

ROMANIA - MINISTRY OF INTERNAL AFFAIRS

GENERAL INSPECTORATE FOR EMERGENCY SITUATIONS

# Measures to reduce disaster risks at national level

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## Types of risks in Romania\*

- **NATURAL RISKS**
  - FLOODS
  - STORMS
  - TORNADOES
  - DROUGHT
  - EARTHQUAKES
  - LANDSLIDES
  - FOREST FIRES
  - AVALANCHES
- **TECHNOLOGICAL / MAN-MADE RISKS**
  - ACCIDENTS, DAMAGES, EXPLOSIONS AND FIRES
  - WATER POLLUTION
  - PUBLIC UTILITY FAILURE
  - UNEXPLODED AMMUNITION
- **EPIDEMICS AND EPIZOOTICS**

\*) According to Government Decision no. 2288 of December 9, 2004 for approval of principal support functions of ministries, central authorities and NGO's for prevention and management of emergency situations

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## Factors of risk

$$r = \frac{h \times v}{c}$$

- Hazard – a potential dangerous natural phenomena or man-made
- Vulnerability – dependence of people by different systems (public utility, processed food, internet), poor awareness, preparedness etc.
- Capacity – all the means existent in national or local level to mitigate, react and reconstruct after an emergency situation

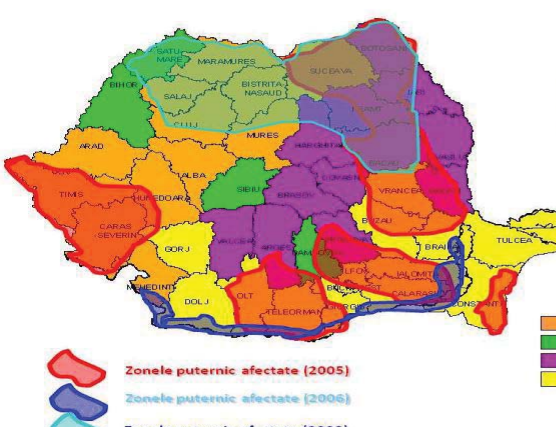
r= risk  
 h = hazard  
 v = vulnerability  
 c = capacity

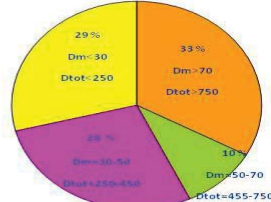
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## The vulnerability assessment and major floods of 2005, 2006, 2008 and their impact





**Dm – Nivelul mediu al pagubelor (Bil. ROL)**  
**Dtot- Pagube totale (Bil. ROL)**

- Vulnerabilitate foarte mare
- Vulnerabilitate mare
- Vulnerabilitate medie
- Vulnerabilitate mica

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## Main specific hazards for Romania

### Floods

- The frequency of floods, in relation to a time period of about 100 years is approximately 50% of events.
- Between 2005 and 2013 every year there have been notable floods during which casualties and great damage occurred.
  - 160 casualties.
  - 2005 – 40 counties affected, 2006 – 34 counties affected, 2007 and 2008 – 18 counties affected, 2009 – 11 counties affected, 2010 – 37 counties affected, 2011 – 33 counties affected, 2012 – 38 counties affected and 2013 – 39 counties affected).



**Zone cu risc potențial semnificativ la inundații  
(Area of Potential Significant Flood Risk - APFSR)**

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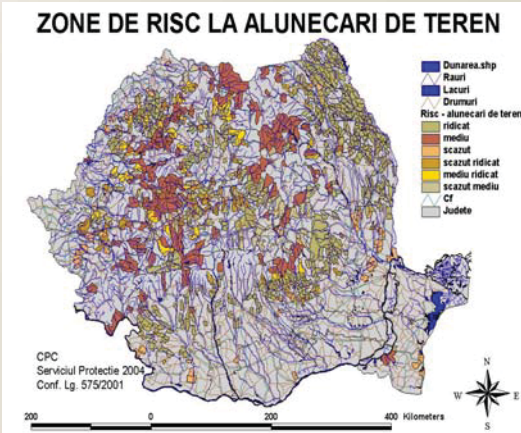
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## Main specific hazards for Romania

### Landslides

- In Romania, the landslides are quite common. The total area subjected to landslide is around 900.000 ha. The deepest and well-known landslide is the displacement of the Suhardelul Peak, which led to obstruction of the Bicaz River and to the formation of the Red Lake.
- Exposure to the risk of landslides is estimated at: 34 municipalities, 78 small town, 875 communes, approx. 540.000 ha



**ZONE DE RISC LA ALUNECARI DE TEREN**

CPC  
 Serviciul Protecție 2004  
 Conf. Lg. 575/2001

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**Bentu dyke rehabilitation**

Source: independentonline.ro

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**TWO GROUPS OF ACTORS**

Public authorities      Communities

**ONE GOAL**  
Disaster Risk Reduction

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