Title of Project	Towards an optimisation of urban planning and architectural parameters for
	energy use minimisation in Mediterranean cities
Project Acronym	TOPEUM
Funding Program	Strategic. Networking of RDI Programmes in. Construction and Operation of Build-
	ings
Project Identifier	URBANNET
Total Budget	≈ 400000€
Starting – Ending Date	03/2009-02/2012
Consortium	1. University of Cyprus, UCY; Coordinator (CY)
	2. Högskolan i Gävle (SW)
	3. Bulgarian Academy of Science - National Institute of Meteorology and Hydrol-
	ogy, NIMH (BG)
	4. EXA-High Performance Computing (CY)
	5. ATLANTIS (CY)
Project Objectives	The main objective of the project was to investigate the influence of different ur-
	banization characteristics, such as the geometry and density of buildings within a
	city, as well as of the building materials, on the intensity of the urban heating effect,
	for the case of a typical city in Cyprus. The key goal of the proposed project was
	to improve the scientific understanding of how land cover changes associated with
	urbanization in Southern Europe, affect local climate, surface energy flux, and air
	quality characteristics. Allied with this goal was the prospect that the results from
	this research would be applied by urban planners, environmental managers and
	other decision-makers, for determining how urbanization has impacted the climate
	and overall environment and in order to promote sustainable development.
Work Packages  External References	WP1: Project Management
	WP2: Identification of representative urban canopy areas
	WP3: Review of the urban heat island studies in the participating countries
	WP4: Wind tunnel measurements of velocity field
	WP5: Field measurement of heat flux at buildings
	WP6: Computational Modelling of urban air flow without and with heat transfer
	WP7: Identification of best practices in urban planning
	WP8: Cost Benefit Analysis
	WP9: Project Dissemination and Exploitation of Results