



Reducing  
Transboundary  
Degradation  
in the  
**Kura Aras River Basin**

# UNDP/GEF

## Программа Сокращения Трансграничной Деградаци Речного Бассейна Кура-Аракс



Национальный Координатор в Грузии: Тамара Гугушвили  
Национальный Координатор в Армении: Тигран Калантарян



# Основные Характеристики Программы

- Региональная Программа
- Включает страны: Армения, Грузия, Азербайджан
- Головной офис в Тбилиси и есть офисы в Баку и в Ереване
- Финансирует программу UNDP/GEF
- Период реализации: Июнь 2011 – Март 2014
- Координатор Программы и Главный Технический Консультант – Мери Метьюз

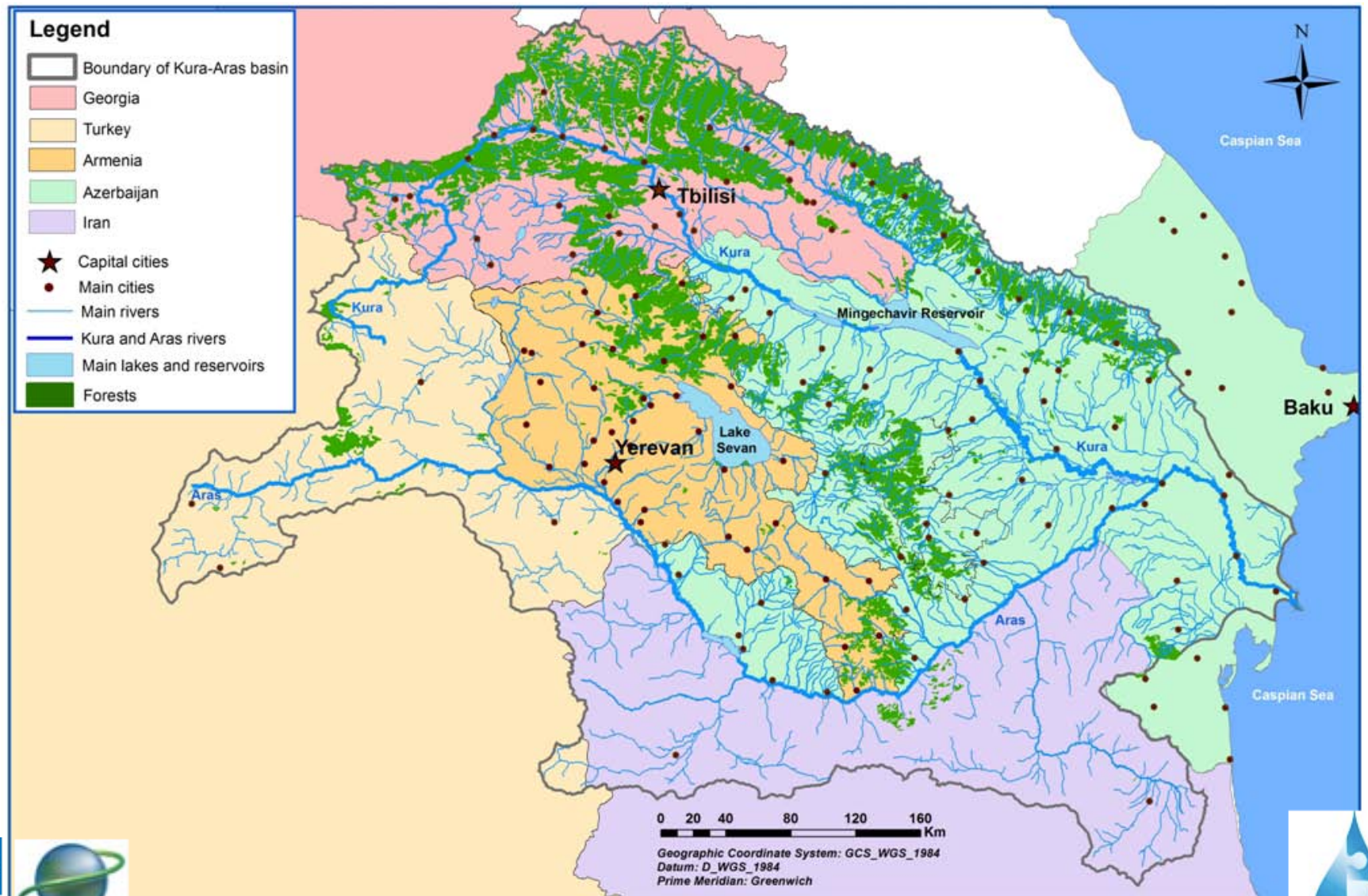


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# Кура-Аракс Речной Бассейн



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# Основные Компоненты Программы

- Завершение трансграничного диагностического анализа
- Подготовка национальных планов ИУВР и Стратегического плана действий (СПД)
- Мероприятия по вовлечению заинтересованных сторон по всему бассейну
- Демонстрационные проекты по конфликтному водопользованию

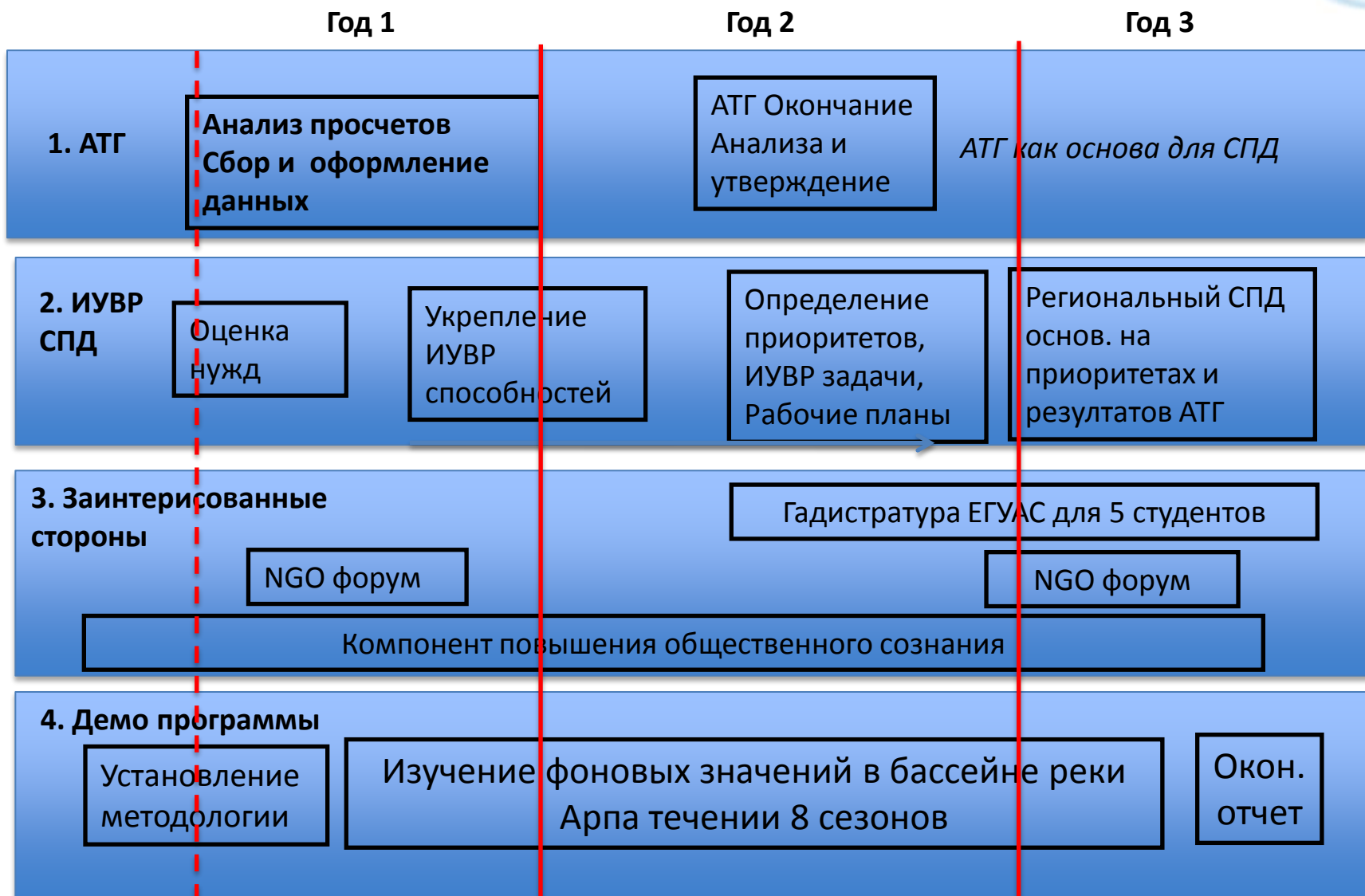


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# Компоненты Программы и Прогресс



# ИУВР Академия



## 3-х раундовые курсы по:

- Введение в ИУВР и основные принципы управления
- Управление качеством воды в ИУВР
- Управление данными в ИУВР
- Гендер, здравоохранение и общественное сознание в ИУВР
- Эконика и финансы в ИУВР
- Институты, законы, политика и соблюдение правопорвдка в ИУВР



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# Подготовка Мастер Курсов ИУВР

- Министерство Охраны Природы
- Ереванский Государственный Университет Архитектуры и Строительства
- Партнер: Институ Водных Проблем им Егиазарова



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# Особенности Проекта в Армении

- В Армении принципы управления ИУВР были внедрены и стали еще с 2005 года
- Поэтому недавно было решено вместо общенационального плана ИУВР подготовить План Управления Водным Бассейном реки Арпа



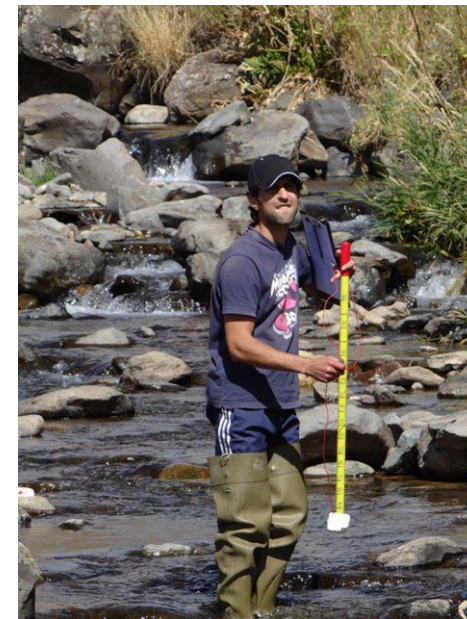
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# Демонстрационная программа в бассейне реки Арпа



# Activities in Georgia

- TDA being updated
  - Baseline information collected
  - Major gaps, data needs and sources identified
  - Specific chapters reviewed by the national experts
  - Thematic studies



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# Activities in Georgia

- Demo project

N	Period	Survey Focus	Features
<b>2012</b>			
1	September	Bio-monitoring & Biodiversity REA	Summer – peak vegetation
2	November	Bio-monitoring & Biodiversity REA	Autumn
<b>2013</b>			
3	February	Bio-monitoring & Biodiversity REA	Late Winter
4	May	Bio-monitoring & Biodiversity REA	Spring flooding season
5	August	Bio-monitoring & Biodiversity REA	Summer – peak vegetation



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# Activities in Georgia

- National IWRM Plan in progress
  - Baseline information
  - Stakeholder meetings



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# Activities in Georgia

- NGO forum
  1. Biodiversity in water management, 26 March 2012 in Tbilisi
  2. Gender & public health in water management, 2013



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# Activities in Georgia

- IWRM Academy
  - Three rounds: April, May, October 2012
  - Certificates issued for 22 participants in total
- MSc in IWRM
  - Meetings with Universities
  - MSc curriculum
  - MSc needs assessment study



# Human Health and Environment

*TDA baseline information*

## Human health indicators

Indicator	Armenia	Azerbaijan	Georgia	EU/World
Infant mortality rate at birth per 1,000 live births	11.6	11.0	12.1	4.3/44.0
Life expectancy at birth	74.2	73.8	74.5	79.4/70.0
Prevalence of undernourishment %	21	5	6	



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# Gender and Environment

*TDA baseline information*

## Gender balance indicators

Indicator	Armenia	Azerbaijan	Georgia	EU
Female Population, %	51.4	49.6	52.3	51.2
Women in labor force, %	48.9	48.6	46.7	
Female of total unemployed, %	70.1	58.3	49.8	9.6
Females with tertiary education, %	52.9	38.7		57.6
Female legislators, senior officials and managers, %				
Female economic activity, %		71.7	55.8	
Fertility rate per woman	1.4	2.3	1.5	
The mean age of women giving birth to their first child	22.9	23.8	24	29.8



# Socio Economic Impacts

## 1 Reduction in hydrological flow

- reduced access to water in sufficient quantity and quality for drinking and other domestic purposes
- Poor state of sanitation systems, with increased cases of infectious, water-borne diseases
- Reduced productivity of agricultural land in some areas due to lack of irrigation water



# Socio Economic Impacts

## 2 Deterioration of water quality

- Contamination of drinking water (surface water and groundwater) and consequently, the threat to public health
- Reduced soil fertility and quality of agricultural products, resulting from the use of contaminated water for irrigation



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# Socio Economic Impacts

## 3 Ecosystem degradation

- Use of bio-resources
- Decreasing living standards
- Risk of damage to human life due to flooding



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# Socio Economic Impacts

## 4 Flooding

- Loss of life and property, destruction of crops, permanent damage to land, loss of livestock, destruction of infrastructure, disruption to water etc.
- Deterioration of health due to the spreading of waterborne diseases caused by the floods directly and through loss of water supply systems; disruption of access to medical car~



# Human Health and Environment

*TDA, social development trends*

- Increased life expectancy at birth between the 1990-ies and today: Armenia - 1.2 years; Azerbaijan - 2.6 years; Georgia - 2.3 years.
- Declined infant mortality rates from 1994 to 2009



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# Gender and Environment

*TDA, social development trends*

- Consistently high **female literacy rates**
- Women represent more than half of the labor force in Armenia and Georgia, and just below half in Azerbaijan
- **The mean age of women at the birth of first child** – 22 in Armenia pre-2000, 25.7 in the basin in Azerbaijan pre-2007, 23.3 in Armenia today and 24.2 in the basin in Azerbaijan today.
- Pre-2000 ratio of **females enrolling in tertiary education** women was slightly lower than men but, today more women are being enrolled in tertiary education than men.



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# Спасибо за внимание!

*Вопросы и комментарии...*



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