

# Climatic changes and their effect on hydrology and water management in the Rhine basin

Workshop

June 24-25th, Ede, The Netherlands

## Workshop goals

Peter Krahe – BfG, Koblenz

Hendrik Buiteveld - RIZA, Arnheim

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Eric Sprokkereef- CHR/KHR

Christoph Ritz -ProClim, Bern

KHR / CHR

International Commission for the  
Hydrology of the River Rhine Basin



Background

Themes

Questions

Outputs

## **Today's mission and tasks**

- **initiate and elaborate documents in the field of Hydrology, which are important for sustainable resource management of the River Rhine and the rivers in the catchment**
- **promote collaboration of hydrological institutes**
- **supporting the realisation of a sustainable river management by delivering the Decision makers of the bordering states as well as the EU with their findings**
- **and by the evaluation and development of strategies and measures**



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## **Eu-Project (1995 - 1997)**

**Impact of climate change on hydrological regimes and water resources management in the Rhine basin**

The project leads to the

**Nijmegeer declaration**

**Ongoing project (2002- 2005)**

**Changes in the discharge regime of the river Rhine**

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## A new project ?

- **present state of the art climate scenarios**
- **progress in hydrological modelling**

A lot of research was going on in the last decade

What do we know what not ?

A workshop

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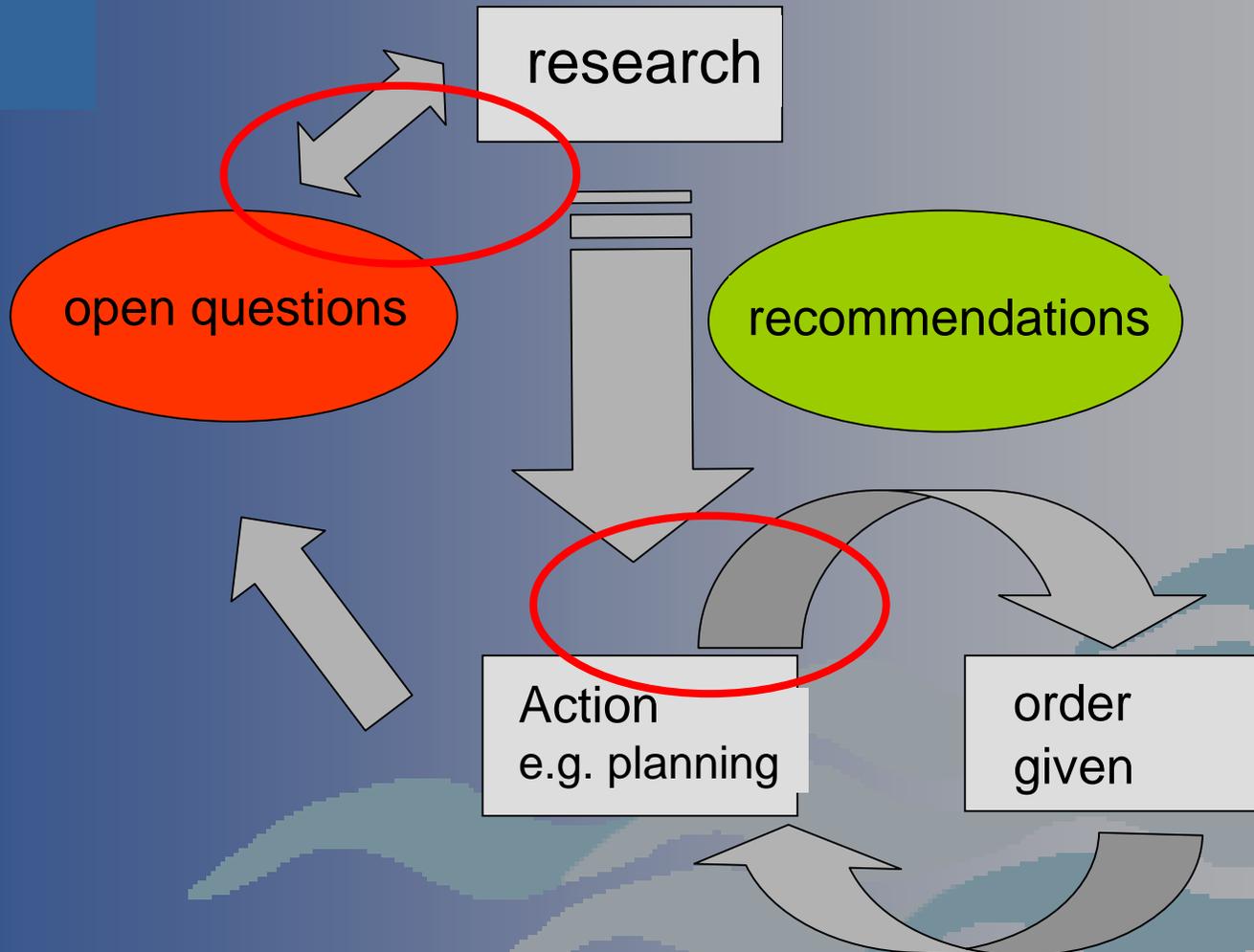
Outputs

## Structure of the workshop

- **representatives of research groups**
- **presentations & discussion**
- **questions to be answered and to be posed**

## From knowledge to action

- Background
- Themes
- Questions
- Outputs



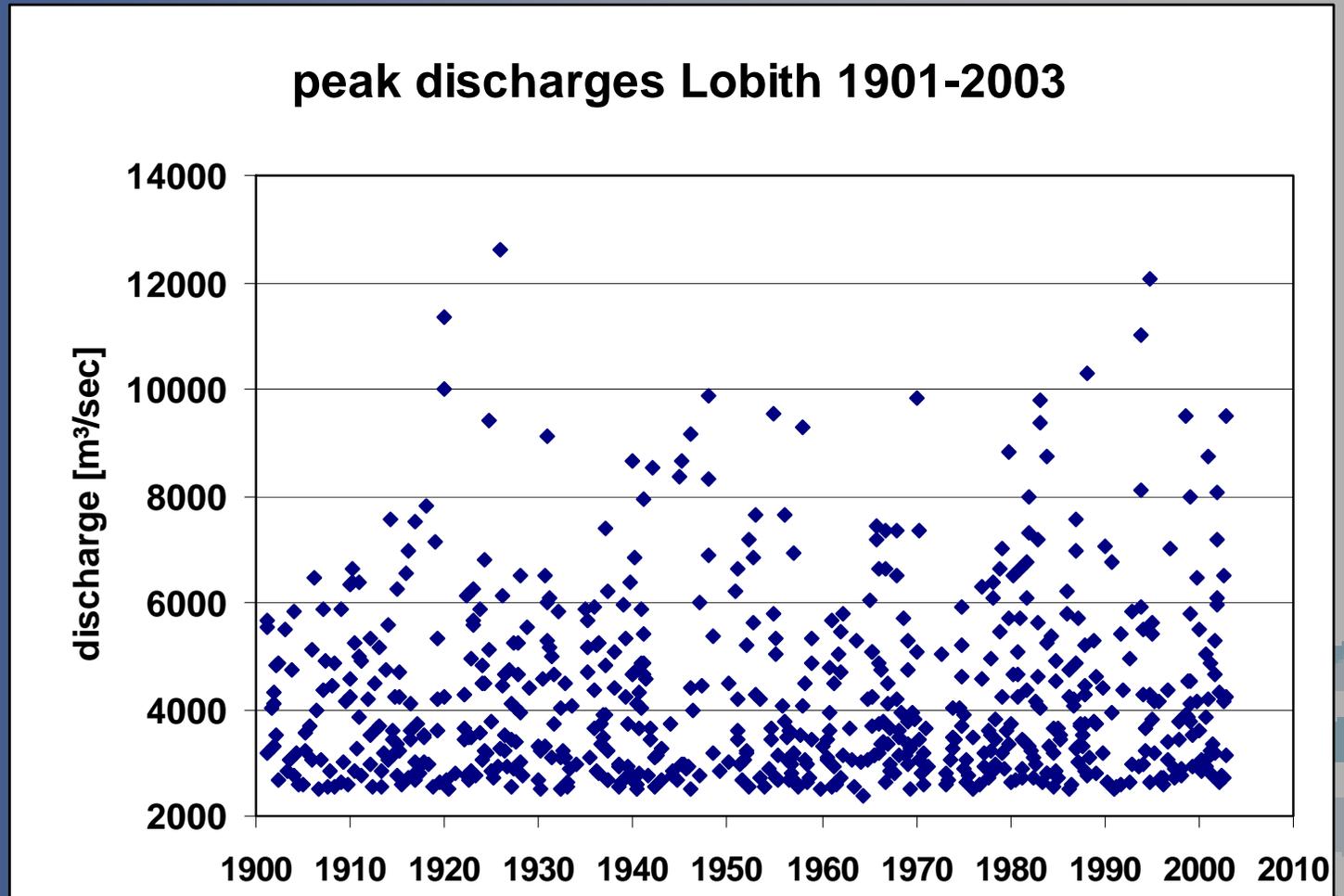
## An example

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**Theme I: Observed variability in climatological and hydrological data**

(chairman Dr. Laurent Pfister)

**Theme II: Creation and interpretation of climate scenarios**

(chairman Dr. Christoph Ritz)

**Theme III: Discharge regimes and hydrological extremes – What do the models predict?**

(chairman ir. Hendrik Buiteveld)

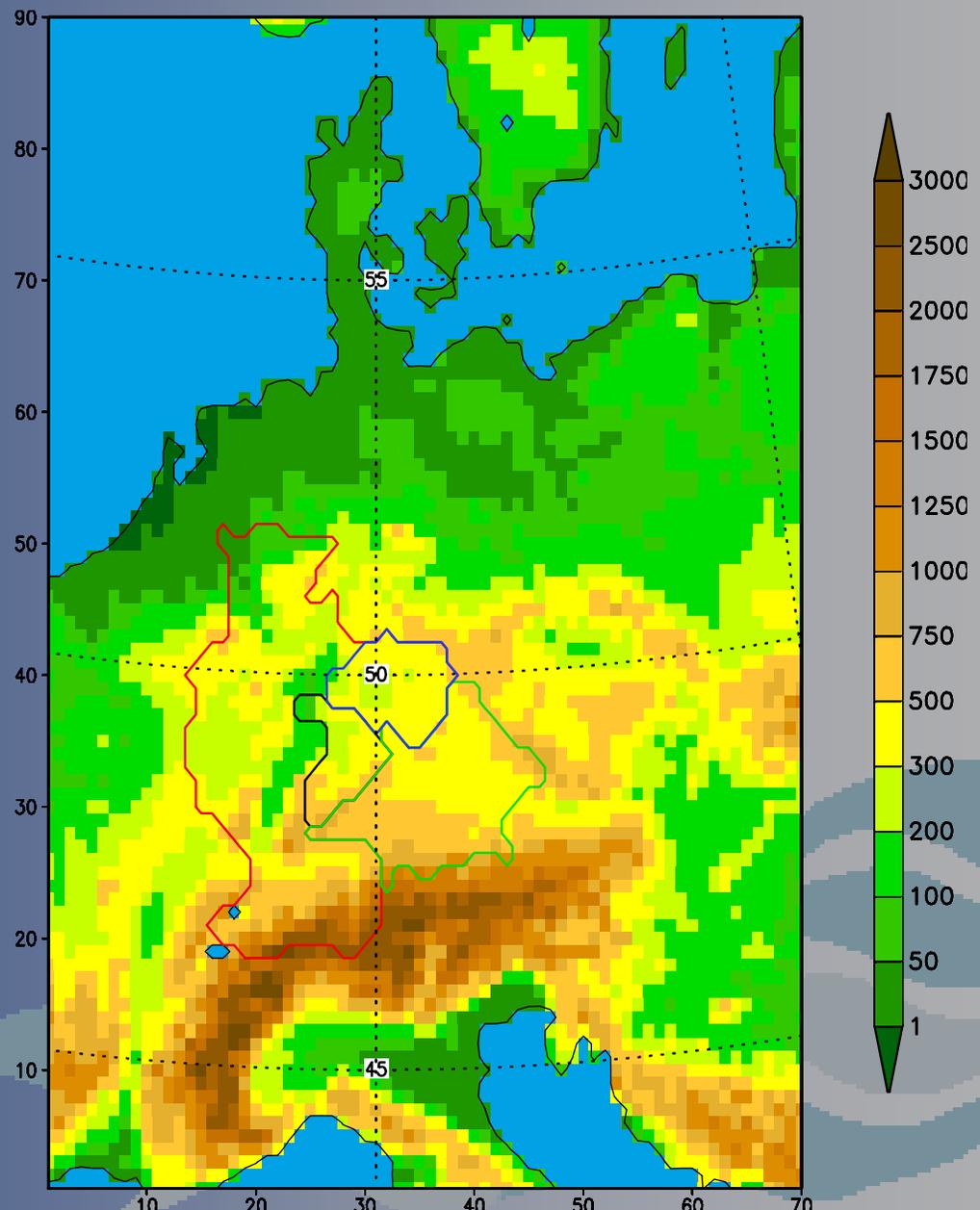
# Questions

Background  
Themes  
Questions  
Outputs

1. How do you judge the present state of research for the themes you have presented?
2. What are in your opinion the main problems and deficits in the research you have presented?
3. What knowledge of other parties do you need to realise the main goals of your research?
4. ?
5. ?

# Climate modelling & spatial scale & uncertainty

- Background
- Themes
- Questions
- Outputs



## Expected Outputs

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Outputs

- exchange of information, experience and ideas
- identification of lacks in own knowledge
- thinking about methods and strategies to overcome these lacks (coordinated activities)
- synthesis report with regard to the River Rhine basin