

5-7 of October 2022

Nicosia-Cyprus

# Building the Information System for Lake Sevan in Armenia

*Alexander Arakelyan / GIZ EU4Sevan Project*

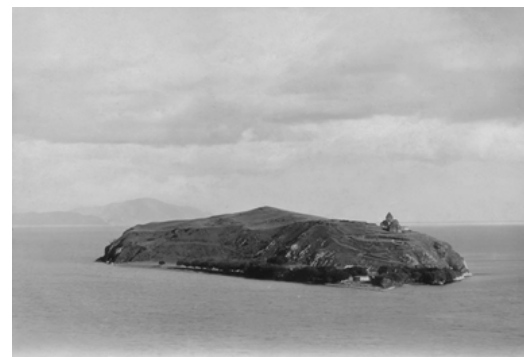
SUSTAINABLE MONITORING INFRASTRUCTURE AND CONTINUOUS  
INNOVATION IN IMPLEMENTING A SHARED ENVIRONMENTAL  
INFORMATION SYSTEM

5 October 2022



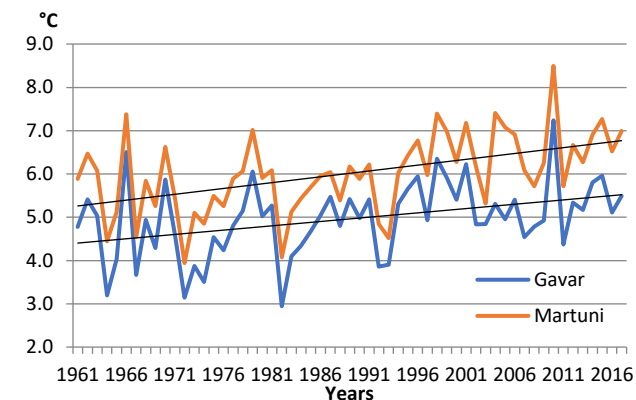
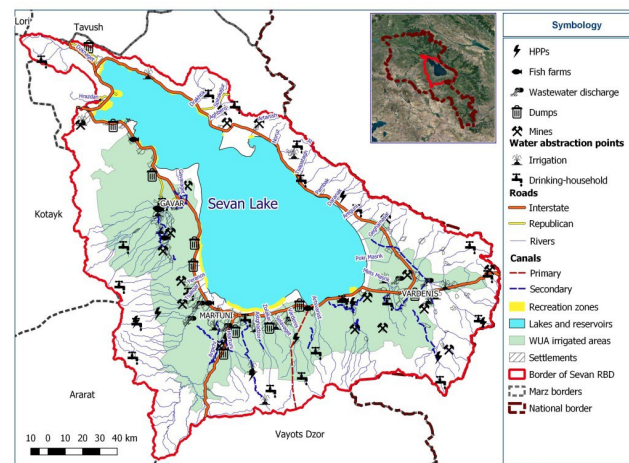
# Lake Sevan: Endangered Treasure of Armenia

- 1900 m above the sea level
- 1279 km<sup>2</sup> lake surface area
- 80 m maximum depth
- Water body with extremely high importance for Armenia (environmental, economic, recreational, cultural)
- Highly exposed to anthropogenic and climate change impacts



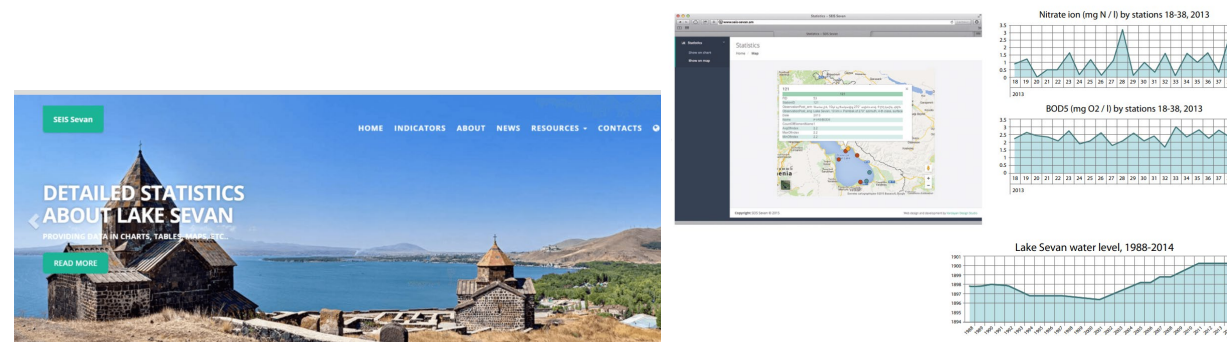
## Main issues in Lake Sevan basin:

- Pollution of water from municipal wastewater
- Water pollution by agriculture (fertilizers, manure).
- Lack of monitoring data on the quality and quantity of water
- Disturbance of aquatic life, excessive transfers of Lake Sevan's water for generation of hydropower and irrigation
- Uncontrolled illegal fishing



# SEIS-Sevan and Armenian EcoPortal

- As part of ENPI-SEIS, a pilot project was initiated in 2014 to develop a sustainable and regular data-sharing mechanism among the main data producers and data holders for the Lake Sevan basin in Armenia (SEIS-Sevan).
- Within the ENI-SEIS 2, the Armenian Ecoportal was developed in 2020 (<https://ecportal.am/> domain available since 2022).
- SEIS-Sevan was integrated to the Armenian EcoPortal as a section but currently is not operable.
- **One of the aims of EU4Sevan project is to enlarge the list of water indicators measured in Lake Sevan and develop an online platform for the environmental data sharing.**



UNEP ENVIRONMENTAL INDICATORS	INDICATORS DEVELOPED WITH EEA METHOD	REPORT ON THE STATE OF ENVIRONMENT	ENVIRONMENTAL ASSESSMENT REPORTS																								
<b>National Focal Points:</b> Gayane Shahnazaryan, Ministry of Environment Nelli Baghdasaryan, Statistical Committee of the Republic of Armenia <b>National SEIS Assistant:</b> Yurik Poghosyan		<p>Gayane Shahnazaryan (left), Yurik Poghosyan and Nelli Baghdasaryan</p>	<table border="1"> <thead> <tr> <th>UNECE Environmental Indicator</th> <th>Armenia</th> </tr> </thead> <tbody> <tr><td>A. Air pollution and ozone depletion</td><td></td></tr> <tr><td>B. Climate change</td><td></td></tr> <tr><td>C. Water</td><td></td></tr> <tr><td>D. Biodiversity</td><td></td></tr> <tr><td>E. Land and soil</td><td></td></tr> <tr><td>F. Agriculture</td><td></td></tr> <tr><td>G. Energy</td><td></td></tr> <tr><td>H. Transport</td><td></td></tr> <tr><td>I. Waste</td><td></td></tr> <tr><td>J. Environmental financing</td><td></td></tr> <tr><td>Total</td><td></td></tr> </tbody> </table>	UNECE Environmental Indicator	Armenia	A. Air pollution and ozone depletion		B. Climate change		C. Water		D. Biodiversity		E. Land and soil		F. Agriculture		G. Energy		H. Transport		I. Waste		J. Environmental financing		Total	
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# EU4Sevan Project

Funded by EU and Federal Ministry for Economic Cooperation and Development (BMZ)

Implemented by GIZ and UNDP in Armenia

## EU4Sevan Outputs

Output 1: The water monitoring and management capacities for the Lake Sevan watershed are (further) improved

Output 2: The capacities for implementing ecosystem-friendly and water-protecting land-use and cultivation practices are improved

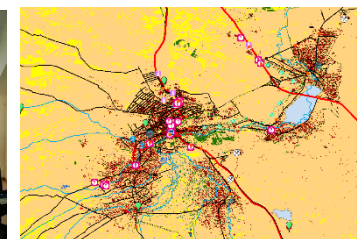
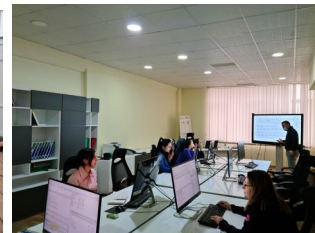
Output 3: The capacities for implementing wastewater treatment, including nature-based solutions, are improved

Output 4: Awareness and information available for the protection of Lake Sevan are enhanced among basin communities, the private sector, and other stakeholders

Output 5: The Lake Sevan ecosystem governance is further improved

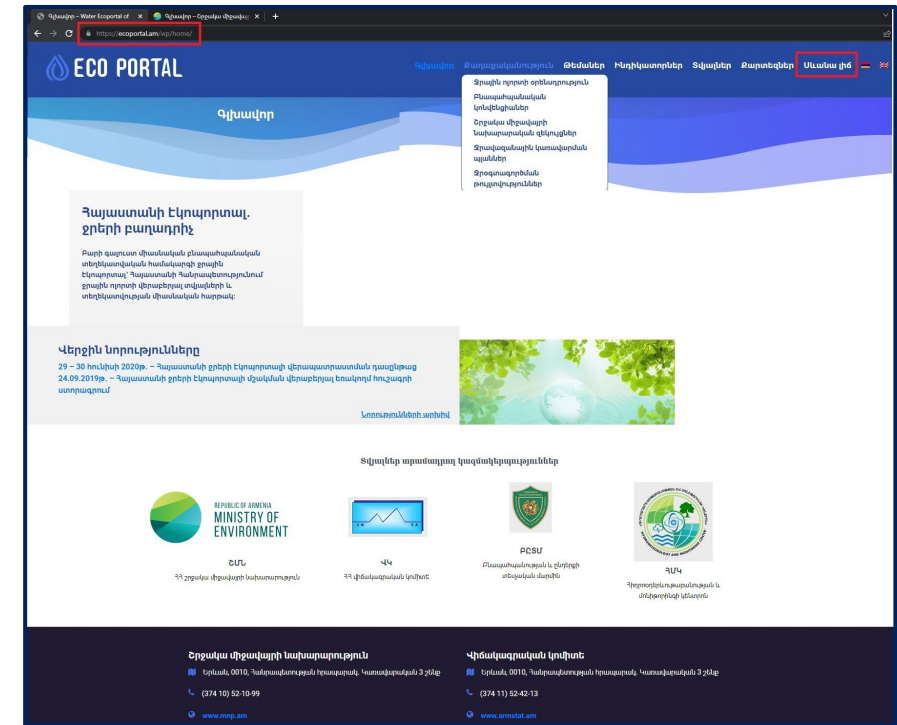
## EU4Sevan: Activities on Improving the Data Management

- Review and analysis of the current issues (institutional and technical) in Lake Sevan's environmental data management and exchange between data-producing organizations and stakeholders
- Lake Sevan Hackathon
- Training on statistical analysis and data visualization for HMC
- Land Cover (CORINE) and Anthropogenic Pressure Mapping
- **Development of a comprehensive concept for Lake Sevan section of Armenian EcoPortal**
- Development of Lake Sevan section of Armenian EcoPortal



# Next Steps towards SEIS Development in Armenia

- Development of “Lake Sevan” section of Armenian EcoPortal based on the SEIS principles and stakeholder needs (is being done within the EU4Sevan project)
- Approving the Armenian EcoPortal by Government decree as an official environmental information hub
- Enhancing the functionality and regular update of all pages of Armenian EcoPortal





THANK YOU!



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Գերմանական  
Խառնուրդի իրականացման կազմակերպություն  
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