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# **Accidents and Disasters**

Overview of the EU's action

**Technical University of Crete (TUC) Training of teaching staff for innovative teaching methods 11 July 2017** 

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The views expressed are those of the author and do not necessarily represent official positions of the European Commission

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**Protecting Citizens from Accidents and Disasters** 

Methodological introduction

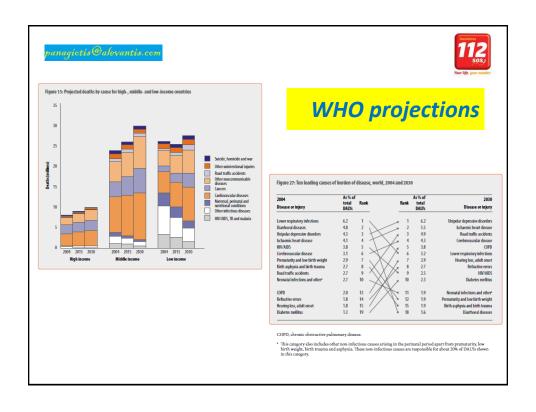


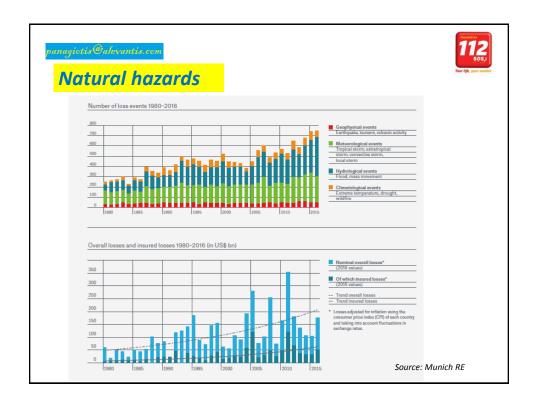


# **Basis for decision-making**

- Human impact
  - Global burden of disease and Global risks (WHO statistics)
  - Injuries in the EU (EU statistics)
- Economic impact
  - Re-insurance data (Munich RE statistics)
- Public opinion
  - Opinion polls (Eurobarometer)
  - Mass media
- · Industrial, political and academic lobbies
- Competences conferred by the Treaties (legal basis)
  - Exclusive, shared with or supportive to the Member States





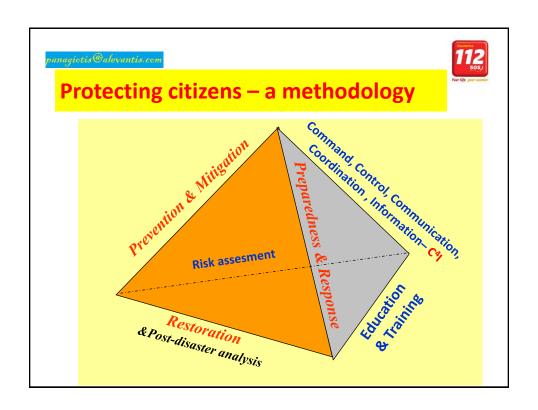


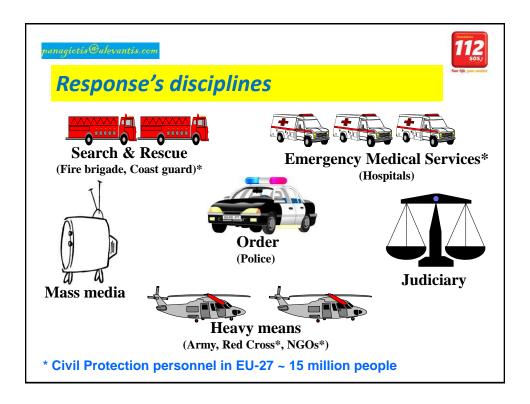
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# **Psychological element**

- Enschede (NL) fireworks explosion in 2000
  - 22 dead
  - 947 injured
  - 12.000 sessions with psychologists in the next 4 years
- Post-traumatic stress disorder (PTSD)
  - Compare with forecasted increase in depressive disorders







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# **EU legislation – Prevention (Workplace)**

- DIRECTIVE on the minimum health and safety requirements for the use by workers of personal protective equipment at the workplace
- DIRECTIVE on the minimum requirements for the provision of safety and/or health signs at work
- DIRECTIVES on workplaces, work equipment, explosive atmospheres, mobile construction sites, mineral- extracting industries (drilling & surface and underground), manual handling of loads, display screens, noise, vibrations, electromagnetic fields, carcinogens/mutagens, chemical/biological agents, asbestos, pregnant women, young people.

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# **EU legislation – Prevention (Transport)**

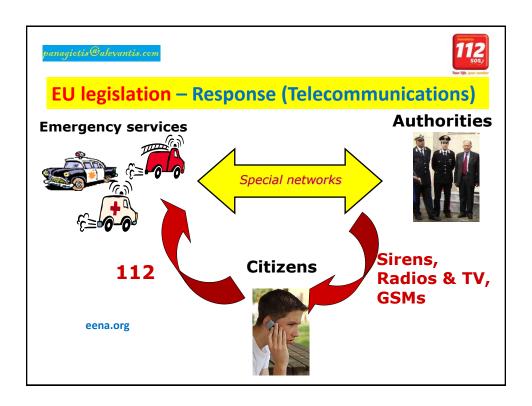
- Road/Rail transport of dangerous goods (directives, inspectors, specifications for vehicles & containers), Safety in tunnels
- Aviation safety, European Aviation Safety Agency, Skills of air personnel
- Action for road safety (shared responsibility)

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## **EU legislation – Prevention (Products/Services)**

- Product safety and recall Early warning network, Directives on chemicals
- Fire safety in hotels
- Directives on explosives for non military uses, pressure equipment
- Eurocodes (structural design, concrete, steel, timber, masonry structures, earthquake and fire resistance)



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### **EU legislation – Public health, Food safety**

#### Public health

- Infectious diseases monitoring networks, European Centre for Disease Prevention and Control
- Directives on blood, tissues, cells, tobacco products
- Recommendations on nutrition, drugs, mental health, alcoholism, exercise
- Public health action programme (shared responsibility)
- Regulations, Directives on Food safety
- Early warning, emergencies, crisis management

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### **EU legislation – Disasters (chemical, nuclear, ...)**

- Directive control of major-accident hazards involving dangerous substances (**Seveso**)
  - Safety report, emergency plans, land use, information to the public, inspections, substances (types, amounts, industries), Major Accident Hazards Bureau (MAHB)
- Directive on safety standards for protection against the dangers arising from exposure to **ionising radiation** 
  - Dose limits, emergency plans, information to the public, iodine pills
- Decision on arrangements for the early exchange of information in the event of a **radiological emergency** (ECURIE network)
- Directive on the identification and designation of European critical infrastructures and the assessment of the need to improve their protection
- Directive on safety of offshore oil and gas operations

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### **EU legislation – Disasters (other)**

- Marine pollution (inspections, monitoring, double hull vessels)
- Earthquakes (building materials, Eurocodes)
- Directive on floods (prevention, protection, mitigation, early warning system - JRC)
- Forest fires (Rural development, European forest fire information system – JRC)
- Civil Protection Mechanism & Funding Instrument
- Solidarity Fund
- Humanitarian Aid (Emergency & Food aid, Support of Refugees and migrants)

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# **Research and Innovation – Horizon 2020 chapters**

- Leadership in Enabling and Industrial Technologies
  - Space (Galileo, Earth Observation, Space Surveillance and Tracking)
- Climate Action, Environment, Resource Efficiency and Raw Materials
  - Climate change resilient economy, Earth Observations (climate, energy, natural hazards & societal challenges)
- Societal Challenges
  - Health, Secure societies (critical infrastructures, crime & terrorism, digital security)

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### **Research and Innovation – Procedures**

- Consultations on annual priorities (contact your national representative)
  - Work programme ⇒ Calls for proposals
- Become an evaluator
  - Networking in your area of expertise
- · Submit project for funding
  - Consortium
  - European dimension
  - Useful for operational services

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## Thank you!

Questions



#### More information

- http://europa.eu/
- http://eur-lex.europa.eu
- <a href="https://ec.europa.eu/jrc/en">https://ec.europa.eu/jrc/en</a>