



World Bank



## Central Asia Energy-Water Development Program (CAEWDP)

# Managing Energy-Water Linkages: Overview of the Work Program



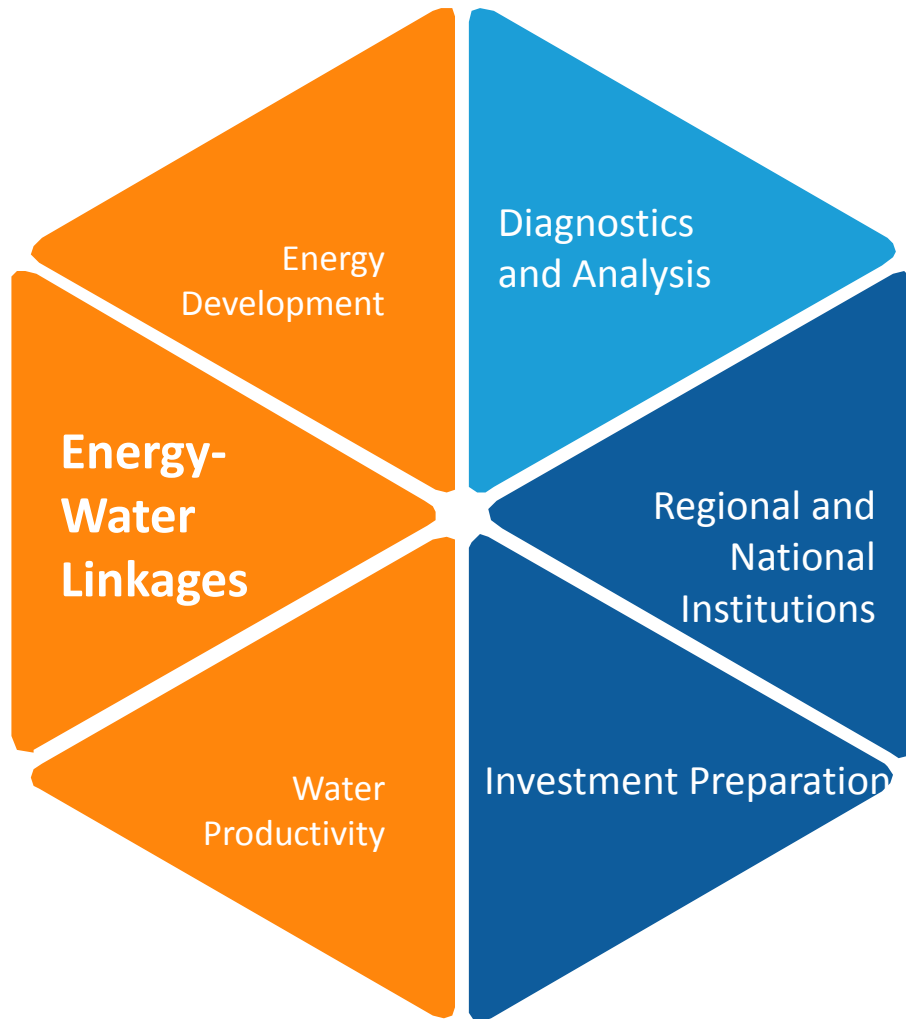
Working regionally to deliver national benefits

*Martha Jarosewich-Holder, Water Resources Specialist*

*UNECE National Policy Dialogue*

*Bishkek Kyrgyz Republic March 20, 2014*

# ..... three pillars and program outcomes



## 1. Diagnostics and Analysis:

Better understand the costs, benefits, opportunities, and risks of cooperation to national interests

## 2. Regional and National Institutions:

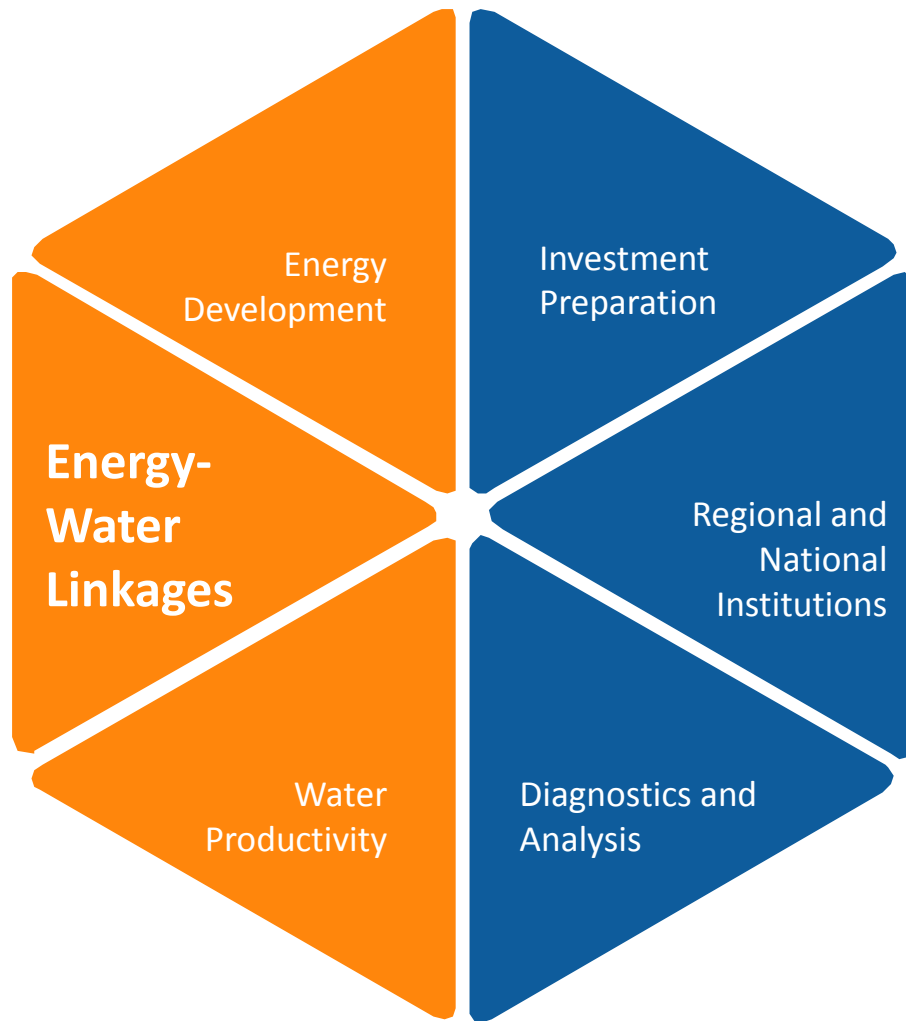
Strong physical, intellectual and management hubs for regional cooperation and dialogue

## 3. Preparation of Investments:

Expanded water and energy infrastructure investments, with early results

*A comprehensive program to build energy and water security for Central Asia through enhanced regional co-operation*

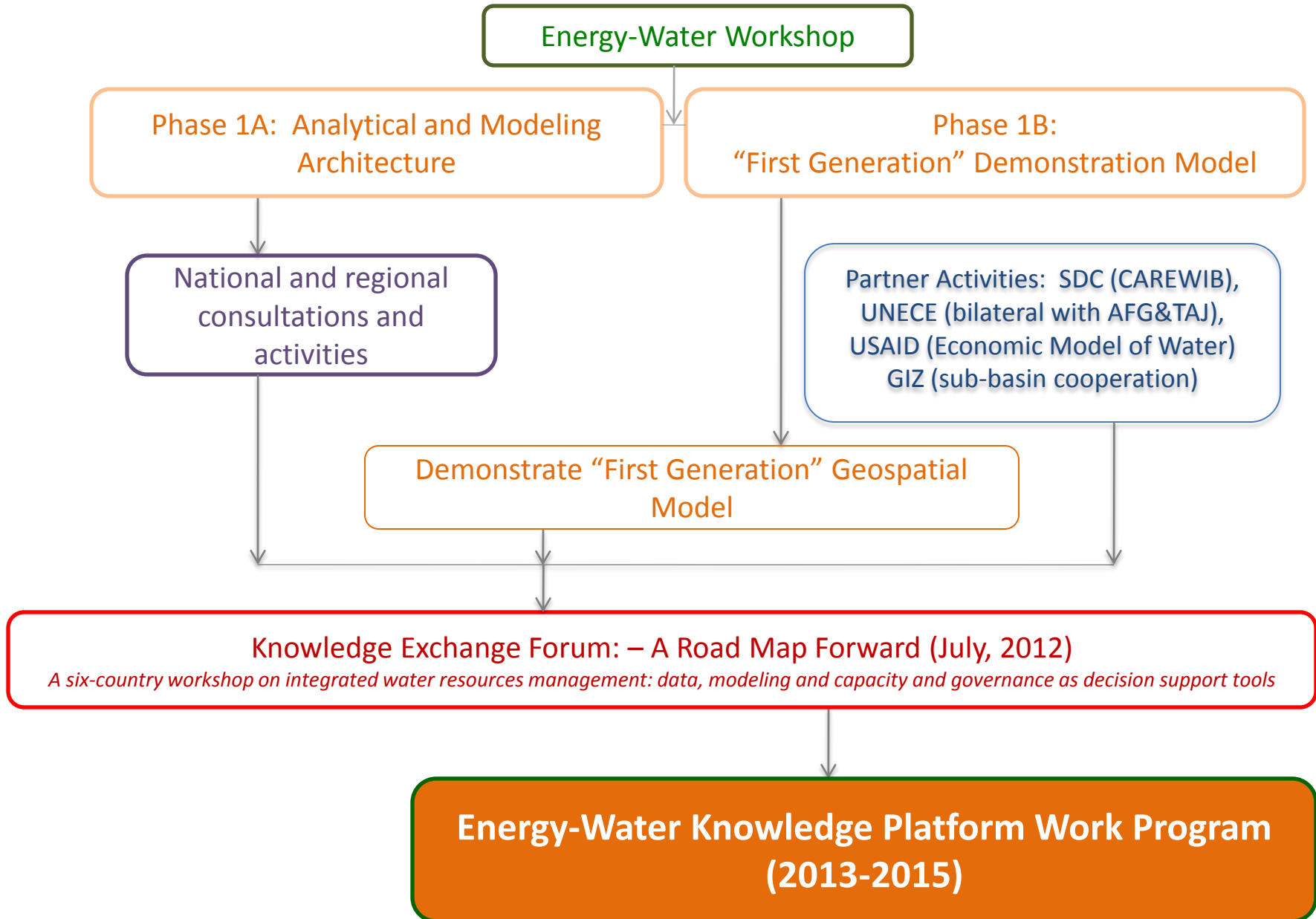
# CAEWDP: An integrated program



## Supported by:

1. Global experience
2. National Governments
3. Regional Organizations
4. International panel of advisors
5. Donor Partners

# Energy Water Linkages Plan of (2010-2012)



# Knowledge Platform for Strengthening EW Analysis

## ➤ Work Program Themes

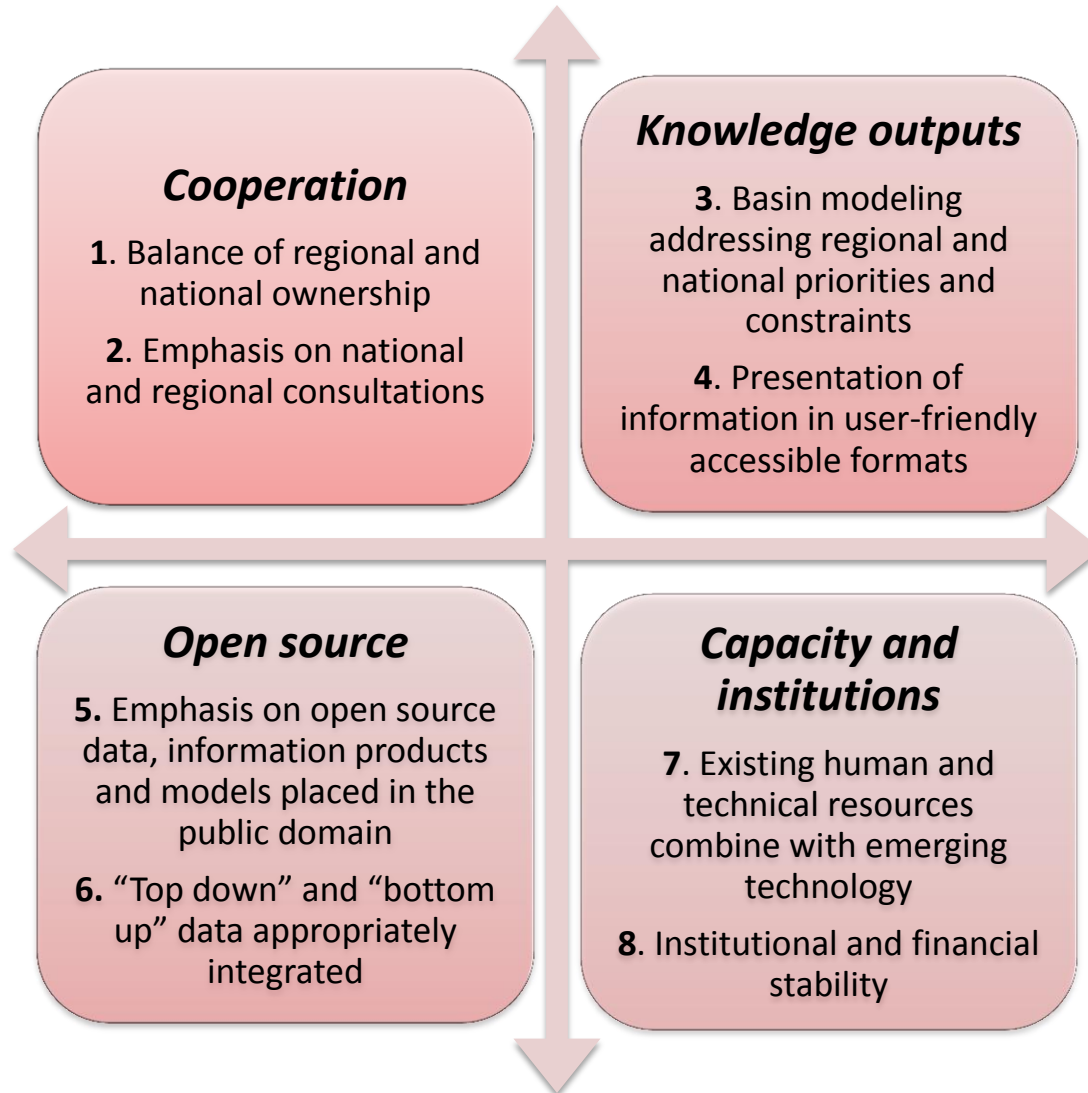
- Build on current resources
- Engage modern technologies
- Address priority issues
- Balance regional and national perspectives

## ➤ Work Program Actions

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

# ➤ Eight Governing Principles

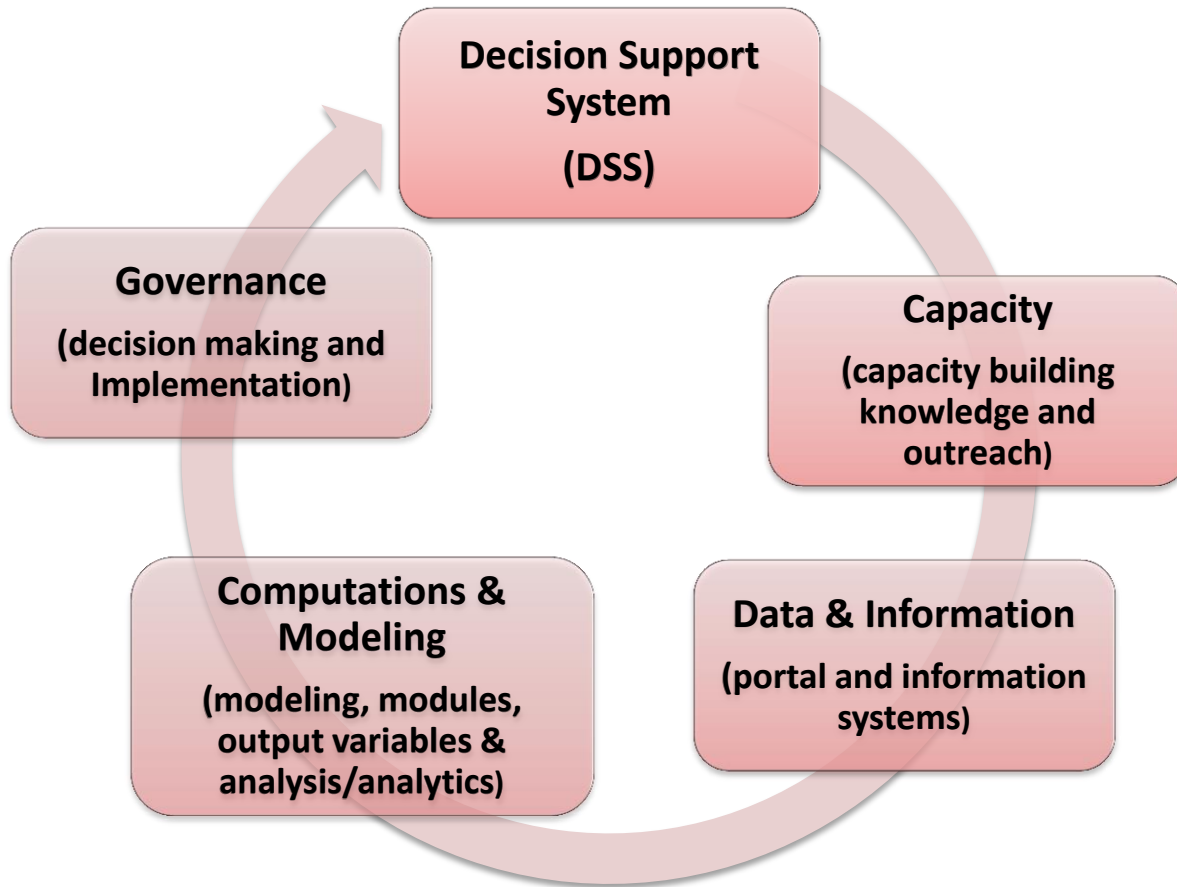
*Priority principles, identified by stakeholders, as outputs from Knowledge Exchange Forum and national consultations*

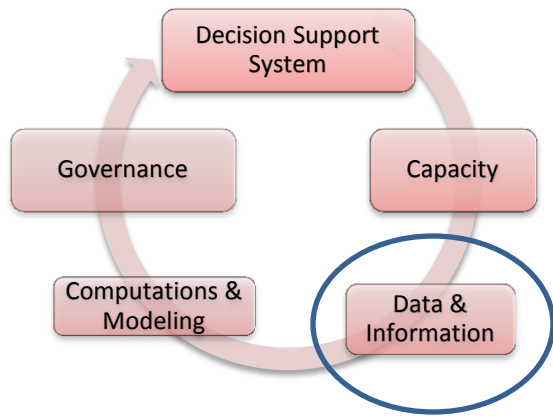


# Energy-Water Linkages

## Knowledge Platform and Decision Support

*the Road Map 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

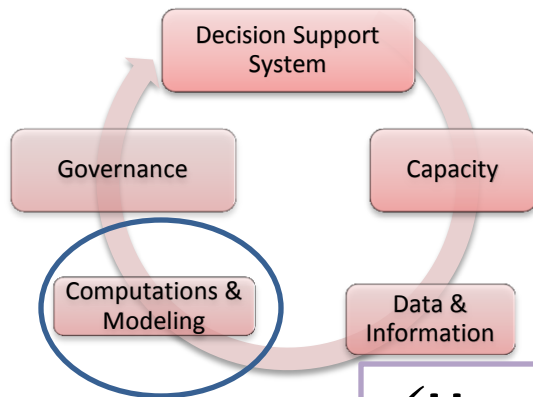
### World Bank National programs:

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

### Partner activities:

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





# 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

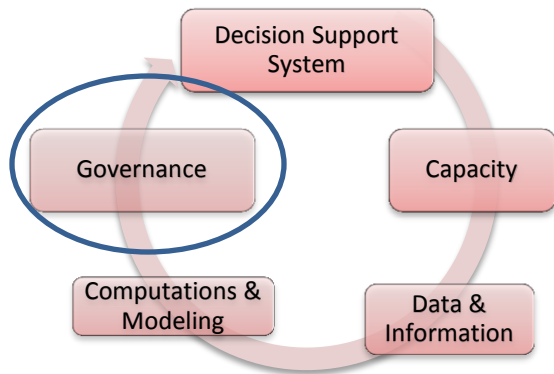
Application of system models to operational needs in the basins, focusing on areas of common concern: protocols for extreme hydrology and water conservation practices

### World Bank National programs:

- ✓ KAZ: SYNAPS 2 under preparation

### Partner activities:

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



# 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

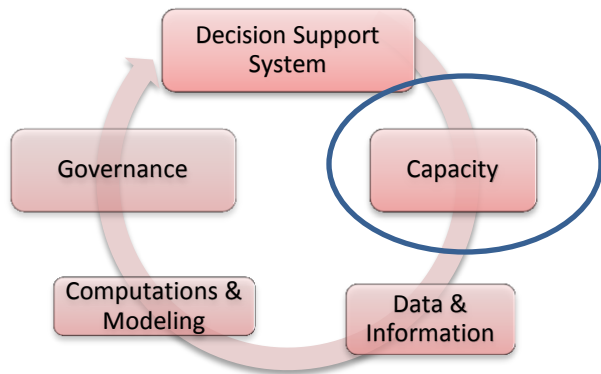
## ✓ Convene energy and water sectors

- 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



# 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**

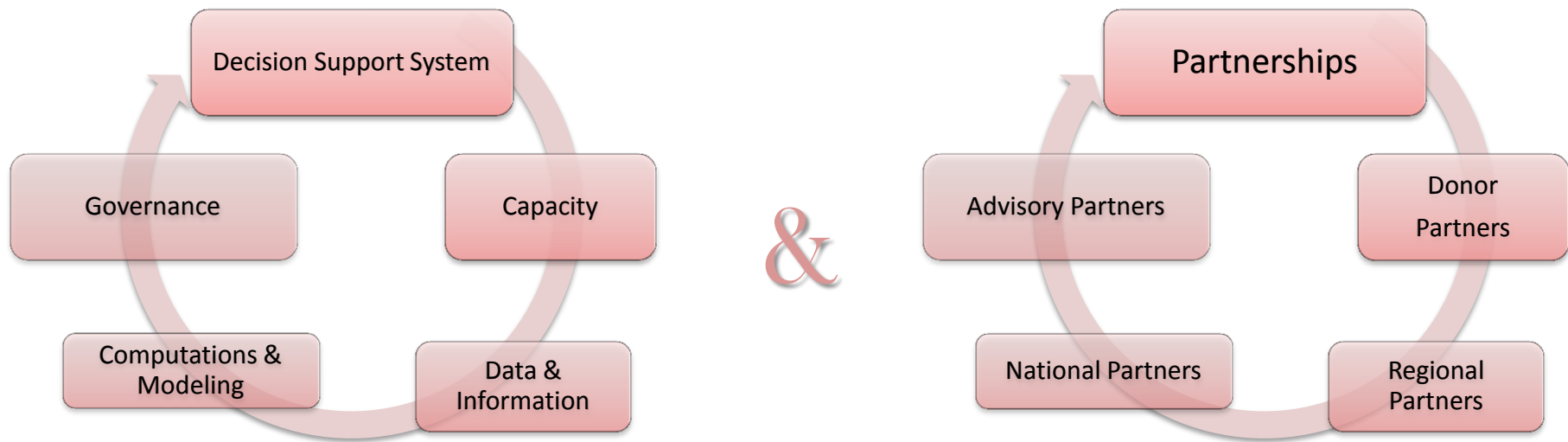
Regular regional events to share knowledge within Central Asia and from international experience

### **World Bank National programs:**

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

### **Partner activities:**

- ✓ UNRCCA scenario testing
- ✓ Early warning bulletins



## Partnerships

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)

***Thank you***

4/13/2014

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In partnership with ADB