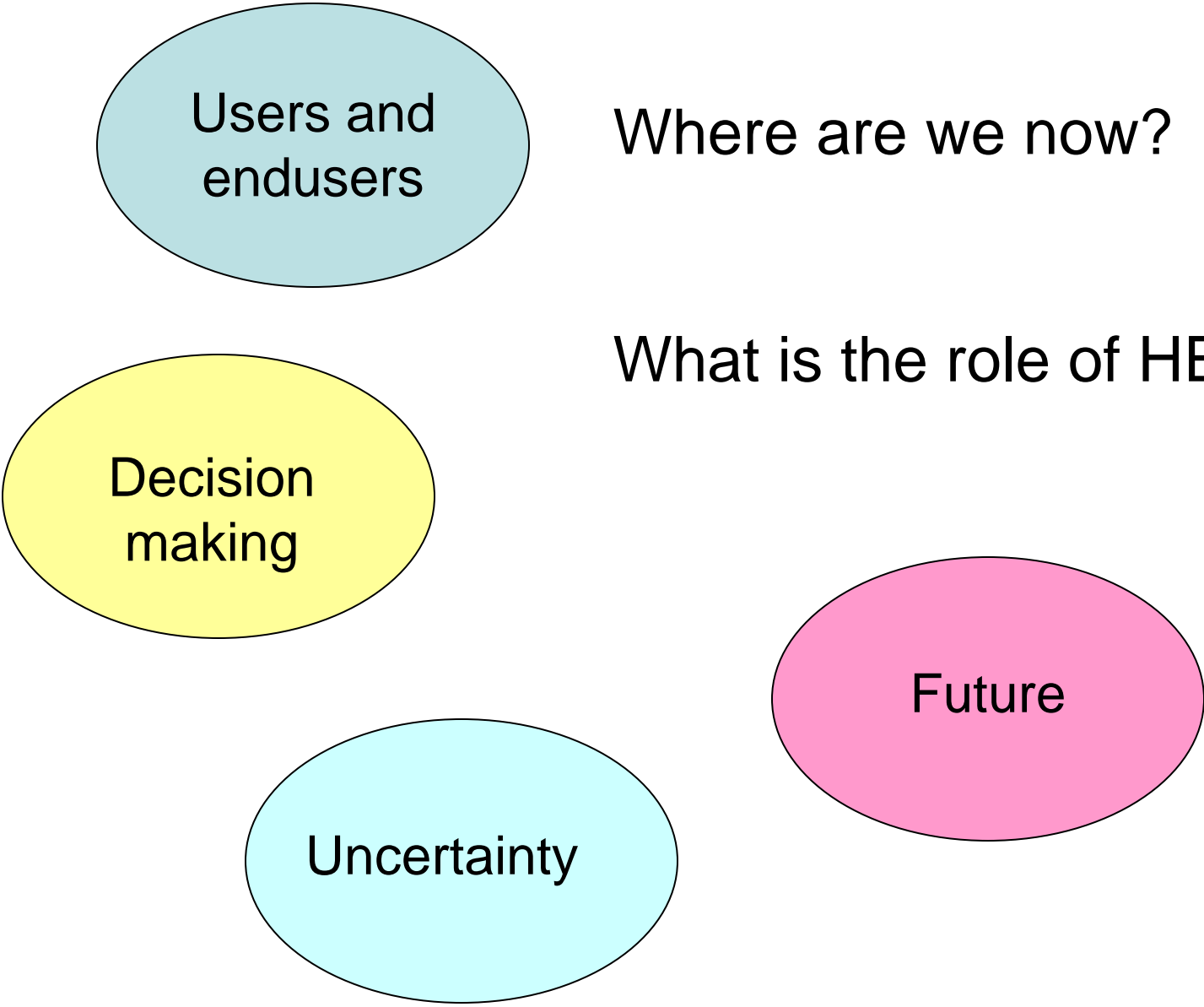


Discussion Working Group A: User oriented area



Users and
endusers

Where are we now?

Decision
making

What is the role of HEPEX?

Uncertainty

Future

Users and endusers

- what are users and what endusers?
- do we know them all?
- do they know they are end/users?
- end/users expertise differ
- different end/users have different needs, expectations and experiences

An enduser makes decision ...

Forecasters, meteorologists, researchers, civil protection, transport, agriculture, reservoir operators, ...

Experienced – medium knowledge with need of training – little interest and knowledge

HEPEX:

- Collect information from/about endusers for better understanding? Collect our expertise and put it on the web in a structured way (Who? How? Sustain?)
- Increase visibility/credibility in the end/user community -> training?How?
- Involve (more) endusers in the testbed projects. New testbeds? Dedicated testbeds to end/user topic?

Decision making

How to make decisions based on uncertain information?

- DM move from deterministic to uncertain forecasting -> tools and training
- incremental improvements may help DM to make better decisions
- added value needed for decision making – focus on input and not on output
- Roles: Scientist provides events and their probability; the end/user combines this with utilities to make best decision
- How do we operationally incorporate uncertainty in decision making

Role of HEPEX:

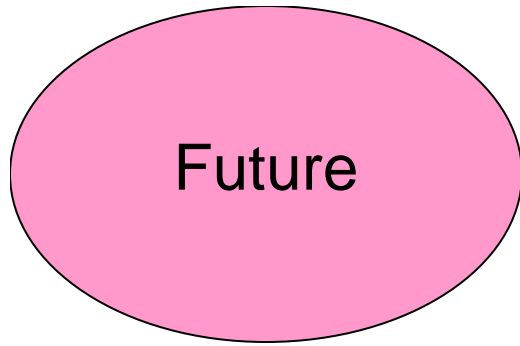
- foster sound and solid science, good input products, and help to introduce new methods into water (resource) management
- select appropriate tools for the different requirements
- decision making to be done on full hydrological cycle, not only floods
- replace deterministic forecasting with probabilistic information. Fill in black zones

Uncertainty

- In water management: mostly focus on uncertainty in supply, BUT there is also uncertainty of demands: urban, rural, agriculture, industry, households, etc.
- How much accuracy is useful or necessary?-> Accuracy of forecast does not need to be changed if the optimum decision is not influenced by it.

Role of HEPEX:

- Better understanding of uncertainty helps to promote probabilistic forecasts
- slowly replace deterministic approaches and thinking by probabilistic ones
- Encourage testbeds to involve endusers on this topic
- bring different disciplines together for discussion, exchange, training



The same models will just run faster on better computers...

...unless we start thinking about the future and the constraints to be overcome now.



Can the HEPEX community give guidance on what that vision should be – and for whom – and how to get there?