

HEPEX 10th Anniversary Workshop –
A Review
of What We Have Achieved

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Main Objective

- “Bring the international hydrologic community together with the meteorological community to demonstrate how to produce reliable “engineering quality” hydrological ensemble forecasts that can be used to assist the water resources sector to make decisions that have important consequences for the economy and for public health and safety”



What Did We Do?

- Operational hydrologic ensemble predictions exist in Europe and in U.S. – and are being used!!!!
- You are here as part of a COMMUNITY of HEPEX PARTICIPANTS that
 - Run HEPEX (without funding, no bureaucracy, all volunteer)
 - Open to everyone
 - Connect to other communities and users
 - Connect to each other (more about this next presentation)
 - Test new ideas
 - Develop increasingly valuable services
 - Meet real user needs, e.g.:
 - NYC water supply OST
 - European Flood Awareness System
 - More (see agenda)

What Did We Do?

- Special sessions at EGU, AGU, AMS
 - Every year several sessions
- 14 (+/-) HEPEX Workshops
 - ECMWF, NCAR, JRC, Deltares, Meteo France, UNESCO-IHP, NOAA/NWS
- Monthly Webinars
- Handbook (in preparation – Yun Duan)
- Advocate for research funding (e.g. EC Framework program)
- More – what did I leave out?

Science Agenda

- **Why** is hydrologic ensemble prediction (**HEP**) important?
- **What** research is needed?
- **How** can atmospheric forecasts be used as input for **HEP**?
- **Who** is going to do what?
- We have made progress on all 4

Looking Ahead

- **New Question:** How can **HEPs** be used to make better risk-based decisions?
 - Emergency management
 - Drought
 - Hydropower operations
 - Water supply
 - Multi-purpose water management

What Have I Learned?

- “People support what they help to create”
- Therefore, the HEPEX community needs to continue to extend into user communities
- Stakeholders need to be participants too.

Thank You

For all you have done and are doing.

And thanks for the memories.