

# Priority needs, success, failures CZ perspective

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## **CHMI Hydrological Service**

- Observation
  - ISO 9001 implemented
  - ADCP internal regattas
- Data processing and assessment
  - New method for flow statistic analysis in ungauged basins
- Forecasting and products
  - Flood forecasting from 2001 (1 h resolution, 48 lead time)
  - Evaluation freely presented
  - Short term ensembles (since 2014)
  - 10d outlook (since 2016)
  - 30d ESP (since 2014)
  - FFG-CZ since 2011, stage 2 since 2015
  - NRT data (10 min), groundwater, snow, soil moisture
  - Drought oriented products
  - Basin based cooperation



#### Hydrology in Europe - achievements

- Increased cooperation and data sharing (internationally as well as between communities)
- Increased skills in real time monitoring, forecasting and data and products presentation
- Increased understanding of needs of user oriented products

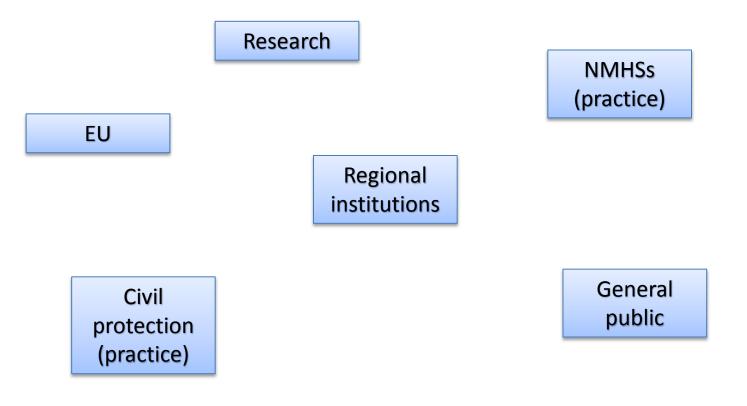


#### Hydrology in Europe – remaining problems

- International Commissions are under recognized at EU and RAVI level
- Hydrology is under-recognized (RAVI, EUMETNET) – hydrology is like meteorology, climatology and air quality in one
- Research-practice gap grows

### **Research-practice gap**

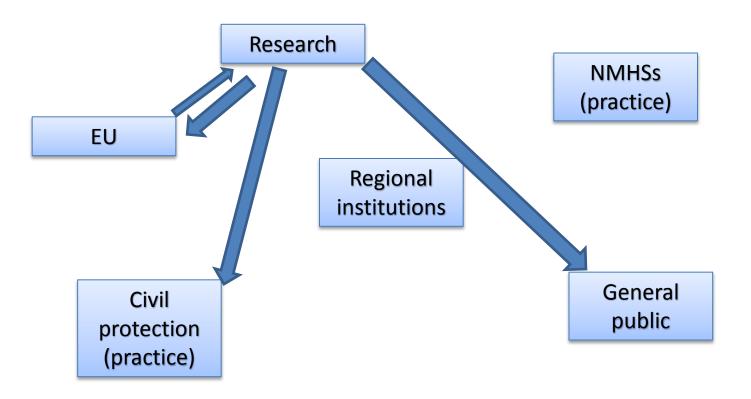
• Research should be user driven





### **Research-practice gap**

- Research should be user driven
- But it looks, than research mistankenly identifies the users...





#### **Resulting problems**

- Operational systems developed that bypass single voice principle
- "we know better in center what you need"

Example of EFAS flood mapping, whose responsibility is to do this? Once you shift to impact based flood forecasting how you ensure you comply with flood risk management plans at different levels....?



Sharing the information and experience is very important

• RAVI Hydrology forum has a potential to play such a role

- Closing research practice gap?
- Research often provides e.g. web tools for general public, but not that many tools for NMHSs in house practice
  - It is nice to have a portal with satellite precipitation estimates pictures, but a tool for its use in NMHSs daily work is missing



- We all do forecasting but what is our performance? We like to present success, not failures <sup>(i)</sup> e.g. Is EFAS performance evaluation available?
- Establish a framework for forecast and warning evaluation across the Europe?

- Europe is leader in historical hydrology and paleohydrology
- (Guide, Technical Document for CHy)

- Experience with Regional and Global centers (EFAS, GLOFAS) and data exchange
- Advice on rules of acceptance of centers for WMO .....comments on GDPFS and WHOS, become a pilot?

## Thank You for Your Attention



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