

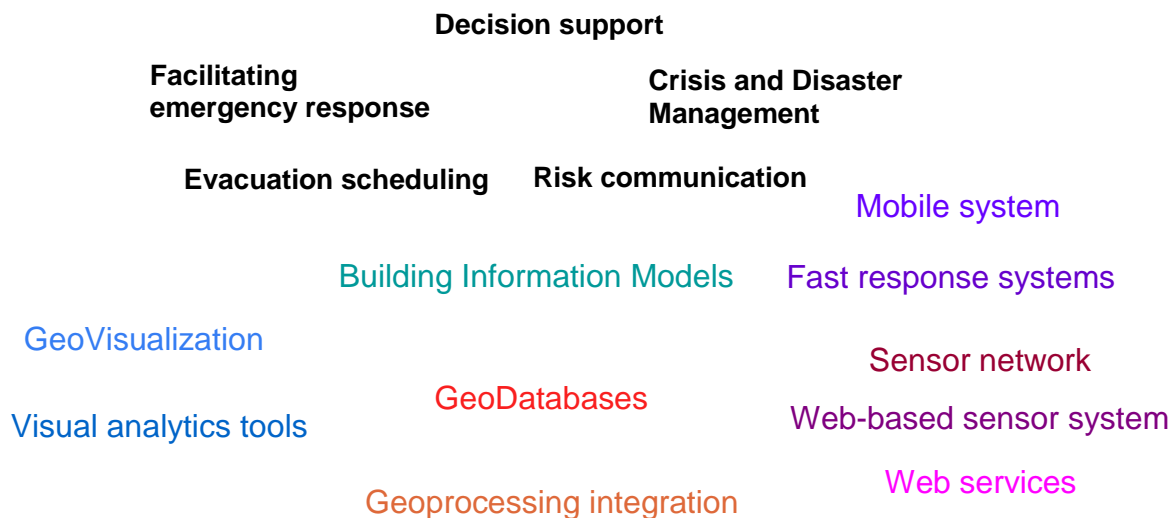
**Some ideas collected at the AGILE workshop “GI@EarlyWarning”
(final discussion)**

Different fields and levels of work presented at the workshop:

Landslide monitoring

Early flood warnings

Volcano response system



Further fields presented in the invited talk:

Disaster Management Cycle, adaptive cartography, adaptable geovisualization.

Problems (situation now):

Sensor networks and emergency response should be closer related to each other. Important to bring together sensor networks with emergency response, searching for relations between these two fields.

A reason to worry about: the link between emergency response and geoinformation is too small! The emergency response managers are not using GI methods. They need time to use this new technology. Decision makers mostly are people of the older generation. Partly they have no idea of the possibilities of GI technologies. We have to show these possibilities.

Should be something very simple at the beginning, not a whole decision support system:

1st step: providing data (basic level for emergency response manager).

2nd step: analysis of the data.

3rd step: our research (high level, e.g. 3D modelling)

Concluding: We have different levels of knowledge: education and training are missing.

Speeding up the process of showing decision makers GI possibilities would be a good idea.

Problem: gap existing until now.

Technical view:

Much research has been done on sensor networks and on databases separately, but we now need new approaches for handling this sensor or laser scanning data (same data handling problem in sensor and laser scanning applications).

Important to develop registry mechanisms, e.g. catalogues (meta data) containing existing early warning projects.

Visual analytics: Adapting visualization systems according to stress level is important, dependent on the size of the data to be processed.

Creating strategies how to continue:

Combining our knowledge, building a “chain” from sensors to databases, ... to geo-visualization ... The sum is more than the single pieces of our work.

How to create awareness for our research in the society and in the head of decision makers?

To bring together independent EU activities, influencing EU authorities. We have to get part of the community. To look for powerful partners, being related to these groups. To put together our knowledge to formulate the contents of new research programs.

We have to consider geospatial activities in the countries of the EU.

Considering “Spatial Enabling Society” (see Australia), many models designed around the world.

Two main approaches:

- 1) Educate and design, create work with GI technologies
- 2) Educate decision makers what they can expect to get from our GI systems. How quality is improved by these systems. How can progress be achieved, how can they profit from our work?

Is a “School for Disaster Management” useful? (such as giving courses “GI for police”). We have to bring GI to the politicians. GI is very valuable for disaster management! This topic is very important!

It is important to be interoperable, i.e. integrating different data and to work together.

Important to communicate to decision makers for what our research is necessary in crisis and disaster management.

Showing those people, who are providing funding, how important our work is, convincing them.

Showing what we can do for geoscientists (e.g. German Geotechnologien program) and for other communities, such as disaster management.

We should spread these opinions at EU meetings.

Some of the ideas have already reached the EU (e.g. 3D; call for processing large data sets).

Actions planned:

- Publishing papers of the GI@EarlyWarning AGILE 2009 workshop
- Organizing GI@EarlyWarning workshop on AGILE 2010
- To continue this discussion
- Exchange of ideas in a “European GI@EarlyWarning network” (how to do this?)
- Starting EU project in the field of GI@EarlyWarning (how to do this?)