

Special Programme - The Streams of Graz



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Brooks of Graz

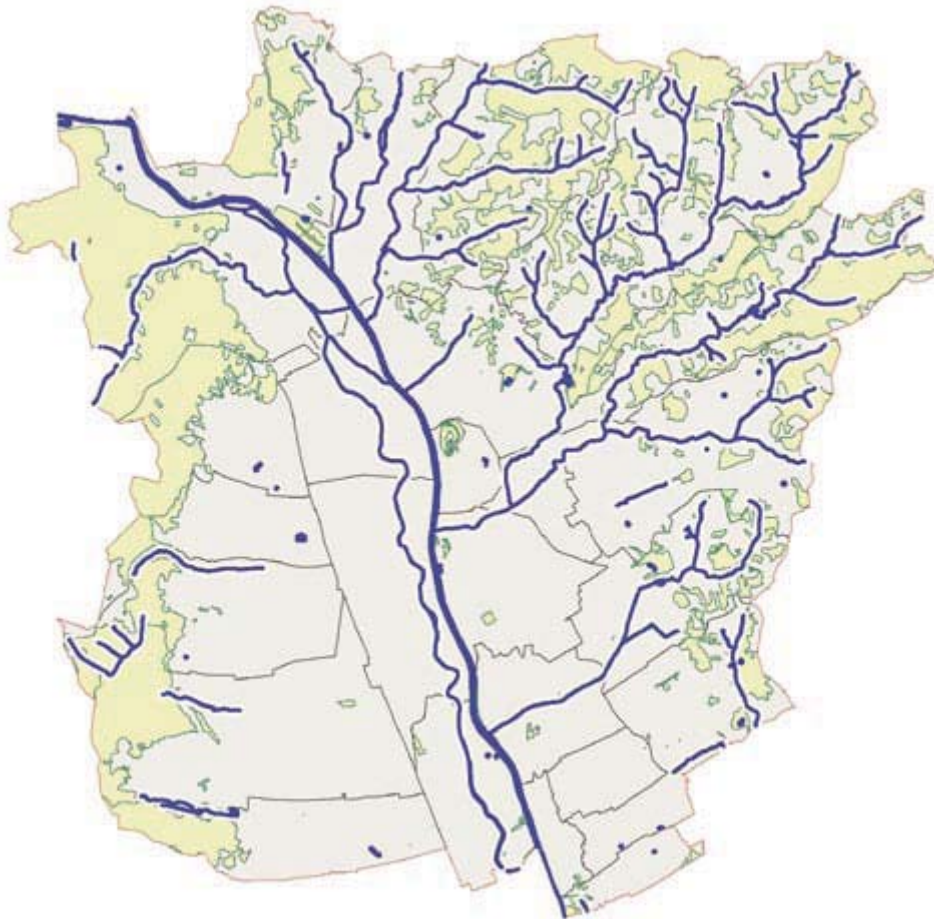


52 brooks

10 torrents

water network: 270 km
within the city: 125 km

catchment area: 140 km²
within the city: 70 km²



Mur

RISK FACTORS

- Population Increase
- Limited Space
- Expansion of the road networks
- Ecological functional capability is restricted or rather not existing any more
- Casing of the streams in sections
- Piping
- Some brooks flow into the sewer system
- **Low Awareness of Floods**
- **Flood discharge capacity is insufficient**



[Source: Hornich, 27thUrban Data Mangement Symposium, June 2009]

Flood events in Graz



2005 - Gabriachbach

[Source: Hornich, Wiener, 4. Grazer Bachenquete, 2007]



2009 - Schöckelbach

[Source: Grazer Berufsfeuerwehr]

Floods 2009 – City of Graz (17.07 + 29.08. 2009)



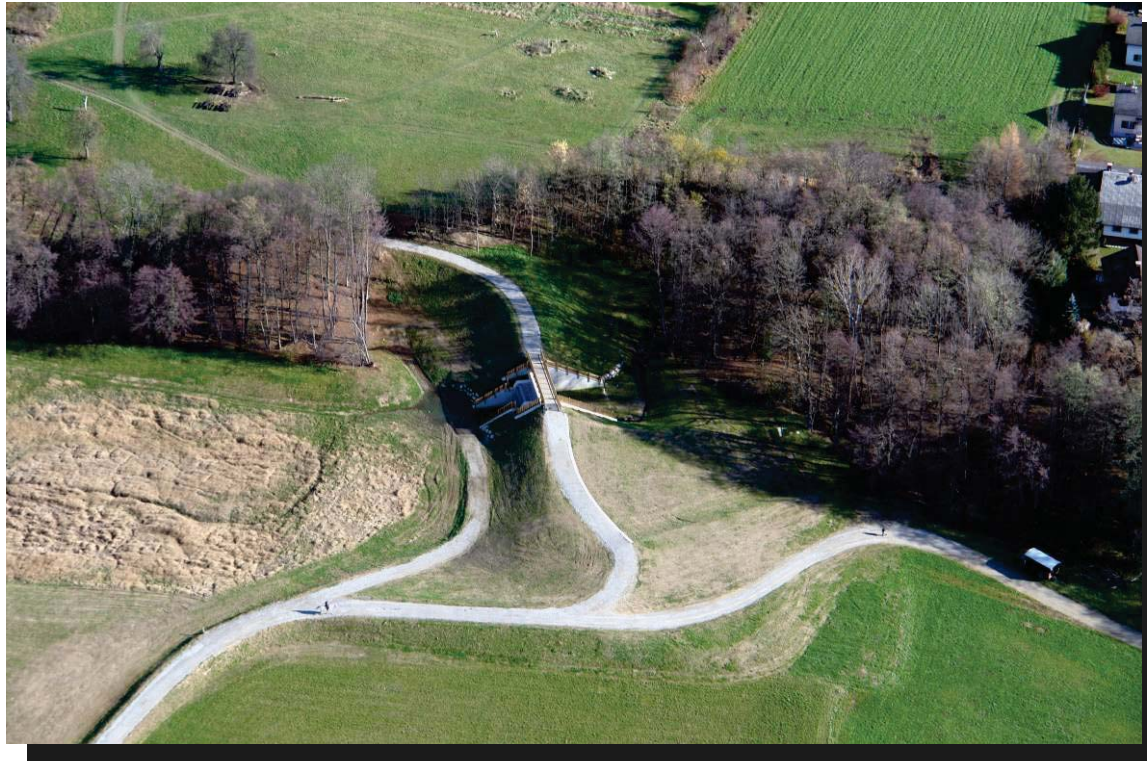
Programme – Streams of Graz



Total costs: 65 million €

Structural measures

Example: Retention basin Gabriachbach



[Source: Hornich, 27thUrban Data Mangement Symposium, June 2009]



Sustainable Strategies of Urban Flood Risk Management with non-structural Measures to cope with the Residual Risk



VISION

To develop strategic integration of research at the national funding and policy development levels within Europe to provide knowledge and understanding for the sustainable management of flood risks.

Project partners SUFRI

4 Partners

- Austria
- Germany
- Italy
- Spain



Involved Institutions

- Graz University of Technology ⇒ Lead Partner
- Dresden University of Technology
- University of Pavia
- Polytechnical University of Valencia
- Polytechnical University of Catalonia
- University of Graz



Kick-Off-Meeting SUFRI, Graz 27. – 28.07.2009

Work packages

WP1

Project Management and Coordination

WP2

Advanced Warning Systems of Small Urban Catchment Areas

WP3

Residual Risk and Vulnerability Analysis

WP4

Risk Communication

WP5

Optimization of Disaster Control Management

WP6

Use and national Comparision of Disaster Control Management

5 Case Studies



D	Dresden	Germany
G	Graz	Austria
L	Lodi	Italy
A	Arenys de Mar	Spain
V	Valencia/Benaguasil	Spain

www.sufri.tugraz.at

Final conference:
Sept. 2011 in Graz