

the oralos project Green and blue space adaptation for urban

Anna Celenza – Province of Genoa Land planning Department

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life:







What is GRaBS?

Green and Blue Space Adaptation for Urban Areas and Eco Towns



three-year project funded under





partners from 8 EU member states

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vest Regional pment

sity of ester

(Lead er)

n Borough



City of Malmo

Klaipeda University Coastal Research and Planning Institute

Regional
Environmental
Centre for Eastern
Europe (Slovakia)

Province of Styria

Municipality of





here's the Province of Genoa

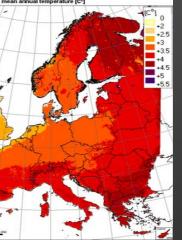


The Province is an intermediate public administrative entity between Municipality and Region.

The Province of Genoa incorporates 67 municipalities and its main role is the







why are we doing it?

IPPC 4th Assessment report (2007) found:

- Climate-related hazards will mostly increase throughout Europe, according to regional geography
- Flash floods are expected to increase throughout Europe and up to 1.6 million people annually will be threatened by sealevel rise and coastal flooding
- Southern Europe and Mediterranean





al temperatures will continue to rise, caus Rising sea levels weather events ncreased frequency and intensity oods, droughts, heat waves) ite change events have a major on households. ructure and vulnerable members of o ty (elderly, disabled, etc.) as well as a major economic impact g. direct impacts on human health – summer 2003 heatwave buthern Europe contributed to premature deaths of more than 0,000 people



the case for adaptation

For the first time, wide-ranging impacts of changes in current climate have been documented...Nearly all ropean regions are anticipated to be negatively affected by some future impacts of climate change" (Source: IPCC, Working Group II Report, 2007)

ne impacts of global warming are already under way reducing emissions only part of the challenge

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why are we doing it?

- o climate change will make cities hotter and drier in summer, and wetter in winter
- effects will be more dramatic in cities that suffer from Urban Heat Island effect and poor drainage

Designers, architects and planners have







GRaBS overall aim

'to ensure existing and new mixed use urban development is adapted to the impact of climate change through improving local and regional planning policy to put in place green and blue infrastructure;



and to facilitate the much needed exchange of knowledge and experience and the actual transfer





GRaBS 5 key objectives

- 1. increase partner expertise on use of green and blue infrastructure
- 2. identify and influence regional planning policy and delivery ways for adaptation
- 3. develop and use a risk and vulnerabilities assessment tool
- 4. develop regional and local adaptation action plans including a high level policy statement







Project Activities

Database of Good Practice Case Studies

Vulnerability/Risk Assessment Tool

ition Research

and Practice

ide GRaBS)

Communication and Dissemination Outputs

Adaptation Action
Plans and High Level
Policy Statements

- Concrete actions
- Delivery mechanisms

•Measurable targets

Mentoring and Staff Exchange Programme

Thematic Seminars and Study Visits

Panel of EU Experts on Climate Change Adaptation

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laptation action plans



cycle

- A key output = Adaptation Action Plan, which will include a High Level Policy Statement
- Each Adaption Action Plan will contain a SWOT analysis, the results generated by the Climate Risk Assessment Tool and





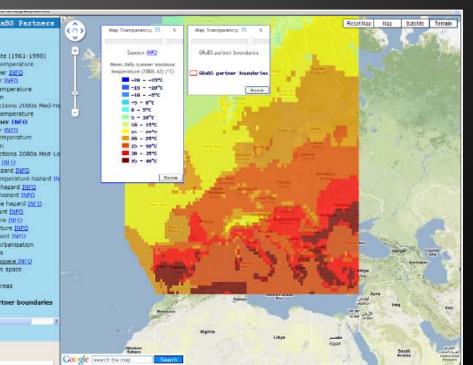
/OT: some common themes

- Good and multi-discipline level of climate change expertise available
- Lack of political awareness need 'champions' to drive for change
- Focus more towards mitigation over adaptation
- 'Hooks' for adaptation due to multifunctional nature of green and blue space, eg attractiveness for tourism/economic competitiveness
- EU Directives as levers e.g. SEA/Floods/Habitats Directives, and Adaptation White Paper/Aarhus Convention
- Economic climate (cut backs) + political climate (e.g. elections)

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sessment tool



- Each AAP will contain the results generated by the Climate Change Risk & Vulnerability Assessment Tool
- Partners piloted and tested the tool – now ready to apply
- Used for e.g.: AAP development, community engagement events, mapping vulnerable groups and infrastructure

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exchanging experience & network development

Mentoring visits, workshops, thematic seminars, study visits:

- facilitated contacts
- opportunity to build a stronger consensus
- opportunity to actively involve





od practice case studies selection



Case study database

Aleksandra Kazmierczak and Jeremy Carter (University of Manchester)

· Augustenborg in Malmo

. London Borough of Sutton

· North West England

Basel

Chicago

Nagoya

- Toronto
- The Netherlands
- Stuttgart
- Slovakia • Seattle
- New Orleans

- Dorset



Adaptation to climate change using green and blue infrastructure: A database of case studies (Full Report) (Executive Summary)

The aim of this database of case studies is to showcase climate change adaptation approaches, with a particular emphasis on those relating to green and blue infrastructure. The database is an important deliverable of the GRaBS project. Rather than focus on the physical elements of the case studies, the database describes in detail the process that have supported the implementation of adaptation responses in a range of urban areas across the world. The case studies were selected based on factors influencing the success of the development and implementation of adaptation responses as identified in previous studies, and on the analysis of strengths, weaknesses, threats and opportunities faced by the GRaBS parter organisations (see chapter 2 of the main report).

The 15 in-depth case studies are as follows:

Database Practice Good **Case Studies** produced the University of Manchester available on the **GRaBS** website





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rther information

RaBS project

p://www.grabs-eu.org

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Carlton House Terrace

44 (0)00 7000 0000