



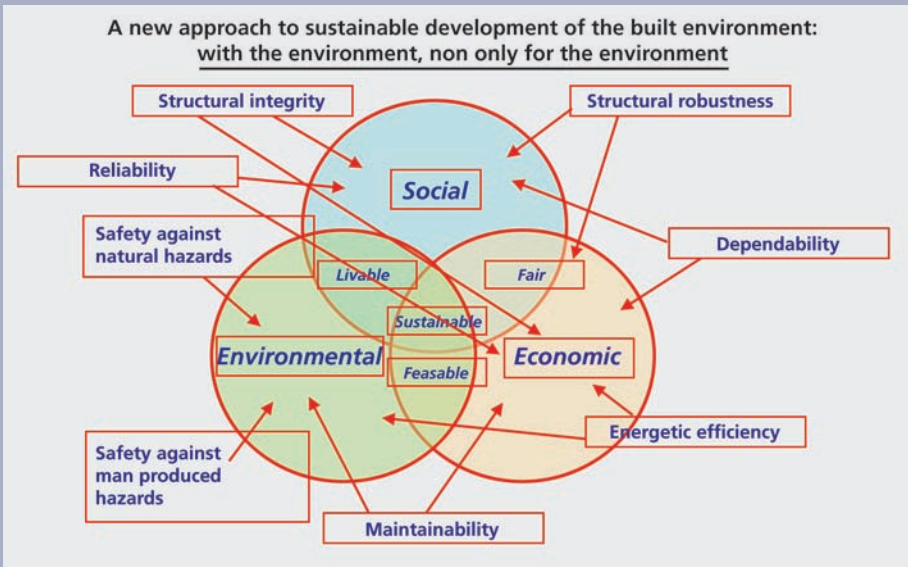
ECO-SUSTAINABLE DEVELOPMENT

amra

■ analysis and monitoring of environmental risk

AMRA ACTIVITIES

Regional land policies are generally conditioned by risk exposure. Awareness of the causes and dynamics of risks can and should steer economic and town-planning choices to implement land policies which are able to reduce the vulnerability of the local population, its buildings and its industry. With this in mind, AMRA brings together experts in land management – geographers, economists, lawyers, architects, town planners and sociologists (example of integrated AMRA approach in represented in the figure below).





AMRA provides innovative and effective methodologies and technologies for sustainability of built environment, in terms of materials to be used, structural configuration, building systems to be installed, management and maintenance rule to be adopted and dismissal procedure to be considered. In other words, AMRA represents a consultant partner, providing the most effective tools in decision making, design and transformation processes, for the sustainability of urban environment.





MAIN OBJECTIVES

AMRA's objectives are the development and testing of innovative technologies for:

- building materials;
- eco- sustainable structures;
- sustainable management systems for water and waste cycles;
- integrated sustainability evaluation (Integrated Life Cycle Analysis, Material Flow Analysis, Risk Analysis).



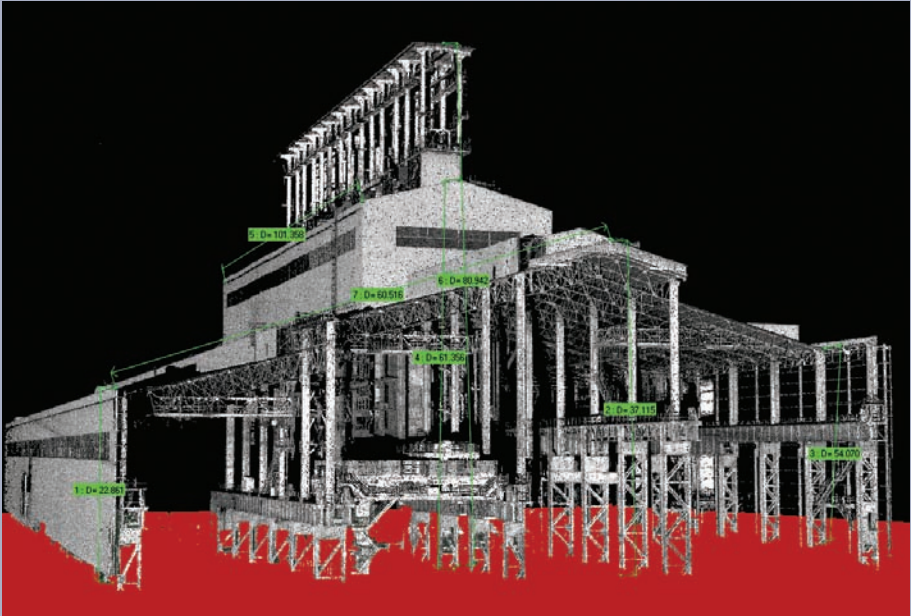


SIMULATION METHODOLOGY

For the development of methodologies aimed at analysis of urban space AMRA uses, among others, equipment as **Laser Scanner ILRIS 3D**, a portable and highly integrated package with digital image capture and sophisticated software tools, ideal for the commercial survey, engineering, mining and industrial markets.

Features:

- high resolution and high accuracy;
- highest dynamic range available on the market: from 3 m to beyond 1 km;
- class 1 laser rating: completely eyesafe;
- on-board 6-megapixel digital camera and large-format LCD viewfinder;
- ruggedly designed for demanding field applications.





MAIN PROJECTS

TECHNOPOLE ANGUS, MONTRÉAL, CANADA

AMRA is the consultant partner of **Technopole ANGUS** for several urban operations in Montreal.

AMRA consultancy activities will be conducted in different processes and at different layers; in particular, AMRA support actions will involve:

- **urban transformation planning:** planning a sustainable development of urban areas is the first step to seek the sustainability of cities and built environment;
- **building design and management:** AMRA scientific expertise in structural engineering, material engineering, building systems and construction technologies will fruitfully support designers in defining the most suitable solution and obtain a sustainable operation on built environment.



MAIN SCIENTIFIC PAPERS

A. Lucarelli (ed.)

Siti industriali dismessi: il governo delle bonifiche

Università degli Studi di Napoli – CRdC-AMRA

ISBN-10: 88-89972-03-3, ISBN-13: 978-88-89972-03-8, 2006

D. Mazzoleni, M. Sepe (eds.)

Rischio sismico, paesaggio, architettura: l'Irpinia, contributi per un progetto

Università degli Studi di Napoli – CRdC-AMRA

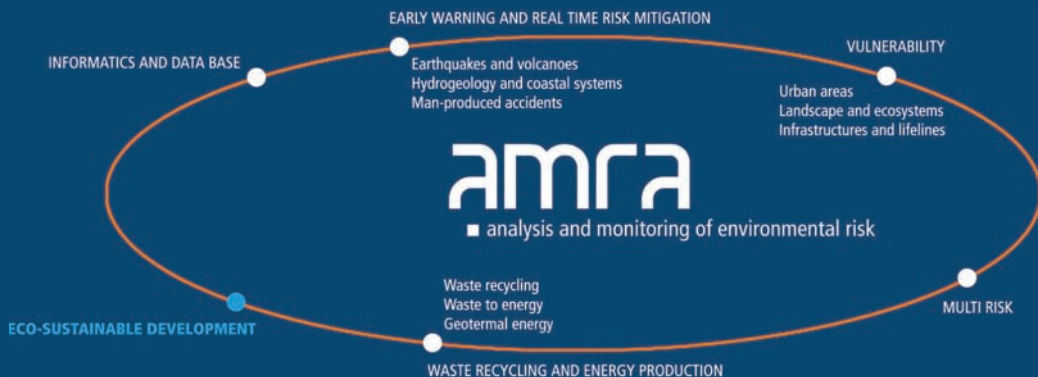
ISBN-10: 88-89972-02-5, ISBN-13: 978-88-89972-02-1, 2005

U. Leone (ed.)

L'area orientale di Napoli. Contributi per un progetto

Università degli Studi di Napoli – CRdC-AMRA

ISBN-10: 88-89972-01-7, ISBN-13: 978-88-89972-01-4, 2004



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