

COORDINATOR PARTNERS



IABG
Ottobrunn,
Germany

IABGmbH is a German company with proven expertise in Earth observation and geo-related; responsible for the overall management of the ARIMA project: collection, evaluation, production of geospatial data; development of ARIMA's Information System.



United Nations
University (UNU-EHS)
Bonn, Germany

United Nations University Institute for Environment and Human Security (UNU-EHS) is a leading research institution focused on environmental hazards and global change. In the ARIMA project, UNU-EHS leads the multi-risk assessment and the development of future risk scenarios, as well as contributing to capacity building activities.



Cadi Ayyad
University
Marrakech, Morocco

With more than one hundred thousand students, Cadi Ayyad University is one of the largest educational and research institutions in Morocco. The Faculté des Sciences Semlalia provides the ARIMA project with geological expertise, training, and other local support.



RESING
Marrakech,
Morocco

RESING is an independent engineering consulting firm with decades of experience and expertise in the environment and sustainable development. RESING's role in the ARIMA project is to communicate with beneficiaries, collect and evaluate data, and identify and model hazards.



CIMA Research
Foundation
Savona, Italy

The CIMA non-profit Research Foundation promotes research, technology, and education in engineering and environmental sciences. CIMA provides flood and erosion hazard identification and modelling as well as training for the ARIMA project.



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designed by MONDO FORTE



Find out more and contact us at:
www.arima.iabg.de

The graphic features a map of Morocco with a yellow outline. At the top, three circular icons represent flood, landslide, and drought. Below them is the 'Arima' logo in a large, stylized font, with 'RISK ASSESSMENT MARRAKECH SAFI REGION' underneath. Three circular inset images show a river with a flood icon, a landslide with a landslide icon, and a field with a drought icon. At the bottom, the text 'RISK PREVENTION in MARRAKECH-SAFI' is written in large blue letters, followed by the tagline 'Cutting edge science and technology to assess current multi-hazard risks and simulate disaster scenarios'.

RISK PREVENTION in MARRAKECH-SAFI

*Cutting edge science and technology to assess current multi-hazard risks
and simulate disaster scenarios*

SUPPORTING MOROCCAN DISASTER RISK REDUCTION INITIATIVES

The ARIMA project supports Moroccan national efforts to better assess multi-risk hazards and mitigate their impact on the population, infrastructure, economy, and cultural heritage of the country.

Morocco is highly exposed to natural hazards, which inflict substantial loss of life and \$790 million* in economic damages each year. Climate change is exacerbating the problem with serious consequences for sustainable development in the country.

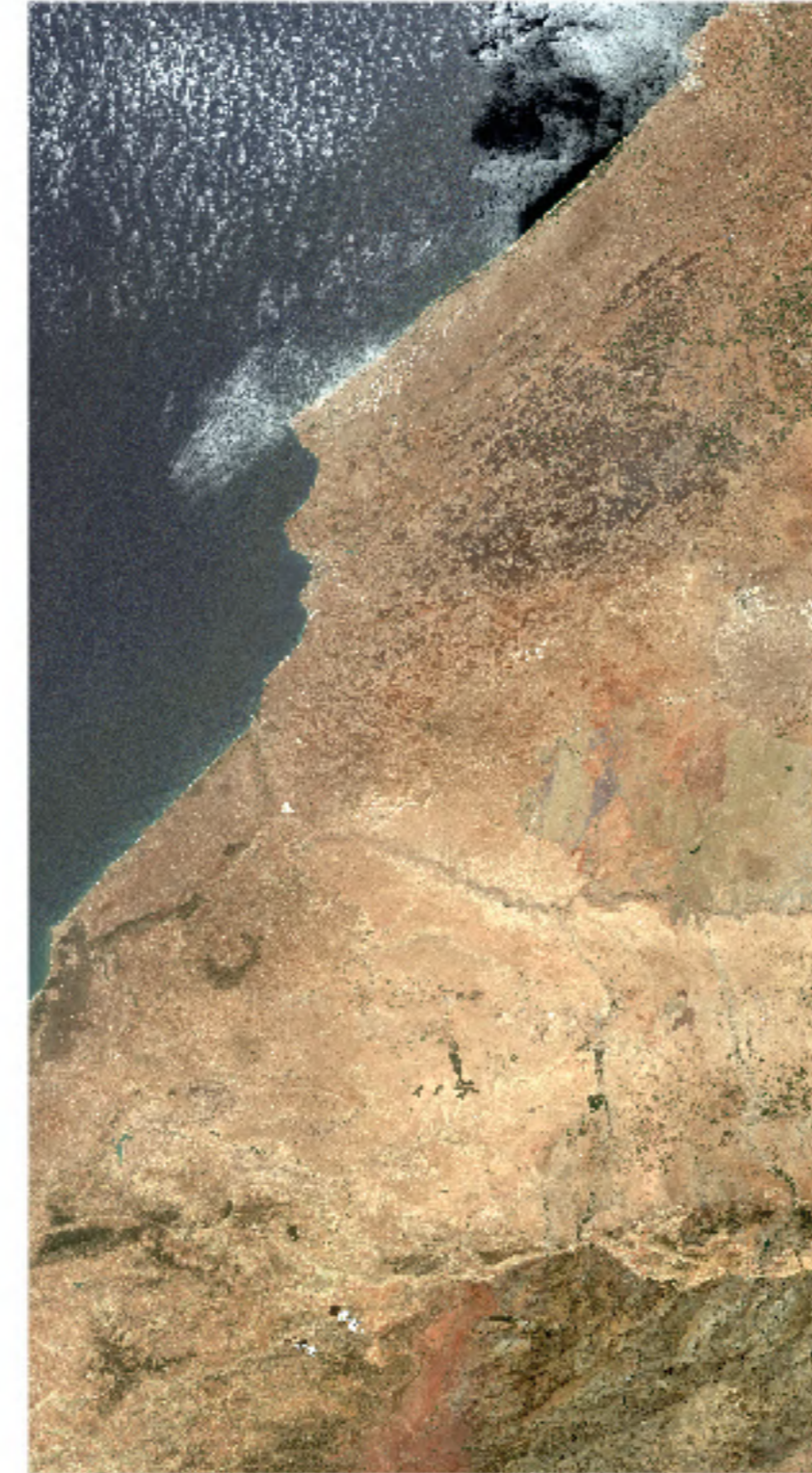
In recent years, Morocco has made significant investments in developing state of the art analytical tools such as the Morocco Natural Hazards Probabilistic Risk Assessment (MnhPRA).

This macro-level GIS-based catastrophe risk modeling measures Morocco's overall exposure to natural disasters and guides the country's emerging national risk management and resilience strategy. Furthermore, in line with the UN Sendai Framework for Disaster Risk Reduction, Morocco is developing a national policy to reduce risks and mitigate adverse consequences for its people, the environment, agriculture, and cultural heritage.

The ARIMA project complements Moroccan national efforts with a specific focus on the Marrakech-Safi Region. Indeed, this area is highly exposed to droughts, floods, and erosion, and it lacks a specifically designed regional solution.



* Source: <https://www.gfdrr.org/en/morocco>



ARIMA uses satellite maps produced by the Copernicus Emergency Management Service

A REGIONAL CUSTOMIZED SOLUTION

By 2020, the ARIMA project will provide a spatial multi-hazard risk information platform (MRIP) for Marrakech-Safi regional stakeholders based on innovative risk assessment and simulation methods.

The ARIMA project responds to the needs expressed by regional stakeholders to centralize, standardize, and complement all existing isolated risks analysis into a harmonized regional tool.

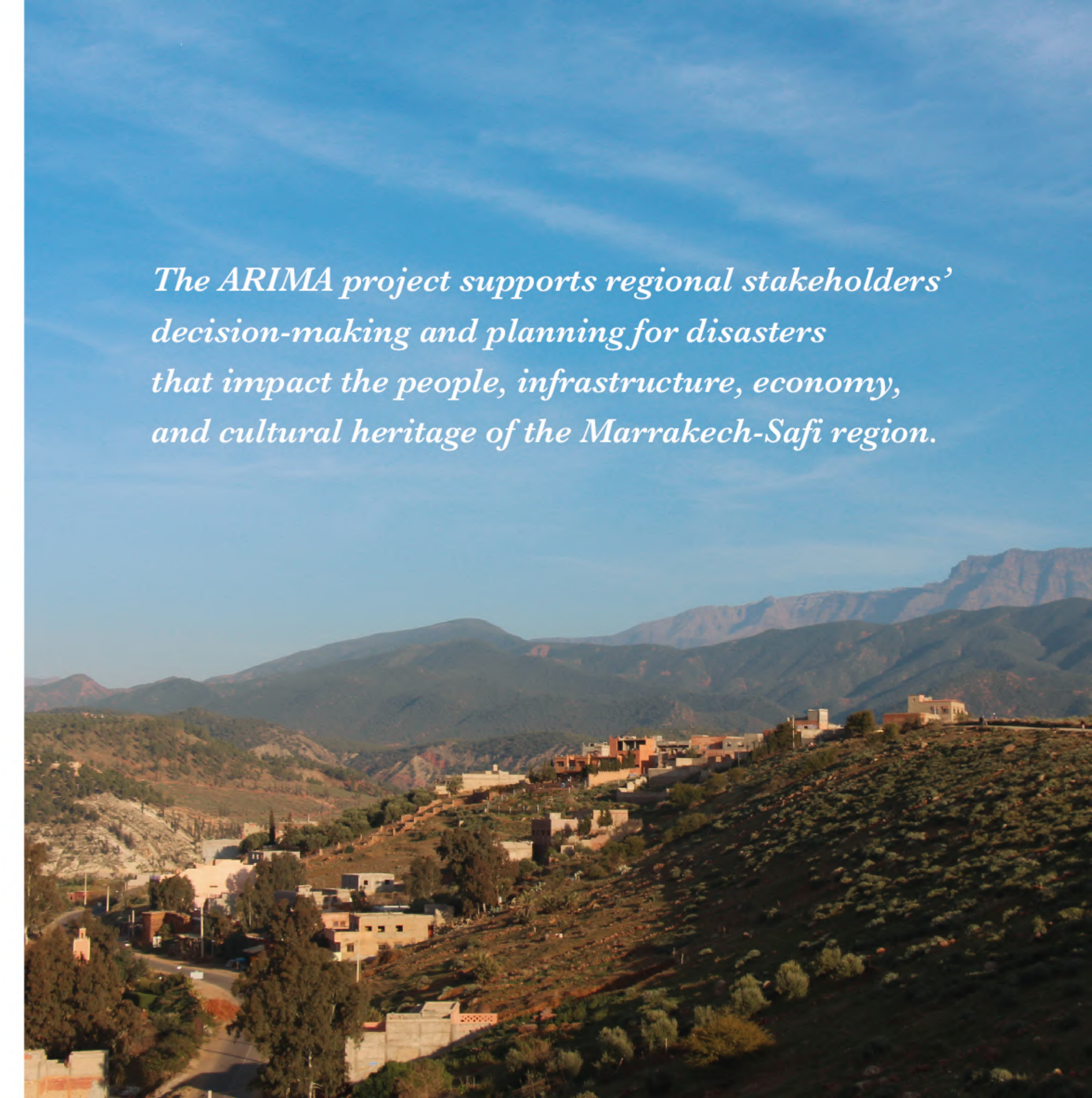
- ARIMA will first develop and implement innovative scientific methods to assess current hotspots of multi-hazard risk associated with floods, erosion, and droughts, and simulate future risk scenarios until 2050 in the Marrakech-Safi Region.
- Next, results will be integrated into a spatial multi-hazard risk information system, co-designed and tested for the practical use of the beneficiaries.
- Finally, it will take stock of existing risk reduction and adaptation strategies and propose complementary solutions based on the outcomes of the future risk scenarios.

The result: a harmonized platform of current multi-hazard risks and potential scenarios that supports coordinated preventive decision-making measures at the regional scale and leads to a better protection of the people, infrastructure, economy, and cultural heritage in the Marrakech-Safi region.

INCREASING REGIONAL RISK ASSESSMENT CAPACITY

A fundamental objective of the ARIMA project is the capacity building and transfer of technical and management expertise to and between regional and local stakeholders.

Moroccan regional and national partners will be involved in the development of the multi-hazard risk information platform and will receive training on its use and maintenance. As a result, all stakeholders will be able to use the spatial multi-hazard risk information platform (MRIP) in a coordinated, autonomous and sustainable way to increase their decision-making capacity for preventing or reducing the impacts of future hazardous events.



The ARIMA project supports regional stakeholders' decision-making and planning for disasters that impact the people, infrastructure, economy, and cultural heritage of the Marrakech-Safi region.