



Islamic Republic of Afghanistan

*Implementation of IWRM Through River
Basin Approach in
Five Major River Basin in Afghanistan*

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*Eng. Sultan Mahmoud "Mahmoudi"
General Director of Water Affairs Management ,MEW*

Table of Contents



1. Over-view of IWRM
2. The Main Objective of IWRM
3. Basic pillars of IWRM
4. Challenges of IWRM
5. Opportunities
6. Achievement of IWRM and Future plans
7. Conclusion
8. Expected to NARBO

1-Over-view of IWRM



- Water shortage issue for different purposes is one of the key challenges
- To meet for the challenges:
- IWRM is consider for water security and water demand through the implementation of RB approach
- Therefore IWRM concept is one of positive response to finding solution for the water shortage issue and meet the needs
- So, according to water sector policy , strategy and water law IWRM is selected for planning of WRD
- Hence for beneficial , not only interest social and economical, development and adoption of climate change for Afghanistan, but also for the whole region

2-The Main objective of IWRM

- To gradually decentralize the response.
- Inclusive all of stakeholders in planning and decision making to the optimal use of water resources for :
 - Economical growth needs
 - Social welfare
 - Poverty alleviation
 - And environment protection and sustainable development

3-Basic pillars of IWRM



- Water policy
- Water Law
- Water Management Institutional Structure
- Clearly defined responsibilities between the different levels (at national and basin level)
- Participation of all stakeholders

Water policy:

General Principles For Implementation of (IWRM)

- Development and management of WR under taken in a holistic (basin) in sustainable manner,

Basic pillars of IWRM



- Develop. And manage. of WR based on participatory and consultative Approaches at all levels.
- Decentralize planning and Develop. And manage. of WR according to the hydrological boundaries ,
- Develop. of the equitable and reasonable use of trans boundary water to ensure mutual interest,
- Environment protection

Basic pillars of IWRM

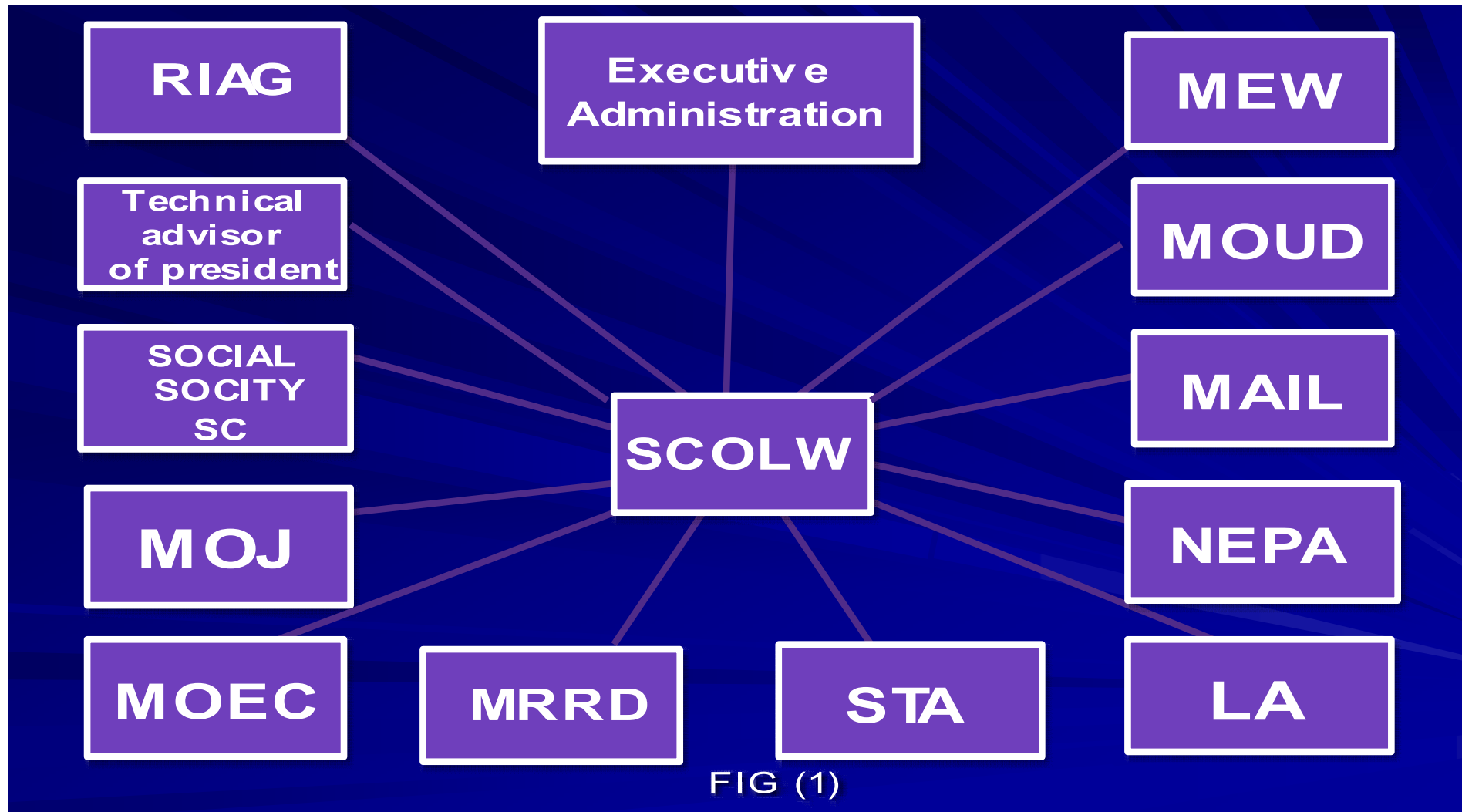


Water Law: The legal institutions of IWRM are as follows:

- Supreme Council of Land and Water (SCoLW).
- Involved Ministries and Institutions (**line ministries**).
- River basin and sub-basin organization (RBO & SBO):
 - Advisory Board at basin level,
 - River basins and sub-basins councils (RBC & SBC).
- Water Users Associations (WUAs).
- Irrigation Associations(IAs).

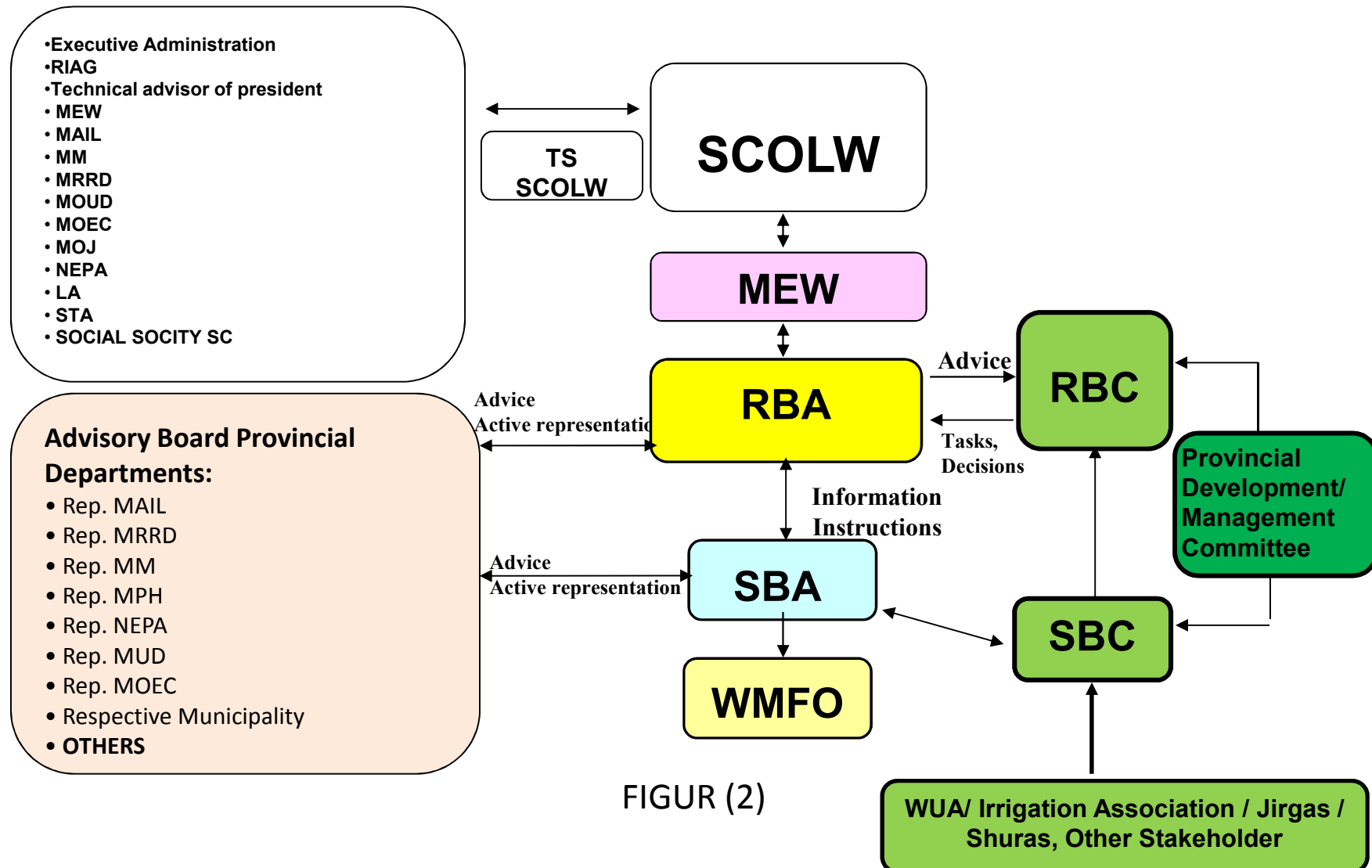
Basic pillars of IWRM

Water Resources Management Institutional Structures at National Level : figure(1)



Basic pillars of IWRM

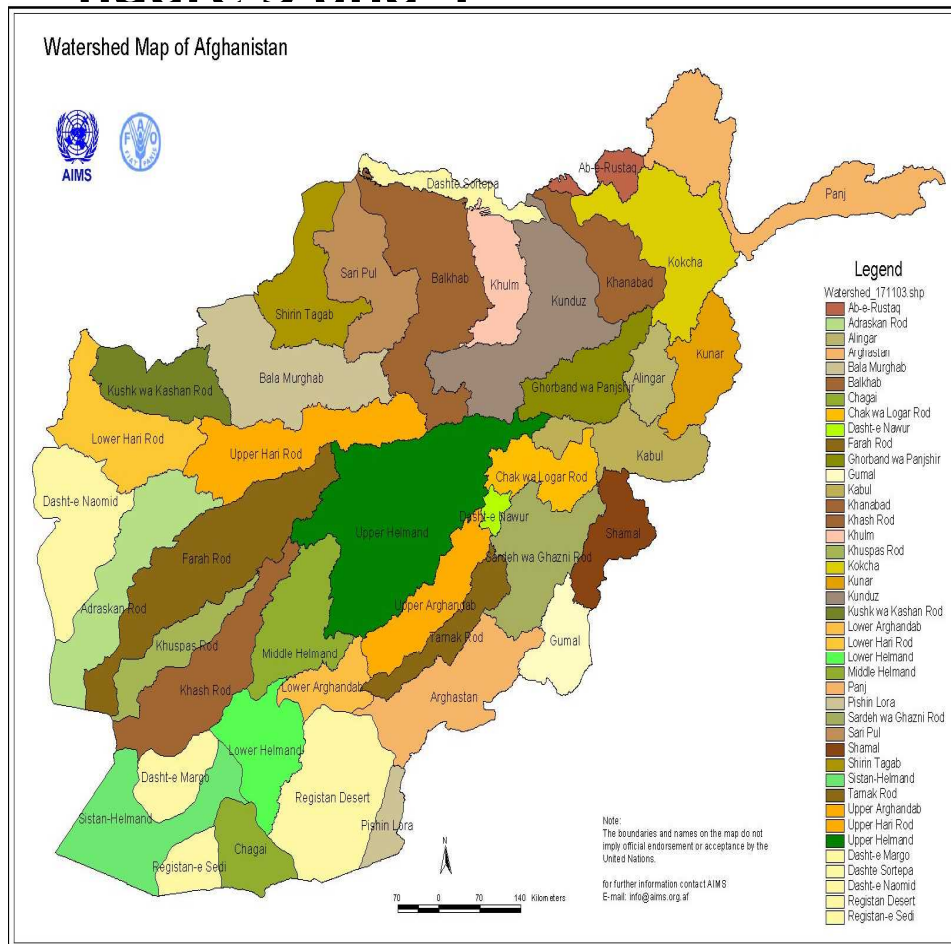
Participation of all stakeholder at national and River Basin level in figure 2.



FIGUR (2)

Basic pillars of IWRM

Integrated Water Resources Management Institutional Structures in River basins: These structures are presented in figure 3 and 4



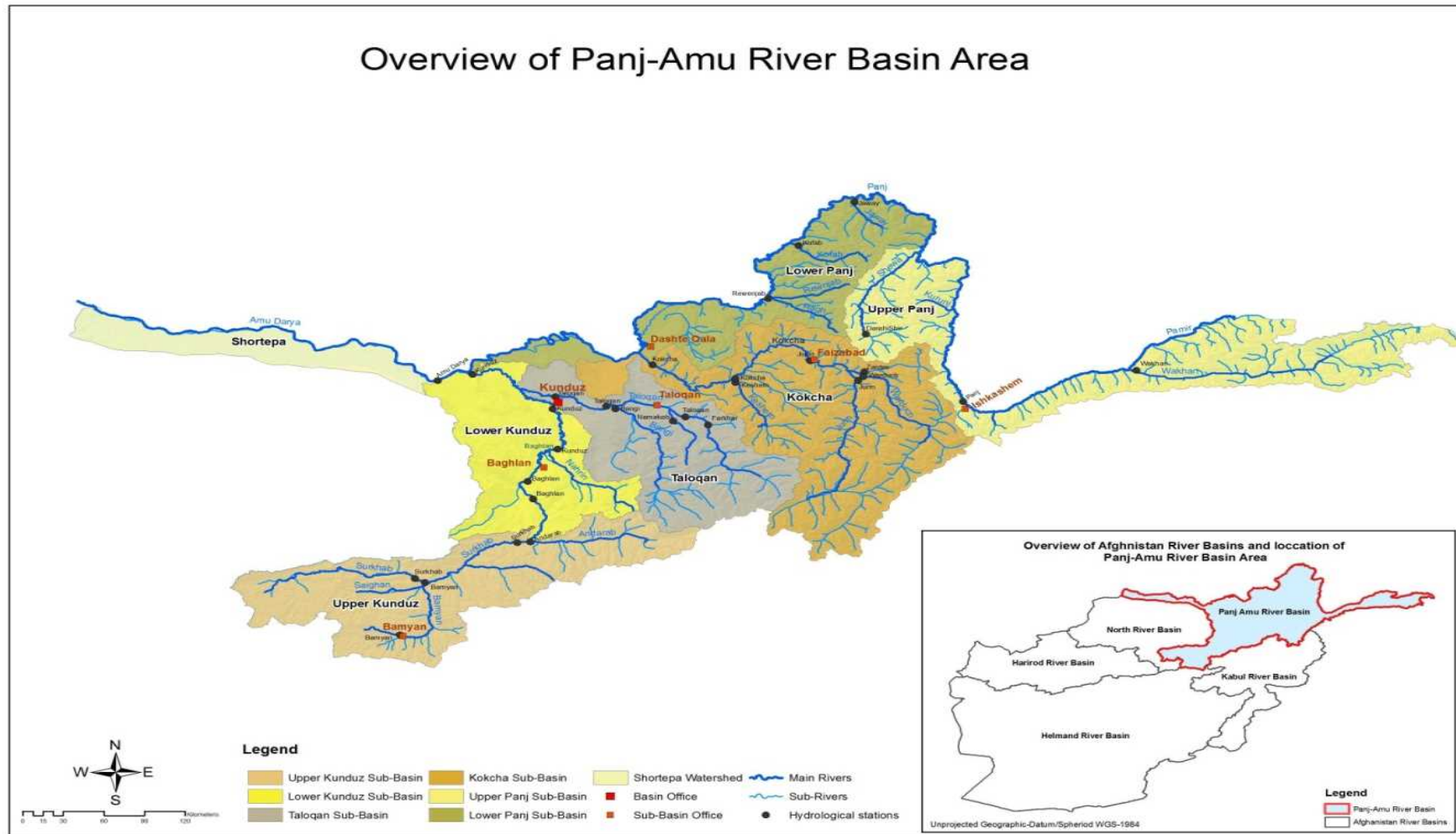
FIGUR (3)



FIGUR (4)

Basic pillars of IWRM

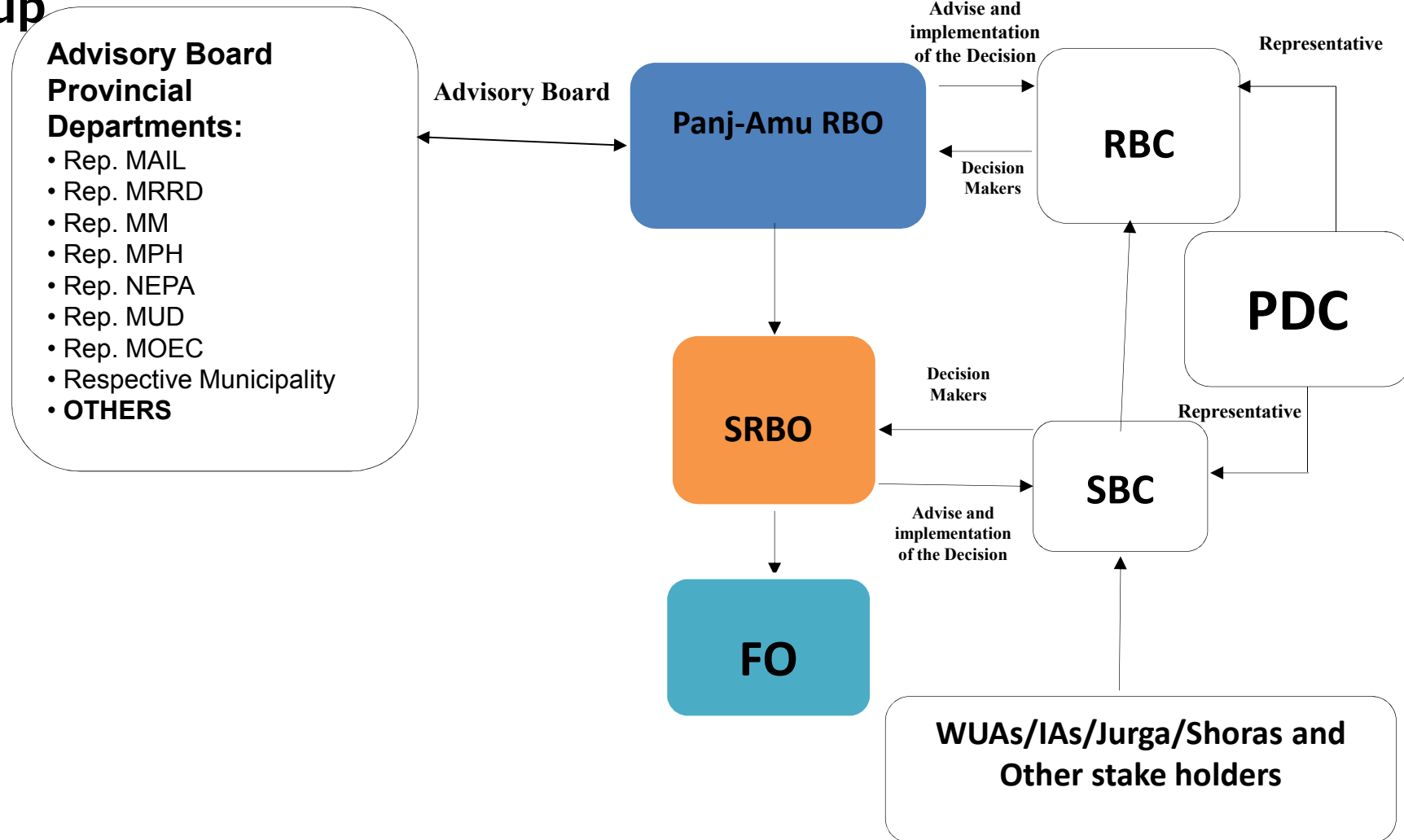
Panj Amu River Basin Institutional Setup: Figure- 6



FIGUR (6)

Basic pillars of IWRM

Figure (7) Panj Amu River Basin Participatory Approach Set-up



FIGUR (7)

4-Challenges in IWRM

A blue-tinted world map is visible in the background of the slide, showing the continents of North America, South America, Europe, and Africa.

- Lack of RBC, SBC and advisory board
- Insufficient capacity for the implementation of IWRM
- Poor transfer of Power/Authority
- 27 years hydro meteorological data gap
- lack of water master plan for numbers of river basin
- lack of strategy and WRD program
- Insufficient participatory approach and coordination between...
- Shortage of budget for the WRDP
- lack of agreement between Afghanistan and neighboring countries on trans boundary water issues

5-Opportunities for IWRM



- Political will and strongly support the decision makers
- Existing SCOLW at national level
- To develop RBA, SBA and WUAs in five major river basin
- To interest donors , international community , national and international organizations
- Existing water sector policy and strategy
- Existing national WRDP
- Existing water law

6-Achievement of IWRM and Future plans

Preparation of policies , strategies and law

Strategic Policy Framework:

- ANDS
- National Water Sector Strategy
- Water Law.
- GW Policy.
- Irrigation Policy.
- WR policy and strategies.
- Water Supply and Sanitation.
- Flood Management Policy.
- Trans-boundary water policy.
- Capacity Building Policy

Achievement of IWRM

Establishment of Institutions:

- SCoW and TS SCoW – Now SCoLW
- 5 Major River Basin Agencies (Director General)
- 36 Sub-Basin Agencies,
- 328WUAs: PARBA 108, KRBA 95, NRBA 74, HMRBA 26, HRBA 25
- River Basin Advisory Board (Now Regional Coordination Committees RCC)
- RBA Coordination office under DG of Water Management
- Water Right Department: TB section, Registration office, Conflict Resolution office,
- Establishment of Flood and Drought forecast and awareness Unit.
- Establishment of Joint Data Sharing Committee (Afghanistan and Tajikistan)

Future plans of IWRM



- Establishment of Advisory Board at Basins Level
- Establishment of RSBC, RBC
- Panj-Amu RB Master plan,
- RB Strategies and development program
- Panj-Amu RB planning and modeling
- Data sharing and dissemination policy/mechanism,
- Establishment of Joint Coordination Committee JCC.
- Capacity building based on Water Sector Capacity Building Policy
- Gradual Transfer to RBAs,

7-Conclusion

Expected Results of IWRM Implementation

- Access to safe water for drinking and domestic purposes
- Access to adequate water for agriculture sector for food production
- Provision of required water for hydropower and industry
- Creation of job opportunities
- Protect ecosystems (Risk management)
- Access of society to awareness as to rational use of water
- Strengthening cooperation among different sectors (Improving participatory approach)
- Improve role of women's participation in water resources management.
- Proper management of trans-boundary water through access to international agreement considering sharing of mutual interests.

9-Expected to NARBO



- To be provide with opportunities for Panj-Amu RB Agency to share experiences through NARBO
- Providing of capacity building by NARBO to the Panj-Amu RB Agencies and local institutions (WUAs, IAs)
- Technical and financial support for projects related to WRM and Develop. In the Panj-Amu RB
- Providing technical support for developing the RB planning and appropriate modeling for Panj-Amu RB



Thank you for your attention