
SEISMIC RISK MANAGEMENT AND REDUCTION

**common presentation of Directory General “Civil protection”-Ministry of Interior
and Geophysical Institute-BAS**

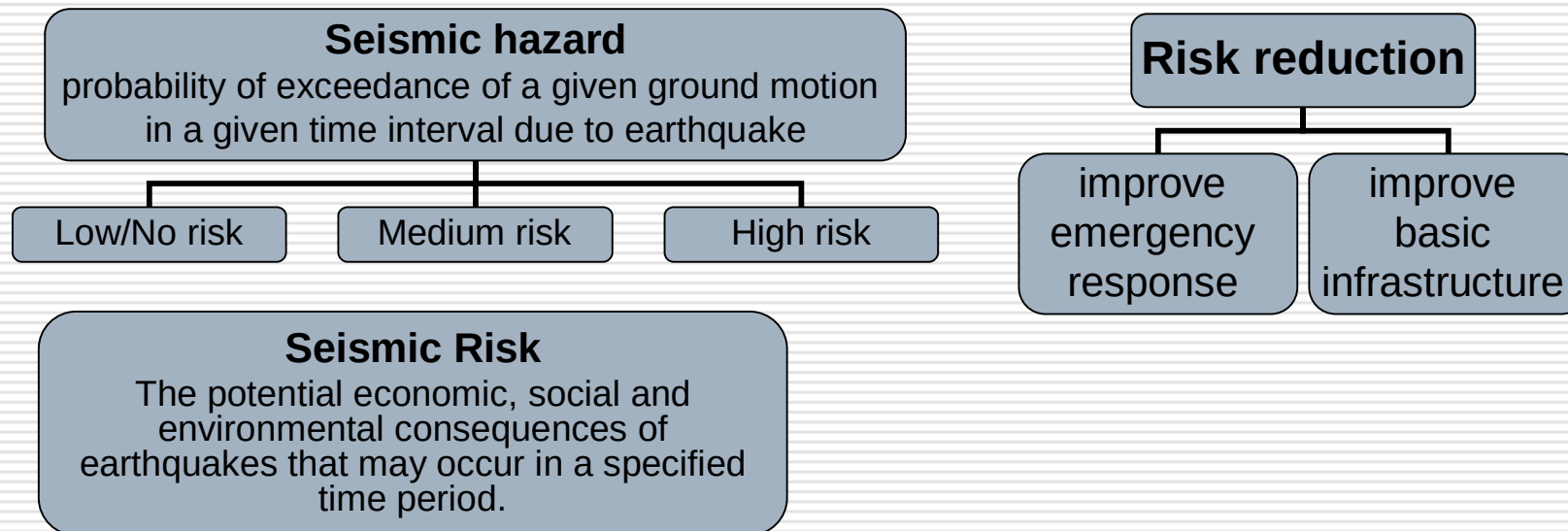


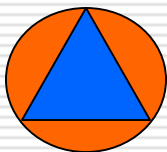
Civil Protection in Bulgaria



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Seismic hazard and Seismic risk





REPUBLIC OF BULGARIA
MINISTRY OF INTERIOR
CIVIL PROTECTION DIRECTORATE-GENERAL



Civil Protection is an element of national security of the Republic of Bulgaria and is a system of humanitarian activities of social, organizational and economic character provided to protect the population and property, prevention and reducing losses and harmful effects, conducting rescue and emergency activities, establishing the necessary conditions for survival and support in cases of disasters, accidents, catastrophes and armed conflicts.

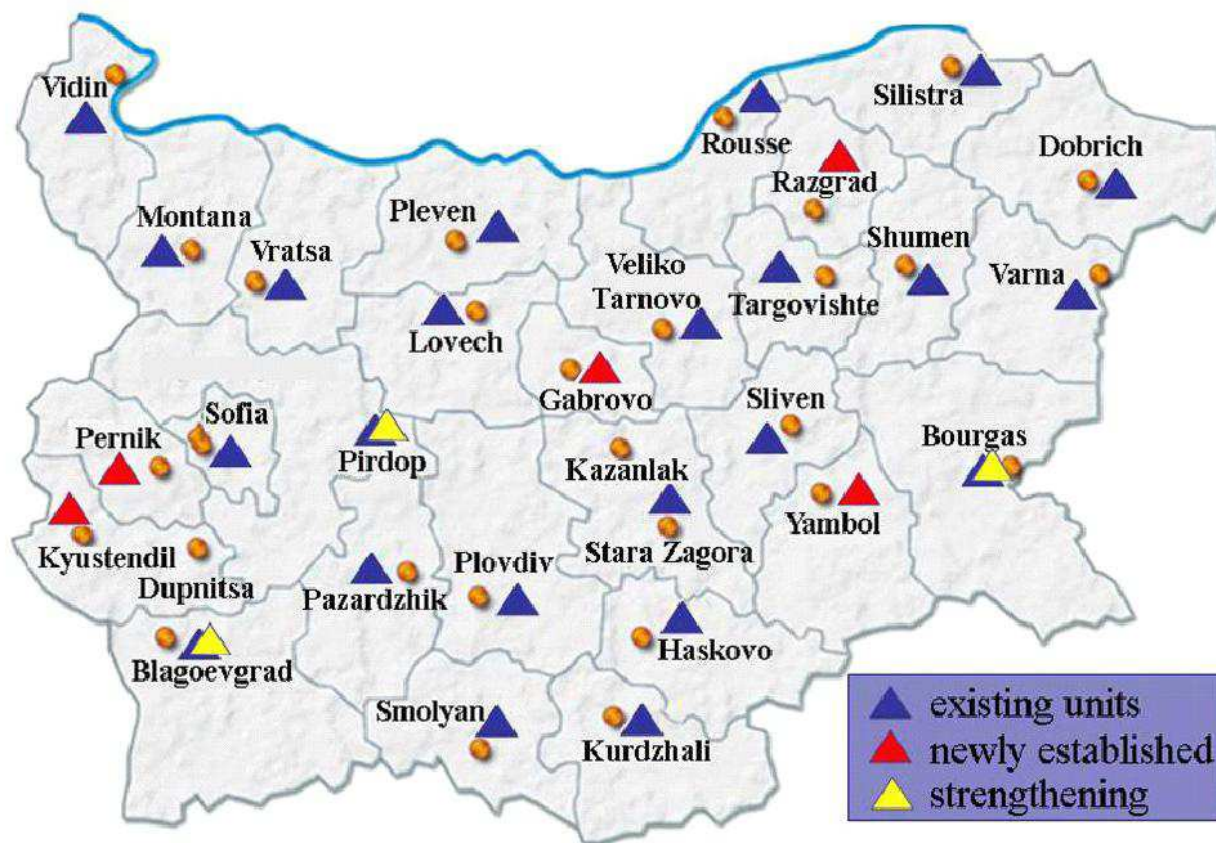


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Civil Protection is a structure with 73-year history. According to the amendments of the Ministry of Interior Act as of 24 november 2009 the structure became a Civil Protection Directorate-General to the Ministry of Interior.



There are 28 civil protection regional sections included in the directorate-general.

31 professional rescue teams operate under the regional sections for carrying out of emergency rescue actions in the event of disasters.



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The units have the real experience and numerous participations in rescue actions in the country and in international missions and trainings abroad. All units operate up-to-date special appliances and equipment for emergency rescue actions.

They are provided with modern emergency rescue and four wheel drive on-road and off-road vehicles as well as brand new protective outfit.



DG Civil Protection is main part of the integrated rescue system of Republic of Bulgaria.

There is a situation center, 24 hrs operational and with constant contact with all national and international partners in case of disaster.

Developed in 2009 and includes the following subsystems:

- Communication
- information
- GPS
- Video surveillance
- Video-conference
- Alarm and information of the government and components of the integrated rescue system
- Siren System For Information And Alarming Of The Population



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The integrated rescue system of Republic of Bulgaria is the organization, coordination and management of the activities of the services and institutions in preparation for response of disasters occurring,



And when the need arises of simultaneous execution of rescue and emergency operations of two or more parts of the system.

All regions of the country organize every year regional field exercises for the parts of integrated rescue system.



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Every year Civil Protection organizes national full-scale exercises which include at least 3-4 regions of the country.

Usually scenarios include **earthquakes**, floods, chemical or industrial accidents.

Professional training center in Montana



Main activities:

- Training of rescuers and experts from the structures of civil protection directorate-general;
- Special training on radiological protection; • training on external programs (volunteers, units of the integrated rescue system, experts from headquarters for coordination in case of disasters);

- Organizing and conducting of national and international exercises;
- Conducting scientific and methodological activities.



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Structure of the Geophysical Institute of Bulgarian Academy of Sciences

Geophysical Institute Departments

Seismology

**Physics of
Atmosphere**

**Physics of
Ionosphere**

**Geomagnetism and
Gravimetry**

**National
Seismological
Survey**
Real time data transfer,
Near real
time data processing
24 hour on duty

**UV and
ozone
sounds**

**Ionosphere
Survey**

**Geomagnetic
Survey**

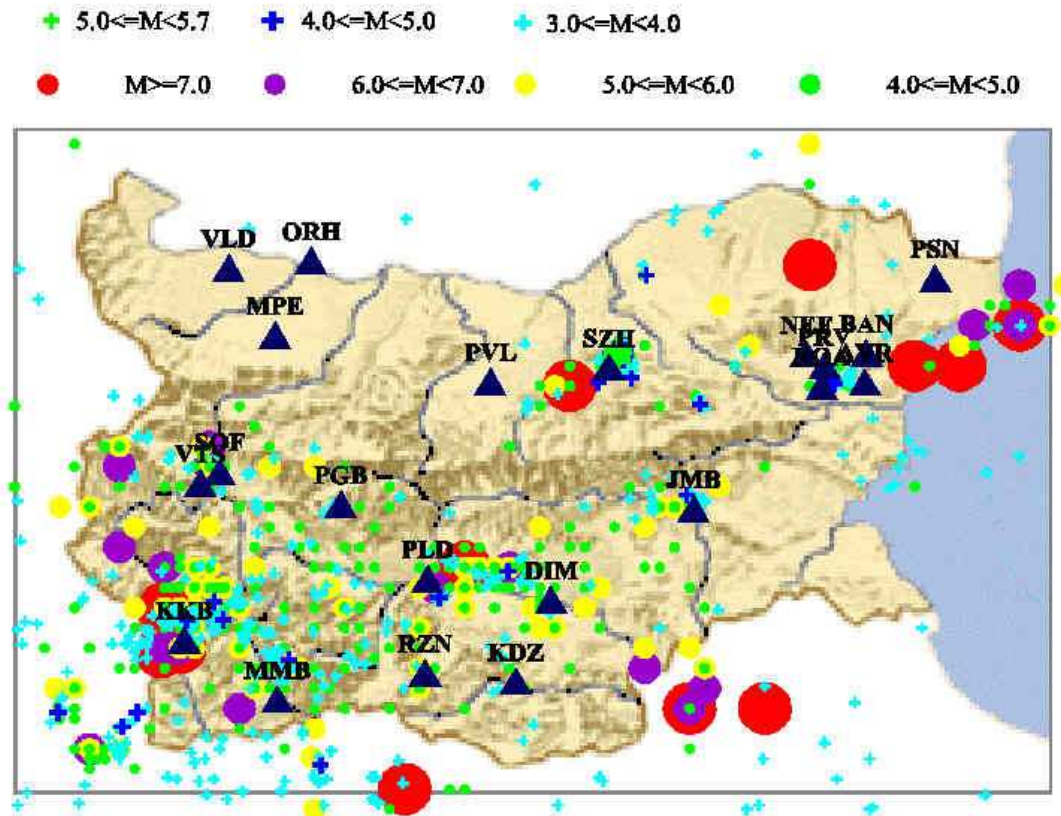


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Bulgarian Seismological Network

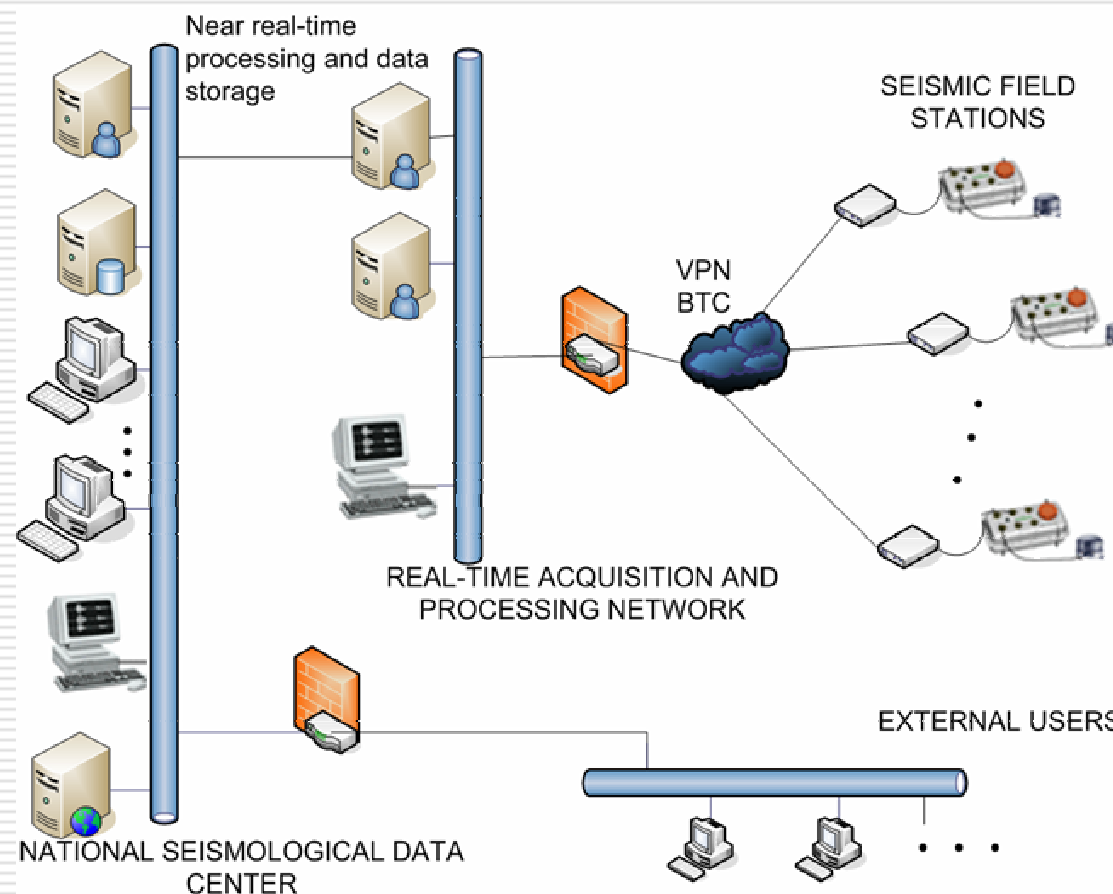


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Scheme of the network for acquisition and processing of seismological data

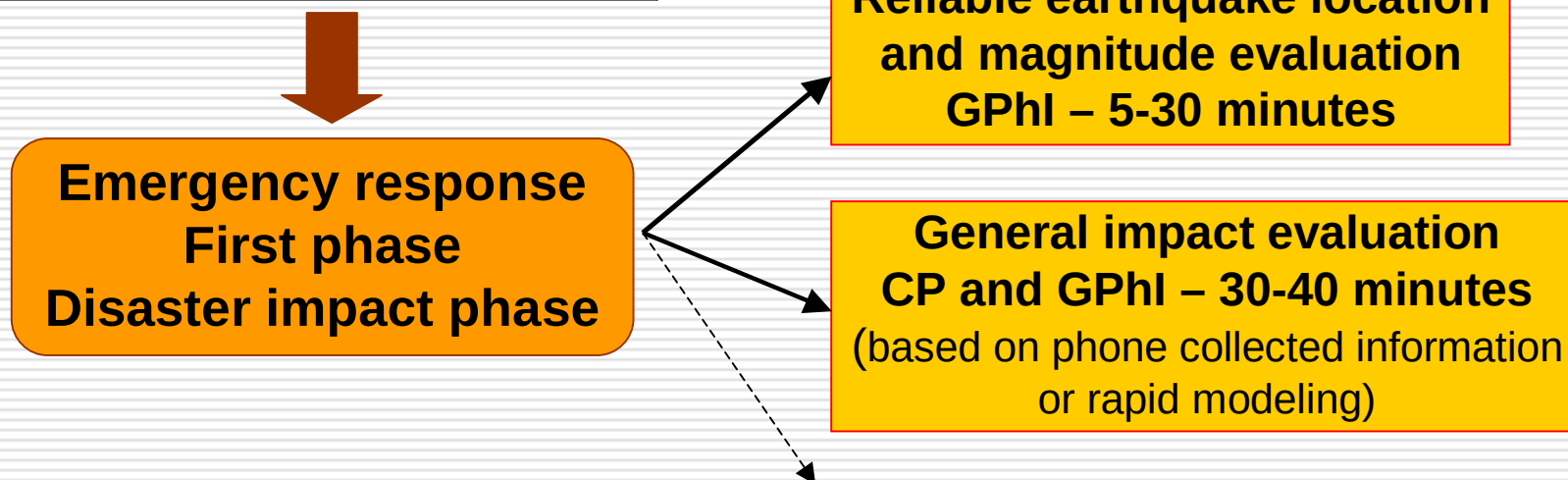


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EARTHQUAKE



During the disaster impact phase, when everybody is in panic situation, including the staff who should handle the disaster, when the system breaks down, lack of human resource and others, an rapid information based on data provided by space will get rid of the situation.



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HAITI Earthquake M=7.0

Before earthquake

After earthquake



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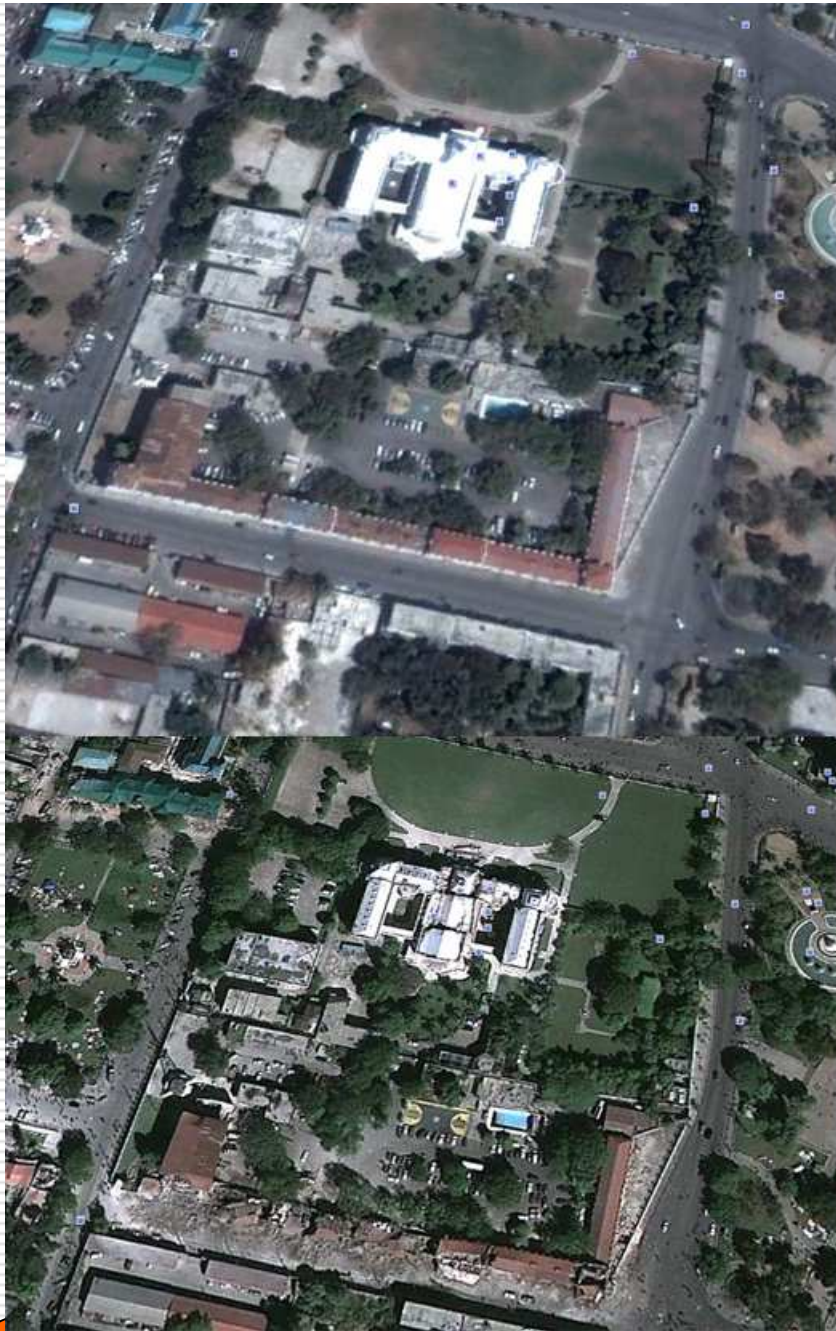
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Thank you for the attention!

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