Institute Research Grant holder (call already launched) Msc and Phd Students
University of Iasi	Mihai Buhai, Prof Faculty of Geography and Geology Msc and Phd Students
University of Jena	GIScience Group: Prof. Dr. Alexander Brenning, Mrs. Bettina Böhm (coordination of WP6 activities at Jena university, coordination of GIScience outreach activities)
University of Poitiers	Myriam Lazard (Associate Prof., HDR) Julien Djeumegni (Ph D Student) Renato Barbosa Esteves (Ph D Student)
University of Turku	Jukka Kaiko, Prof of Geography Msc and Phd Students

E. Foreseen indicators

Indicators	
Presentations in conferences	3
Master Dissertations	1
Scientific papers	2
Seminars / workshops	1
Free mobility among the universities (physical, virtual, blended)	5

F. Team expertise / Research areas

Expertise	University of Coimbra	University of Iasi	University of Jena	University of Poitiers	University of Turku
Indoor environmental quality. Sustainable built environment, Energy markets and policies	X				
Urban Planning, Spatial Analysis, Sustainable Tourism, Water Quality		X			
Spatial Analysis, Geomorphology, Geography, Regional Innovation, Human Geography, Physical Geography			X		
Science & Tech of the built environment. Transient heat transfer simulations of buildings				X	
Geography, Global Information Systems					X

II. Research Seed Project B

Preservation and retrofitting of historical university buildings with relevant cultural heritage

A. Objectives

- 1 – Identifying urban planning, environmental and sustainable development Laws and Methods
- 2 – Expansion of knowledge-based conservation of the historical heritage, sustainable reuse and retrofitting
- 3 – Development of heat transfer simulations of buildings
- 4 – Guidelines and corrective measures to improve Indoor environment and energy efficiency of historical buildings

B. Workplan

Task 1 – Literature review

Task 2 – Selection, analysis and characterization of a case-study, systems and contents.
Building and urban integration.

Task 3 – Collection of physical and subjective data

Task 4 – Data processing, building simulation and analysis

Task 5 – Writing of Guidelines and Report

C. Gantt Chart

	M13-M15	M16-M18	M19-M21	M22-M24	M25-M27	M28-M30	M31-M33	M34-M36
Task 1								
Task 2								
Task 3								
Task 4								
Task 5								

D. Foreseen indicators

Indicators	
Presentations in conferences	3
Master Dissertations	1
Scientific papers	2
Seminars / workshops	1
Free mobility among the universities (physical, virtual, blended)	5

E. Team expertise/Research areas

Expertise	University of Salamanca	University of Pavia	University of Poitiers	University of Coimbra
Law and political science. Sustainability, urban planning, urban security and public governance	X			
Architecture Technology. Sustainable reuse of historical buildings, within a multidisciplinary approach		X		
Science & Tech of the built environment. Transient heat transfer simulations of buildings (Comfie Pleiades software)			X	
Indoor environmental quality. Energy efficiency of buildings and Univ. Campus				X

F. Research team

Team Members	University of Salamanca	University of Pavia*	University of Poitiers	University of Coimbra
Juan José Rastrollo (researcher - teacher)	X			
Agustin E. Ferraro (researcher - teacher)	X			
Prof. Marco Morandotti (Full professor, building technologies and sustainable reuse)		X		
Prof. Anna Magrini, (Full professor, energy retrofiting)		X		
Prof. Roberto De Lotto (Associate professor, urban planning)		X		
Prof. Daniela Besana (Associate professor, building technologies and sustainable reuse)		X		
Eng. Elisabetta Dori (PhD student)		X		
Myriam LAZARD (Associate Prof., HDR)			X	
Antonio Jaomiary (Assistant Prof -Madagascar)			X	
Marie Ferru (Associate Prof)			X	
Diana Cheung (Associate Prof)			X	
Jérôme Meric (Prof., IAE)			X	

Julien Djeumegni (PhD student)			X	
Renato Barbosa Esteves (PhD student)			X	
Manuel Carlos Gameiro da Silva (Full professor)				X
Luisa Dias Pereira (Researcher, PhD)				X
Nuno Baía Saraiva (PhD student)				
WP6 – PhD Grant holder in Sustainable Cities or similar				X

**The group may be expanded according to specific activities, including skills related to history of architecture and survey and modelling.*