River Corridor and Watershed Management Plans: The Experience of the Autonomous Province of Bolzano – South Tyrol (Italy)







Flussraum Mittleres Eisacktal Area Fluviale Media Valle Isarco









IL PASSIRIO PER MERANO AREE RICREATIVE FLUVIALI

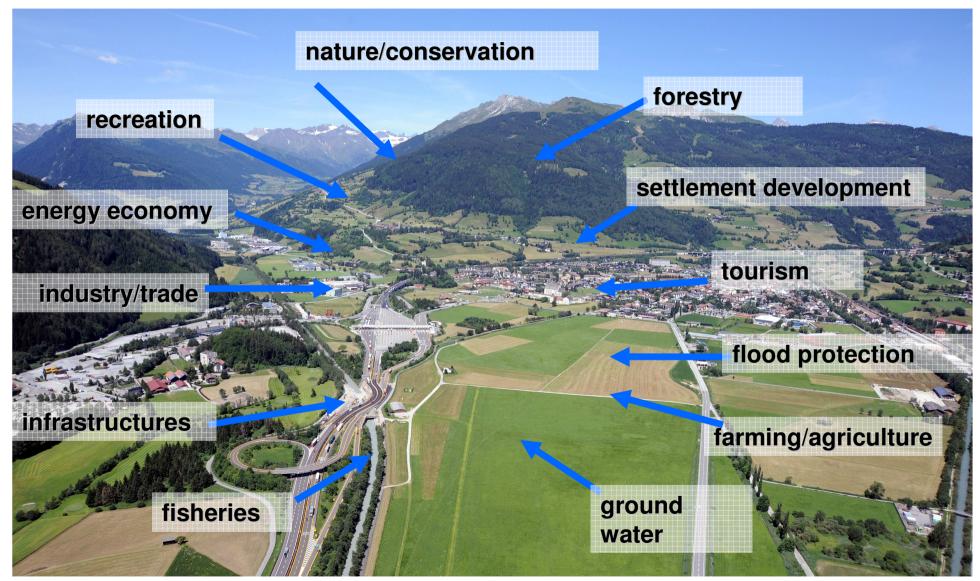
6th International Conference "Water in the Alps", October 12th 2016, Herrenchiemsee

Willigis Gallmetzer

SÜDTIROL



Relevant land use demand - stakeholders

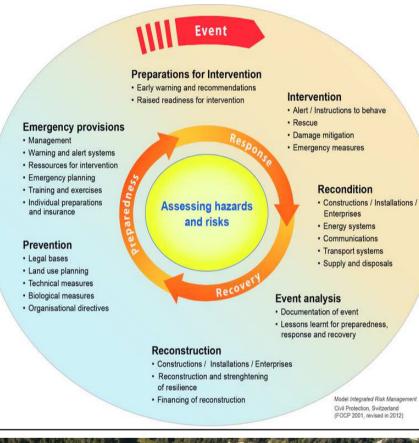


Strategies for living with natural hazards

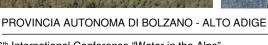


















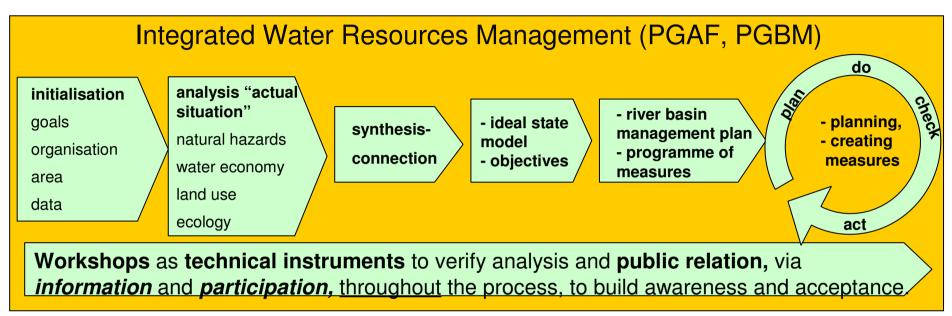


AUTONOME PROVINZ BOZEN - SÜDTIROL



PROVINCIA AUTONOMA DI BOLZANO - ALTO ADIGE

Project timing process and structure











Tools: logo, environment education bus, information events, forum, technical lectures, excursions, media, final celebration with public (families, local people) participation, leaflets and PPT presentations in the municipalities.

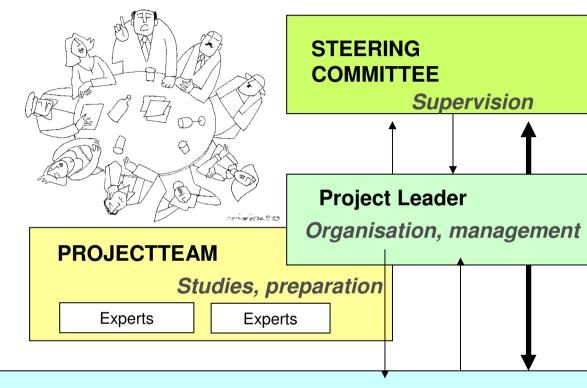
Project organization

adaptation between different sectors

considering interfaces

transparency

acceptance



FORUM

Information, participation, consultation, involvement, agreement, evaluation /

Task forces, representatives of associations, administration and of local institutions

AUTHORITIES

Decision making, implementation

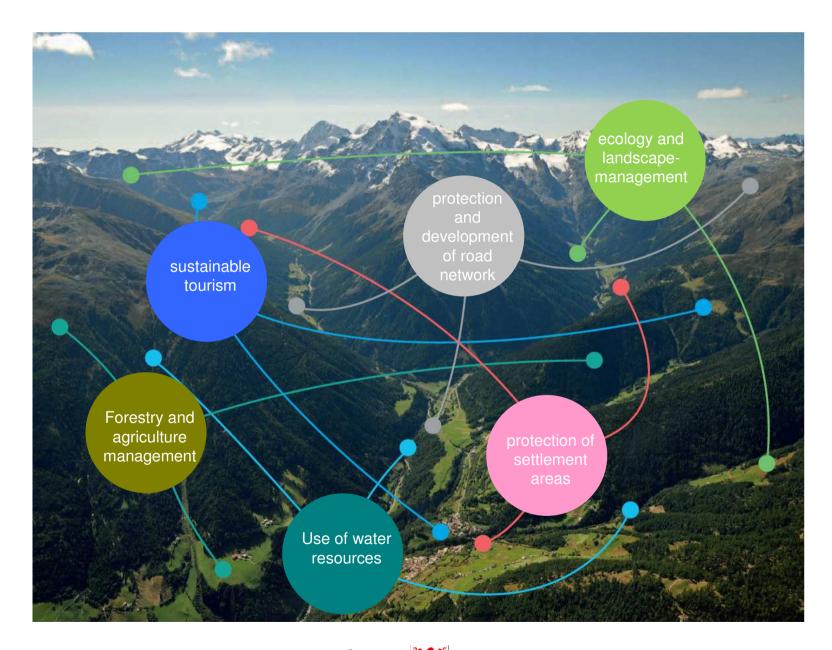


Experience in South Tyrol from 1999 to 2016

Current situation / 9 projects: 4 Watershed management plans 5 River Corridor management plans 1 - GBK Untere Ahr Watershed management plans River corridor management plans

- 2 Etschdialog
- 3 Flussraumagenda Oberer Eisack
- 4 StadtLandFluss
- 5 Einzugsgebietsplan Suldenbach
- 6 Einzugsgebietsplan Obere Ahr
- 7 PRODrau
- 8 Einzugsgebietsplan Mareiterbach
- 9 Passer für Meran
- 10 Flussgebietsplan Rienz
- 11 Flussgebietsplan Etsch
- 12 Einzugsgebietsplan Grödnerbach





Fields of action

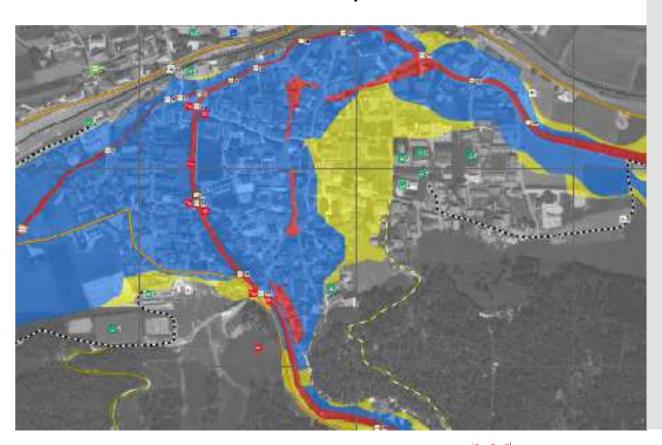
Programme of measures





Examples of civil protection measures

Intervention map



LEGENDE - LEGENDA

Maßnahmen punktuell

Straßensperre/Durchfahrtsverbot

Standort Bagger

Beobachtungsposten

Notfallstrukturen

Sammelplatz

Notunterkunft in öffentlichen Gebäuden

Notunterkunft in Sporthallen

Notunterkunft auf Freigelände / Zeltlager

Hubschrauberlandeplatz

Bereitstellungsraum

Wegenetz

Landes- und Staatsstraßen

Notzufahrt

Notzufahrt

Notzufahrt nach Sexten - Forststraße für LKW

Notzufahrt nach Sexten - Traktorweg

Gewässerquerungen

Holzbrücke

Rohrdurchlass

☐ Stahlbetonbrücke

Steg

Unterführung

Gefahrenzonenplan Drau & Sextnerbach

sehr große Gefahr (rote Zone)

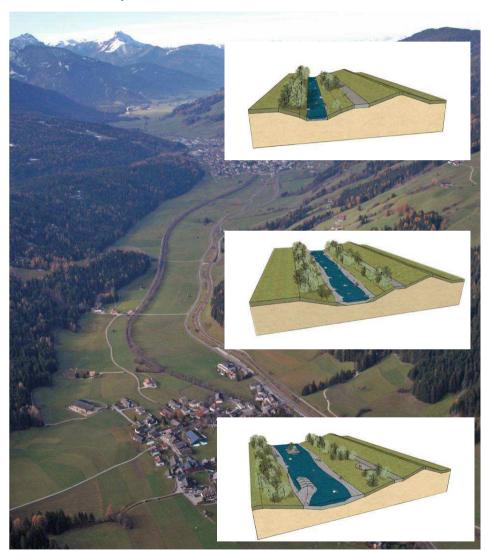
große Gefahr (blaue Zone)

mittlere Gefahr (gelbe Zone)



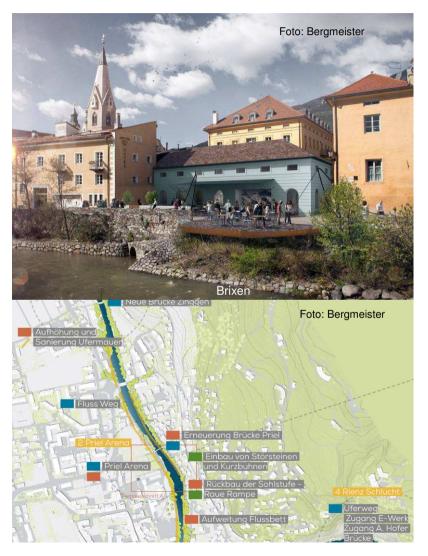
Examples of planning:

Flood protection San Candido



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Flood protection Bressanone



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6th International Conference "Water in the Alps" Herrenchiemsee, October 12th 2016

Examples of ecological measures: Rio Mareta



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Examples of hazard mitigation



Examples of recreational measures



From project to the process

Continuity: persons, process, public engagement and public relation participation through organisation, management, dissemination of information through media by a person in charge,...

Integrated River Corridor management as a principle of work, not only a method

Pilot projects, consolidation/institutionalisation/establishment of river area/basin management plans as a standard tool for interdisciplinary and sustainable spatial planning process

Public engagement and intensive public participation in planning and realisation phase and regular controlling of the implementation



General key points

- 9 integrated plans following a similar procedure
- Initiated by the Department of Hydraulic Engineering, now Civil Protection Agency
- Co-funded by the EC
- Smooth procedure, well structured, with external experts and internal project managers
- Duration: 3 4 years
- Costs: 250.000 € 850.000 €
- Technical studies and reports: 59 75 % of the budget
- Public involvement and engagement: 18 29 % of the budget
- Programme of measures: achievement & implementation
- Problem in the phase of implementation;



Good reasons



- Specific for the river basin
- Interdisciplinary approach, adaptation to stakeholders demands
- Efficiencies, networking for synergies
- Flood prevention
- Transparency through information exchange
- Awareness, social acceptance, agreement through planned participation, consensus based decision making process.
- Sustainability, continuity







Herrenchiemsee, October 12th 2016