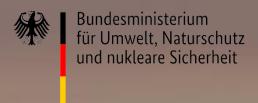




Understanding and preventing accidental water pollution as a result of natural hazards (Natech): lessons learned

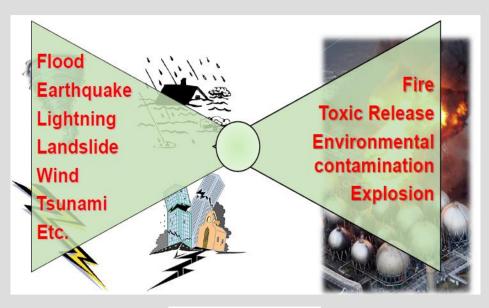




Joint Expert Group on Water and Industrial Accidents

Seminar on emerging risks in accidental water pollution: focus on natural hazard-triggered accidents
Budapest, Hungary and online, 5 October 2022





Source: JRC Ispra



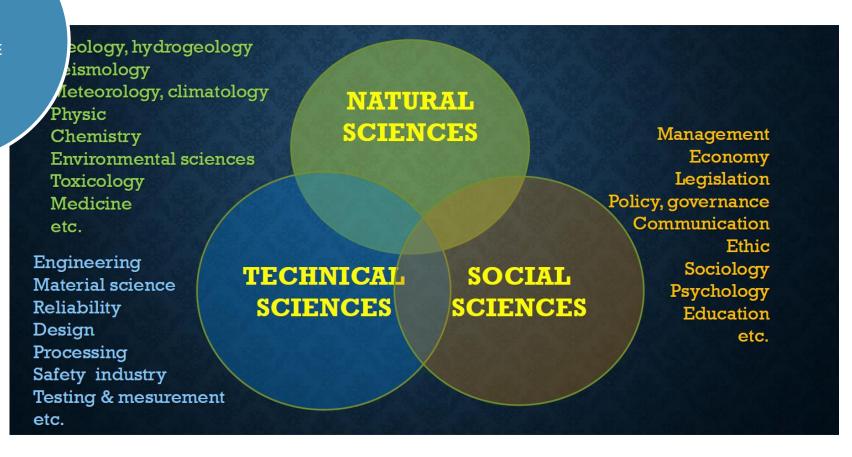
NATECH: GROWING AWARENESS

- In the past two decades, we meet more and more frequent events, when natural phenomena cause chemical accidents Natech
- Some institutions are active in Natech understanding and prevention, e,g, UNECE, OECD and since Sendai Framework, UNDRR as well
- Climate change, poor economy and social instability aggravate Natech risks

SOME LESSONS WHICH HAVE ALREADY BEEN LEARNED FROM NATECHS

- About 5% of chemical accidents are Natech events
- Natech events frequently relate to water as cause or as environmental compartment
- There is a high possibility of transboundary impacts
- The natural event can block access to the facility and hamper communication; back-up plans are needed
- Response resources and lifelines may be unavailable because of the natural disaster
- Secondary containments may fail due to flood events
- Natech accidents can easily propagate to nearby units and neighboring facilities (domino effect)
- Emergency plans should address Natech events and responders should be prepared for various scenarios
- Understanding and preventing Natech accidents demand better knowledge base

DISCIPLINES IN NATECH KNOWLEDGE BASE



EMERGING NEEDS

- Better understanding of Natech
- Systemic and systematic approach is the key tool to prevent and to mitigate Natech
- Teamwork is necessary to understand and prevent Natech
- Already arising collaboration of institutions as national governments, UNECE, OECD, UNDRR (and other stakeholders) should be strengthened
- International exchange of experience and good practices is very important