

amra

■ analysis and monitoring of environmental risk

ABOUT US

AMRA is a Centre of Competence in the field of Analysis and Monitoring of Environmental Risk. It is a permanent research facility for the development of innovative technologies applied to environmental problems. AMRA aims at providing SMEs and industry with innovative approaches, development of prototypes and user-friendly applications.

AMRA can count on more than 300 researchers, advanced laboratories and equipment worth a total of 15 million Euro, for applications to earthquake, hydrogeological, coastal, volcanic and anthropogenic risks. AMRA's distinguishing feature is the high level and wide spectrum of its resources, allowing a multi-disciplinary integrated approach.

PARTNERS

AMRA is a no-profit entirely public Company:

Five Universities

- University of Naples Federico II
- Second University of Naples
- University of Salerno
- University of Naples “Parthenope”
- University of Sannio

Three National Research Centres:

- National Research Council (CNR)
- National Institute of Geophysics and Volcanology (INGV)
- Zoological Station Anton Dohrn

ROLE OF **AMRA** IN THE ENVIRONMENTAL SECTOR

The Regione Campania Government considers the development of research and innovation a major pillar for the economical and social development. Coherently with this vision, the Regional institution established the network of Regional Centres of Competences in differents fields with a total investement of more than 300 million of euros in the last 5 years.

... Following this political vision, AMRA has been established!!

Nowdays, it represents a reference for Regione Campania in the field of Natural and Environmental Risks.

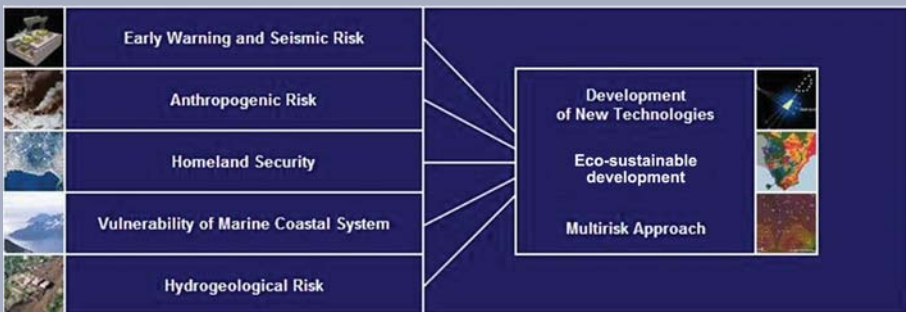


MISSION

- To create a permanent network of research centers to cope with natural risks in a comprehensive way.
- To develop and engineer prototypes, to carry out measures and tests, to check results through analogical and numerical models.
- Technological Transfer.
- To improve the High Level Training System.
- To promote partnerships with leading economic players.
- To optimize professionalism, flexibility and operational ability of human and economic resource.
- To foster innovation culture.

AMRA adopts a multi-risk strategy to prevent environmental risk and encourages national and international community awareness in the field of natural hazards so that related needs are turned into demand for research, services and technologies.

AMRA LINES OF ACTIVITIES



FACILITIES

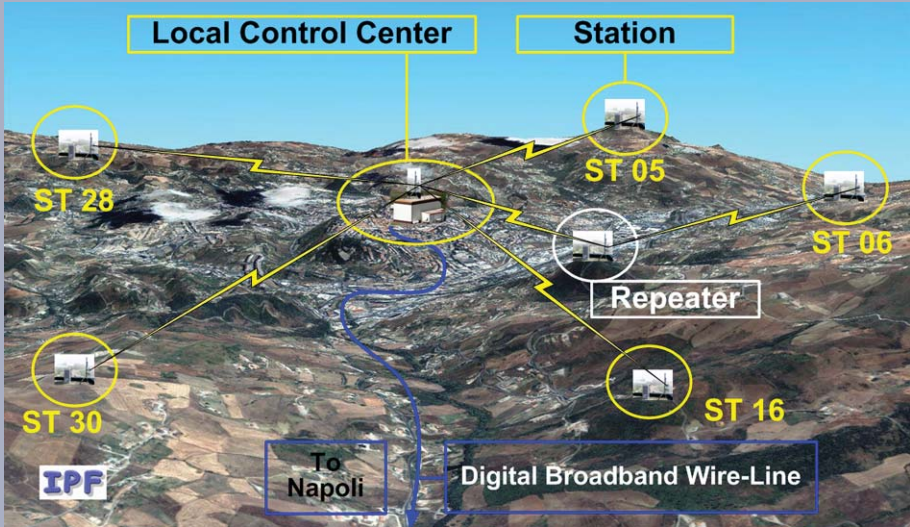
12 High tech laboratories in various environmental sectors forming the AMRA network of facilities.

They are equipped with innovative instrumentation. Some of them are unique in Italy and in Europe. They could have boosting effect for the local economy, as they increase the competitiveness of Italian SME and may attract foreign investments towards Campania Region.

SOME EXAMPLES OF EQUIPMENTS WITH DISTINCTIVE FEATURES

Industrial and Chemical Risks:
Fluidized bed gasifier pilot plant





Early Warning and Seismic Risk:
High resolution seismic



Early Warning and Seismic Risk:
The shaking tables system

AMRA ACTIVITIES

MAIN INTERNATIONAL PROJECTS

FP7 (European Research Program):

- SOILCAM – Soil Contamination
- SAFELAND – Landslide Risk and Early Warning

FP6 (European Research Program):

- SAFER – Seismic early warning (vice-coordinator)
- NaRAs – Multirisk Approach (Coordinator)
- TRASFER – Tsunami Early Warning

EPCIP (European Research Program):

- SAS – Security of Airport Structures (Coordinator)

INTERREG Archimed:

- SERISK – Seismic Early Warning
- MILDMAP – Hydrogeological Risk

GIS CURARE (France):

- Hydrogeological Risk

Projects funded by USA Universities:

- TENZA PROJECT – Security of Bridges
- MINIVIB – Oil Exploration

MAIN NATIONAL PROJECTS

PNR (National Research Programme) 2005-2007

- Project SIT-MEW

CONAI, Milano

- Waste-to-energy tests on a pilot plant gasifier

IACP

- Innovative Methods for dynamical control of infrastrucutres

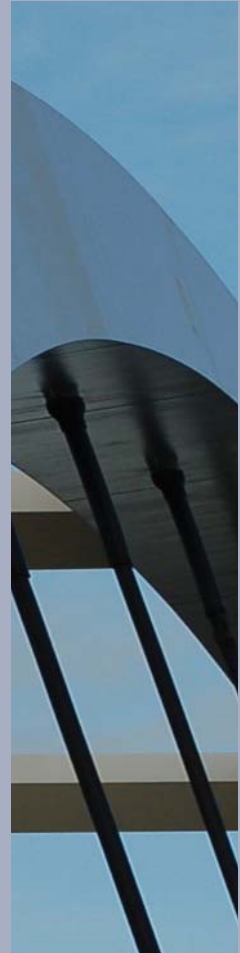
Regional Department of Civil Protection

- Several projects concerning Natural risk assessment

SELEX Communications

- SIT_MEW Early Warning for Earthquake and Volcanoes

AMRA business model involves several enterprises with expertises in environemntal field. In particular, information and communication, sensing and building constructions firms are main AMRA project partners.





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