



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 seismic, 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 owned by:

Five Universities

- University of Naples Federico II
- Second University of Naples
- University of Salerno
- University of Naples "Parthenope"
- University of Sannio

and

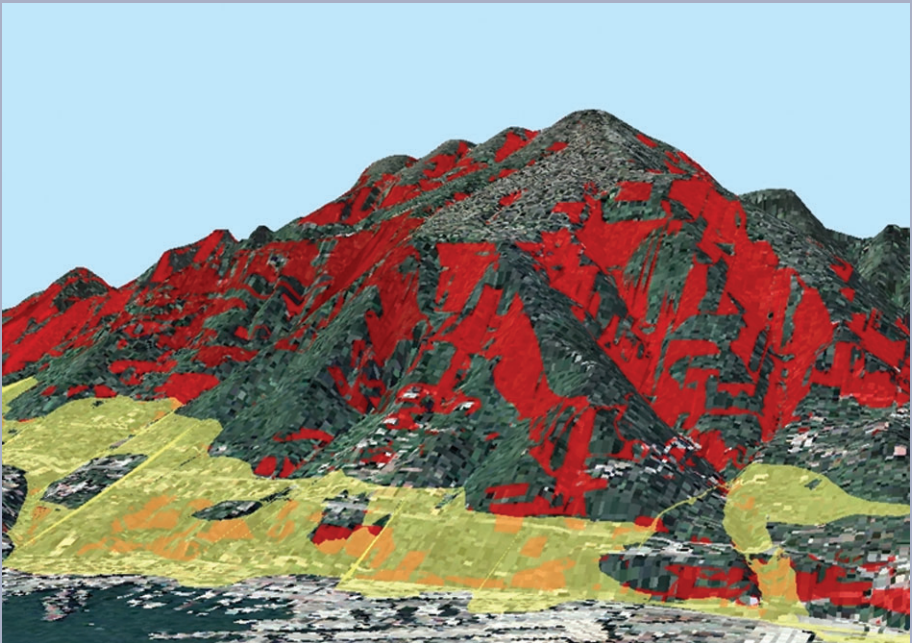
Three National Research Institutions

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

ROLE OF **AMRA** IN THE ENVIRONMENTAL SECTOR

The development of research and innovation is a major pillar for the economical and social development of Regione Campania. Coherently with this vision, the Government of Regione Campania established in 2002 the network of Regional Centres of Competences in many fields with a total investment of more than 300 million euro.

Following this political vision, AMRA has been established.



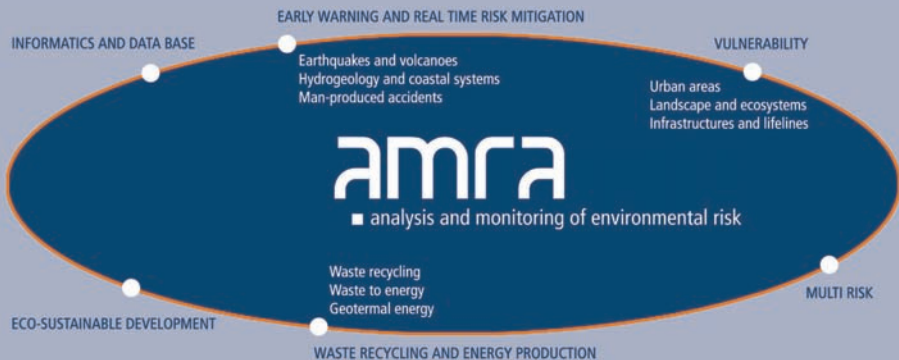


MISSION

- To be part of a permanent European 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.
- To foster the 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
ISNET network



Early Warning and Seismic Risk:
High resolution seismic source



Marine Current Meter Measurements:
Coastal Radar CODAR





AMRA ACTIVITIES

MAIN INTERNATIONAL PROJECTS

Cuenca – Ecuador, Risk management planning for water supply and sewer systems for the city of Cuenca.

Campi Flegrei Deep-Drilling Project (CFDDP), project aimed at the evaluation of geothermal potential and the possible implementation of a geothermal power plant as a pilot project in the city of Napoli and at the definition of volcanic structures associated eruptive potential of the Campi Flegrei Volcano.

MAIN EUROPEAN PROJECTS

7th Framework Programme

- **CLUVA**, Climate Change and Urban Vulnerability in Africa;
- **MATRIX**, New Multi-Hazard and Multi Risk Assessment Methods for Europe;
- **GEISER**, Geothermal Engineering Integrating Mitigation of Induced Seismicity in Reservoirs;
- **NERA**, Network of European Research Infrastructures for Earthquakes Risk Assessment and Mitigation;
- **SYNER-G**, Systemic Seismic Vulnerability and Risk Analysis for Buildings, Lifelines Networks and Infrastructures Safety Gain;
- **SAFELAND**, Living with Landslide Risk in Europe;
- **SOILCAM**, Soil Contamination: Advanced Integrated Characterisation and Time-Lapse Monitoring.

6th Framework Programme

- **SAFER**, Seismic Early Warning;
- **Na.R.As.**, Multirisk Approach;
- **TRANSFER**, Tsunami Risk AND Strategies For the European Region.

EPCIP (European Programme for Critical Infrastructure Protection)

- **SAS**, Safety of Airport Infrastructures.

Programme INTERREG Archimed

- **SE-RISK**, Seismic Early Warning;
- **MILDMAP**, Hydrogeological Risk.

PROJECTS FUNDED BY USA UNIVERSITIES

Tenza Project, Security of Bridges.

MAIN NATIONAL PROJECTS

SIT-MEW Project, Early Warning for Earthquake and Volcanoes.

National Packaging Consortium – Milan, Waste-to-energy tests on a pilot plant gasifier.

Regional Department of Civil Protection

– Several projects concerning Natural Risk Assessment.

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

amra

■ analysis and monitoring of environmental risk

AMRA S.c. a r.l.

Via Nuova Agnano, 11
80125 Napoli (Italy)
Tel. +39 081 7685125
Fax +39 081 7685144
www.amracenter.com
info@amracenter.com

Branches and offices

CIMA "Filippo Vinale"

Via Petriale, Palazzo della Regione Campania
83054 Sant'Angelo dei Lombardi (AV), Italy
Tel. +39 0827 23753
Fax +39 0827 223733
<http://cima.amracenter.com>
cima@amracenter.com

AMRA

Calle Mariscal Lamar y Jose Astudillo
Ed. Alameda 1, 6-e ec 0901
Cuenca, Ecuador
Tel. 00593 (0) 83209793
amraecuador@amracenter.com

