







Mediterranean Water Knowledge Platform



NATIONAL WATER INFORMATION SYSTEM





Presented by

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19-20 October 2017, Barcelona, Spain





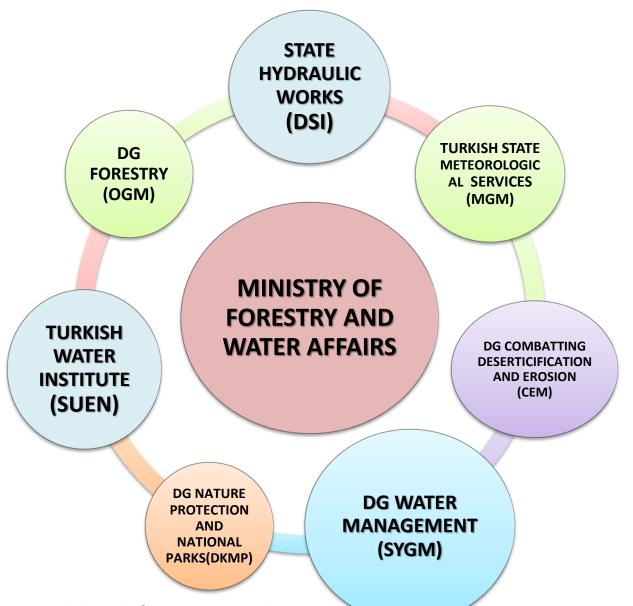








Organization Schema of Ministry





Mediterranean Water Knowledge Platform, 19-20 October 2017

Organization Schema of DG of Water Management

General Directorate of Water Management

Basin Management Department Water Law and Policy Department

Monitoring And Water Information System Department

Flood and Drought Management Department

Research And Assessment Department

Water Quality Department

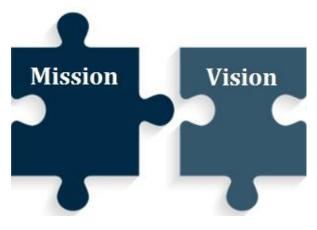


National Water Information System (NWIS) Vision and Mission

Integrated Assessment of water on the basin basis by considering all components (quantity, quality use, flood, drought)

To provide decision support in the establishment of the National Water Policy,

Ensure safe and effective sharing of content and standards that will meet the needs of all users on both national and international platforms



Contributing to the etransformation studies of our country

Having a water information system that can be proper for technological developments shown as an example in the world



NWIS Project Plan



2013 - 2017

Advanced Development

Maintanence and Guaranty

Sustainability





2015



7

II phase
(planning)

- Dissemination
- Sustainability of system
- 2018-2019

Feasibility Study

- Legislation
- Strategy and route map



2013

I Phase (developement)

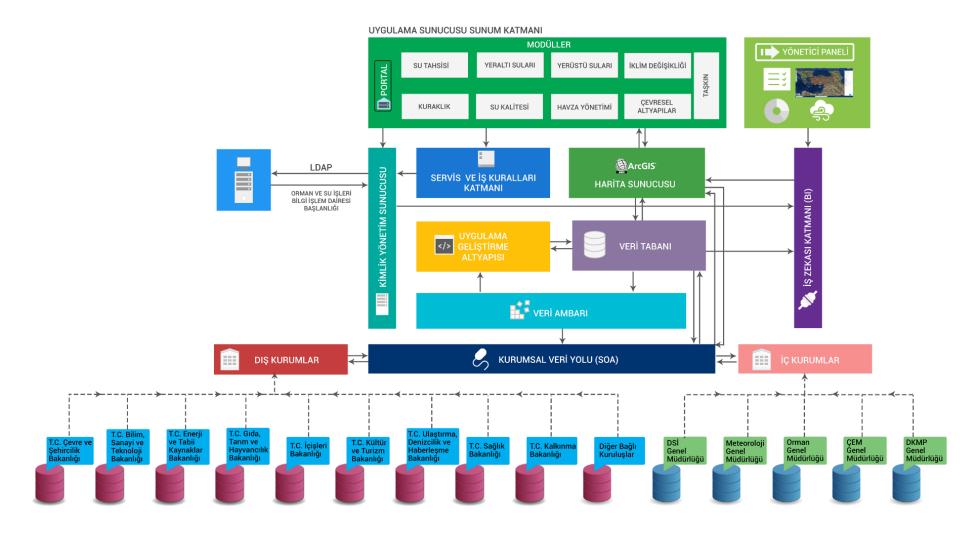
- Analysis and Preliminary Design Phase
- Design and Development
- Integration with other institution



NWIS Phases & GIS Standards

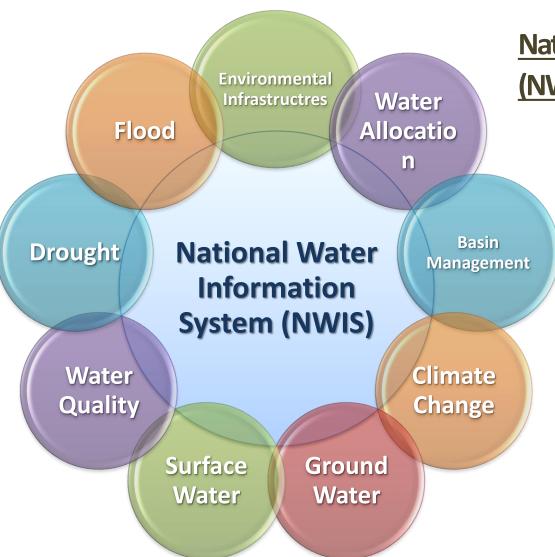
- Feasilibity Course Development Process Data Integration w. **Institutions** Full GIS Support & Reports • E-State Integration
- ✓ National Water Information System will be established in line with the OGC (WIMS, WFS, etc.) and INSPIRE Standards → TUNGIS
- ✓ "Environment Chapter" opened for negotiations on 21.12.2009 in the harmonization of the EU Water Framework Directive (WFD).
- ✓ According to WFD, member states/countries have to achieve the goal of reaching a good situation for all waters and provide the legal framework for a number of actions.
 - WFD requests most of the information in a Geographical Information System (GIS) format

NWIS Architecture





NWIS Module Plan



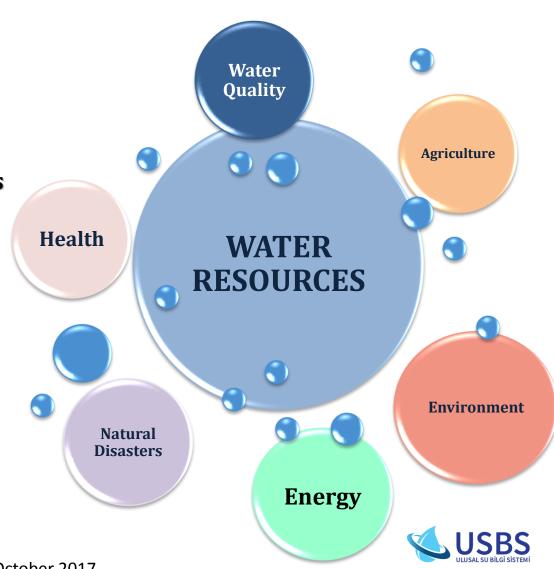
National Water Information System (NWIS) Modules aim:

• To make an inventory about quality, quantity and allocation of water sources with basin-based approach and a contribution to national water management with scientific approach to environmental effects from water usage.

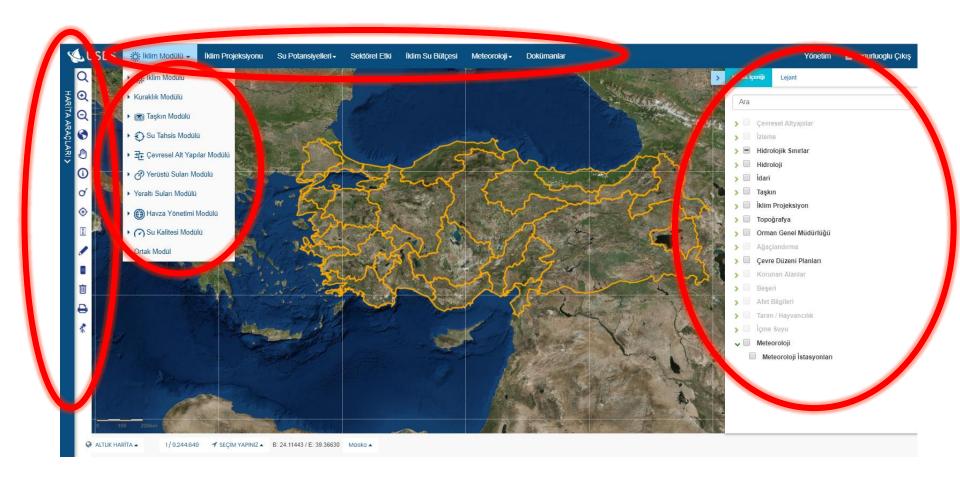


NWIS Content Coverage

- Water quality and quantity
- ☐ Ecologic Life
- Basin Managemenet
- □ Allocations, loss and leekages
- Energy and Industrial Sector
- Natural Disasters
- Climate Change

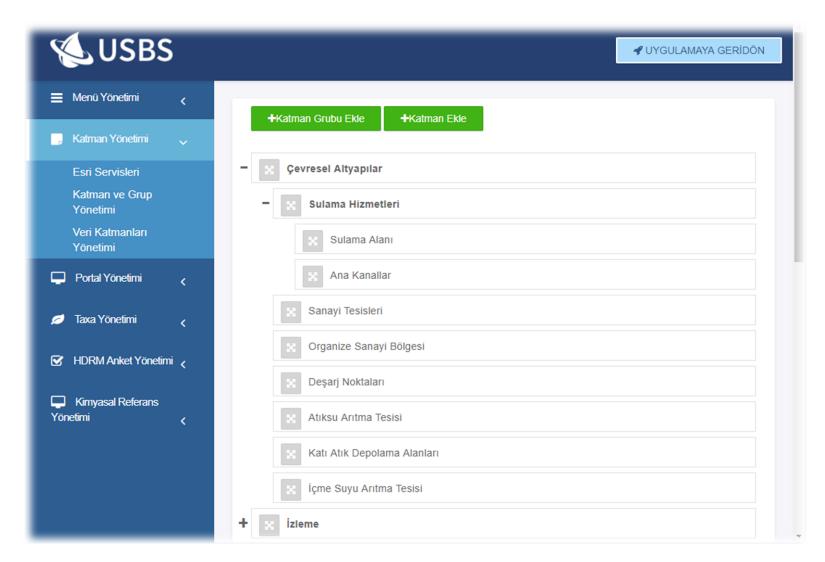


NWIS Web Interface





NWIS Management Panel





NWIS Data Visualization



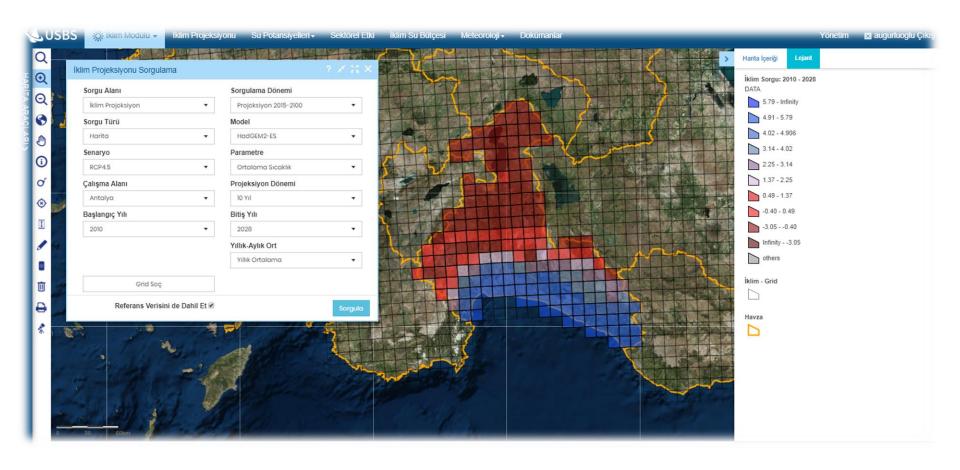


NWIS Data Update



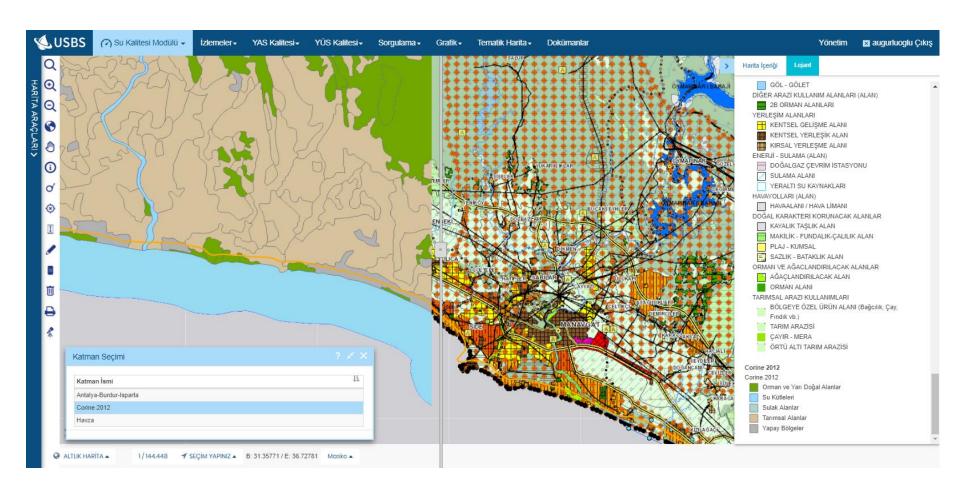


NWIS Data Analysis



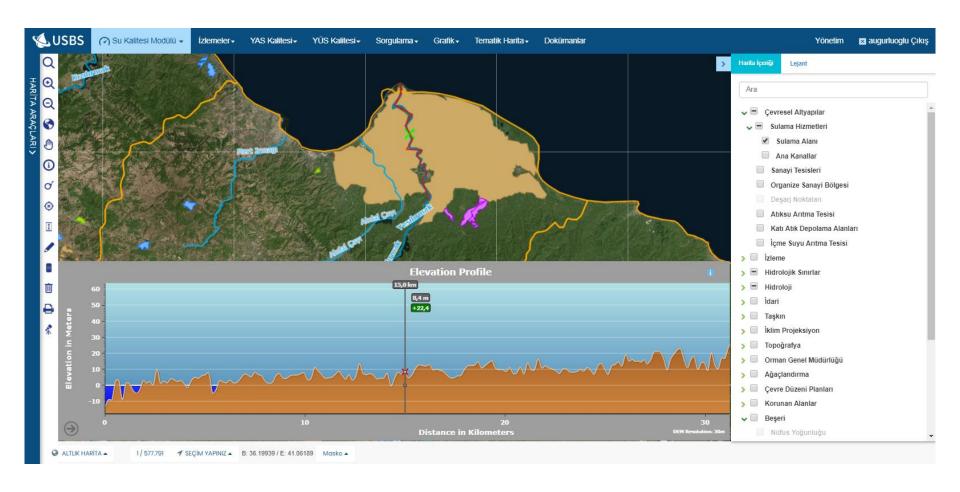


Integration



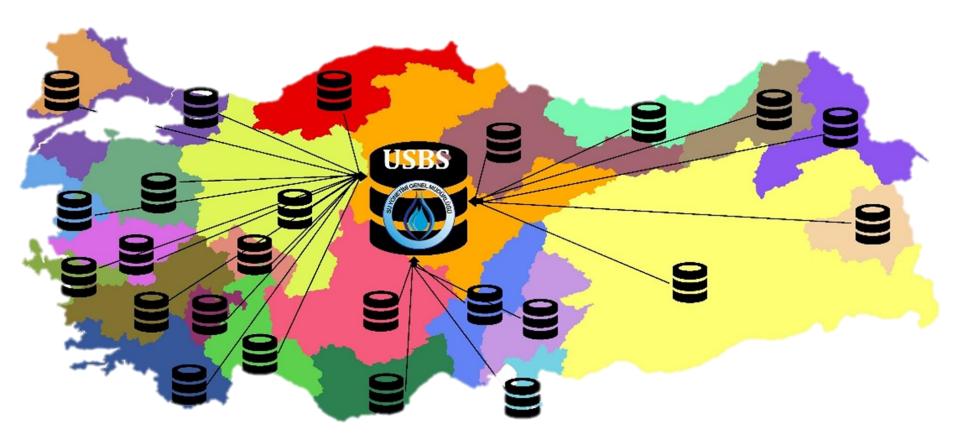


Spatial Analysis





NWIS















Mediterranean Water Knowledge Platform



General Directorate of Water Management

Water Information System Section

Water Affairs Expert

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With the support of the French Ministry for Environment, Foundation of Prince Albert 2 of Monaco, UfM Secretariat







Union pour la Méditerranée Union for the Mediterranean الإتحاد من أجل المتوسط