THE ISSUE

Molise Region: Cluster presentation and project objectives

Dr. Fabrizio Spallone
REGIONAL DATA:

- **DIMENSION**: 4.4 (thousands of square kilometers)
- **POPULATION**: 330,000 Inhabitants
- **NUMBER OF CITIES**: 136
- **AVERAGE POPULATION/CITIES**: 2,246
- **GDP 2009**: 20.098 (euro per inhabitant)

CLUSTER DATA:

SVILUPPO ITALIA MOLISE is the regional development agency of Molise Region

UNIVERSITY OF MOLISE

The main effort in THE ISSUE is from the ECOGEOFOR – Laboratory of Forest Ecology and Geomatics

E-GEOS is a company controlled by Telespazio and the Italian Space Agency (ASI)

The company offers a complete range of products in Earth Observation and geo-spatial application domains
The need for collaboration

The cluster according to the “Triple Helix” approach.

The path of collaboration here envisioned is inspired by the perspective of European Directives on traffic, health, environment and the impacts on citizens day–life.

Specific know–how will be introduced through the Department of Science of Civil Engineering of the University of Roma 3
Background & Objectives

CLUSTER BACKGROUND
- Start-up of GEOSAT MOLISE, a majority public capital organisation, composed by the Italian Space Agency (ASI), Molise Region, Molise University and Telespazio company.
- NEREUS (Network of European Regions using space technology) active participation.

The participation to THE ISSUE has been strongly supported by Molise Region Administrative Authority in order to develop a more competitive transport-related economy through innovative research and projects.

CLUSTER OBJECTIVES
- EO1: to utilize Intelligent Traffic Management to boost the competitiveness of transport-related economies at urban, regional and local levels and promote the creation of SMES;
- EO2: to identify market opportunities for mature RTD applications and develop action plans for commercial implementation;
- EO3: to deliver innovative solutions to traffic management operations. Economic benefits will accrue to regional authorities through improved transport efficiency.

STO6: To provide regional planners with comprehensive databases of transport infrastructures to support their regional strategic planning.
THE ISSUE

The Regional Development Agency

SVILUPPO ITALIA MOLISE

We’re specialized in:
- Enterprise creation;
- Start-up and innovation support;
- Territorial Marketing;
- Business plan counselling;
- Advisory to companies and public authorities;
- Incubator services (logistic assistance, call-center, parking, meeting places);
- Support and assistance in all phases of the business process

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University of Rome 3
Department of Science of Civil Engineering

Prof. Marco Petrelli
Principal areas of research activity:

- Management and design of public transport systems with the use of quantitative and computer-based methodologies and innovative technologies (AVL, ITS, ICT)
- Traffic dynamic simulation (off-line & on-line demand matrix and pollutant emissions estimation, traffic microsimulation models)
- Methodologies for the identification of roads with safety problems
Roma Tre background in THE ISSUE related topics

Meso-simulation dynamic traffic model for the estimation of pollutant in a wide network
Roma Tre background in THE ISSUE related topics

Applied research for the transit network design in extra urban areas with the use of TTS and ICT
Safety evaluation on rural two-lane highways introducing the concept of Level of Service of Safety (LOSS) according to a Safety Performance Function (SPF)
The University of Molise in the framework of THE ISSUE

Prof. G. Chirici, PhD
Over 10,000 students in 8 Faculties located in three campuses

The main effort in THE ISSUE is from the ECOGEOFOR – Laboratory of Forest Ecology and Geomatics

Monitoring the impact of transportation on the environment

Sustainable integrated management at landscape level
Previous experiences

- Landscape ecology: impact of transportation on ecological network connectivity
- Remote sensing: land use/land cover mapping, forest fire mapping
- GIS modeling: forest fire monitoring, smoke plume impact on urban areas and infrastructures
A different perspective?
EGEOS
Company profile and background related to THE ISSUE topics

Ing. Michela Corvino

e-GEOS is a company
- 80% controlled by Telespazio S.p.A.
- 20% participation by the Italian Space Agency (ASI).

e-GEOS Mission: To be a leading player in the geo-spatial information business with an integrated offering of products, application solutions and services based on radar and optical satellite/aerial data, leveraging COSMO-SkyMed operational capabilities
e–GEOS is engaged in the remote sensing information processing chain at all levels, namely:

- Satellite Data Acquisition and Pre–Processing
- Satellite Data Distribution
- Application–oriented Activities
- Fp7–Cooperation, GMES (Global Monitoring for Environment and Security) activities and GMES Initial Operations–Emergency Management Services
- Web Mapping Services

e–GEOS Portfolio:

- Cartography
- Agriculture and Land Use
- Maritime Surveillance
- Risk Management
- Emergency Response – Rapid Mapping
- More CSK Applications
e-GEOS background in THE ISSUE related topics

- **QUALITÀ ARIA LAZIO Project** – Project for Lazio Region (completed–2001)
  - Protection and recovery programme for the air quality in Lazio Region and delivery of a decision support tool

  - aimed at the developing and demonstrating a networked interactive computational environment allowing the integration and fusion of environmental information from remote sensing observations, ground air quality measurements, and pollution transport models in order to minimize uncertainty in decision-making regarding operational air pollution control and abatement.

- **FP7 Enhanced WISETRIP Project** – (Enhancing Intermodality of Content, Personalised Information and Functionality of WISETRIP Network of Journey Planning Engines) – started on September 2011
  - aimed at building on the knowledge developed in the WISETRIP project to bring new possibilities for planning, booking and travelling multimodal journeys adapted to all user needs, multiple trip criteria, environmental impact and personal preferences.