



# First Expert Forum for Producers and Users of Disaster-related Statistics

"The Geospatial Dimension"

# THE CASE OF TOUS DAM

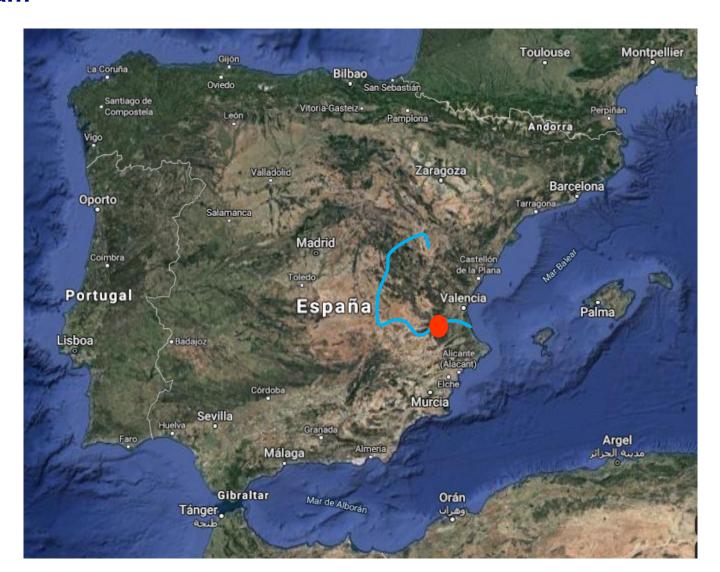
#### Miguel Polo Cebellán

Presidente de la Confederación Hidrográfica del Júcar Secretario Técnico Permanente REMOC-REMOB-MENBO



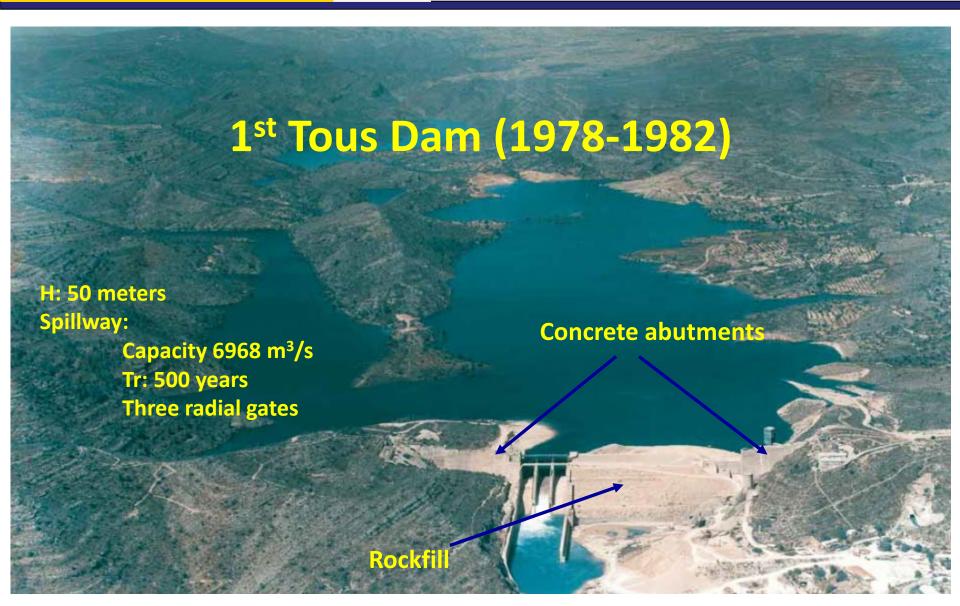


## **Tous Dam**



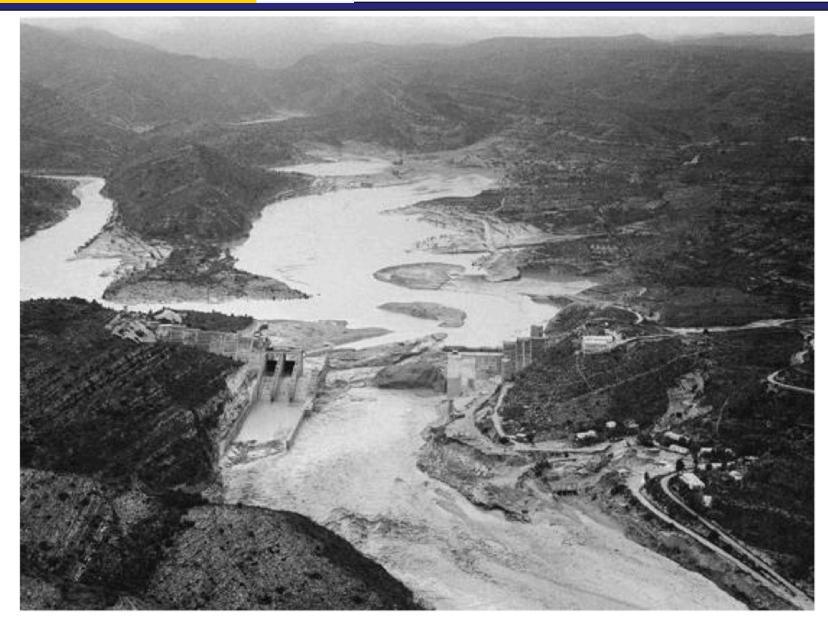






CONFEDERACIÓN HIDROGRÁFICA DEL JÚCAR, O. A.











#### **Problems revealed**

- 1. Lack of data led to undersizing the Spillway of the project of the Dam
- 2. During the storm, it was not known:
  - how much rain had fallen,
  - the flow that circulated through the rivers
  - potential damage that could be affected by the break of the dam.





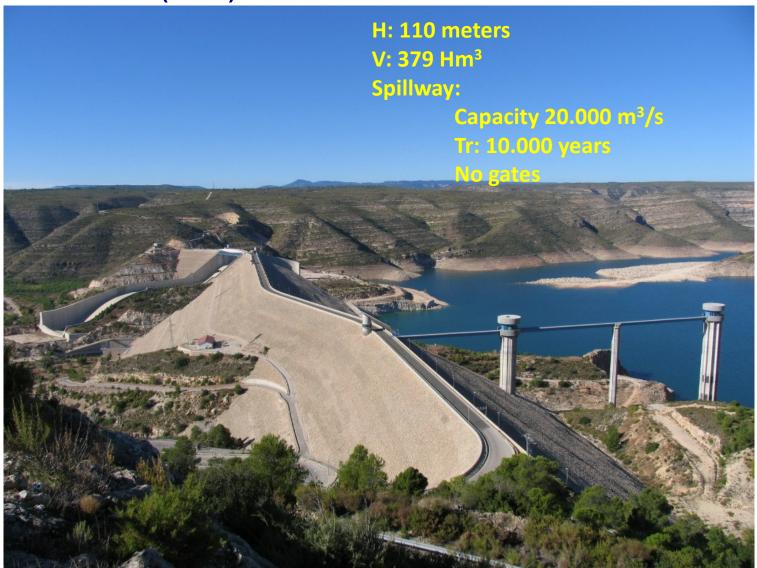
### Consequences

- The regulations on the construction and operation of dams in Spain were changed, affecting matters related to safety.
- Automatic Hydrological Information Systems (AHIS), were created in all the hydrographic basins in Spain, for the purpose of provide real-time rainfall data, levels in reservoirs and flows throughout the rivers.





# Tous New Dam (1996)







#### Final advise

The possibilities that may occur in the future are unpredictable.

It is a duty of all of us, instead of predicting bad things, to promote all those that can make a better world.

K. Popper

We need data to predict disasters, but we have an obligation to be optimistic.





# Thank you for your attention