



POLICY BRIEF: NPD IN ARMENIA AND LESSONS LEARNT

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Outline

- ❑ First generation reforms,
 - ❑ Second generation reforms,
 - ❑ Marmarik River basin pilot studies by UNECE,
 - ❑ Marmarik River basin pilot studies by other donors,
 - ❑ Activities in other basins,
 - ❑ Transboundary cooperation,
 - ❑ Lessons learnt,
 - ❑ Policy recommendations
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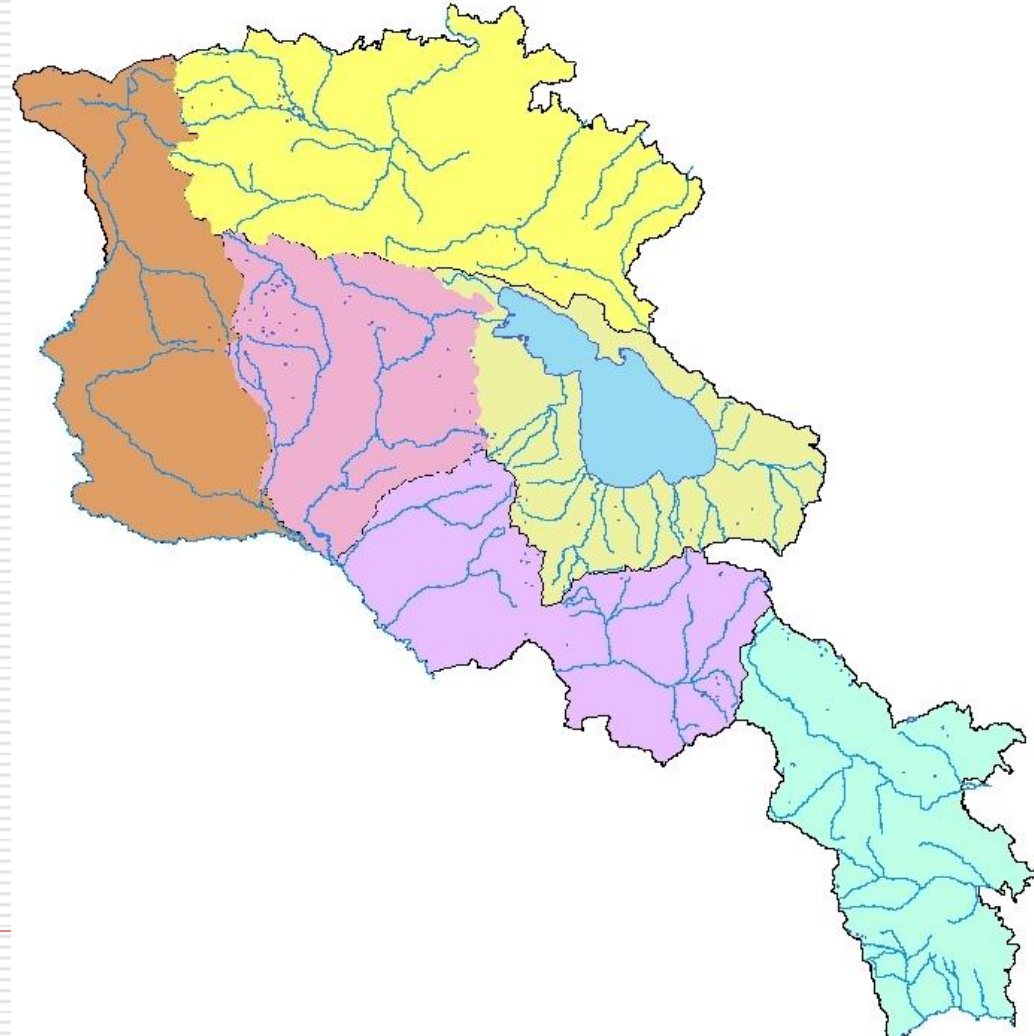
FIRST GENERATION REFORMS

□ Legal

- Water Code – 2002,
 - National Water Policy – 2005,
 - National Water Program – 2006, includes short-, medium- and long-term measures
 - Over 120 by-laws and regulations
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FIRST GENERATION REFORMS

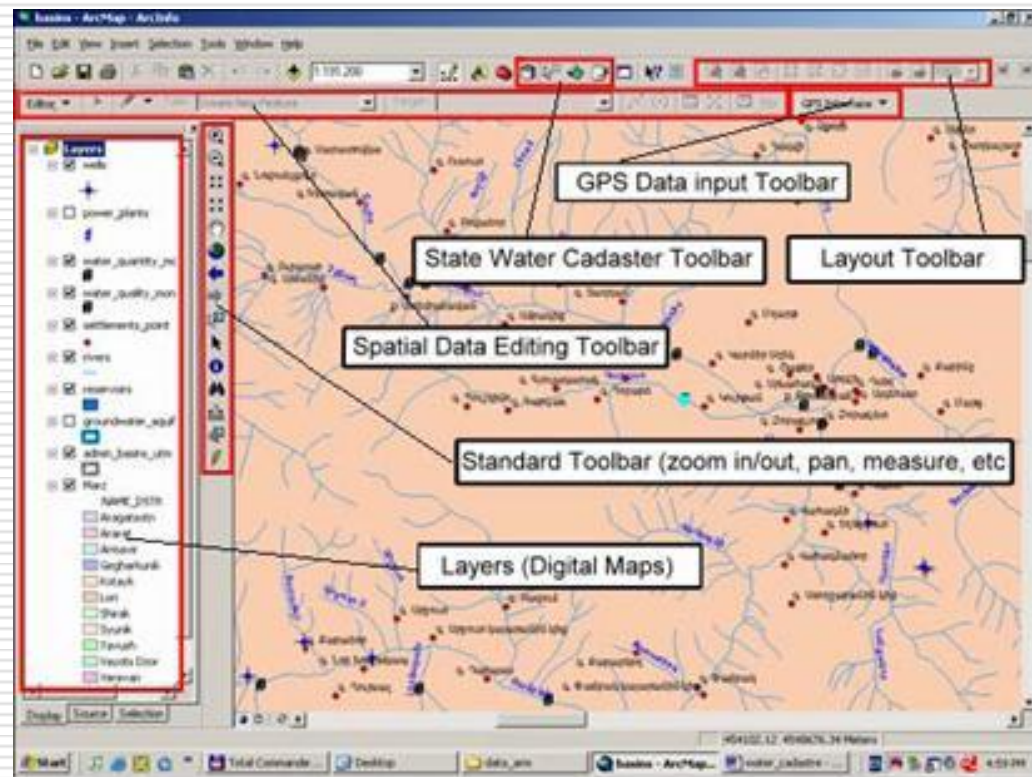
- Institutional
 - Management and protection of water resources - WRMA
 - State management of water systems - SCWS
 - Tariff policy in water sector – PSRC
 - 6 BMOs



FIRST GENERATION REFORMS

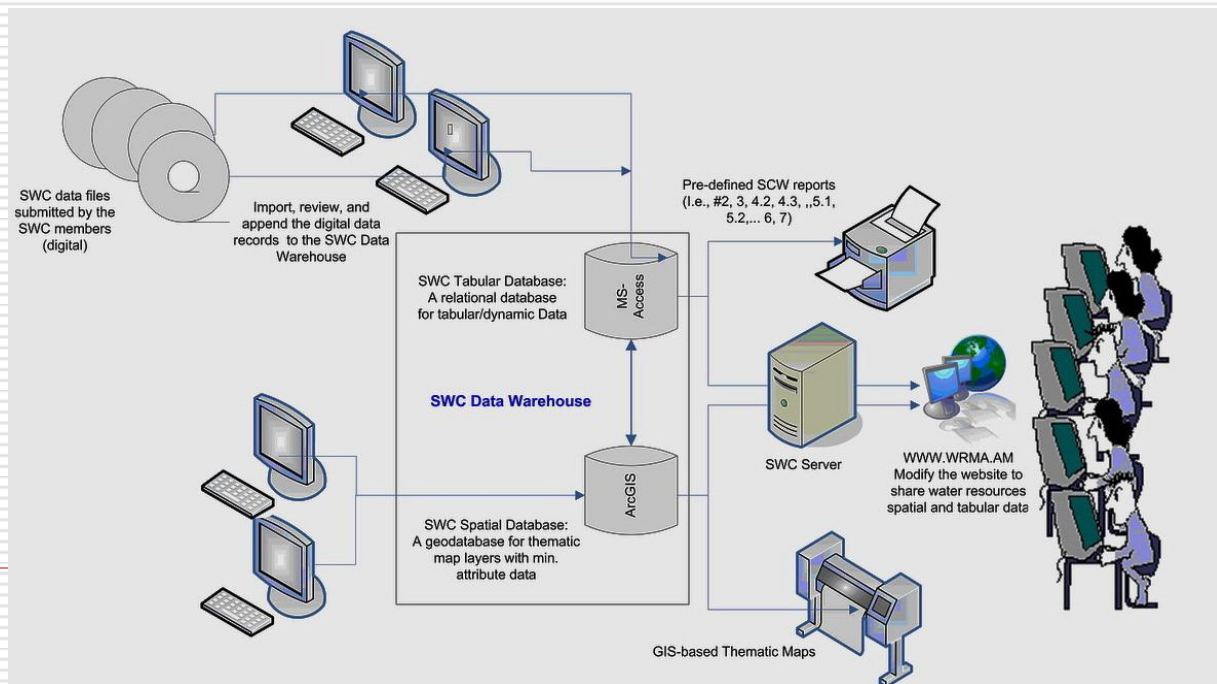
□ State Water Cadastre

- Establishment of data warehouse,
- Registration of documents and information provision,
- Formation of water resources monitoring tasks,
- Inventory of HTSs,
- Composition of water balance and water-economic balance



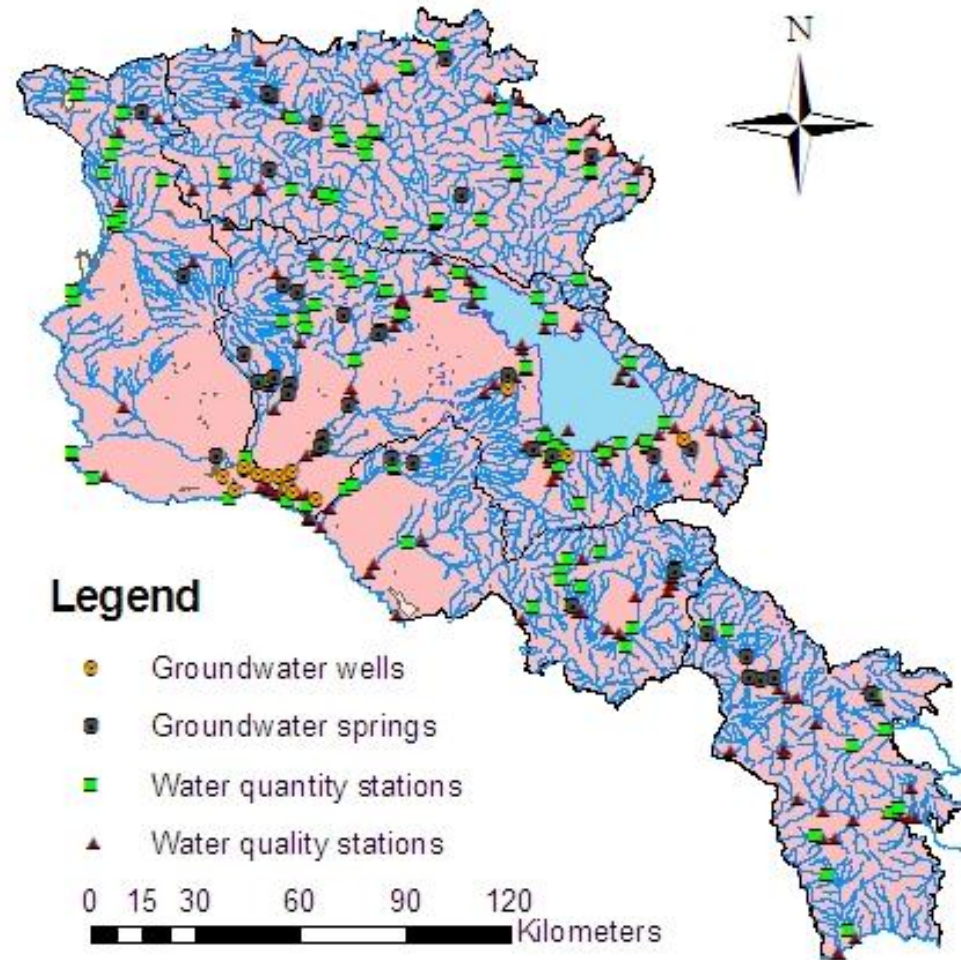
SECOND GENERATION REFORMS

- ❑ Improving coherence and consistency among laws and regulations,
- ❑ Technical and institutional strengthening of agencies involved in water management,
- ❑ Decentralization of water resources management through strengthening of BMOs,
- ❑ Better utilization of the SWC



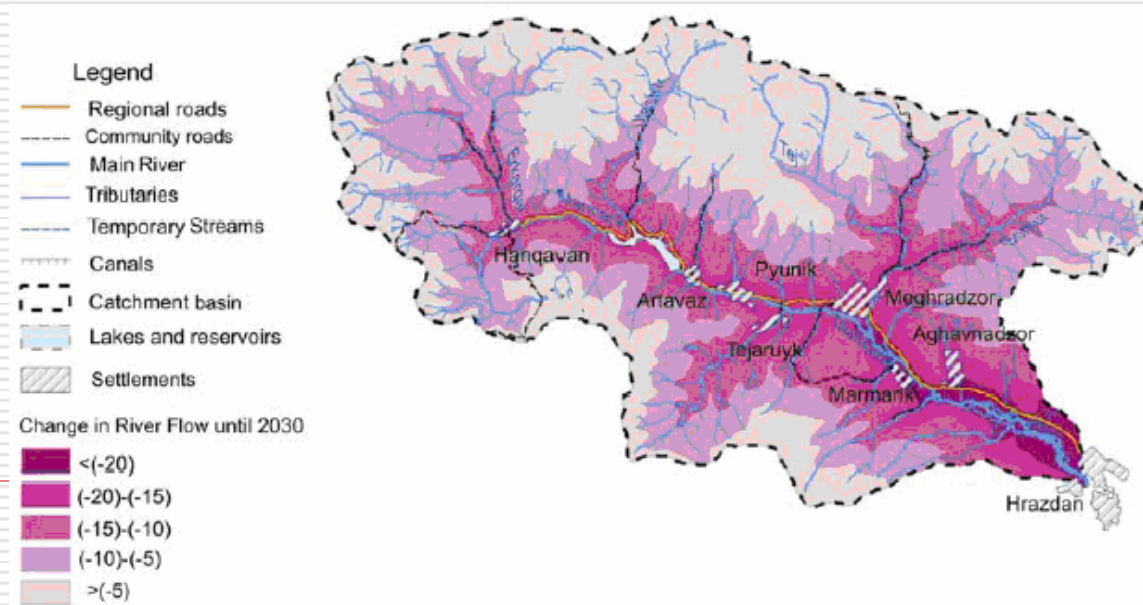
SECOND GENERATION REFORMS

- ❑ Improved WUP implementation and administration,
- ❑ Improved hydro-morphological and physico-chemical monitoring of surface waters,
- ❑ Re-vitalization of groundwater monitoring,
- ❑ Introduction of biological monitoring



MARMARIK RIVER BASIN – UNDP STUDY

- UNDP – Complex assessment of climate change impact on water resources of Marmarik River basin
 - Elaborate climate changes projections according to IPCC scenarios for 2030, 2070 and 2100,
 - Identify possible conflicts of interest between major water users (drinking water, irrigation, hydro-energy, recreation),
 - Assess water users' and financial-economic losses in water sector due to climate change,
 - Adaptation measures:
 - (a) no regret,
 - (b) low cost,
 - (c) economically feasible

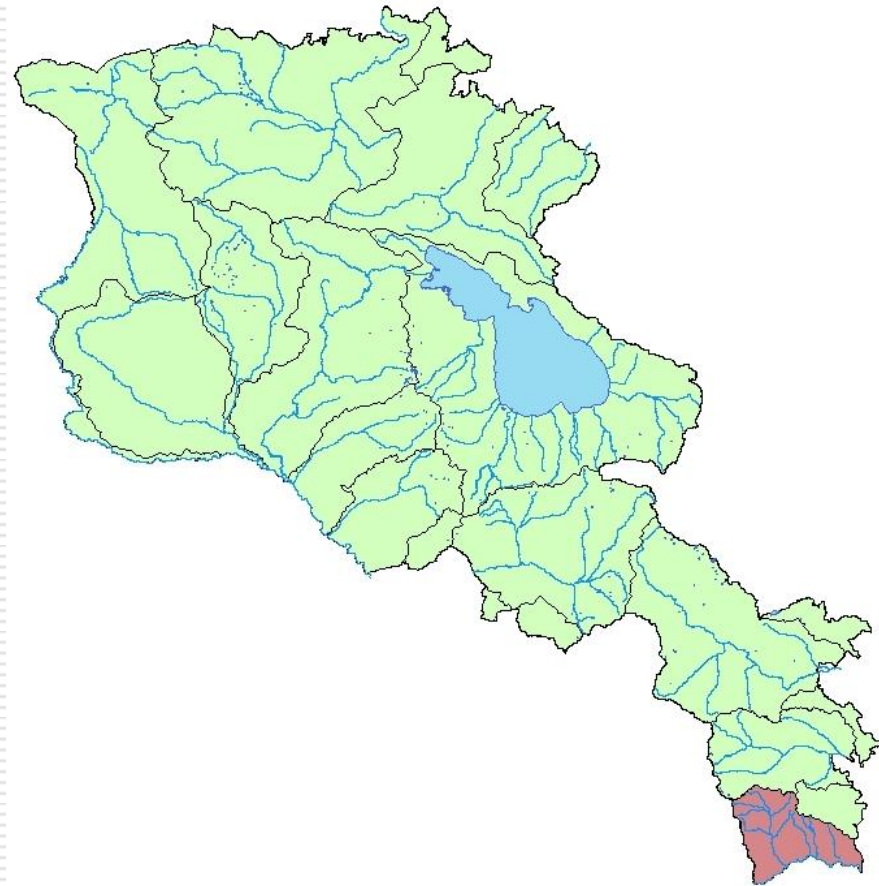


MARMARIK RIVER BASIN – OECD STUDY

- Financial dimensions of water resources management
 - Analysis of water resources financing based on measures proposed by UNECE study,
 - Improving role of economic incentives,
 - Key sectors: irrigation, domestic water supply and sanitation, industrial water use, hydropower, fisheries
 - Development scenarios for water resources management
 - Forecasted economic growth,
 - Water demand forecast,
 - Planning period: 2030,
 - Scenarios: baseline, maximum, supply-driven, consensus
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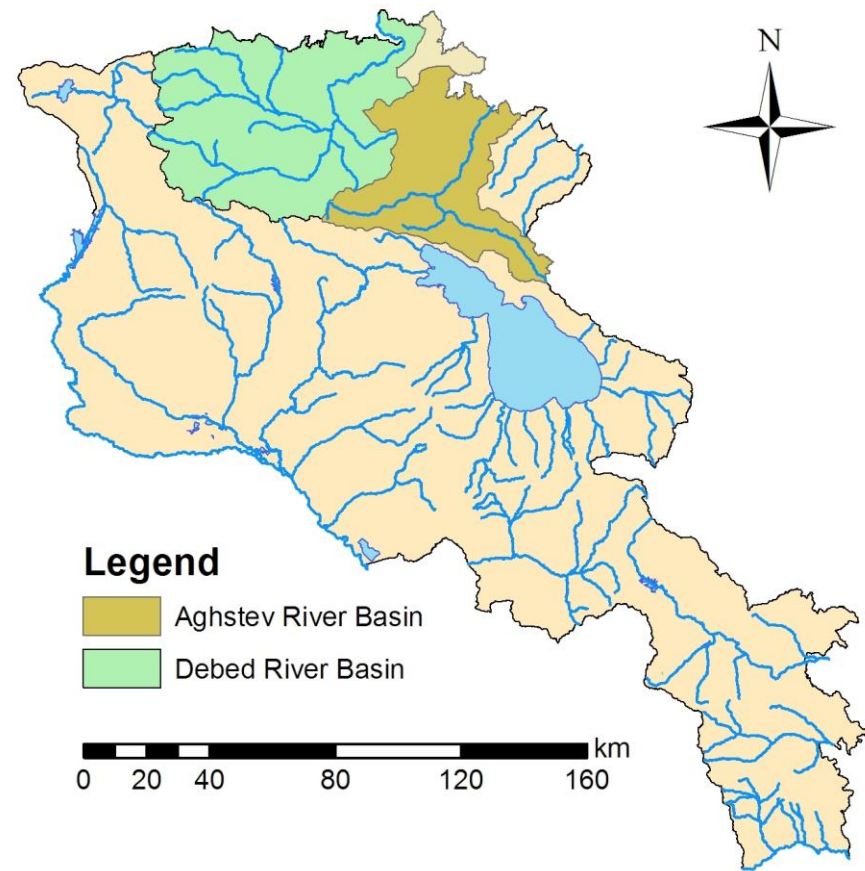
ACTIVITIES IN OTHER BASINS

- USAID Model guidelines for RBMP
 - Characterization,
 - Classification,
 - Setting environmental objectives,
 - Pressure-impact analysis and setting measures



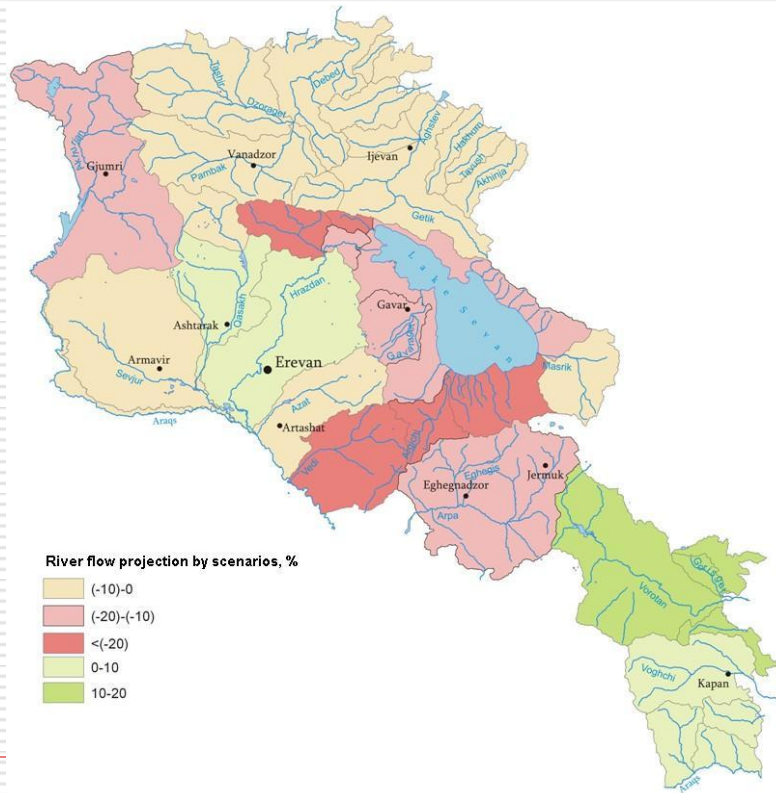
ACTIVITIES IN OTHER BASINS

- EU Kura River Phase II project
 - Charecterization,
 - Pressure-impact analysis – EU WFD CIS guidance document 3
 - POM to achieve “good status”,
 - EU WFD compliant monitoring program – 10% extra cost

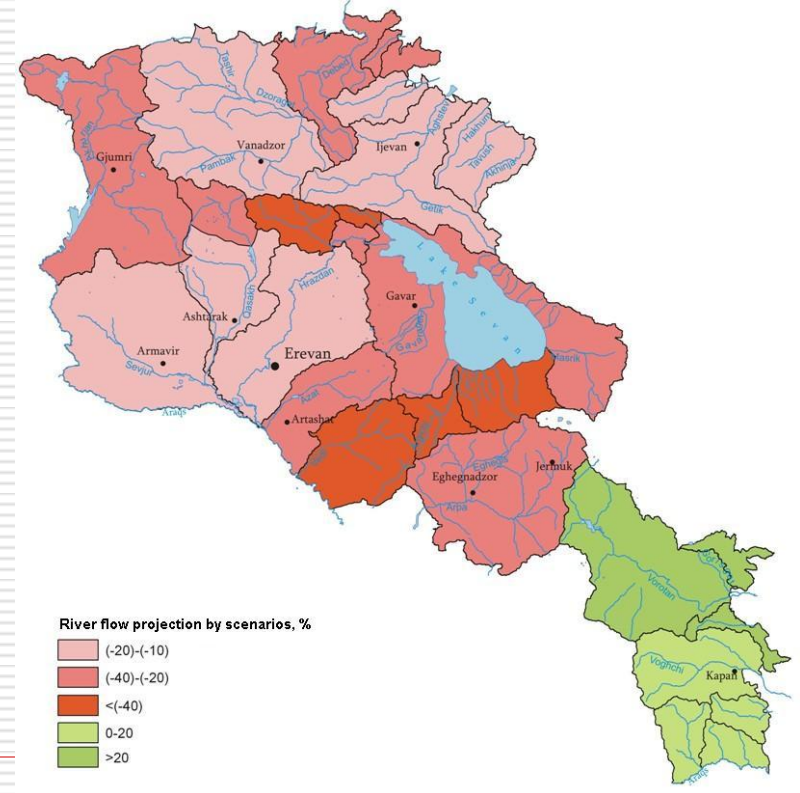


ACTIVITIES IN OTHER BASINS

- UNDP SNC to UNFCCC - "Assessment of Vulnerability of Water Resources due to Climate Change"



2030



2070

TRANSBOUNDARY COOPERATION

- ❑ USSR-Turkey agreement: 1927
- ❑ USSR-Iran agreement: 1957
- ❑ Armenia-Iran joint monitoring of water quality since 2006
- ❑ Armenia-Georgia-Azerbaijan-joint monitoring of water quality 2009-2010



TRANSBOUNDARY COOPERATION

- ❑ USAID Water Management in the South Caucasus, 2000-2004,
 - ❑ EU Joint River Management – Kura Basin, 2002-2003,
 - ❑ SIDA Reducing Transboundary Degradation in Kura-Aras Basin, 2004-2005,
 - ❑ NATO Joint River Monitoring, 2004-2007,
 - ❑ UNDP/GEF Reducing Transboundary Degradation in Kura-Aras Basin PDF B, 2005-2007,
 - ❑ USAID Transboundary Integrated Water Resources Management, 2005-2008,
 - ❑ EU Water Governance in Western EECCA Countries, 2008-2010,
 - ❑ EU Transboundary River Management Phase II for the Kura River Basin, 2008-2011,
 - ❑ EU Creation of Enabling Environment for IWRM of the Kura-Aras Basin, 2010,
 - ❑ UNDP/GEF Reducing Transboundary Degradation in the Kura-Aras River Basin, 2011-2014
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LESSONS LEARNT

- ❑ Adopted policy packages,
- ❑ Coordination,
- ❑ Local dimensions,
- ❑ Financing of IWRM,
- ❑ Information sharing and public participation



POLICY RECOMMENDATIONS

- ❑ Development of biological monitoring system ,
 - ❑ Re-vitalization of surface water quality and hydro-morphological monitoring system in line with EU WFD requirements,
 - ❑ Performance of groundwater quantity and quality monitoring,
 - ❑ Decentralization of water resources management through development of river basin management plans
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