

## AMIIGA PROJECT - Integrated Approach to Management of Groundwater quality In functional urban Areas



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<http://www.interreg-central.eu/Content.Node/AMIIGA.html>

**AMIIGA is an Interreg Central Europe funded project, pulling together 12 partners from 6 countries of central Europe, all sharing the objective of developing an integrated approach to the management of groundwater quality in functional urban areas. AMIIGA project tackles the problem of groundwater contamination originating from sources located in brownfield sites, which is common in Central Europe.**

AMIIGA is a three-year project running between September 2016 – August 2019

Groundwater contamination is a problem that goes beyond administrative boundaries of a local public authority: there is little experience in Europe in the management of such challenges in Functional Urban Areas (FUAs). Current practices of environmental management and measures for mitigation of pollution sources are often not sufficient. Groundwater knows no administrative borders; a groundwater body covers both "city cores" and "hinterlands", which is the basic challenge for groundwater management. AMIIGA project tackles in particular the problem of groundwater contamination originating from brownfield sites, which is common for CE's territory.

Due to the structural changes, extensive brownfield areas exist both in the urban cores as well as in their hinterlands. Contamination sources located in "city core" affects the groundwater quality of "hinterlands" downstream and vice versa. It requires effective intervention at a medium (FUA) scale, neglected in existing legislation.

The AMIIGA project focusing on integrated assessment, remediation and management strategies intends to build and capitalize on the results of project FOKS (CE 2007-2013).

The innovative instrument "groundwater management plan" is a selective further development of the decision-support strategies described in FOKS. Key elements of this integrated management instrument are characterization, remediation and monitoring plus the management strategy and plan itself. This involves both technical and process innovation and strengthens water management capacities in the related administrative bodies among a FUA. The AMIIGA tools will be implemented in 7 pilot actions in 7 various specific CE regions; the results will be then jointly evaluated by project partnership. AMIIGA partnership provides a well-balanced combination of technical, research, management and regulatory expertise that will exchange and transfer knowledge needed to face the complex challenge of groundwater contamination.

Partner number	Partner name	Partner abbreviation	Country
1	Główny Instytut Górnictwa	GIG	POLAND
2	Jaworzno	Jaworzno	POLAND
3	Landeshauptstadt Stuttgart	LHS	GERMANY
4	Město Nový Bydžov	Novy Bydzov	CZECH REPUBLIC
5	Technická univerzita v Liberci	TUL	CZECH REPUBLIC

6	REGIONE LOMBARDIA	RL	ITALY
7	Politecnico di Milano	PoliMi	ITALY
8	Comune di Parma	EMA	ITALY
9	Geološki zavod Slovenije	GeoZS	SLOVENIA
10	JAVNO PODJETJE VODOVOD-KANALIZACIJA d. o. o.	JP VO-KA	SLOVENIA
11	Sveučilište u Zagrebu, Građevinski fakultet	GF	CROATIA
12	Vodovod d.o.o. Zadar	VZ	CROATIA

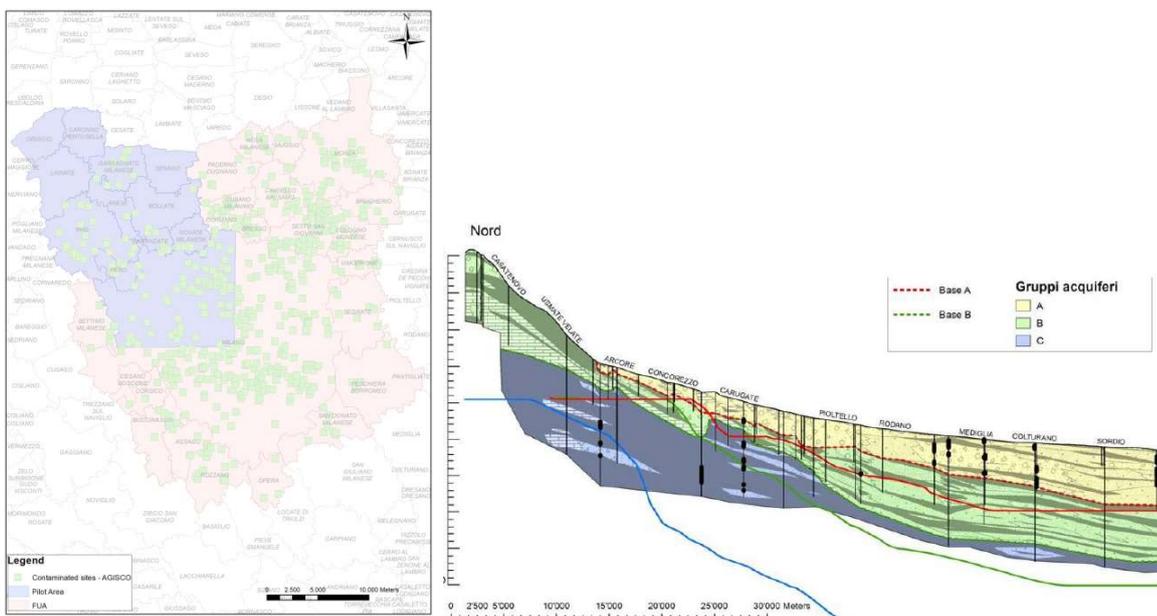
AMIIGA Project is divided into 3 workpackages (WP). PoliMi, as WP1 leader will take full responsibility of technical WP1 development and implementation (i), and the role of main expert in CSIA analysis and application (ii), modeling supervisor (iii), main scientific and technical reference for Regione Lombardia's proposed pilot action.

As WP1 leader, PoliMi will ensure that all activities related to WP1 will be correctly, fruitfully, and on time developed (i). Coordination and technical tutoring will be made available for all partners. Main activities will be progresses supervision, technical round table and meetings preparation. (ii) By offering analytical capacities and technology application support, PoliMi will promote the use of the developed tools through all WPs and potentially by all PPs (iii).

Although several partners already has their own modeling capacity, PoliMi, having a solid and extended record on the use of many modeling codes (MODFLOW, FEEFLOW, MT3DMS and others) will eventually advise partners whenever needed; not only within WP1 but also WP2 for those partners who are requiring specific expertise during their pilot action implementation (iv). PoliMi will be main scientific and technical advisor for Regione Lombardia during the pilot action implementation by tutoring all the steps and by ensuring the acquisition of all other partners' inputs (v).

PoliMI will be involved also in WP2 and WP3 and will be actively participating in WPmanagement and WPCommunication activities. As benefits, PoliMi will have the possibility of promote CSIA application at EU level but also to learn from other partners specific expertizes e.g. BMTs (TUL), resource & management and planning by regulatory institutions (particularly LHS). Analytical services for CSIA will be performed within the project for all partners, which anyway will not produce any profit out of it.

**MUNICIPALITIES: 34**  
**AREA: 514 Km2**  
**POPULATION: 2.254.263**



TWP	Description
WP 1	Assessment tools for GW pollution and remediation
WP 2	Implementation and testing of tools through 7 pilot activities
WP 3	Management plans for 7 pilot sites and management strategy