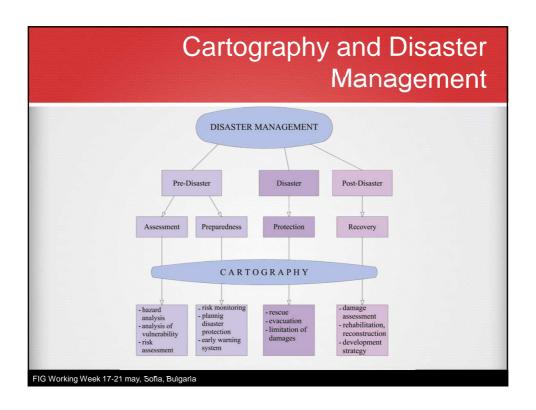
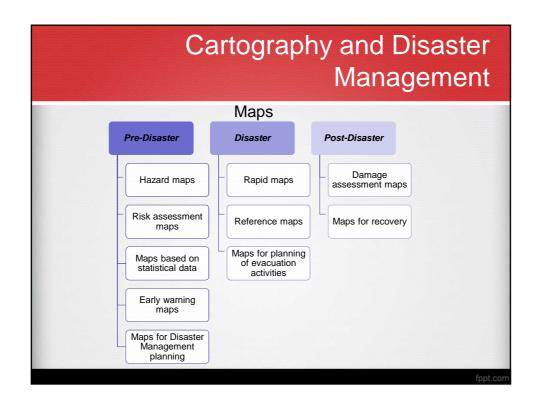


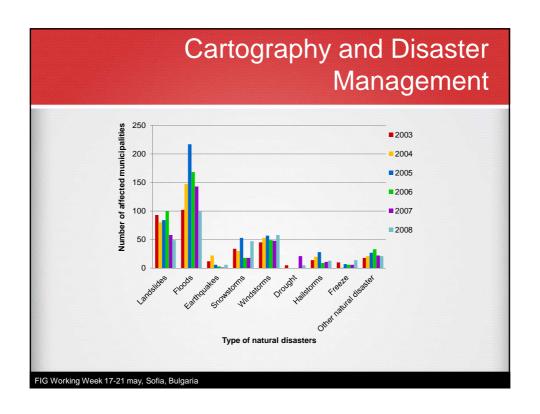
Cartography and Disaster Management

Disaster Management activities

- assessment, preparedness and prevention, including hazard analysis, risk assessment, scenarios, monitoring, planning the emergency activities;
- protection, including early warning, rescue planning, organizing rescue operations, evacuation
- and *coordination* of the operations of the Integrated Rescue System;
- recovery, including human help, economic support, rehabilitation, reconstruction, strategic development.



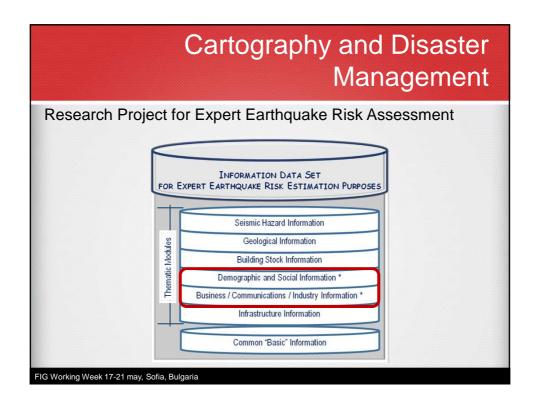




Cartography and Disaster Management

Research Project for Earthquake Risk Assessment at University of Architecture, Civil Engineering and Geodesy

• Conceptual model for information system for expert express assessment of the earthquake risk over the Bulgarian territory.



Thematic mapping for expert evaluations of seismic risk assessment

Research Project for Expert Earthquake Risk Assessment

Disaster management requires accurate information.

Participants in activities for disaster management need special geographic information.

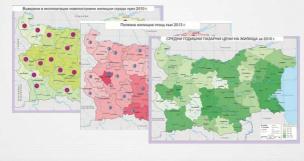
Main source of such information are thematic maps.

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Thematic mapping for expert evaluations of seismic risk assessment

Research Project for Expert Earthquake Risk Assessment

Considering the importance of the **demographic and social information** combined with **business / communications / industry information** several maps were produced.



Thematic mapping for expert evaluations of seismic risk assessment

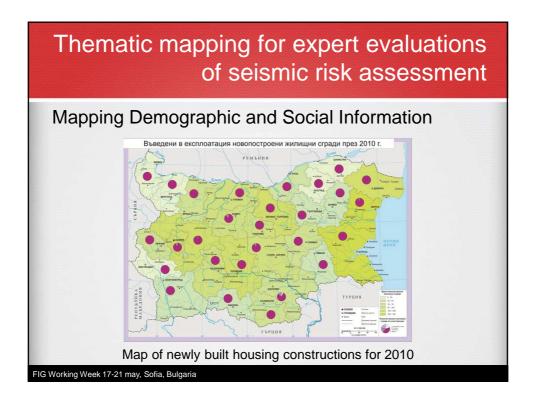
Research Project for Expert Earthquake Risk Assessment

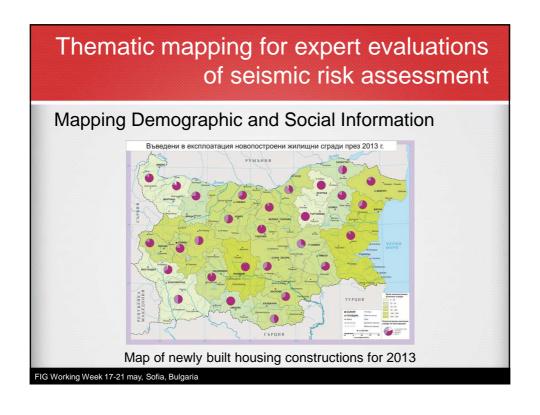
Maps representing:

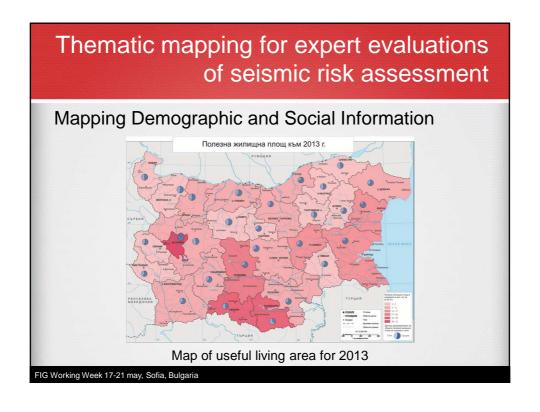
- · short-term statistics on residential buildings;
- · housing fund useful living area;
- · business statistics number of building permits;
- · business statistics sectorial statistics average annual prices;
- · information society household access to the Internet;
- · demographic statistics population density;
- · demographic and social statistics urbanization;
- · health sector number of hospital beds.

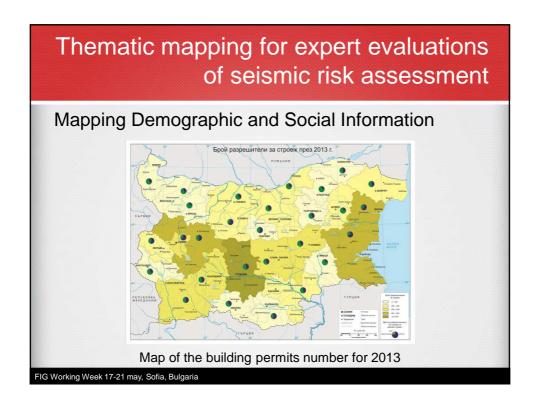
FIG Working Week 17-21 may, Sofia, Bulgaria

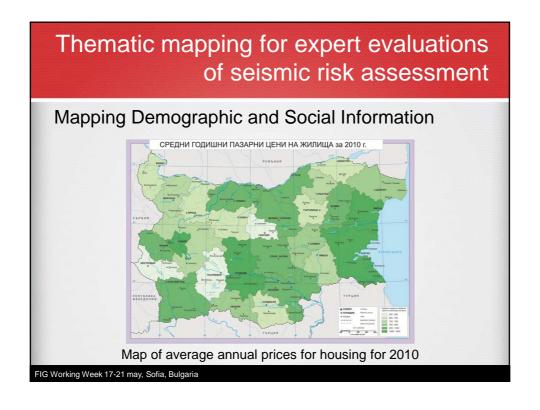
Thematic mapping for expert evaluations of seismic risk assessment Research Project for Expert Earthquake Risk Assessment Maps for the Information Data Set for Seismic Risk Evaluation: Urbanization process; Transport infrastructure- den regional network; Mining and quarrying; Electricity network; Chemical industry; Others.

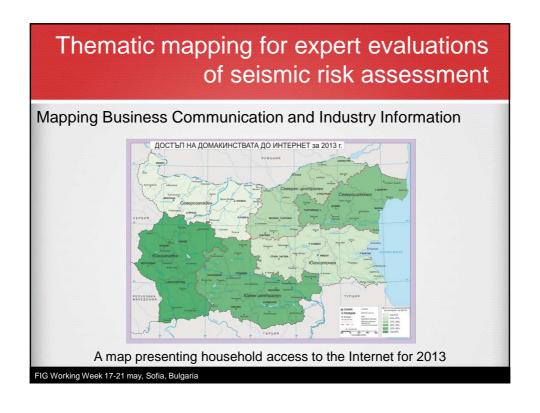












Data Harmonization

Combination of international, national and regional data.

Usage of heterogeneous data provided by various services, agencies and organizations.



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Data Harmonization

Main aspects of data harmonization

Georeferencing the information into a geographical reference system

Standardizing the attribute structure

Standardizing the object classification

Standardizing the level of detail of the information

Unifying the cartographic visualization

