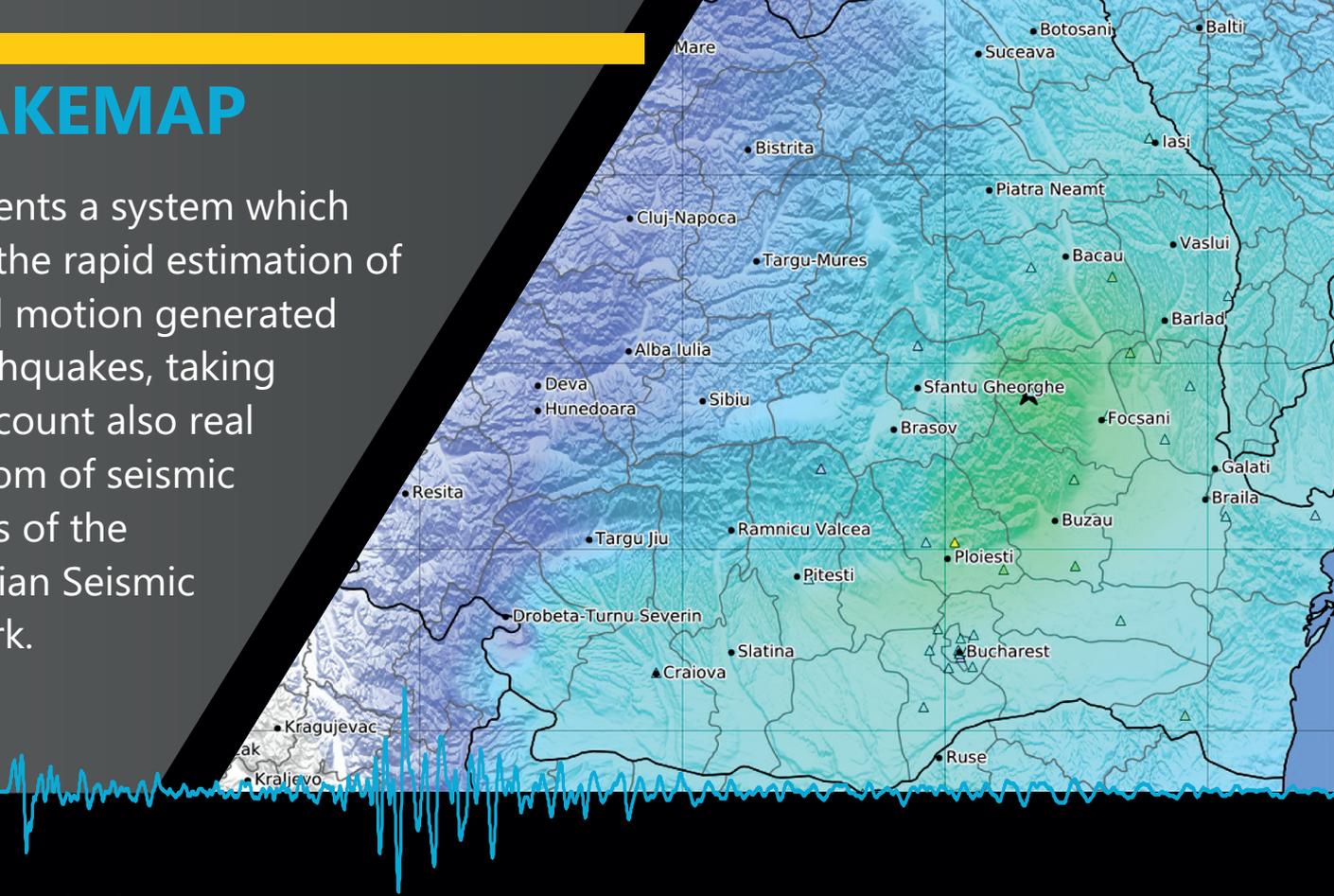


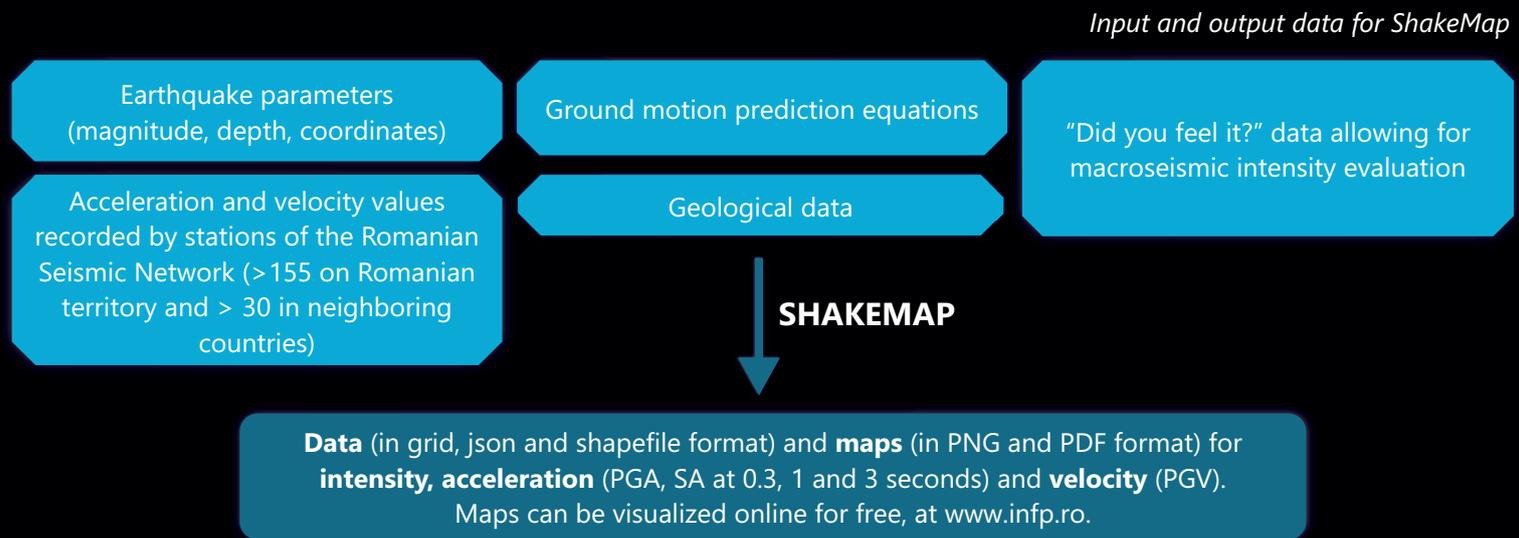
SHAKEMAP

Represents a system which allows the rapid estimation of ground motion generated by earthquakes, taking into account also real data from of seismic stations of the Romanian Seismic Network.



Characteristics

- **Allows the rapid estimation of ground motion due to an earthquake**, highlighting areas exposed to a specific hazard level.
- **Results are generated automatically, in 3-4 minutes after the occurrence of an earthquake with magnitude ≥ 3 in Romania and nearby**. As new data becomes available, maps are updated.
- The system **relies on the last version (v4) developed by the United States Geological Survey (USGS), USA, adapted by INFP** to intermediate-depth and crustal earthquake characteristics in Romania and local site conditions .
- It offers input for Seisdaro (The system for the rapid estimation of seismic damage in Romania).

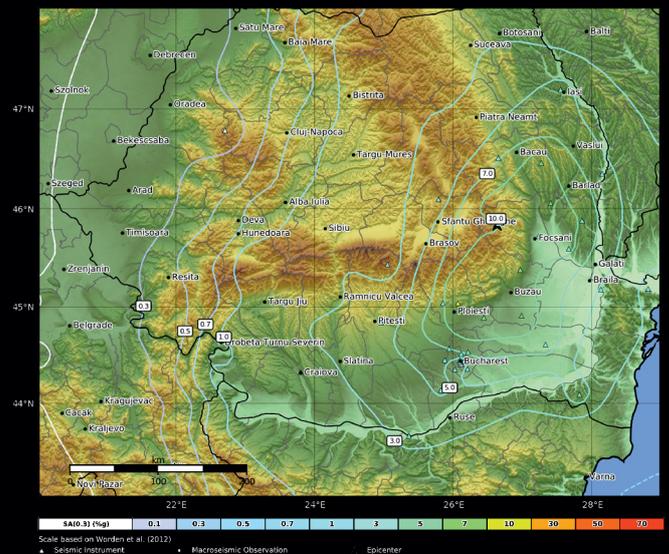
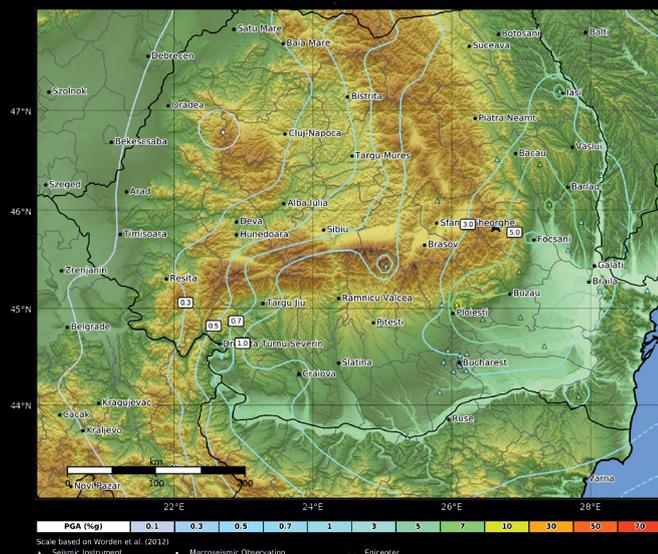
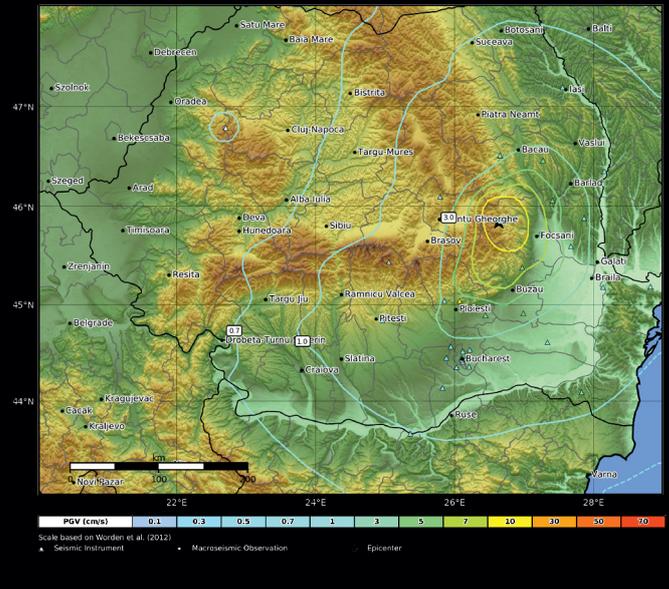
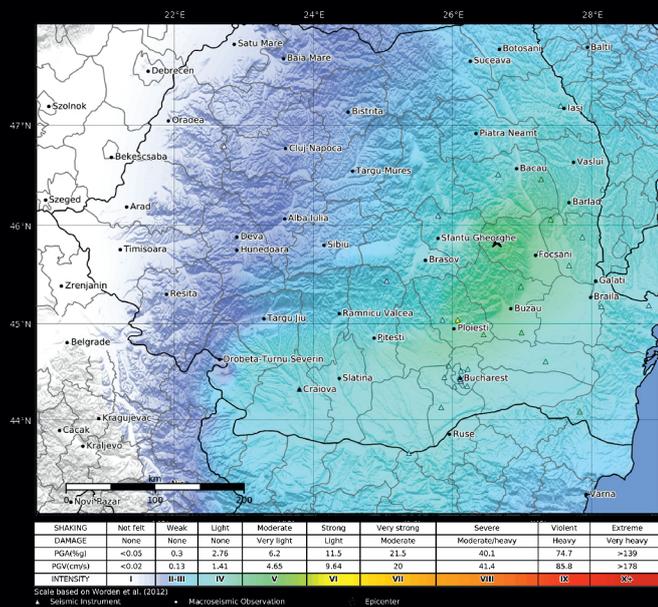


SHAKEMAP

Examples of applications

ShakeMaps, generated immediately after a felt earthquake or for representative scenarios, are very important for:

- a prompt emergency response and better targeted emergency intervention;
- intervention planning, proper training and allocation of resources in case of an earthquake;
- estimation of seismic damage and socio-economic losses, with applications also in the insurance and reinsurance sector;
- seismological and earthquake engineering research;
- general public education and outreach.



ShakeMap output (replay with ShakeMap v4) for the 27 October 2004 earthquake (Mw 6.0, 96 km depth)

Part of ShakeMap results can be viewed at <http://atlas2.infp.ro/~shake/shakemap> (accessible also through the www.infp.ro website)

For a detailed offer and collaboration proposals, contact us at:
contact@infp.ro or **+40214050670**