

Knowledge for Change: A decade of Citizen Science (2020–2030) in support of the Sustainable Development Goals CITIZEN SCIENCE CONFERENCE 14.-15.10.2020 SID



A Citizen Observatory for Flood Risk Management in the Brenta-Bacchiglione Catchment

Michele Ferri

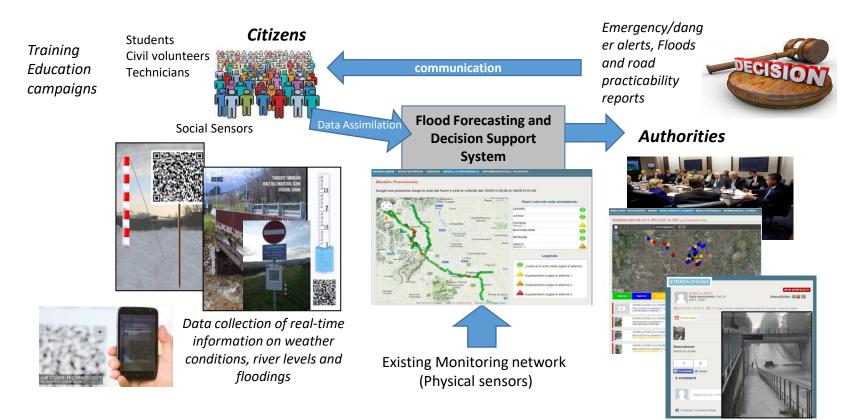
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The Brenta-Bacchiglione CO as flood risk mitigation measure



WSI pilot was adopted by the European Commission as a "good practice" example of the application of Directive 2007/60/EC



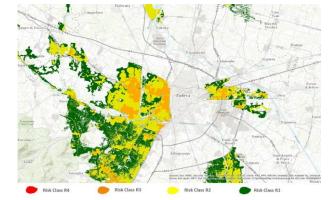
The citizen observatory was adopted as a not structural **mitigation measure** for flood risk **in the FRMP** (in accordance with the European Flood Directive 2007/60/EC)

A **cost benefit analysis** was undertaken to demonstrate the value of the Brenta-Bacchiglione CO in monetary terms: the citizen observatory is assumed to **decrease the social vulnerability of the flood risk**

 Bit Gas 2
 Bit Gas 2

Risk Map of Padua territory (RT 100 years)

Risk Map of Padua territory applying CO



Cost of the Citizen Observatory measure 5 million € (annual benefit

€ (annual benefit in terms of avoided damage: approximately 135 million €)

A Citizen Observatory for Flood Risk Management in the Brenta-Bacchiglione Catchment Distretto delle Alpi Grientali



The Citizen Observatory for flood risk management mobilises action towards achieving



capacity for early warning, risk reduction and risk management for national health



the **participation of local communities** in improving water management



- \checkmark protection of the world's cultural and natural heritage
- ✓ reduction in the number of deaths and the number of people affected and economic losses caused by disasters, including water-related disasters
 - ✓ increase in the number of cities with the adoption and implementation of policies aimed at mitigation and adaptation to climate change, integrated resilience to disasters



resilience and adaptability to climate-related risks and natural disasters

Improver institutio adaptatio

Improvement of education, awareness and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning



effective and transparent institutions at all levels

a responsive, inclusive, participatory decision-making process at all levels

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