

Managing Energy-Water Linkages: Overview of the Work Program

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Energy Work Program 2013-2015

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EWP Objective

- The objective of the Energy-Water Linkages (EWL) element is to:
“help decision-makers better understand and exploit the value of energy-water linkages, while ensuring negative linkages are managed” [EWP Plan, September 2012]
- The Energy Water Program (EWP) EWL element builds on work undertaken in the Energy Action Plan.



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Energy Action Plan (2010-20120)

Energy-Water Workshop

Phase 1A: Analytical and Modeling Architecture

Phase 1B: "First Generation" Demonstration Model

National and regional consultations and activities

Partner Activities: SDC (CAREWIB),
UNECE (bilateral with AFG&TAJ),
USAID (Economic Model of Water)
GIZ (sub-basin cooperation)

Demonstrate "First Generation" Geospatial Model

Knowledge Exchange Forum: – A Road Map Forward (July, 2012)

A six-country workshop on integrated water resources management: data, modeling and capacity and governance as decision support tools

Energy-Water Program (2013-2015)



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Priorities for Strengthening Analysis

➤ Themes

- Build on current resources
- Engage modern technologies
- Address priority issues
- Balance regional and national perspectives

➤ Actions

- Build a knowledge platform for data, analysis and information sharing
 - Strengthen governance
- Focus on operational challenges of common concern



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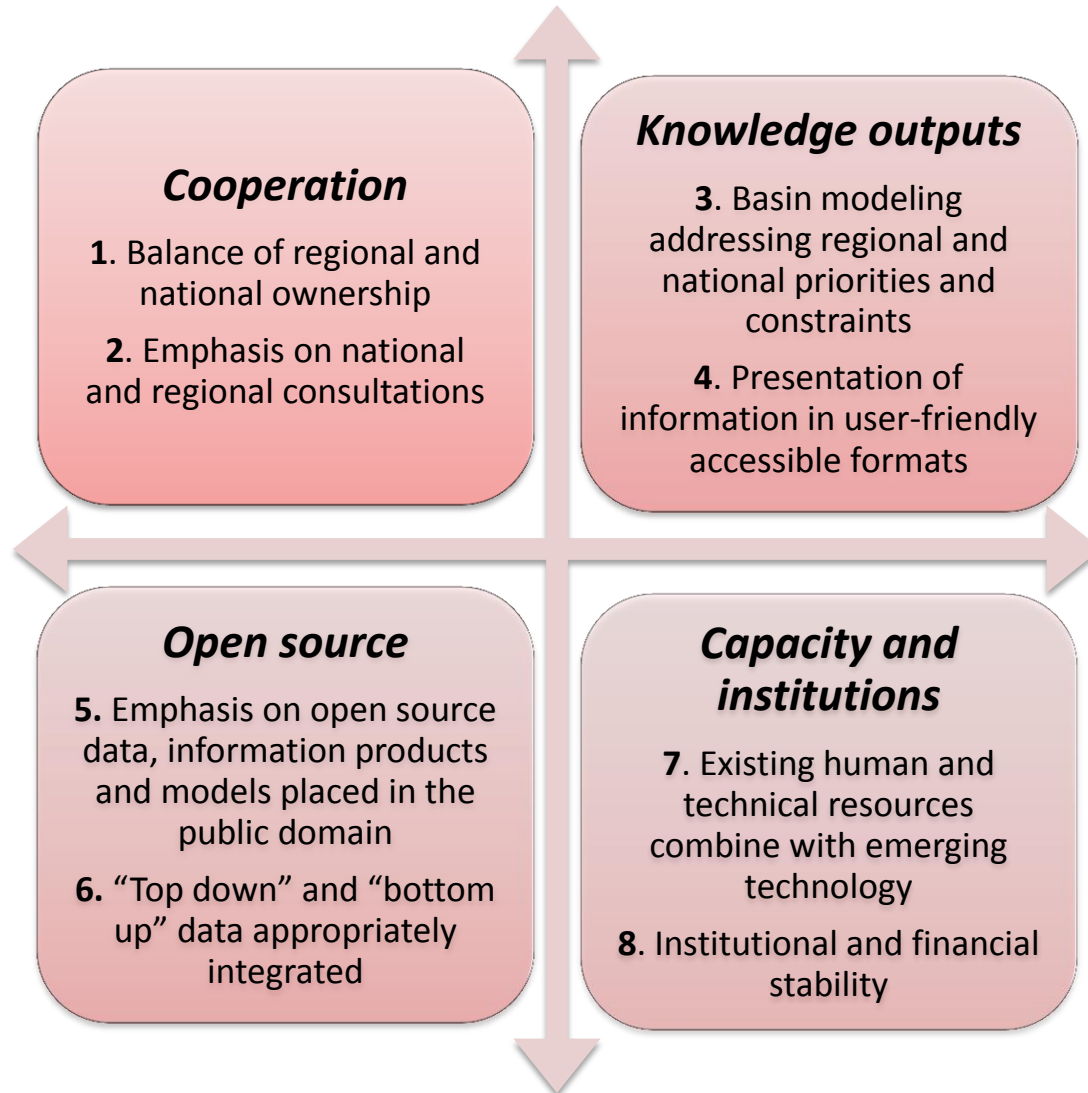
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➤ Eight Governing Principles

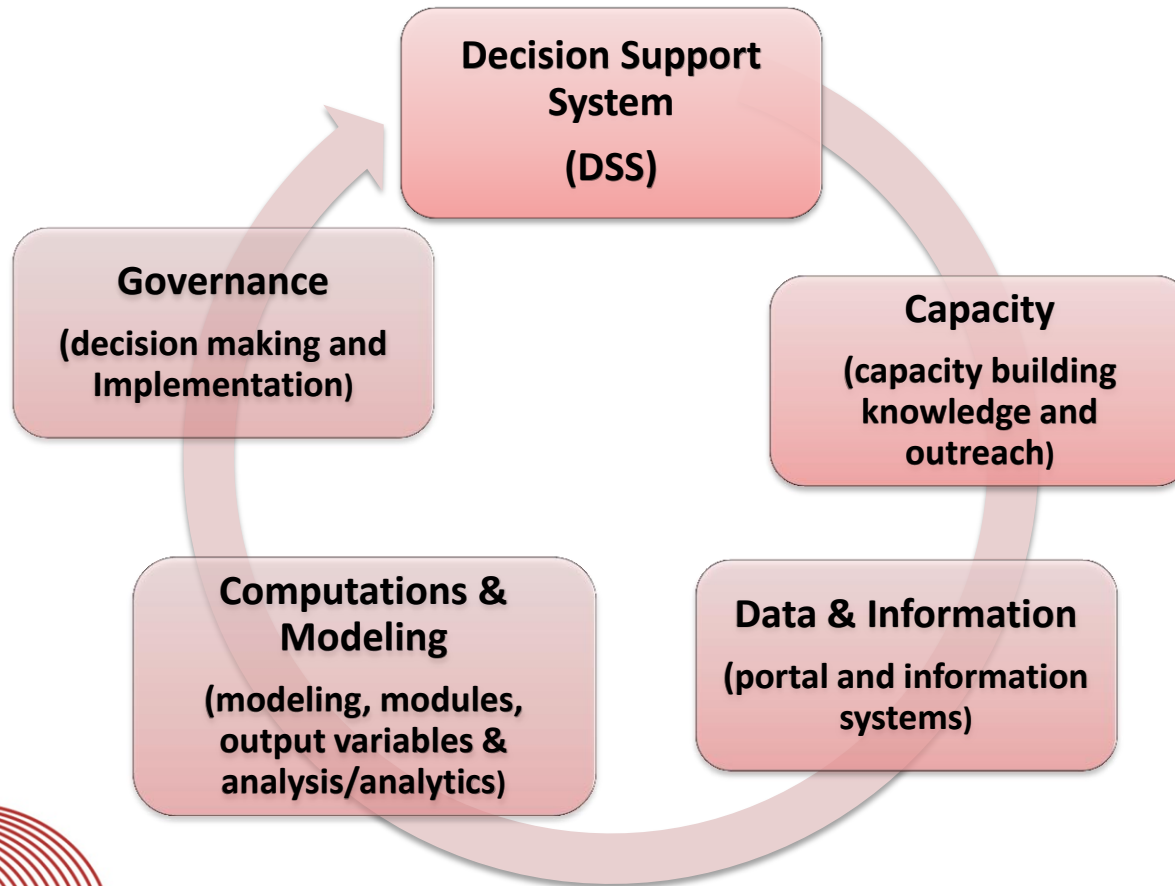
Priority principles, identified by stakeholders, as outputs from Knowledge Exchange Forum and national consultations

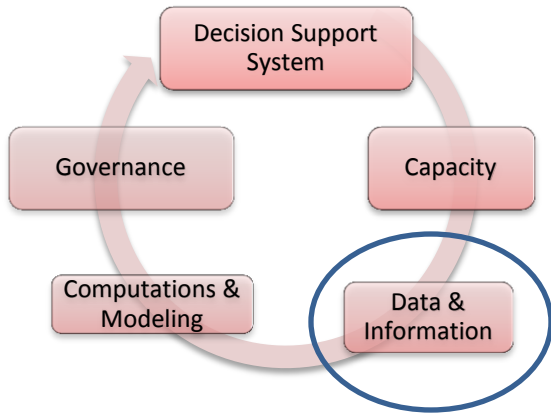


Energy-Water Linkages

Knowledge Platform and Decision Support

the EWP addresses each component of a decision support system...





Data & Information

✓ Knowledge Portal:

Central Asia Energy-Water Knowledge and Data Portal will be designed as an accessible gateway to “top down” open source global data sets for Central Asia and “bottom up” in situ data and information, encouraging an agreed upon regional information management system

World Bank National programs:

- ✓ National Water Information Systems
- ✓ CA Hydrometeorology Modernization Program

Partner activities:

- ✓ TAJ/KYG transboundary watershed activities
- ✓ Water quality proposals



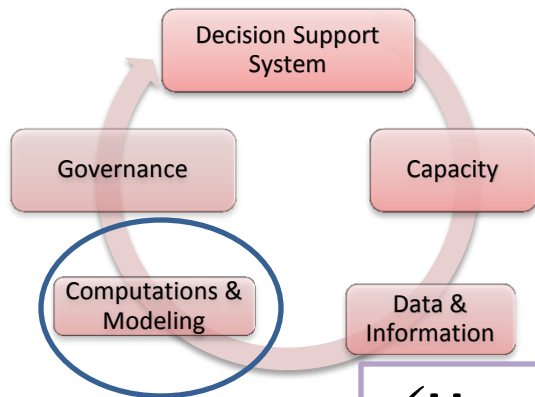
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Computations & Modeling

✓ User-developed system of models

Explore existing models, critiquing and assessing needs from both national and regional perspectives; identify new modeling needs (if any); capacity building in earth systems and other cutting edge approaches

✓ Climate change assessments for Central Asia

Analytical work to understand constraints and opportunities for climate change adaptation at national and regional levels, focusing on energy and agriculture sectors

✓ Operational Modeling

Application of system models to operational needs in the basins, focusing on areas of common concern: protocols for extreme hydrology and water conservation practices

World Bank National programs:

- ✓ KAZ: SYNAPS 2 under preparation

Partner activities:

- ✓ UNRCCA Early Warning Bulletins
- ✓ Donor coordination with GIZ/EU

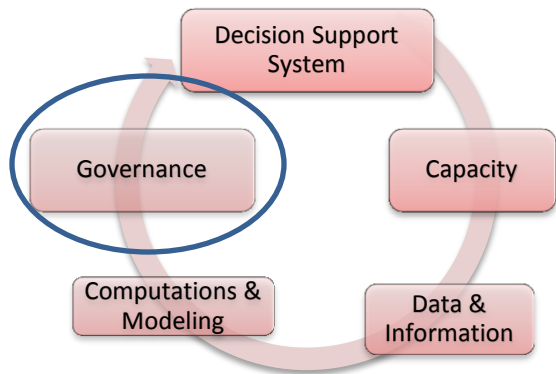
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Governance

✓ Needs Assessment/technology opportunities

- identify new technologies to facilitate access to information while imposing appropriate safeguards for confidentiality
- identify institutional strengths and weaknesses to facilitate analytical strengthening and information sharing
- link with knowledge portal

✓ Convene energy and water sectors

- Leverage existing organizations to promote cross-sectoral analysis and dialogue (e.g. ESCC)

World Bank National programs:

Partner activities:

- ✓ National Policy Dialogues
- ✓ IFAS/regional institutional strengthening
- ✓ Dam safety
- ✓ TAJ/AFG cooperation

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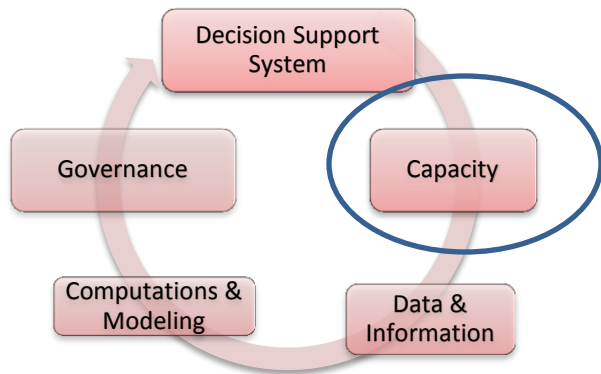


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Capacity

- ✓ **Communities of Practice**
Convene water and energy as a “brain trust” spanning countries, governments, academia and agencies, with invited independent specialists
- ✓ **World Bank Institute**
Training and knowledge sharing in specific water resources analysis approaches, such as climate adaptation and simulation modeling
- ✓ **CA Knowledge Forums**
Regular regional events to share knowledge within Central Asia and from international experience

World Bank National programs:

- ✓ Capacity building programs embedded in technical assistance and investment projects

Partner activities:

- ✓ UNRCCA scenario testing
- ✓ Early warning bulletins

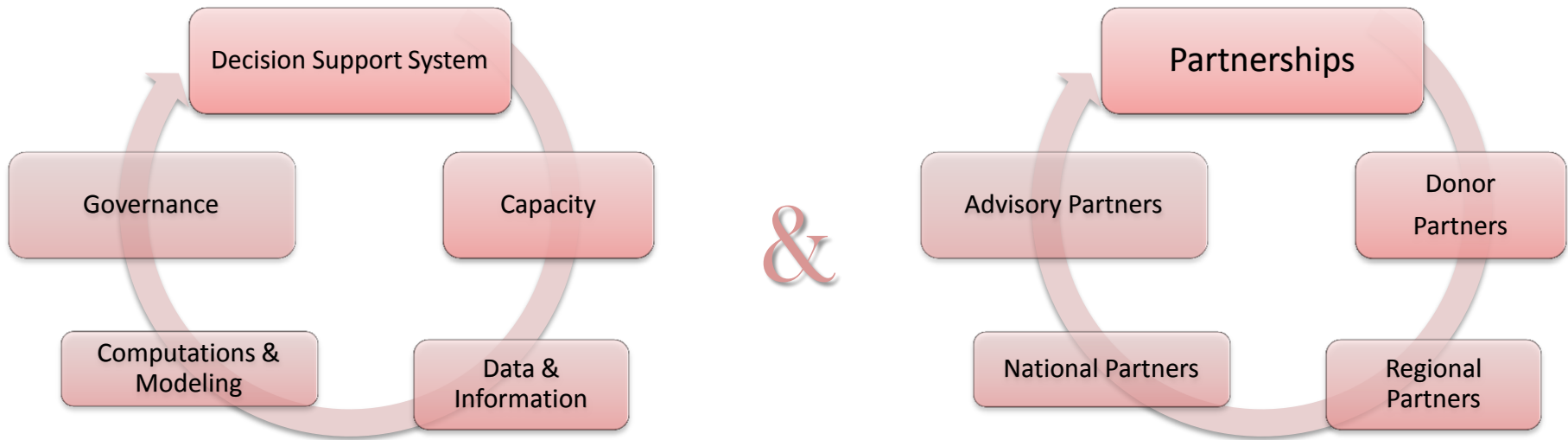
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Partnerships

EWP roadmap includes activities to be funded and/or supported by partners:

- **National Partners/Institutions**
 - National institutions and partners engaged in national and bilateral program implementation
- **Regional Partners:**
 - CAREC ESCC: ESCC will participate in activities and oversee progress
 - IFAS: Specialist agencies and ASBP3 program implementation
- **Donor Partners**
 - IFI & development partner engagement in national and bilateral programs
 - Multi-donor program in support of World Bank Central Asia Energy-Water Development Program
- **Advisory Partners**
 - Partnerships with international organizations for advisory and technical services (i.e. SIWI, World Bank Institute)



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Moving Forward for EWP

1. Establish a Community of Practice (CoP) of energy and water specialists
 - ESCC members will be asked to identify sector representatives; water specialists to be invited to key ESCC sessions
2. Create Central Asia Energy-Water Knowledge and Data Portal prototype
 - Effort will be coordinated with national water information management systems
3. Establish a knowledge platform with WBI and engage beyond government to universities, etc. for modeling and training
 - Coordinated effort is needed on multitude of capacity building efforts
4. Convene Knowledge Forum as follow up to July 2012
 - Schedule second Knowledge Exchange Forum Fall, 2013



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Thank you



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