

www.envsec.org

Environnement and Security Initiative South Caucasus



18 June 2014
Yerevan, Armenia



ENVSEC Partners

A unique combination of skills,
experiences and networks

- OSCE
- UNEP
- UNDP
- UNECE
- REC for Central and Eastern Europe
- Associated partner: NATO



Environment and Security dimensions

Threat

environmental risks & problems
can **threaten** security

Damage

environment is
often forgotten
where 'hard security' matters

Opportunity

environmental **cooperation** and management can
help improve security

Geographical focus

Common issues in diverse regions



* UN administered territory under UNSC 1244
** The Former Yugoslav Republic of Macedonia

THE DESIGNATIONS EMPLOYED ON THIS MAP DO NOT IMPLY THE EXPRESSION OF ANY OPINION ON THE PART OF THE ORGANIZATIONS CONCERNING THE LEGAL STATUS OF ANY COUNTRY, TERRITORY, CITY OR AREA OF ITS AUTHORITY OR DELINEATION OF ITS FRONTIERS AND BOUNDARIES.

0 250 500 750 1000 km
Map produced by ZOI Environment Network, May 2011



ENVSEC Focus areas

Spotting shared benefits and solutions

- 1. Transboundary natural resources**
- 2. Hazardous substances and practices**
- 3. Population pressure and climate change**
- 4. Information and participation**

ENVSEC

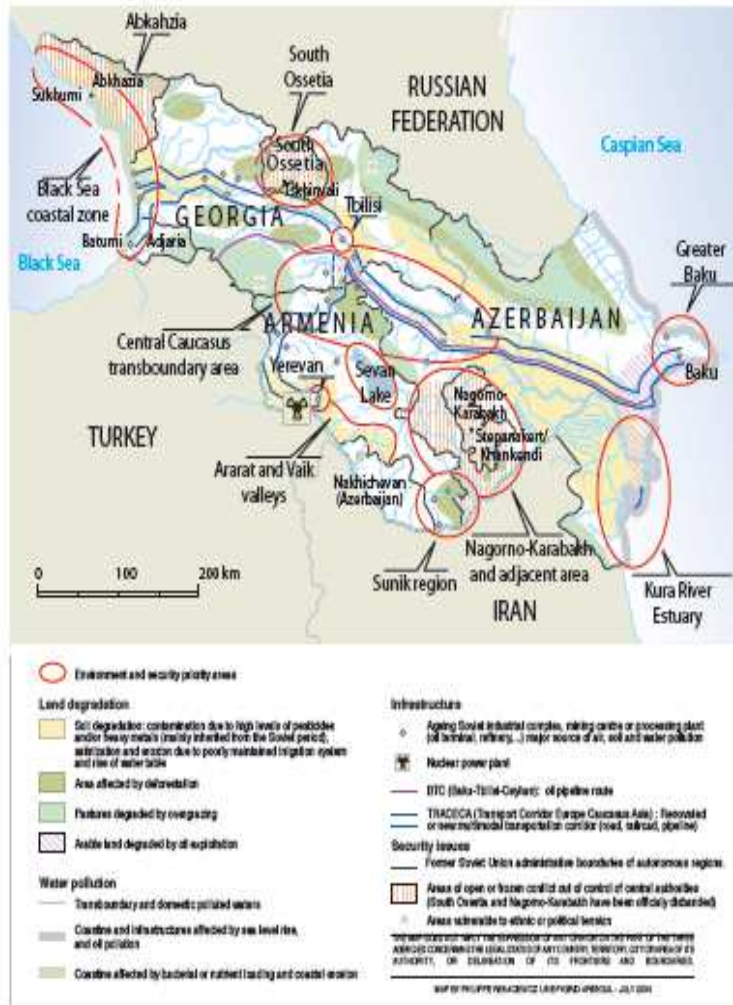
Strengths and opportunities

- **Coordinated regional approach**
- **Diverse projects with several environment and security benefits**
- **National ownership**
- **Equipped with a multi-donor trust fund**

South Caucasus

ENVSEC

South Caucasus Regional Assessment



- Environmental degradation and access to natural resources in areas of conflict
- Management of transboundary natural resources and industrial legacies
- Population growth and rapid development in capital cities
- Public awareness and participation

ENVSEC

South Caucasus

An overview of selected projects implemented by the OSCE in Armenia

ENVSEC

South Caucasus

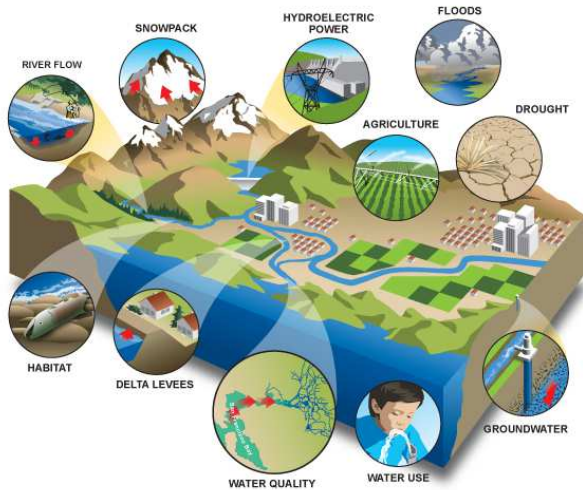
- **Enhancing national capacity on fire management and wildfire disaster risk reduction in the South Caucasus**
- **Supporting the Armenian Government in the elimination of the hazardous chemicals at the Nubarashen storage site**
- **Strengthening capacity in environmental assessment and risk reduction at mining sites in Armenia**
- **Strengthening civil society for improving the linkages between environment and security – Civic Action for Security and Environment (CASE)**
- **South Caucasus regional cooperation for the implementation of the Aarhus Convention**



ENVSEC

South Caucasus

- **Fostering Dialogue between Riparian States for Development and Establishment of Initial Legal and Institutional Frameworks for Increased Cooperation and Joint Management of the Kura-Aras River Basin (Armenia- Georgia)**
- **Regional Climate Change Impacts Study for the South Caucasus Region**
- **Regional Cities: Environmental Assessment and Capacity Building (Yerevan, Hrazdan, Alaverdi)**
- **Regional Co-operation for Implementation of the Aarhus Convention**



ENVSEC

South Caucasus

The following projects were implemented in cooperation with NATO:

- **Inventory, Monitoring and analysis of Obsolete Pesticides in Armenia for Environmentally Sound Disposal**
- **Water Resources Management of Agro-Ecosystems in the South Caucasus Trans-boundary Regions**
- **South Caucasus River monitoring**



ENVSEC

South Caucasus

Details on project outcomes: Enhancing national capacity on fire management and wildfire disaster risk reduction in the South Caucasus

- Two trainings were organized
- Three National roundtables on wildfire management were held
- The EuroFire Standards were translated and provided to the Armenian Ministry of Emergency Situations
- The legal report on the existing legislative, regulatory and institutional framework for wildfires risk management in Armenia was developed
- The new National Policy and Implementation Strategy of the Forest and other Vegetation Fire Management in Armenia was developed and submitted to the Armenian Government for approval

ENVSEC

South Caucasus

Details on project outcomes: Enhancing national capacity on fire management and wildfire disaster risk reduction in the South Caucasus (cont'd)

- Fire Danger Rating (FDR) involves accounting for the effects of fuel, weather and topography on fire occurrence and activity.
- The first stage in development of a fire danger rating system is to build the weather component, which best represents landscape-level fire danger that can be used for making national or sub-national scale fire management decision. Fuels and topography components of a Fire Danger Rating system represent fire behavior at the forest stand-level, and can be developed at a later stage for more detailed decision-making at sub-national and local levels.
- FDR uses the daily weather for 12:00 Local Standard Time (LST) to predict fire weather conditions that will occur at the most severe time period - 15:00-18:00 LST. In this way, the FDR provides about 3-6 hours of advance warning to fire management agencies. In a similar way, forecasted weather is used to provide 1 to 14 days of early warning about the future fire weather conditions

ENVSEC

South Caucasus

Details on project outcomes: Enhancing national capacity on fire management and wildfire disaster risk reduction in the South Caucasus (cont'd)

- Following actual and forecasted weather data is required for the FDR system: **Daily Noon Local Standard Time (LST) values for:** Temperature, Relative Humidity, Wind Speed, Wind Direction
- Actual weather data should be measured at 12:00 LST
- **24-hour (previous noon LST to current noon LST) values for precipitation:** Precipitation- rain and snow
- If precipitation is not accumulated in 24-hour format, hourly/3-hour/6-hour/12-hour measurements would be needed to calculate 24-hour accumulations.
- **Forecasts:** 1-2 week future forecast data with the same variables as actual weather data(listed above). Forecasted weather data should be predicted for 12:00 LST of any day that it is forecasted for. The system will benefit significantly if data is provided from as many available weather stations as possible.

Thank you!

For more information please visit:

www.envsec.org

