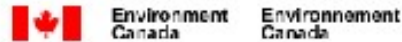


Universität Stuttgart
Germany



School of Public Policy & Management
Tsinghua University

Numerical Modeling Policy Interface Network (NMPI)

July 13th, 2007 - Perugia, Italy

Desmond Yaw Manful, Nick van de Giesen, John Rees, Andrew Hughes, Paul Kirshen, Herman Karl, Andrés Bardossy, Beaudry Kock, Marc Cantwell, Hong Yang, Yi He, Yahua Wang, Goerild Heqqelund, Hans-Georg Schwarz-von Raumer, Kala Vairavamoorthy & Giselher Kaule

www.nmpi.net



Outline

Why **NMPI**?

What's been done?

Where are we now?

What's to be done?



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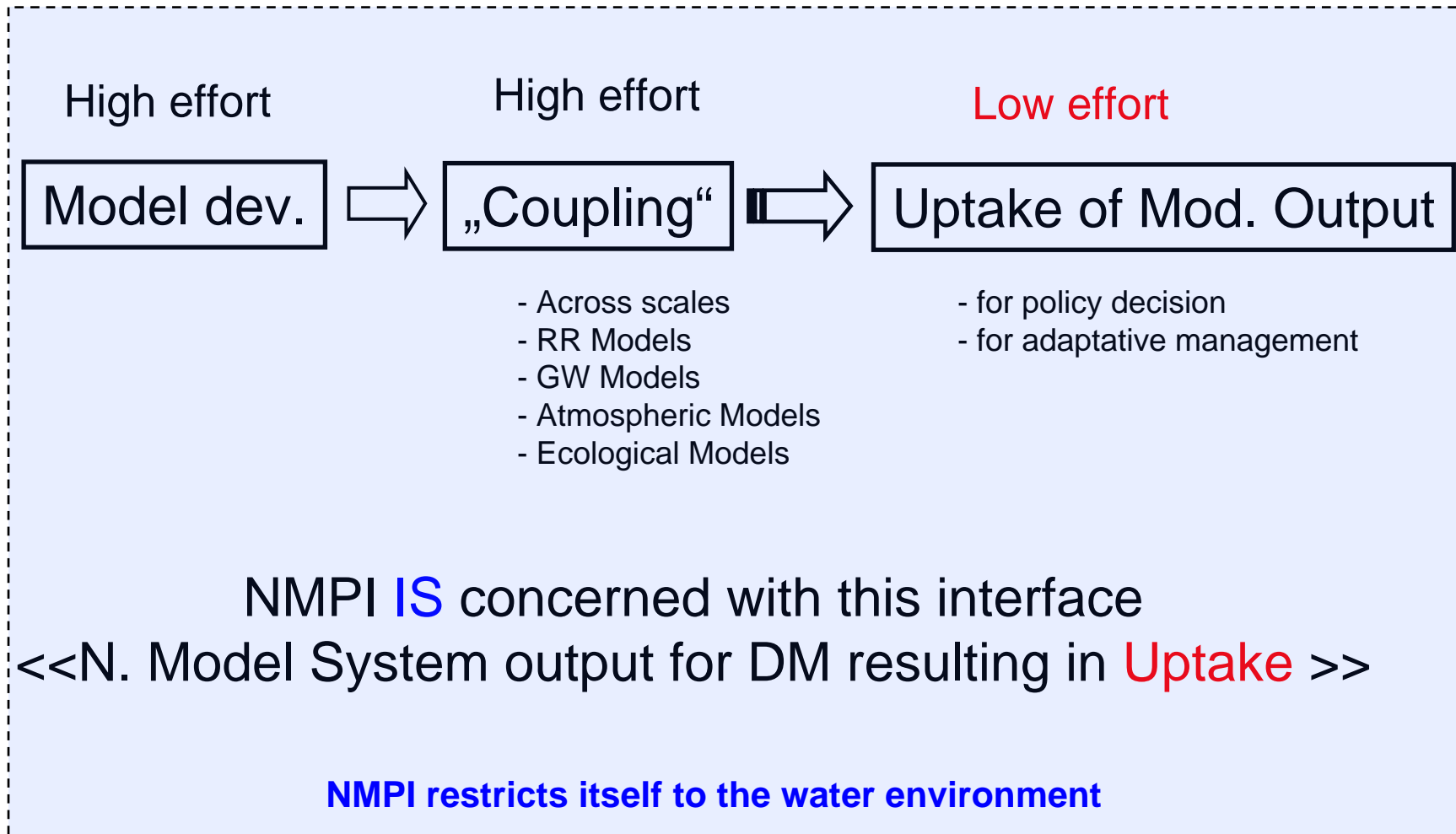
Why? *Components of Contemporary Water Res. Manag.*

1. Numerical models
2. Institutions
3. Stakeholders (affected by model based decisions)

„Within the context of adaptation to climate change“



Why? *Introduction to the GAP*



Why?

Dialogue with other initiatives

Model <> Policy / Practice Gap & Int. Research

Various efforts globally are looking aspects of the GAP:

- | | |
|-----------|-------------------------|
| NeWater | - EU |
| SWITCH | - EU |
| MUSIC | - MIT |
| WSSS | - Tufts University |
| RIVERTWIN | - EU |
| EnWat | - Universität Stuttgart |



Why?

NMPI: A Platform for Harmonization

NMPI aims:

- To analyse the interface (GAP) collectively

Through development of:

- A Common & Complementary Research Agenda
- Best practice standards

By:

- Bringing individual efforts under an umbrella to achieve economies of scale



Outline

Why NMPI?

What's been done?

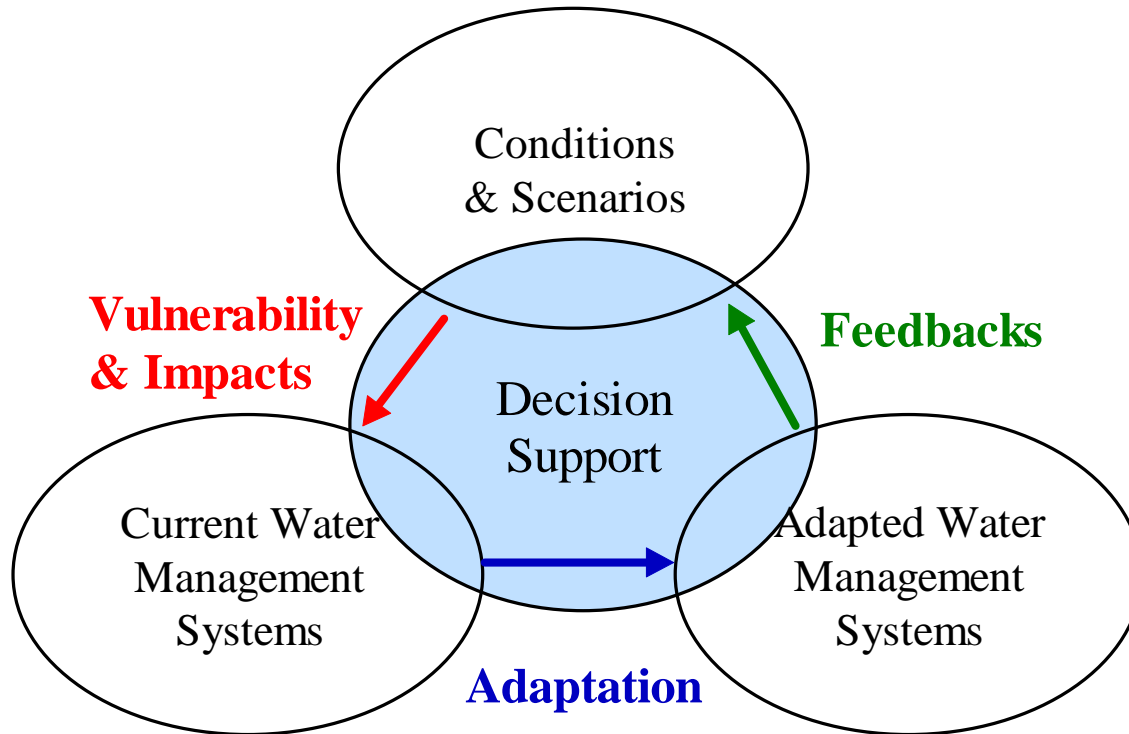
Where are we now?

What's to be done?



What?

Inception Workshops I & II



“Decision support” provides a milieu that links present and future aspects of resource management to adaptation, vulnerability and feedback mechanisms.



What?

Workshop I

Strong interest & Participation

Europe

- Germany
- Netherlands
- United Kingdom
- Norway
- Switzerland
- France

Americas

- United States
- Canada
- Chile

Asia

- Japan
- Pakistan
- China
- Uzbekistan

Africa

- Egypt
- Ghana
- Ethiopia
- South Africa



What?

NMPI – Workshops I & II: Overview

Workshop I in Stuttgart, Germany (12-13 March 2007)

- Systematically assessed, defined & documented the gap between numerical modeling & policy decisions
- A research agenda driven by the findings from above
- Need for a mediated interface

Workshop II in Nottingham, England (20-21 June 2007)

- Engagement of End-user community
- Best practice “Handbook / Manual”



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NMPI Network *Themes (6) and Task Groups (3)*

Themes / Taskgroup	Pedagogies	Adaptation to Climate Change	Network Development	Methods & Tools	Hydrohazard	Developing & Transition Countries*
1: Research <ul style="list-style-type: none"> ▪ Uncertainty transmission ▪ Bridging tools ▪ Model construction ▪ Etc... 						
2: Training <ul style="list-style-type: none"> ▪ Under / Graduate ▪ Professional ▪ Other stakeholders ▪ Etc... 						
3: Dissemination <ul style="list-style-type: none"> ▪ Node level ▪ Regional ▪ Network level ▪ Etc.. 						



Where?

Research Theme: Bridging Tools & Methods

Methods to assess transmission of uncertainty:

„Cloud to Catchment Continuum“

1. In Modeling biophysical processes (input data, code)
2. In Policy decision making processes (Institutional et al.)
3. In Case studies of success stories as well as failures

Work in Progress:

LiNK Algorithm

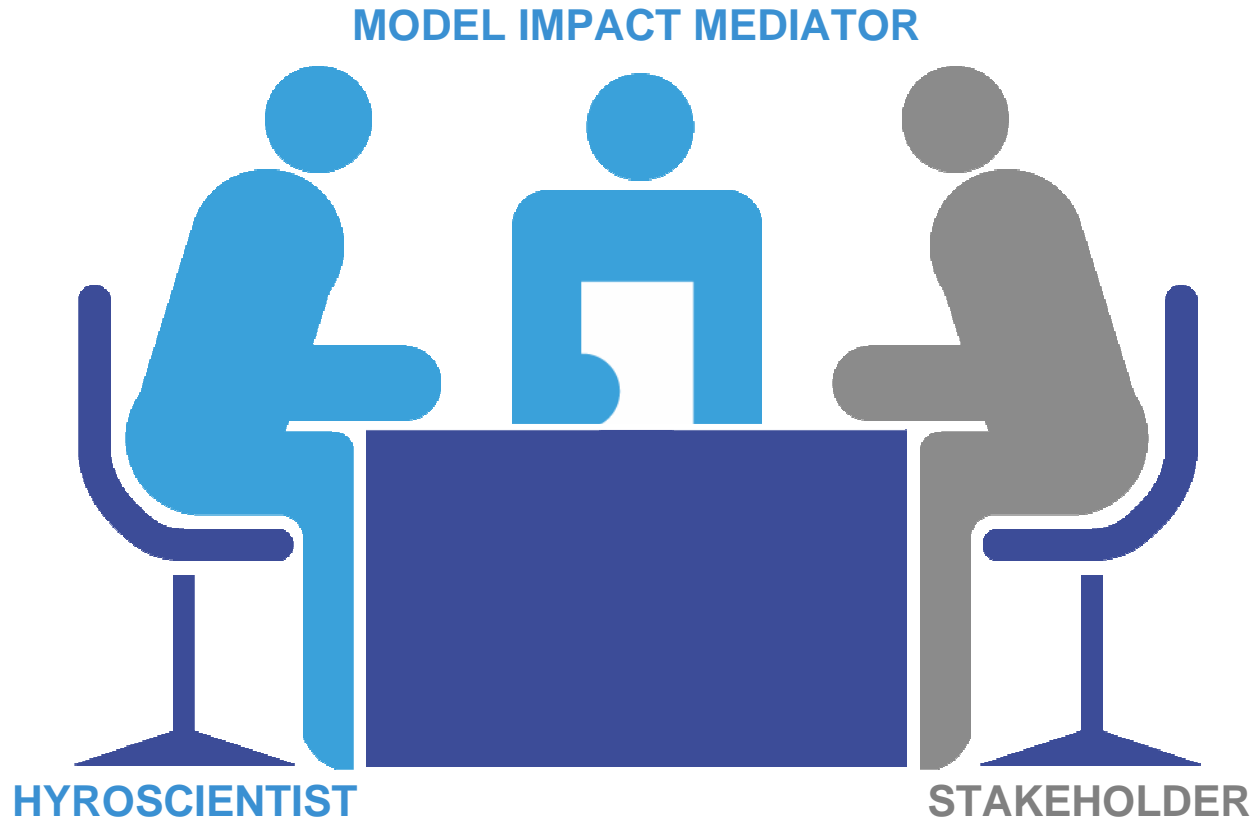
Linguistic Numerical Transition Know-How Algorithm

Manful & Kaule 2007, IAHS Redbook Series (Forthcoming)



Where?

Pedagogies Theme: Model Impact Mediators



A New Kind of Environmental Professional



Outline

Why NMPI?

What's been done?

Where are we now?

What's to be done?



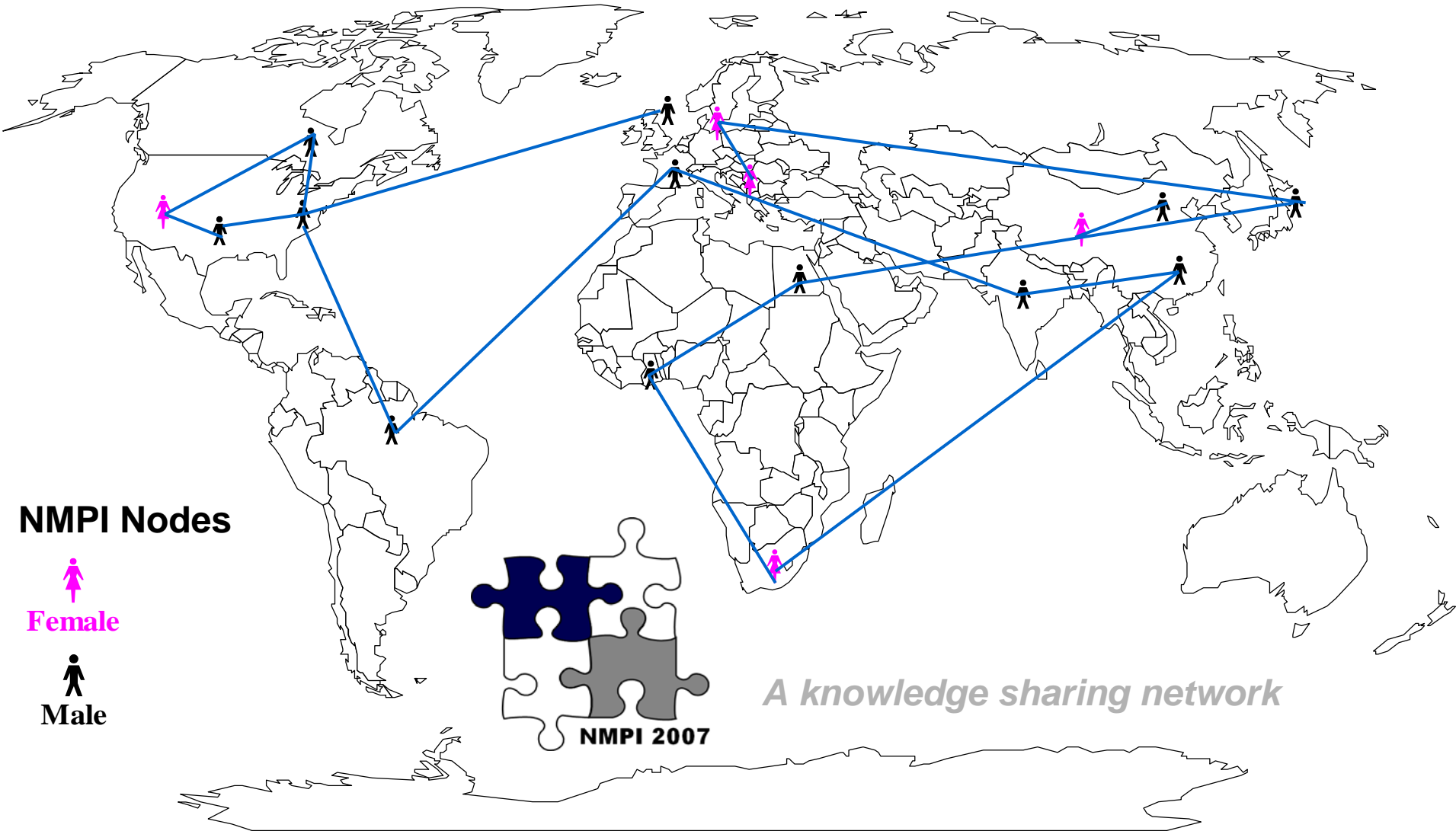
What is to be done?

Beyond – Workshops I & II

1. **NMPI** 5 Year Strategy Document
2. Research Consortia (Thematic with Geopolitical consideration)
3. Publish two edited volumes documenting **NMPI** workshop “process”
4. Generic Handbook / Manual (Regional level)
5. Post workshop activities: NMPI Site
plus Open Wiki (invitation to participate)



NMPI Network



www.nmpi.net

Thank you!

Group photo: 1st NMPI Workshop in Stuttgart, Germany

