

HEPEX

Hydrologic Ensemble Prediction EXperiment

HEPEX is...

- An international initiative in hydrology since 2004
- A specific mission to foster the links between communities of research and practice in hydrometeorology
- Several community activities, including online resources
- A SIP – Science and Implementation Plan

HEPEX Mission:

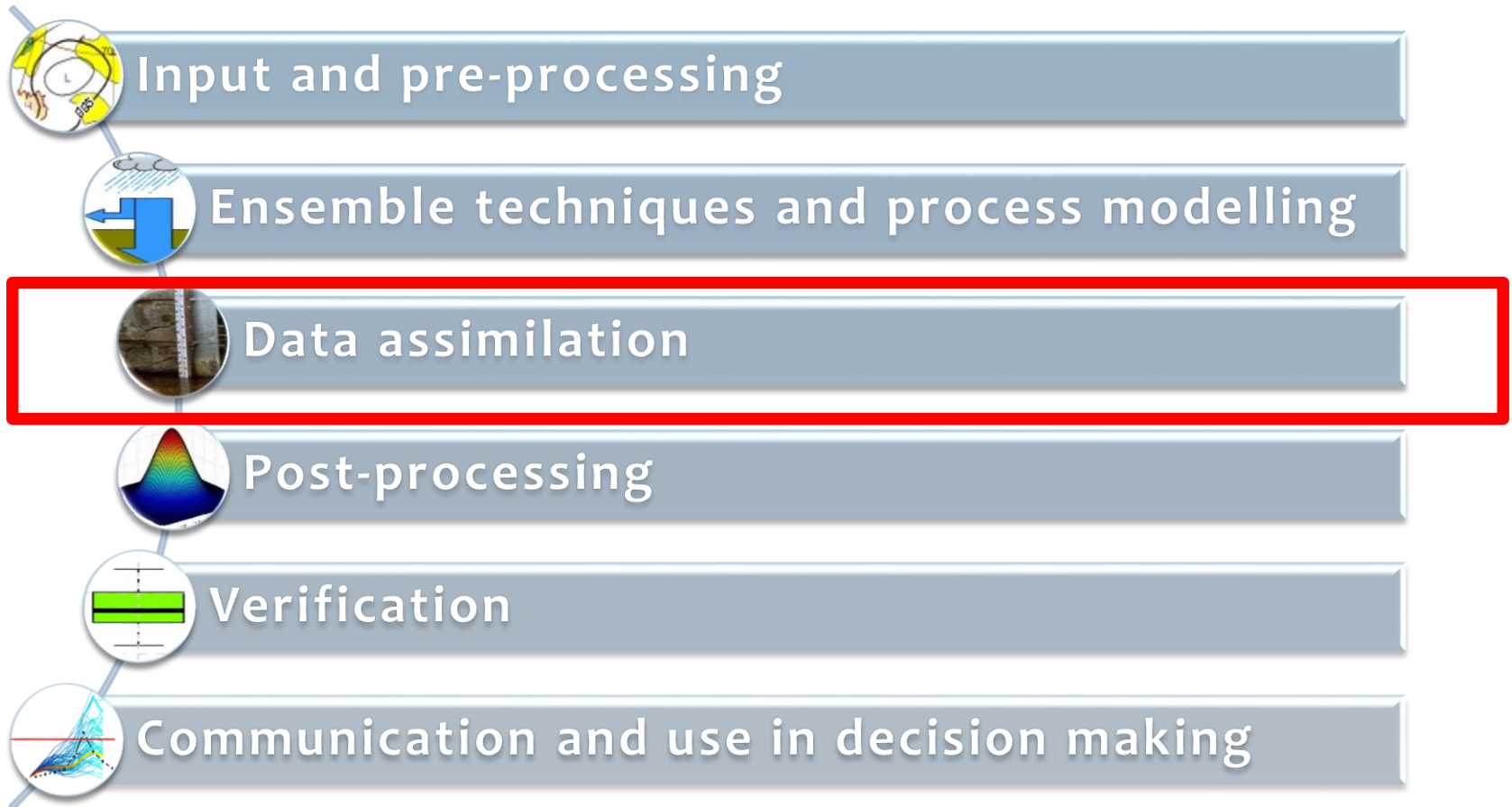
“The HEPEX mission is to demonstrate the added value of hydrological ensemble predictions (HEPS) for emergency management and water resources sectors to make decisions that have important consequences for economy, public health and safety.”



Three key science questions:

1. What adaptations are required for meteorological ensemble systems to be coupled with hydrological ensemble systems?
2. How should the existing hydrological ensemble prediction systems be modified to account for all sources of uncertainty within a forecast?
3. What is the best way for the user community to take advantage of ensemble forecasts and to make better decisions based on them?

Organisation around six themes:

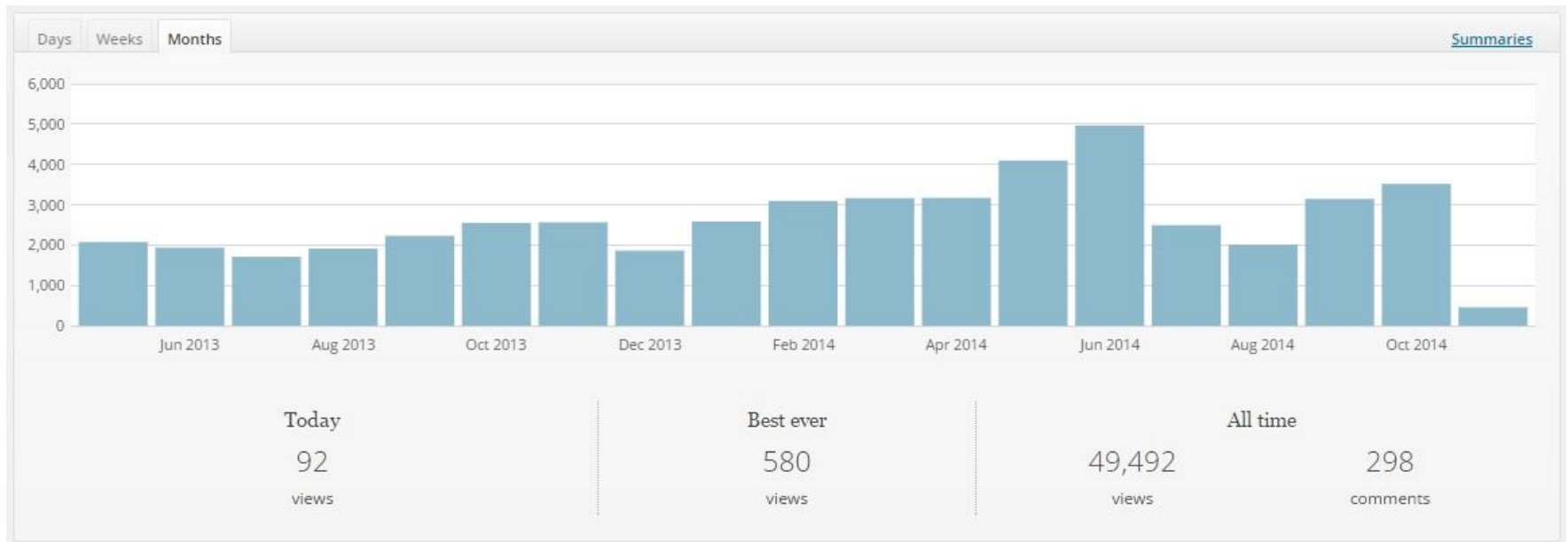


Community-based activities:

- HEPEX website and its blogs: community online interaction and shareable HEPS-related resources, columnists, announcements
- Workshops and sessions or meetings at major conferences
- Monthly online conferences (Webinars) and a HEPEX YouTube channel (<http://www.youtube.com/user/HEPEXWebinars>)
- Collaborative topical experiments and test beds: sharing data, methods and knowledge in HEPS
- Case studies highlighting operational or experimental real-time examples of HEPS in practice
- A HEPEX group on LinkedIn for professional opportunities
- A mailing list with about 300 members

HEPEX website in numbers

- 160 posts
- 298 comments
- 6 Pages
- ~50000 views



Coming up in HEPEX

- Session at AGU 2014, EGU2015 and IUGG2015
- Workshops on seasonal forecasting 2015
- Handbook of Hydrometeorological Ensemble Forecasting
- Guest columnists
- Twitter activity: #hepex

www.hepex.org

Recent activities in data assimilation

- Workshops and conferences
 - ▣ DAFOH I, Delft, The Netherlands, November, 2010
 - ▣ DAFOH II, Incheon, South Korea, September 2012
 - ▣ CAHMDA-VI and HEPEX-DAFOH III, Texas USA, September 2014
 - ▣ HSAF/HEPEX workshops Nov 2014

- Special issues
 - ▣ HESS, 2012
 - ▣ Journal of Hydrology (in press)

HEPEX – Hydrological Ensemble Prediction Experiment

HEPEX is what we make it!



Get connected, get involved!

- Connect to HEPEX through the web site
- Present your work in a Webinar
- Communicate with other members through: mailing list, LinkedIn, Twitter
- Attend HEPEX workshops and meetings
- HEPEX is a perfect portal to the hydrological community

Visit: www.hepex.org