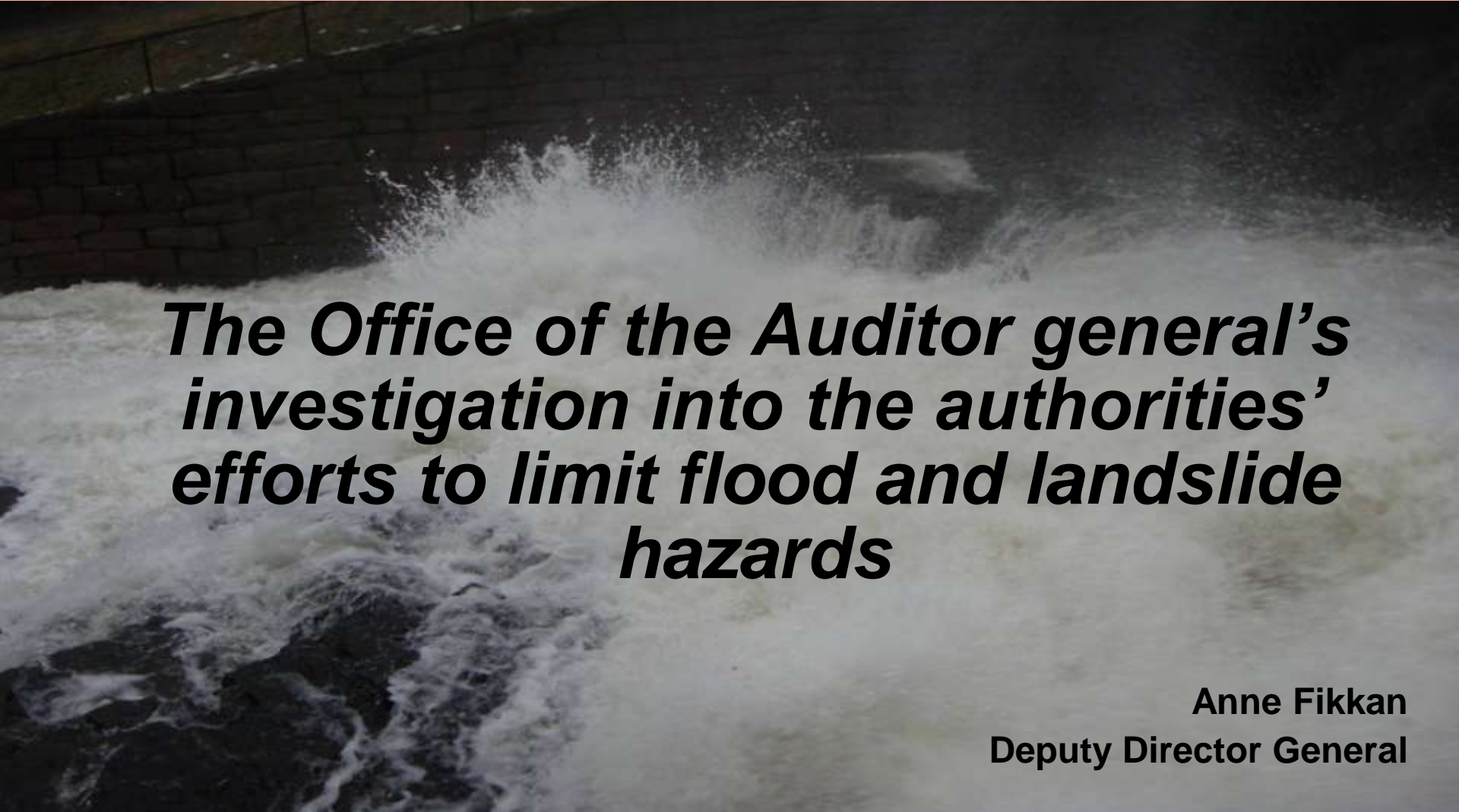




Riksrevisjonen

Office of the Auditor General of Norway

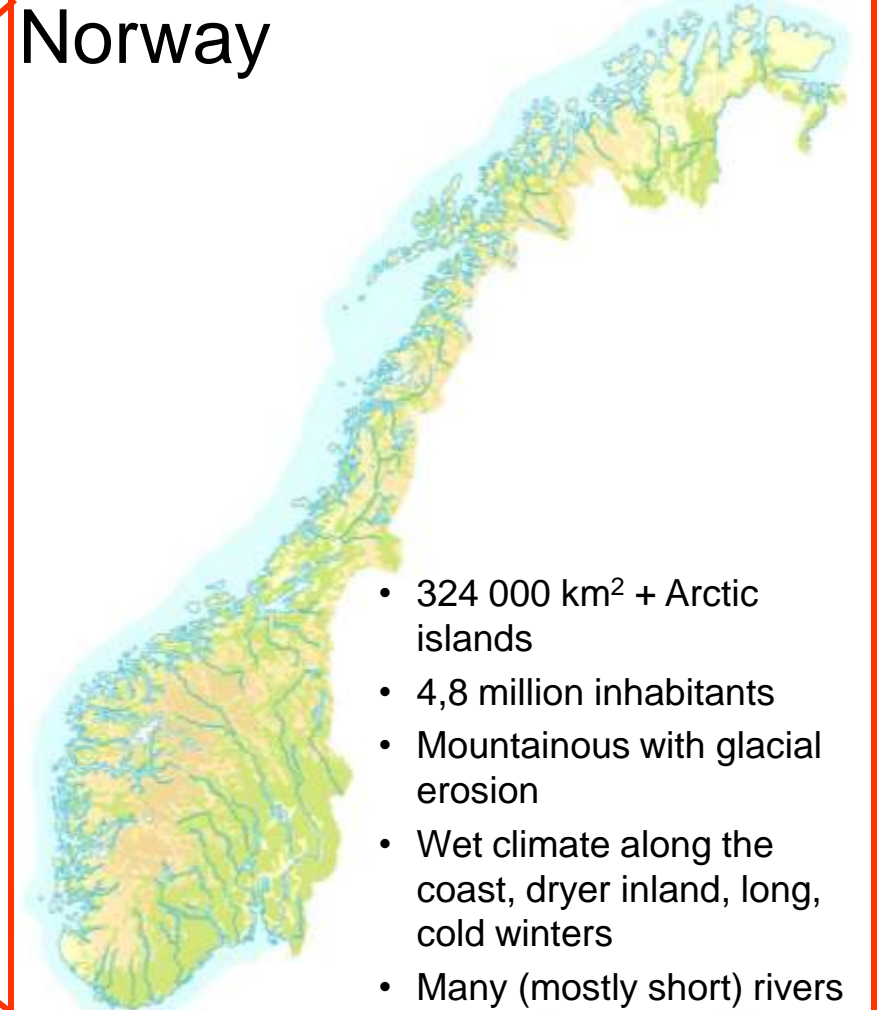


***The Office of the Auditor general's
investigation into the authorities'
efforts to limit flood and landslide
hazards***

**Anne Fikkan
Deputy Director General**



Norway

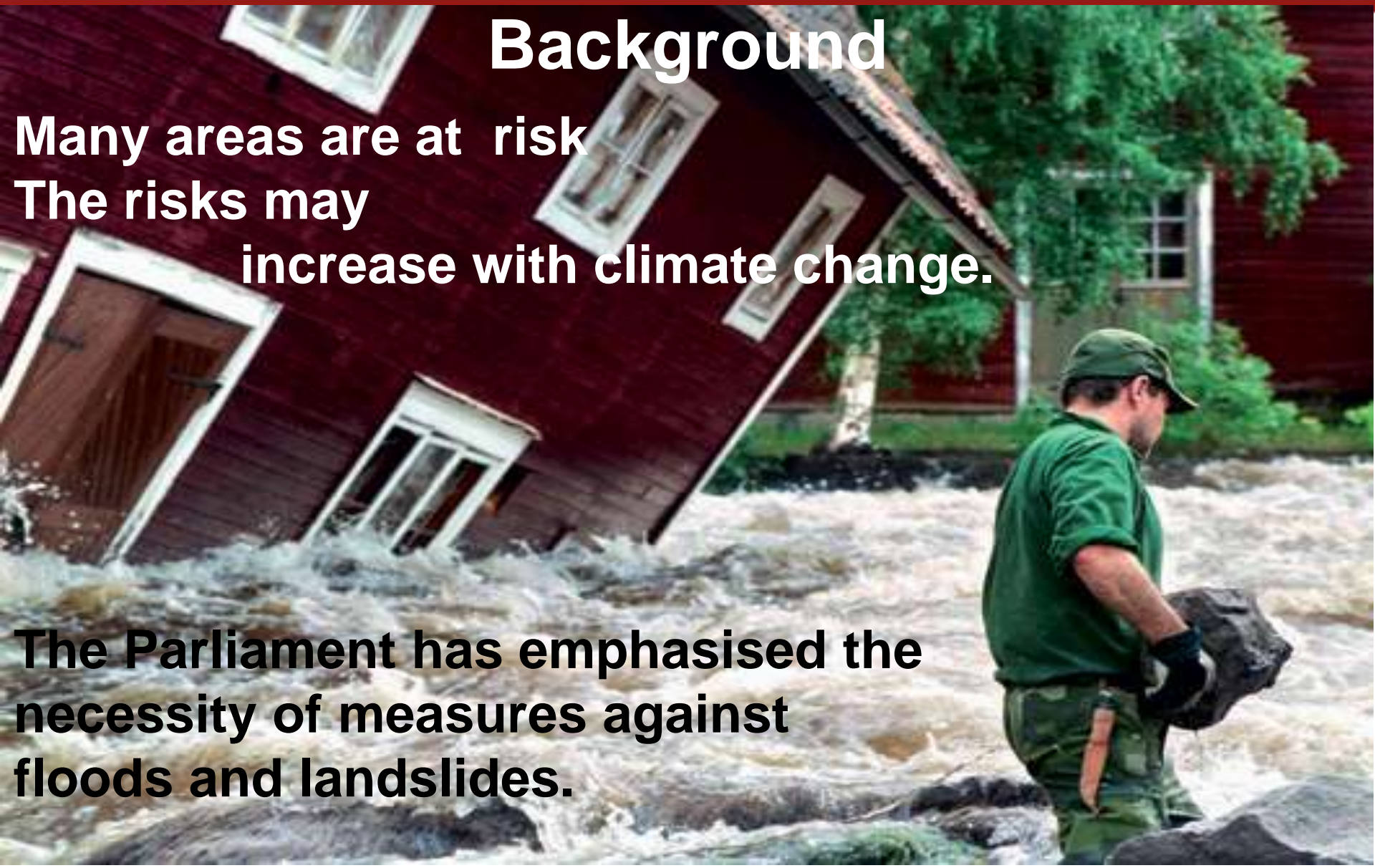


- 324 000 km² + Arctic islands
- 4,8 million inhabitants
- Mountainous with glacial erosion
- Wet climate along the coast, dryer inland, long, cold winters
- Many (mostly short) rivers

Background

**Many areas are at risk
The risks may
increase with climate change.**

**The Parliament has emphasised the
necessity of measures against
floods and landslides.**



Objective

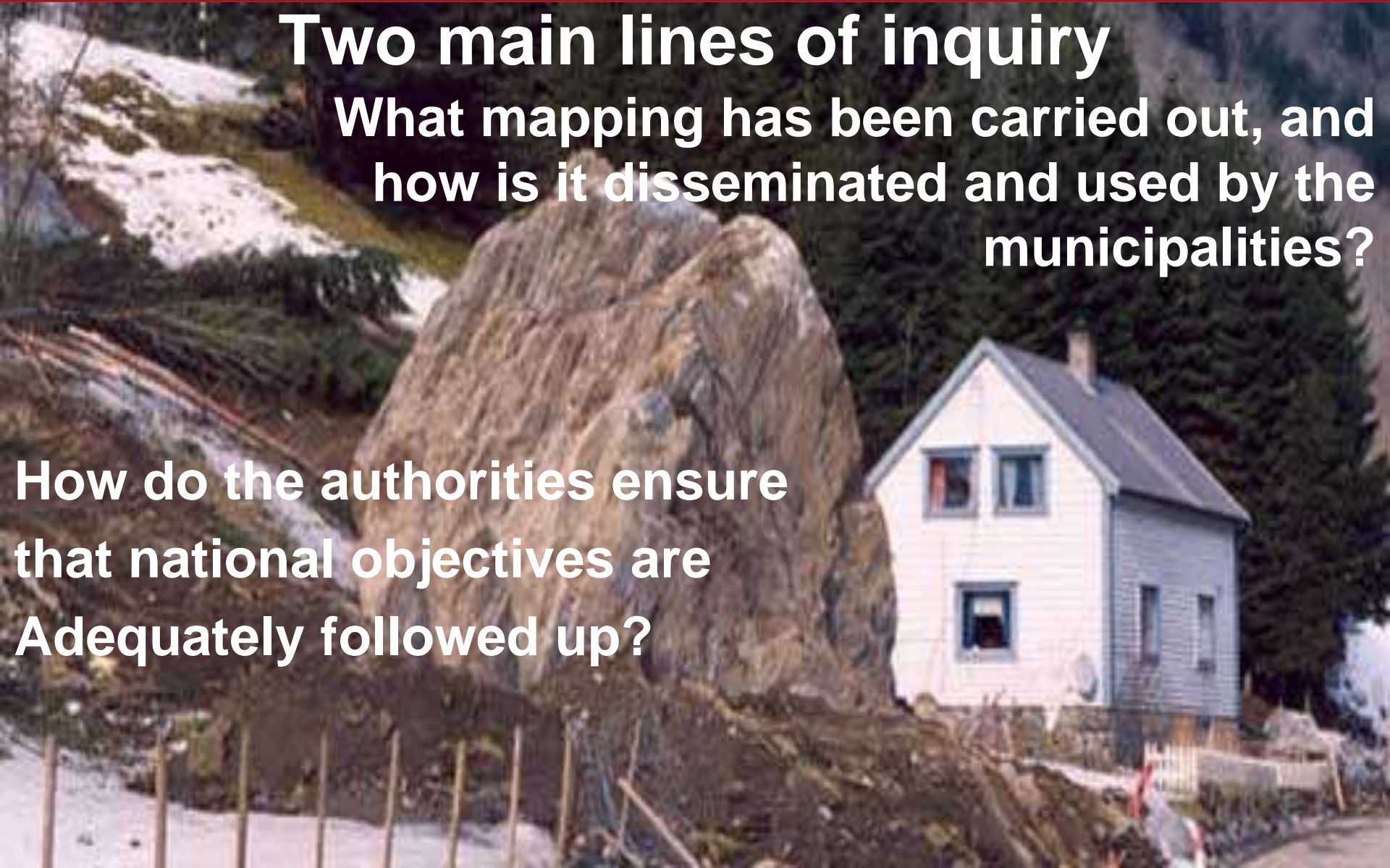
To assess the extent to which the ministries and their subordinate agencies adhere to the decisions and intentions of the Parliament and national objectives for the prevention of flood and landslide hazards.



Two main lines of inquiry

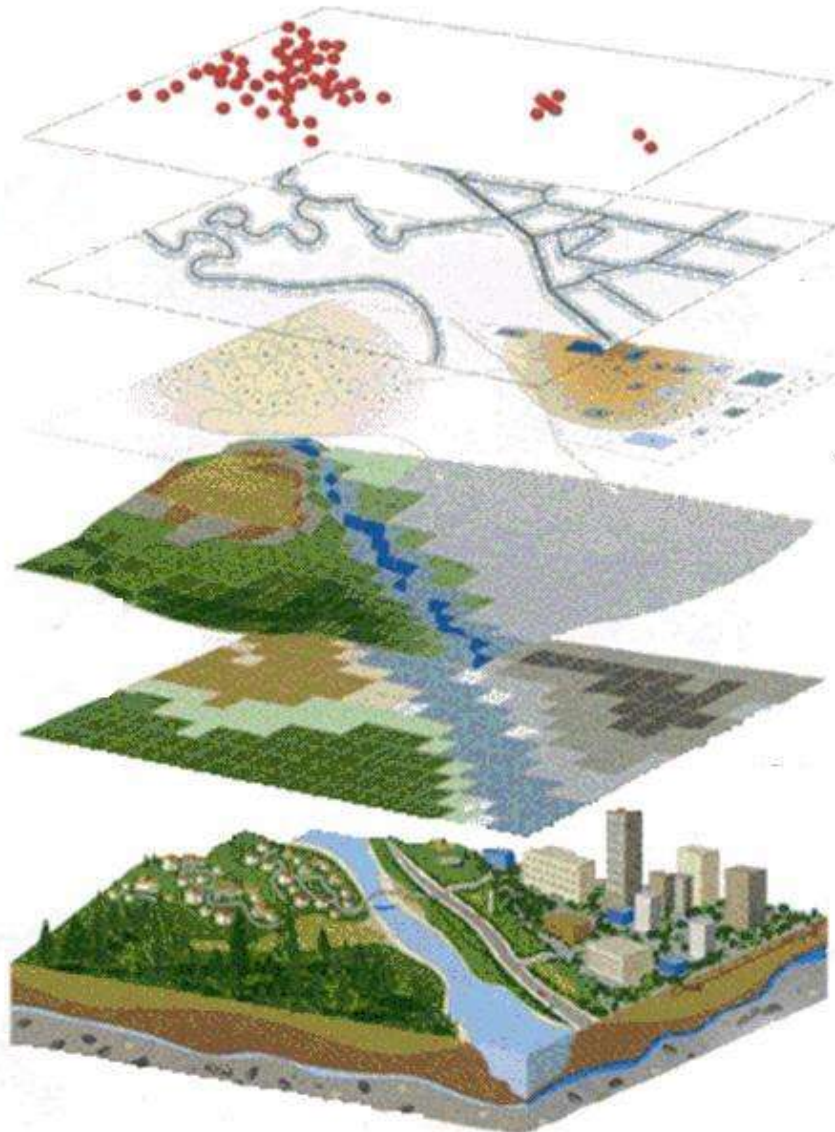
What mapping has been carried out, and how is it disseminated and used by the municipalities?

How do the authorities ensure that national objectives are Adequately followed up?



Methods

- **Map analysis using GIS (computer-based systems for the recording, modelling, adaptation, analysis and presentation of geographical data)**
- **Documents analysis**
- **Questionnaire surveys**
- **Meetings with the ministries and their subordinate bodies and municipalities.**



Buildings



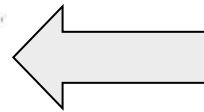
Quickclay



Flood



Rockslide and
avalanches



Results

- **Inadequate knowledge of maps**
- **Insufficient expertise in their use**
- **Unclear understanding of the municipalities' responsibility**
- **Targeted and active government efforts are required.**