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National Impact and achievements of the ENI SEIS II East project Armenia



European Environment Agency



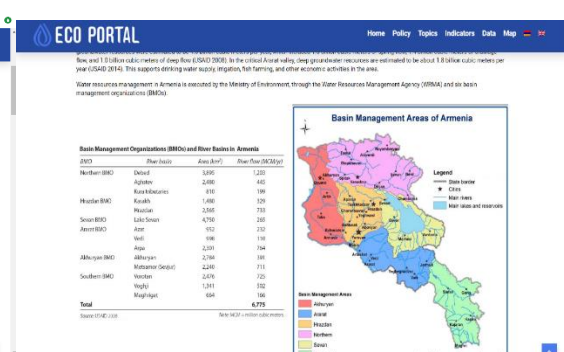
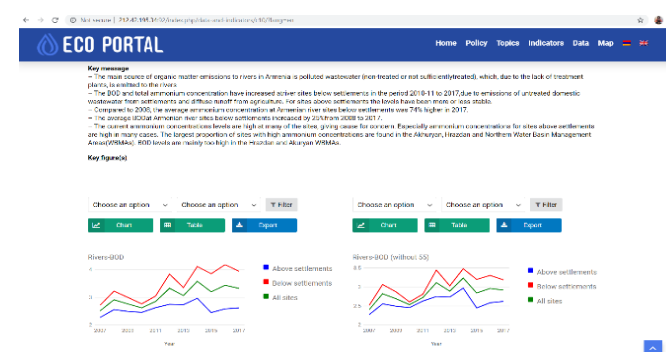
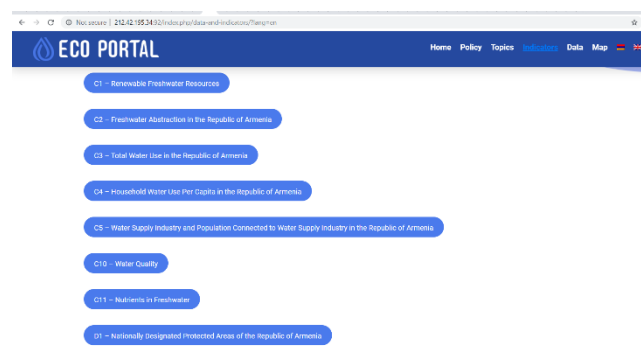
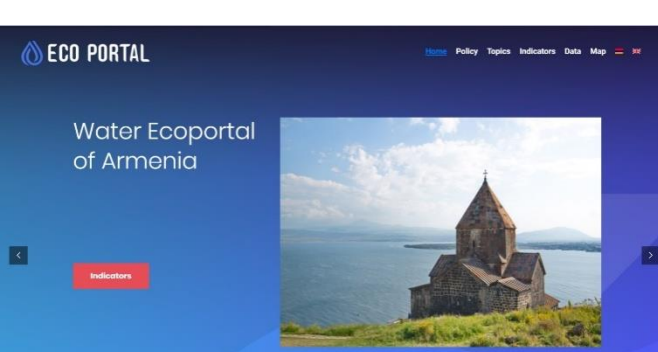
ENI SEIS II Project-main results

- I. Improved implementation of regional/international commitments related to environmental reporting in line with EU/EEA best practices;
- II. Improved capacities in the national administrations to manage and use environmental statistics, data and information in support to decision-making in line with EU/EEA best practices;
- III. Preparation of regular State and Outlook on the Environment reports (SOER) and indicator-based assessments in line with EU/EEA best practices.



Water-main achievements

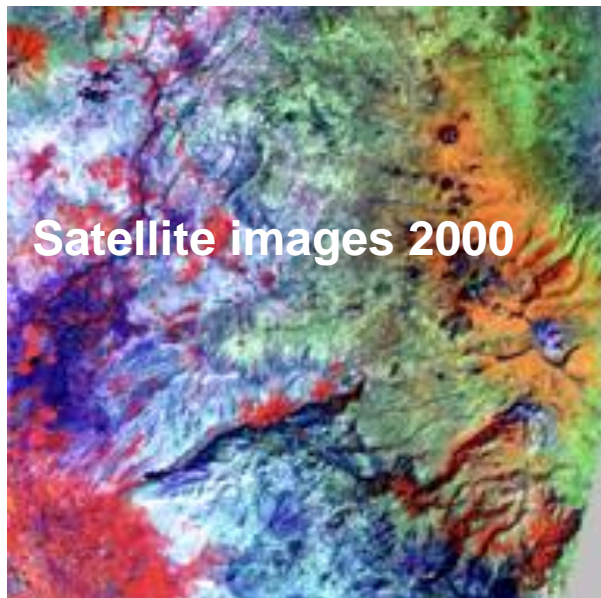
- ❑ Developed and launched Ecoportal-Water portal for Armenia (host institution is Hydrometeorology and Monitoring Center SNCO)
- ❑ Produced regionally comparable water indicators (water quantity C1-C6 and water Quality C10-C11) in accordance with EEA and UNECE
- ❑ Improved quality of environmental information in line with SEIS principles (indicators, methodologies, monitoring infrastructure and technical capacity, monitoring parameters (Hydrobiological Monitoring at state level has been started since 2020) databases in synergy with other projects: EUWI+, UNDP, USAID)
- ❑ Improved national capacity related to the provision of water data and information in line with national and EU environmental legislation and practices.



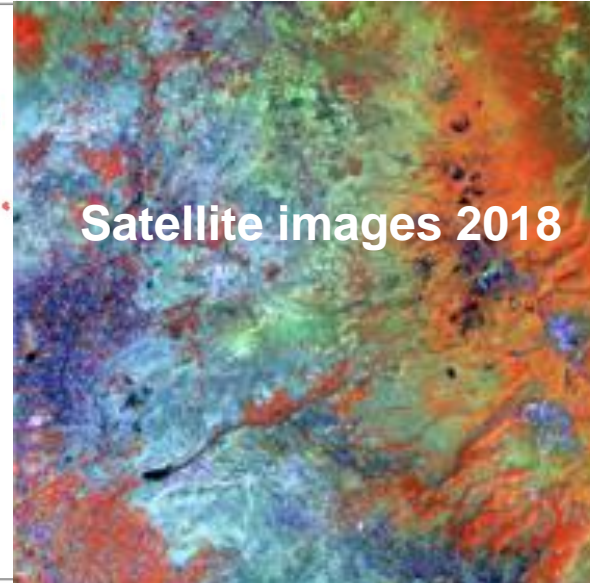
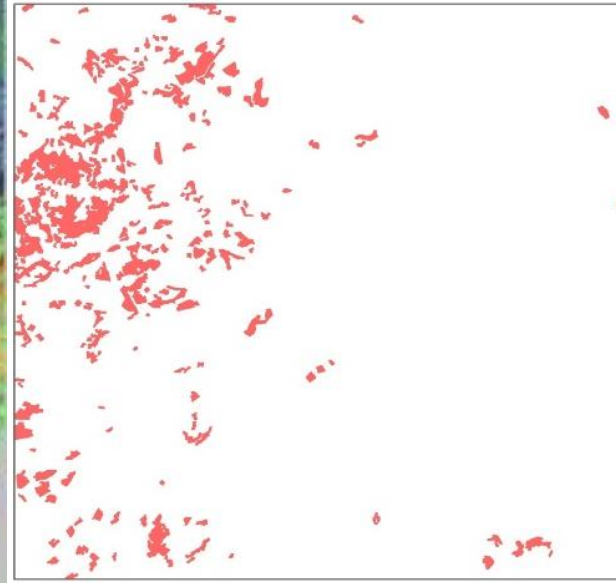
Land-Corine Land Cover-main achievements

- ❑ Methodologies are harmonized in line with EU/EEA - CORINE Land Cover;
- ❑ Inter-institutional working group established at national level
- ❑ Pilot Project implemented-Yerevan Urban area and its surroundings
- ❑ Improved capacity building and transfer of experience in application of relevant practices, tool and systems used in EU/EEA context

CLC-changes₂₀₀₀₋₂₀₁₈



Satellite images 2000



Satellite images 2018

Change (2000-2018)	Process	%
242-231	Complex cultivation patterns turned into pastures (associated to abandonment of agriculture)	12.47
211-222	Non-irrigated arable land turned into fruit trees and berry plantations (increase of fruit tree and berry plantations)	10.55
211-231	Non-irrigated arable land turned into pastures (associated to abandonment of agriculture)	10.48
212-242	Permanently irrigated land turned into complex cultivation patterns (partial abandonment of irrigation)	5.54
211-242	Fruit and berry plantations turned into complex cultivation patterns (change in agriculture practice)	5.54
242-112	Complex cultivation patterns turned into discontinuous urban fabric (urban sprawl, loss of agriculture land)	4.51
221-242	Vineyards turned into complex cultivation patterns (decrease of vineyards)	3.74
242-222	Complex cultivation patterns turned into fruit trees and berry plantations (increase of fruit tree and berry plantations)	3.74

Biodiversity-main achievements

Harmonized methodologies and produced regionally comparable biodiversity indicators in accordance with EEA and UNECE on Protected Areas (D1)

<https://eni-seis.eionet.europa.eu/east/indicators/d1-nationally-designated-protected-areas-of-the-republic-of-armenia>

Biodiversity Indicators (D1, D3 and D4) are published on ArmstatBank

Improved national capacity for reporting to the international obligations (reporting under Resolution No. 8 (2012) of the Bern Convention)

Improved the coverage of Emerald Network sites as response to the Aichi Strategic Goal C Target 11 and SDG Goal 15

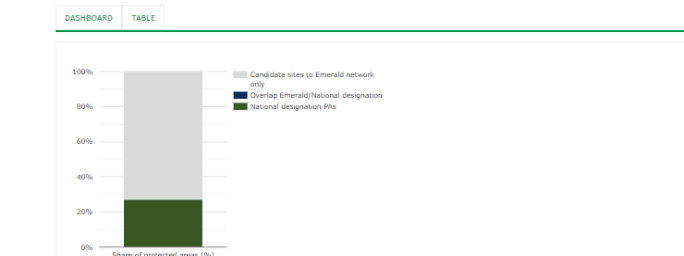
Improved the capacity in reporting the data on species and habitats.

The screenshot shows the ENI SEIS II East website interface. At the top, it identifies the project as funded by the European Union and the European Environment Agency. The main heading is "ENI SEIS II East" with the subtitle "Implementation of the Shared Environmental Information System (SEIS) principles and practices in the ENP East region". Navigation links include Home, About, Areas of work, Countries, and Contact. The current page is titled "D1 - Nationally designated protected areas of the Republic of Armenia". A "Key messages" section states that nationally designated protected areas currently cover 12.9% of the terrestrial territory and inland waters of Armenia, and that substantial progress has been made in designating sites, with 34.8% of the country territory now covered by candidate Emerald sites.

What progress has been made with regard to the national designation of protected areas as a tool for biodiversity conservation?



Figure 5 - The spatial complementarity between European designation (Emerald Network- candidate site) and national designations by share of terrestrial area (2018)



The screenshot shows the ArmstatBank interface for the D1 indicator. It includes a navigation bar with "Choose table" and "Choose variable" buttons. Below, there are filters for "categories" and "years". The main table displays data for "Total areas under protection, thsd. ha" for the years 1999, 2000, 2001, 2002, and 2003. The values are: 1999 (1000), 2000 (1000), 2001 (1000), 2002 (1000), and 2003 (1000). The interface also includes a search bar and a "Regenerating of row" checkbox.

The screenshot shows the ECO PORTAL interface for the D1 indicator. It includes a navigation bar with "Home" and "Profile and Implementations" buttons. Below, there is a table titled "Nationally designated protected areas of the Republic of Armenia by category". The table shows the number of protected areas for different categories: National parks, State reserves, and Other protected areas. The values are: National parks (1000), State reserves (1000), and Other protected areas (1000). The interface also includes a search bar and a "Regenerating of row" checkbox.

Regular assessment process-main achievements

- ❑ Produced regionally comparable, regularly updated, available and accessible 43 environmental indicators in accordance with EEA and UNECE
- ❑ Dedicated section on SDGs indicators is established on the website of the Statistical Committee.
- ❑ Developing and publishing first Satellite Water Account System
- ❑ Strengthened capacities of national environmental authorities and statistical agencies to collect and produce required data and application of environmental indicators in line with SEIS principles and practices (with Slovak experts the content)
- ❑ Developed SOER country briefing,
- ❑ Developed Leaflet on waste management for Armenia with support of Slovak Environment Agency as an pilot chapter of SOER for Armenia.
- ❑ Developed Open Data Maturity Report and road map.

	Armenia
A. Air pollution and ozone depletion	
A1. Emissions of pollutants into the atmospheric air	x
A2. Ambient air quality in urban areas	x
A3. Consumption of ozone-depleting substances	x
B. Climate change	
B1. Air temperature	x
B2. Atmospheric precipitation	x
B3. Greenhouse gas emissions	x
C. Water	
C1. Renewable freshwater resources	x
C2. Freshwater abstraction	x
C3. Total water use	x
C4. Household water use per capita	x
C5. Water supply industry and population connected to water supply industry	x
C6. Connection of population to public water supply	x
C7. Water losses	x
C8. Reuse and recycling of freshwater	x
C9. Drinking water quality	x
C10. BOD and concentration of ammonium in rivers	x
C11. Nutrients in freshwater	x
C12. Nutrients in coastal seawaters	x
C13. Concentrations of pollutants in coastal seawater and sediments (except nutrients)	x
C14. Population connected to wastewater treatment	x
C15. Wastewater treatment facilities	x
C16. Polluted (non-treated) wastewaters	x
D. Biodiversity	
D1. Protected areas	x
D2. Biosphere reserves and wetlands of international importance/place holder	x
D3. Forests and other wooded land	x
D4. Threatened and protected species	x
D5. Trends in the number and distribution of selected species	x
D6. Invasive alien species/place holder	x
E. Land and soil	
E1. Land uptake	x
E2. Area affected by soil erosion	x
F. Agriculture	
F1. Irrigation/place holder	x
F2. Fertilizer consumption	x
F3. Gross nitrogen balance	x
F4. Pesticide consumption	x
G. Energy	
G1. Final energy consumption	x
G2. Total primary energy supply	x
G3. Energy intensity	x
G4. Renewable energy consumption	x
G5. Final electricity consumption/place holder	x
G6. Gross electricity production/place holder	x
H. Transport	
H1. Passenger transport demand	x
H2. Freight transport demand	x
H3. Composition of road motor vehicle fleet by fuel type	x
H4. Age of road motor vehicle fleet	x
I. Waste	
I1. Waste generation	x
I2. Management of hazardous waste	x
I3. Waste reuse and recycle	x
I4. Final waste disposal	x
J. Environmental financing	
J1. Environment protection expenditure	x
Total	43

The screenshot shows the website of the Statistical Committee of the Republic of Armenia. The page title is "Statistical Committee of the Republic of Armenia". The breadcrumb trail is: "ArmStatBank >> 8. Environment >> 8.1 Environment >> (C) Water resources >> (C2) Freshwater abstraction (surface and groundwater) by indicators and years".

The interface includes a navigation menu with three steps: "1. Choose table", "2. Choose variable", and "3. Show table". The current step is "2. Choose variable".

The main content area is titled "(C2) Freshwater abstraction (surface and groundwater) by indicators and years". It features a "Select variable" button and an "About table" link. Below this, there is a note: "Mark your selections and choose between table on screen and file format. Marking tips: For variables marked * you need to select at least one value".

There are two selection boxes: "Indicators*" and "years*". The "Indicators*" box contains a list of variables:

- 1. Freshwater abstraction, min. cubic metres
- 2. Fresh surface water abstracted, min. cubic metres
- 3. Fresh groundwater abstracted, min. cubic metres
- 4. Renewable freshwater resources, min. cubic metres
- 5. Water exploitation index (WEI), %
- 6. Water exploitation index (WEI) from surface water resources (LTAAL), %

 The "years*" box contains a list of years:

- 1. 1990
- 2. 1993
- 3. 1994
- 4. 1995
- 5. 1996
- 6. 1997

Visibility and Communication

☐ Developed and implemented regional and national communication and visibility plan for the entire project period

☐ Information about the project, ongoing activities, some achievements and the project outputs are disseminated through:

- Conferences and events,
- Regularly National Implementation Team Meetings,
- Trainings and workshops,
- Webpages:

- Website of SEIS project-Armenia page

- Website MoE - ENI SEIS II page <http://www.mnp.am/en/pages/261>

☐ Increased awareness of the project among the national stakeholders, among government and non-government organizations

The screenshot displays the official website of the Ministry of Environment of the Republic of Armenia, dedicated to the ENI SEIS II East project. The page features a top navigation bar with links for Home, Ministry, Legislation, Environment, and E-Management. A search bar is located in the top right corner. The main content area is titled 'ENI SEIS II East Project' and includes a brief description of the project's goals and implementation. Below this, there are several icons representing different project components: SEIS (Principles and activity of SEIS, Project coordinators), Projects, Working meetings, Reports and Presentations, Information Methodology Databases, and Suggestions Comments EAO. An 'ANNOUNCEMENTS' sidebar on the right provides updates on public reviews and other relevant events. At the bottom, there is a section for 'ENI SEIS II East' with a navigation menu (Home, About, Areas of work, Countries, Contact) and a breadcrumb trail: 'YOU ARE HERE: HOME > COUNTRIES > ARMENIA'. Below this, the 'ARMENIA' section is highlighted, leading to a 'UNECE ENVIRONMENTAL INDICATORS' report. This report includes 'National Focal Points' (Gayane Shahnazaryan, Ministry of Environment; Nelli Baghdasaryan, Statistical Committee of the Republic of Armenia) and a 'National SEIS Assistant' (Yurik Poghosyan). A table shows the UNECE Environmental Indicators for Armenia, with a progress bar at the bottom indicating the status of each indicator (0/No data, 25%, 50%, 75%, 100%).

Remaining challenges

- Open access and sharing of common national datasets,
- Expand the components (air, biodiversity, land, and ets) of Ecoportal,
- CLC land cover/land use mapping covering whole country,
- Regular production of SOER,
- Facilitate a gradual progress in comparable data delivery, improve quality of the indicators and make it operational,
- Capacity building in improvement of national environmental information system(s) and supporting infrastructure, open data, e-waste, and ets.
Continuity and availability of human and financial resources.



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