

RIVERTWIN

A Regional Model for Integrated Water Management in Twinned River Basins



DG Research

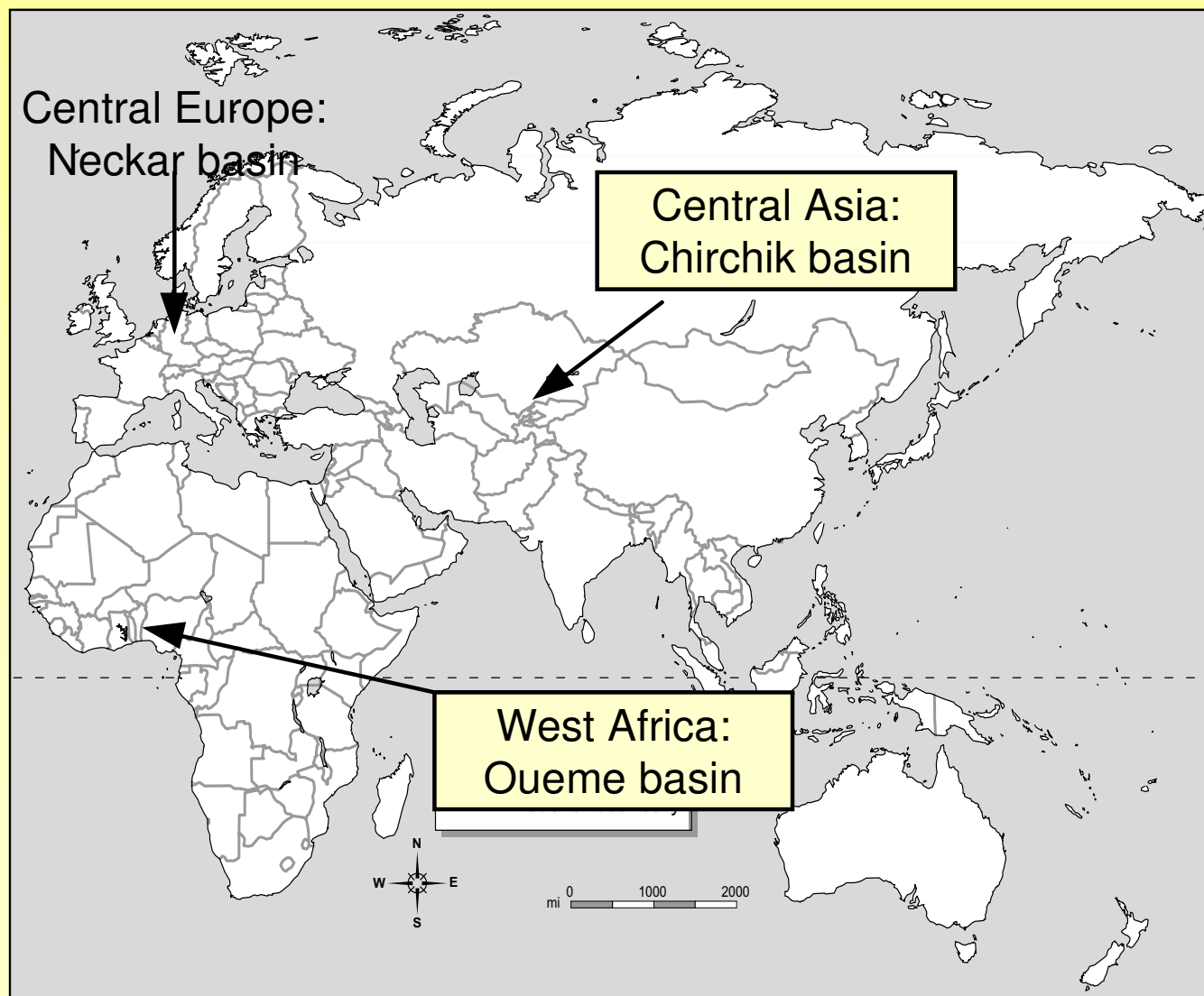


RIVERTWIN

Scientific and Technological Objectives

- **Building of scenarios** of integrated water resources management together with stakeholders to support the establishment of River Basin Management Plans (RBMP)
- **Developing an integrated regional model** for scenario analysis and evaluation in three river basins under contrasting ecological and socioeconomic conditions
- **Capacity building** in basin authorities, academic and research institutions towards application of modelling and GIS techniques in IWRM

Three selected river basins

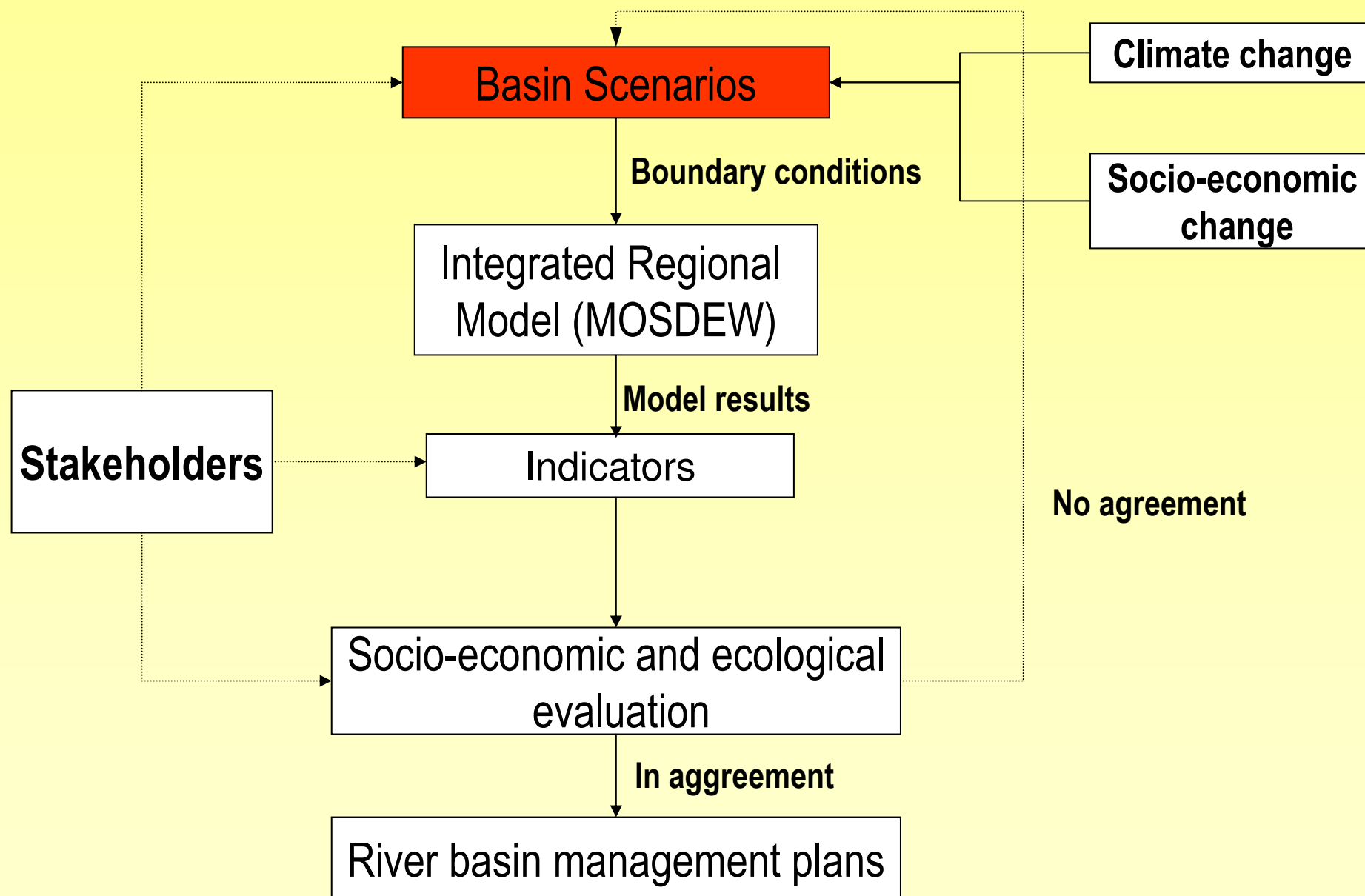


Consortium

- ◆ **University of Hohenheim - Germany (Coordination)**
- ◆ **University of Stuttgart - Germany**
- ◆ **Centre for World Food Studies - The Netherlands**
- ◆ **Stockholm Environment Institute - Sweden**
- ◆ **Aristotle University of Thessaloniki - Greece**
- ◆ **Terra Fusca - Germany**
- ◆ **Schneider und Jorde - Germany**
- ◆ **Interstate Commission for Water Coordination - Uzbekistan**
- ◆ **Institut National des Recherches Agricoles du Benin - Benin Republic**
- ◆ **Université Abomey-Calavi - Benin Republic**
- ◆ **Direction Generale de l'Hydraulique - Benin Republic**

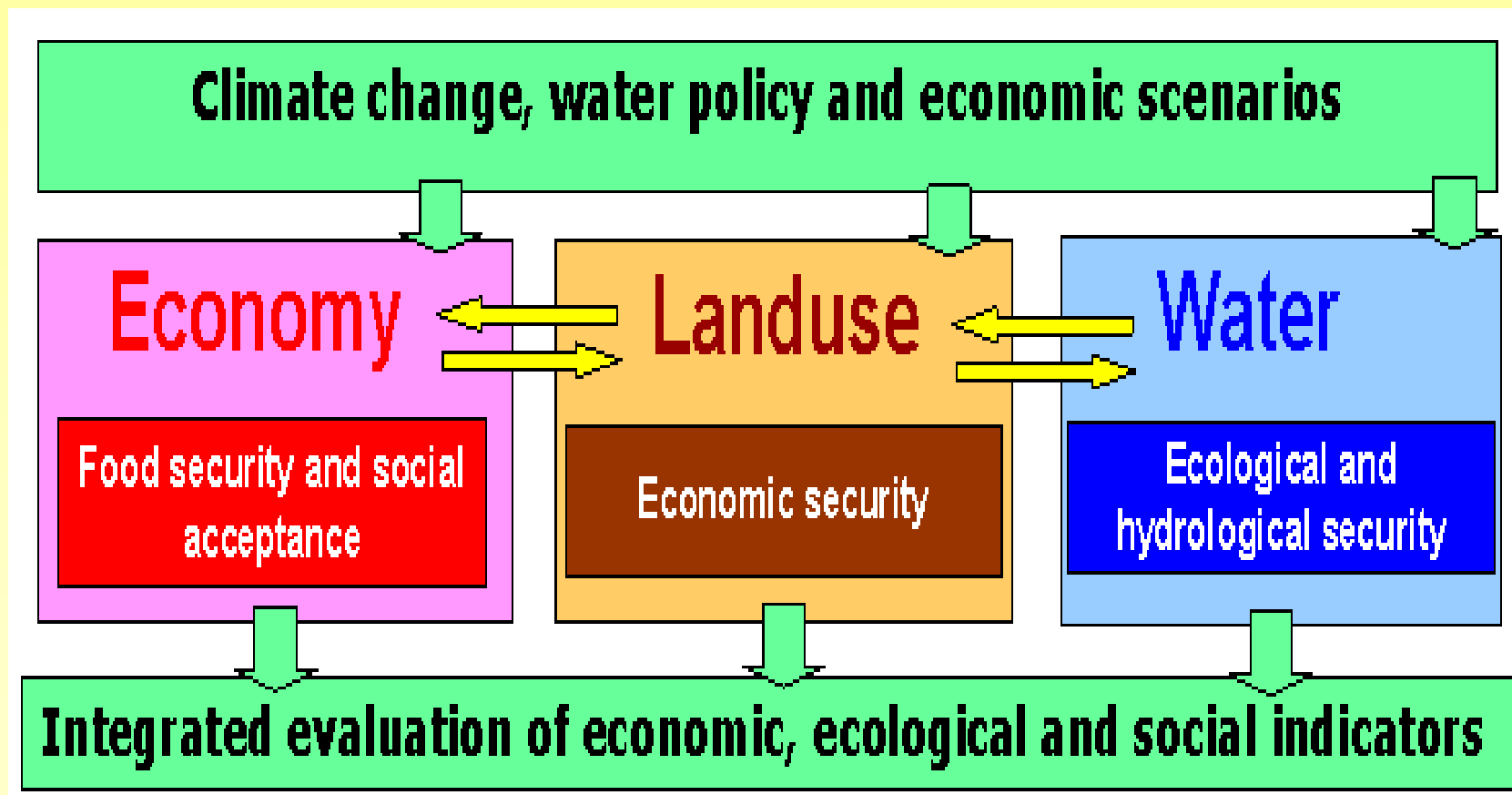
Comparison of RIVERTWIN basins

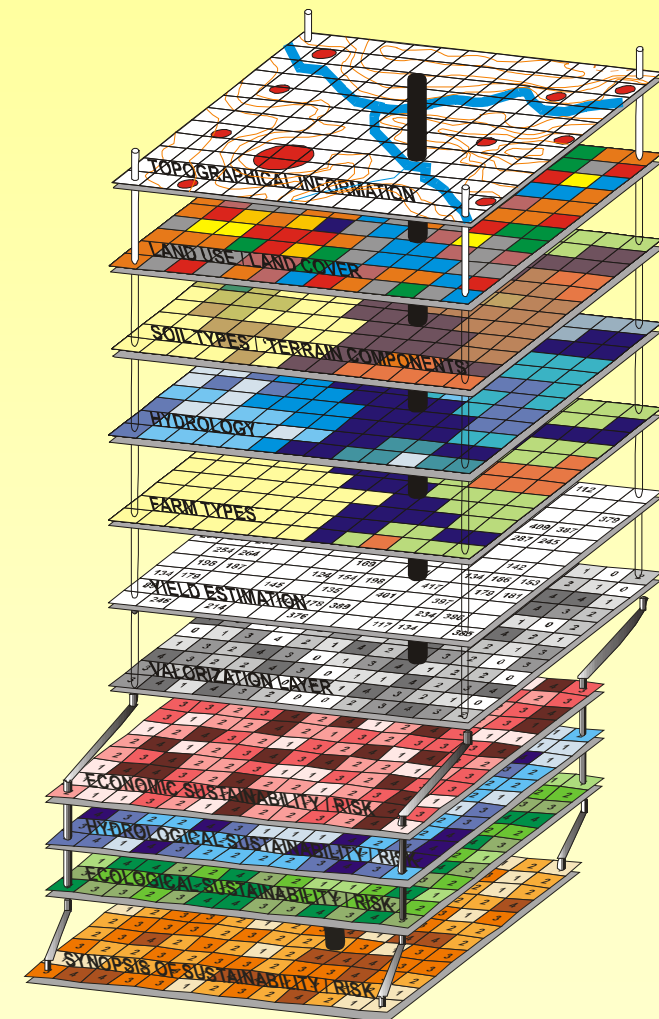
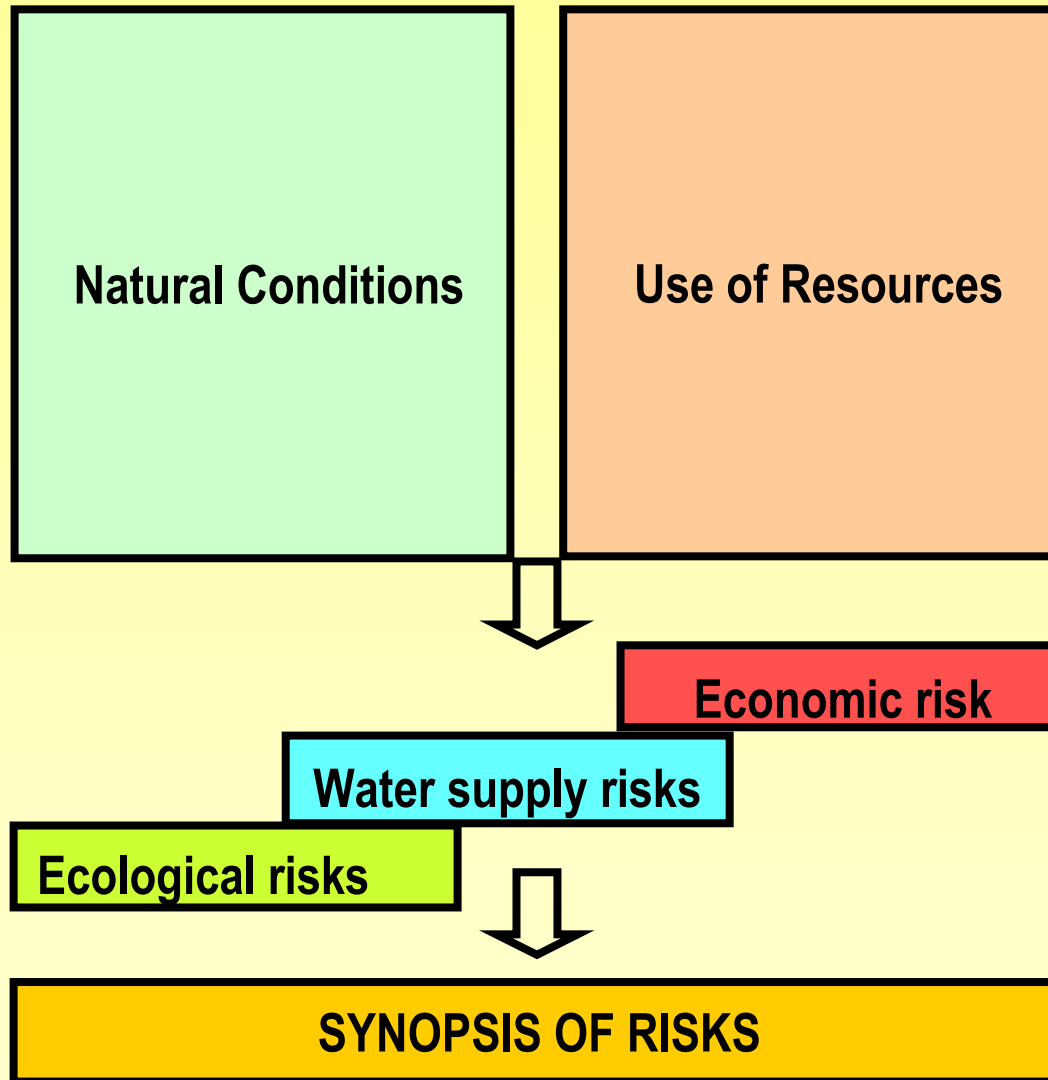
River Basin	Country	Climate zone	Population	River basin study area (km ²)	Data availability	Water management problems
Neckar (RB1)	Germany	Temperate humid	5.5 Mio	13.000	High	Water quality (biol./chem), hydromorphology, flooding
(RB2)						infrastructure, institutions
Onime	Benin	subhumid	1-2 Mio	40.000	Low	supply (in dry season)
Chirchik/Upper Syrdarya (RB3)	Uzbekistan	Tropical, High altitude, continental, semiarid	2-3 Mio	20.000	Moderate	Water quality, Flooding, Water supply, institutional framework



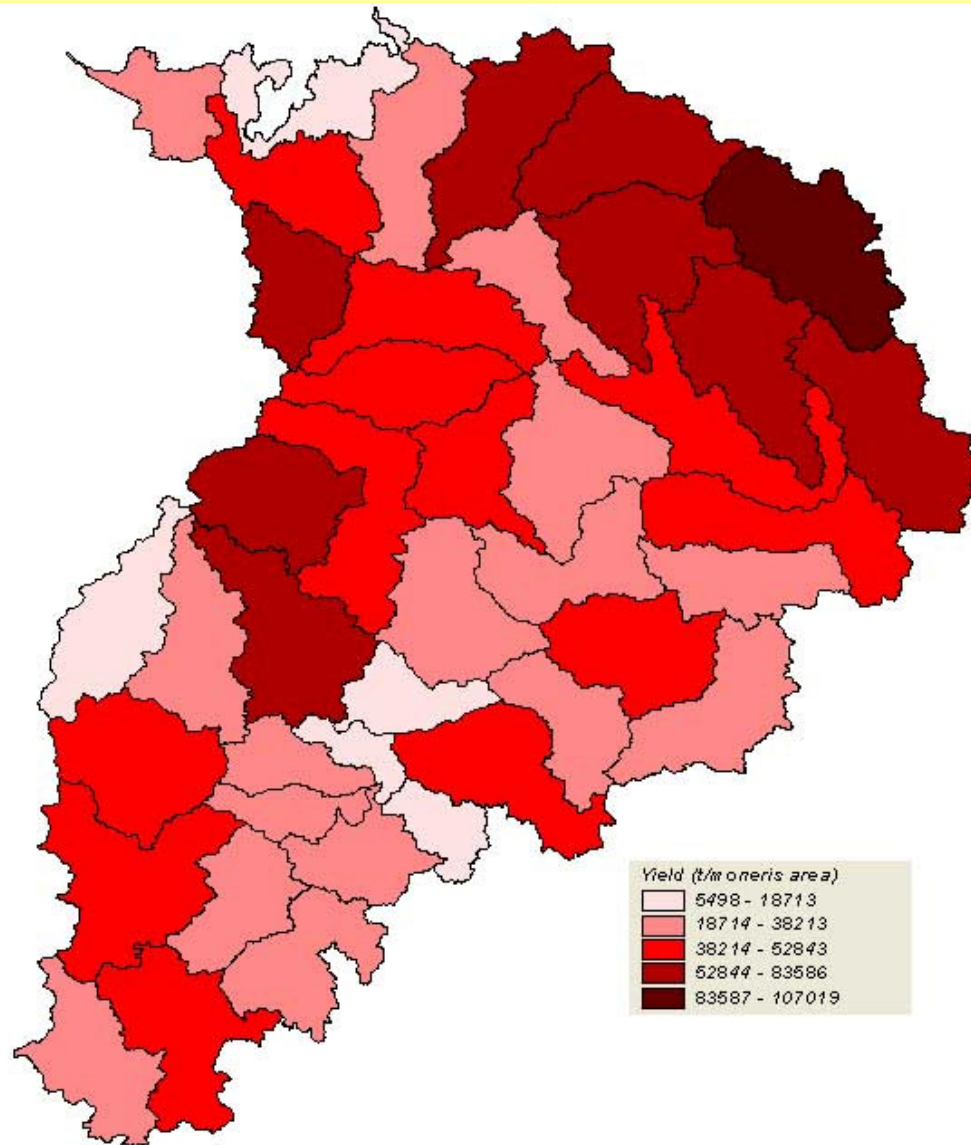
MOSDEW

Model for Sustainable Development of Water resources



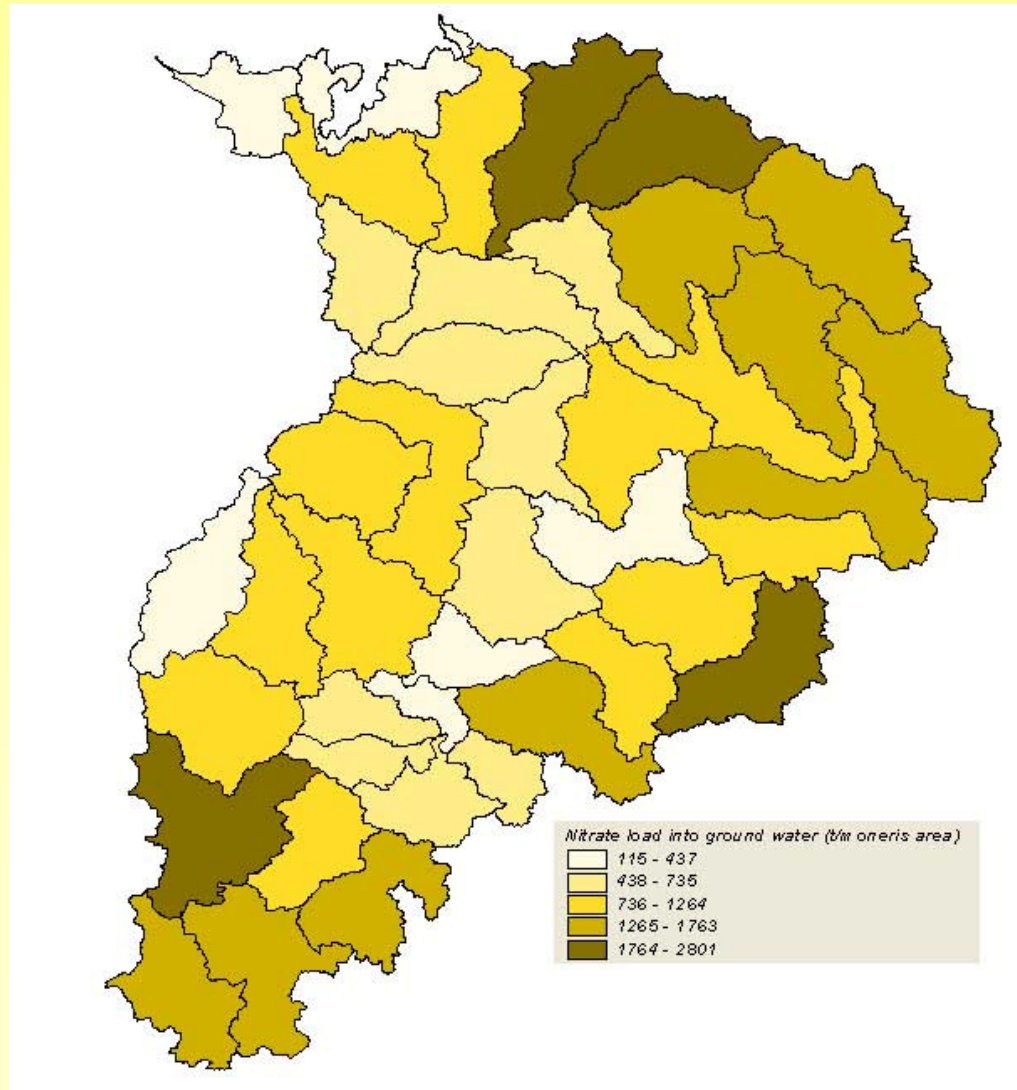


Model Results: Crop Yield



Wheat production
(tons per water
body and year)

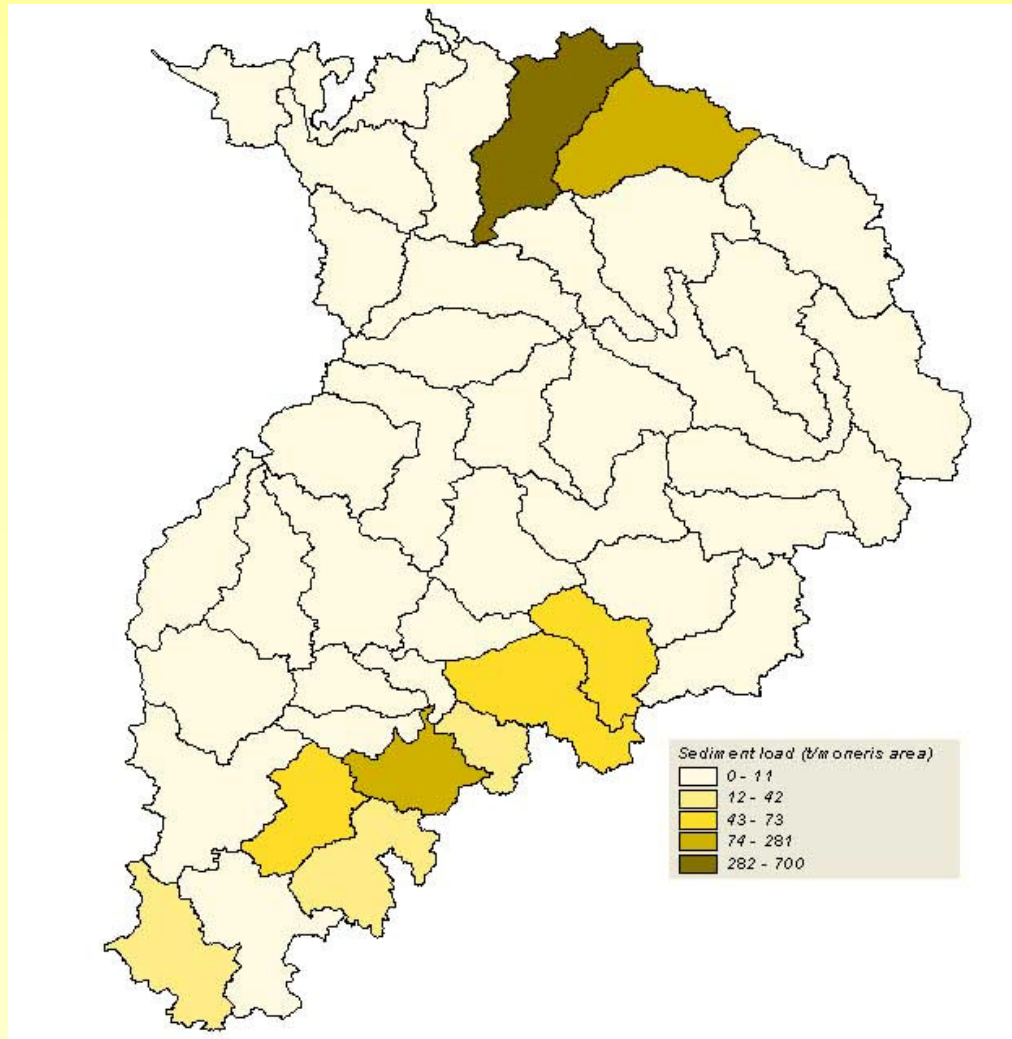
Model Results: Nitrate load into ground water



Nitrate load into
ground water

(tons per water
body and year)

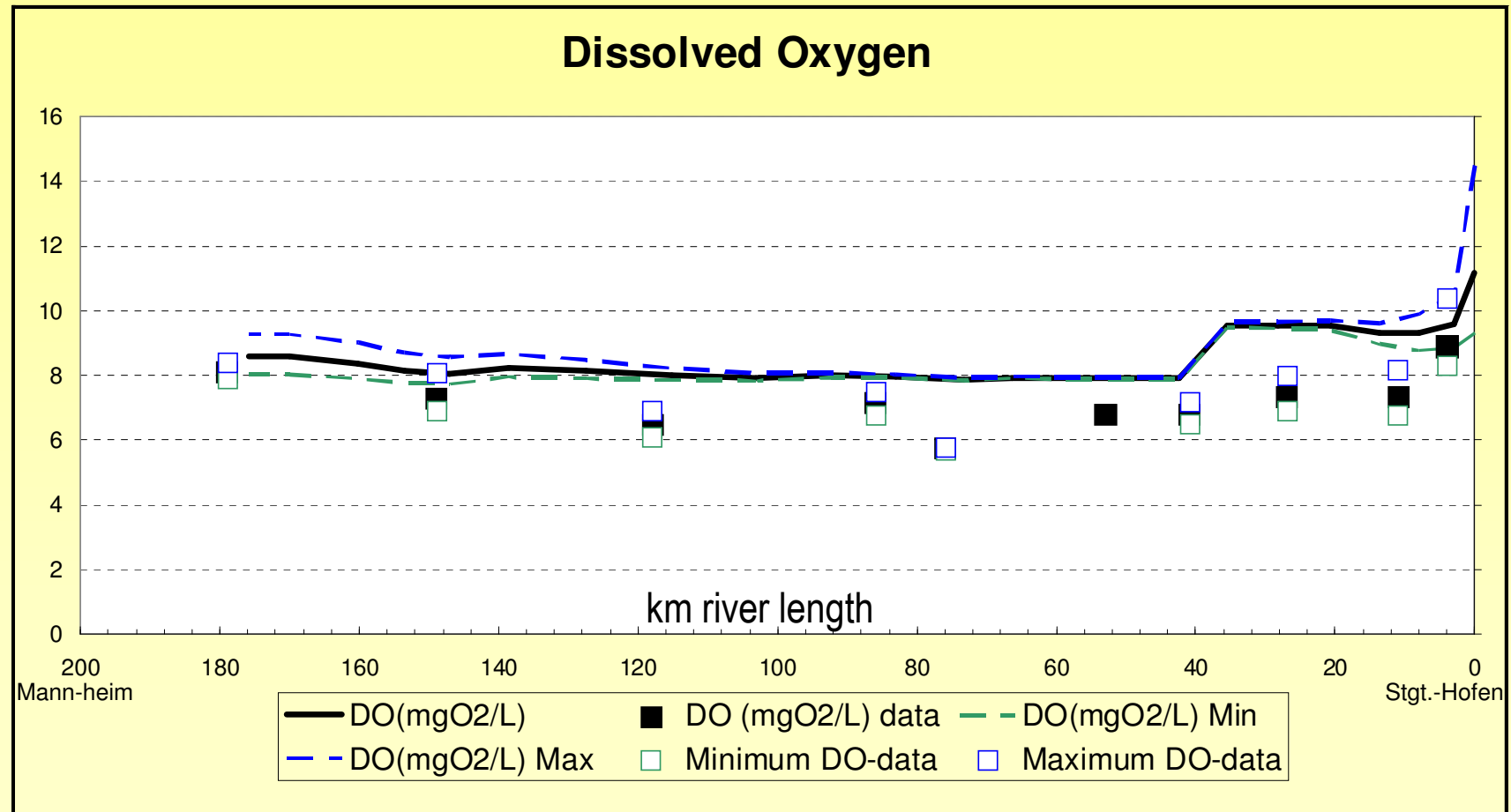
Model Results: Sediment load



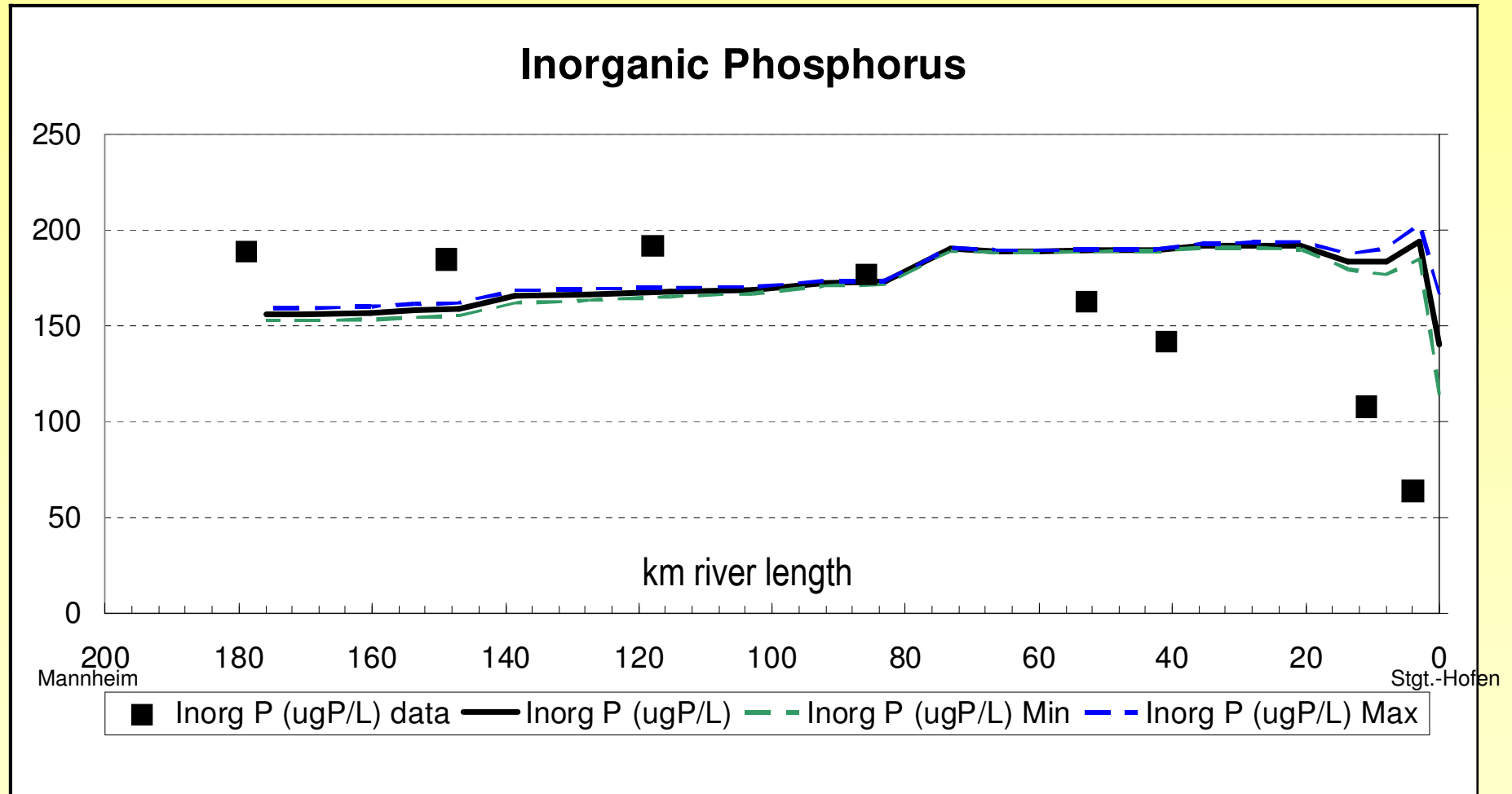
Sediment
load

(tons per
water body
and year)


Water quality indicators



Water quality indicators




MOSDEW-WEB-GIS



- Home
- MOSDEW Results
 - Neckar
 - Oueme
 - Chirchik
- Processing
- Data and Metadata
- The Rivertwin Project
- Info
- Service

finden ... ☐

PRINT


Model for Sustainable Development of Water Management

MOSDEW Results

Query interface for the integrated Model MOSDEW for the Neckar basin.

Subregions

Select one of the following subregions

Select a county

Stuttgart

Select a partial subbasin

Neckar bis einschl. St

Select a water body

49-02

Select a reference river

Neckar

Climate

Select a Climate sequence

Mean climate year se

Create a new Climate sequence

New

Scenario and Interventions

Economic development

Reference Year 2000

Interventions

Intervention A1

Interventions

Intervention A1

Sort

Sort sequence

Year

Sort Order

descending

Query

Reset

← back

next →

© University of Stuttgart, Institut for Landscape Planning and Ecology ILPE

Contact

Sitemap

Search

Help

Imprint

PRINT

Actual Water Levels

Gundelsheim	11.01.2005, 07:00
	237.00 cm
Heidelberg	11.01.2005, 07:00
	237.00 cm
Plochingen	11.01.2005, 07:00
	237.00 cm
Rockenau	11.01.2005, 07:00
	237.00 cm

More Data

More Information

[Rivertwin Homepage](#)

[Rivertwin Neckar Homepage](#)

[IKONE Homepage](#)

[MOSDEW Results](#)

More Links

News

[Spatial Integration Workshop from 27 to 28 January 2005](#)

[Spatial Integration Workshop](#)

MOSDEW is online

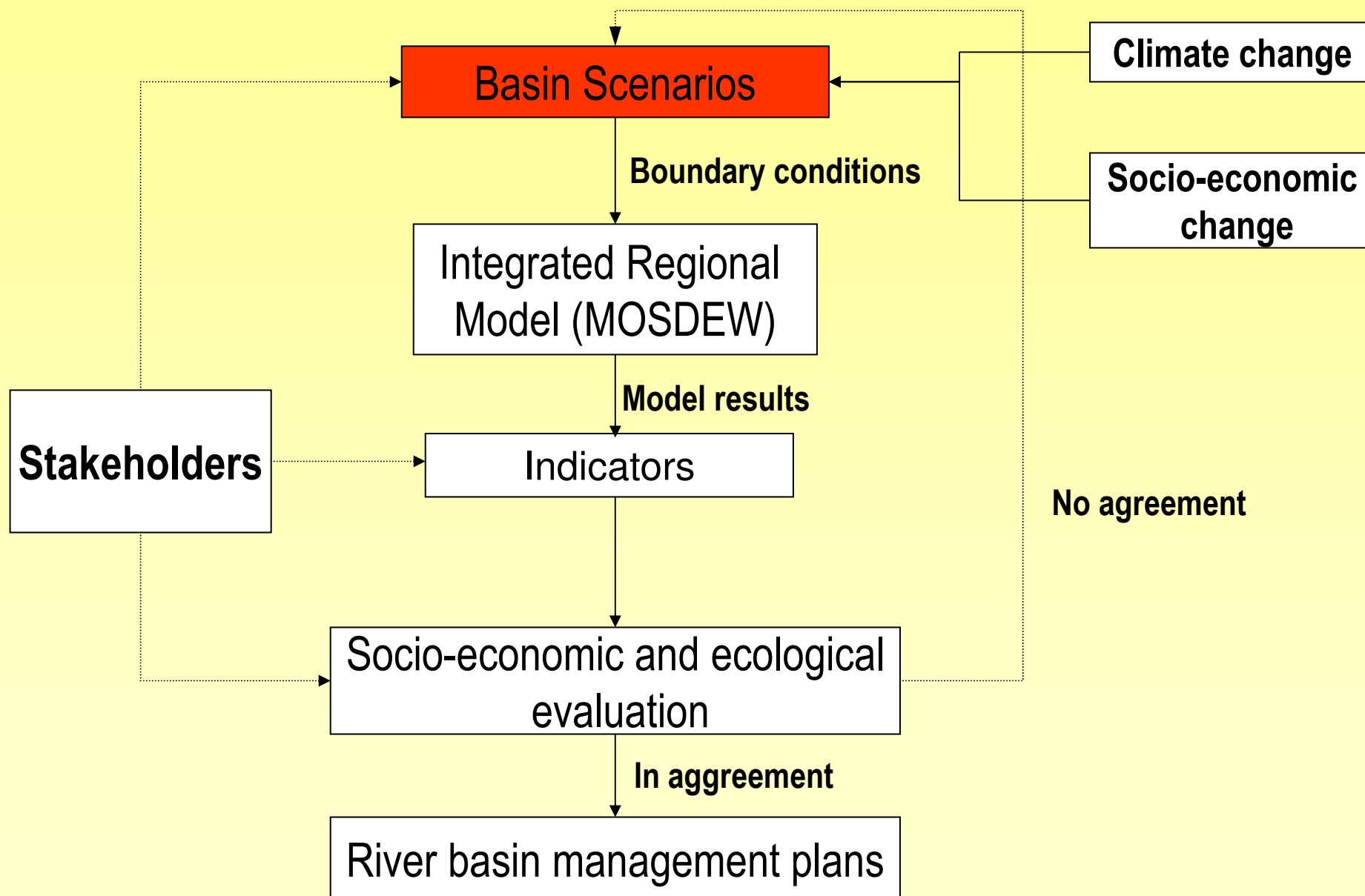
[The Integrated Model MOSDEW](#)

Homepage of RIVERTWIN

www.rivertwin.de

More News

Fertig



RIVERTWIN contribution to the IWRM process

Summary

- Scenario development to support RBMP
- Integrated regional models for selected basins in Central Asia, West Africa and Europe
- Capacity building of river basin organisations and national research organisations
- Strengthening national efforts towards IWRM in Benin and Uzbekistan

**Thank you for your
attention**