ZEF – University of Bonn, the Host of GWSP IPO
Joachim von Braun, Director of ZEF
Bonn, Dec 9, 2010
Political and Cultural Resources
- Institutions and strategic groups
- Social and cultural diversity
- Knowledge governance

Crosscutting themes
- Land use
- Water management
- Biodiversity
- Sustainable energy
- Health

Economic Resources
- Growth, inequality and poverty
- Globalization and international trade
- Natural resources, conflict and vulnerability

Ecological Resources
- Ecosystem management
- Environmental transfers
- Environmental change
- Environmental impact analysis
Trends in the diverse water policy research at ZEF

Evolution of water related research at ZEF
More links to climate change
Peoples‘ wellbeing and policy
Value chains and water quality
Trans-boundary issues
Global policy engagement (Rio+20, etc.)
Doctoral teaching
Partnerships, i.e. GWSP
**WASCAL: Increased Climate Variability**

**Relevant climate variables:**
- Dry spells in veg. period
- Begin of rainy season
- Temperature
- Precipitation

Scenario: Increased variability of one climate-dependent factor x, mode remains unchanged (mean increases!)

Farm-household uses x to generate welfare $z$, e.g. by producing agricultural goods. Important: decreasing marginal productivity of x! (Perhaps even negative!)

Assume there is a critical threshold for welfare $z$: Lower levels are not sustainable

Increased variability of $z$, lower expected value, higher risk of falling below threshold
WASCAL: Regional Scope

- Regional focus: Savanna regions of 5 West-African Countries
- High agricultural potential, low market access

- Dominant farming systems: smallholders, limited assets, partly irrigating, subsistence production of cereals and root crops
The GLOWA Volta Project
Sustainable Water Use under Changing Land Use, Rainfall Reliability, and Water Demands in the Volta Basin
Economic and Ecological Restructuring of Land- and Water Use in the Region Khorezm (Uzbekistan)

Ahmad M. Manschadi, John P.A. Lamers, Paul L.G. Vlek et al.
Olifants – Project Structure

I  Value Generating Water Intervention Measures
   Enhancing the value chain for production and services
   Enhancing the value flow of water utilization

II  Capacity Development
    (including HIV awareness campaigns)
    Technologies & facilities
       Institutions & governance

III  IWRM Modeling
     incl. mitigation of and adaptation to climate change (refinement/update of the IWRM 1 model)

IV  Cross-Border Dissemination
    Olifants region, South Africa, Maghreb region (other regions not being excluded)
Problem

The sustainability of Mekong Delta’s ecosystem and livelihoods is under threat

- Natural hazards
- Increasing water demands & pressure on natural resources
Increase of knowledge production in the water sector

Epistemic landscape of Ho Chi Minh City
Can Tho City
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