

# European Landslides Expert Group

## Recent developments and planned activities

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<http://eusoils.jrc.ec.europa.eu/library/themes/Landslides/>

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- Recent landslide disasters both in Europe and worldwide (e.g. debris flows in China in August 2010, landslide dams in Pakistan rivers during 2010, earth flows in Uganda in March 2010, slides, mud and debris flows in Italy in 2009-2010, and deadly rock falls in Spain, Portugal, Italy and Germany in 2009 and 2010), associated to heavy rainfall events and growing development in landslide-prone areas, prompt not only for emergency plans but also adequate prevention and mitigation measures
- Both preservation of soil functions including the capacity of development of human activities and landslide disaster prevention measures need reliable landslide potential maps. These can range from generalised pan-European small scale products to more detailed national and regional maps using a harmonised approach based on “Tiers”

- Improvement of methodology for the production of a European-wide landslide susceptibility map at 1:1 Mil. scale using a heuristic model and common European datasets ("Tier 1" approach), completion of a first experiment and validation of preliminary results.
- Production of a preliminary "Tier 1" landslide susceptibility map of France at 1:1 Mil. scale (in collaboration with CNRS Strasbourg)
- Successful submission of project proposal entitled "Tier-based harmonized approach for landslide susceptibility mapping over Europe" to UN-supported International Programme on Landslides of the International Consortium on Landslides
- Experts Meeting held at JRC Ispra on 26-27 May 2010:
  - Landslide susceptibility mapping recommendations for European and national scales
  - Work plan for production of final Tier 1 susceptibility map of Europe

- Production of a final “Tier 1” European landslide susceptibility map at 1:1 Mil. scale
- Further improvement of the “Tier 1” preliminary landslide susceptibility map of France at 1:1 Mil. scale (CNRS Strasbourg) and definition of a “Tier 2” mapping experiment in France
- Application of “Tier 2” methodology to develop landslide susceptibility map of Italy at 1:1 Mil. Scale (CNR-IRPI Perugia) based on statistical modelling and national landslide inventories
- Application of “Tier 2” approach for Great Britain by BGS
- Further recommendations for national- and regional-level landslide susceptibility and hazard maps from “Tier 2” and successive Tiers, based on newly available data and preliminary results from national-scale susceptibility assessments by Expert Group members