



# SOUTHEASTERN ANATOLIA PROJECT (GAP) SUSTAINABLE HUMAN DEVELOPMENT



PRIME MINISTRY OF TURKEY

GAP REGIONAL DEVELOPMENT ADMINISTRATION



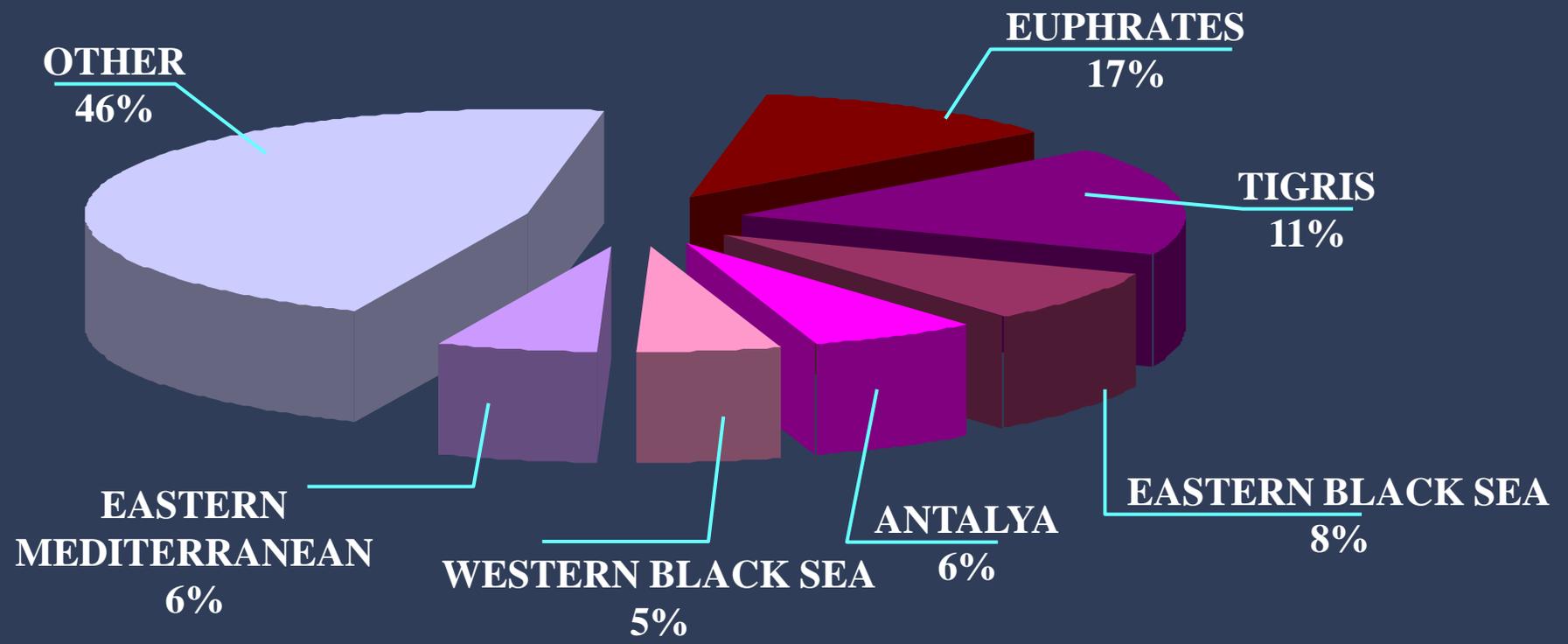


# COMPARISON OF GAP REGION AND TURKEY

	<b>TURKEY</b>	<b>GAP</b>	<b>GAP/TR</b>
<b>TOTAL AREA (km<sup>2</sup>)</b>	<b>780.000</b>	<b>75.000</b>	<b>9.7 %</b>
<b>POPULATION(2000)(million)</b>	<b>67.8</b>	<b>6.6</b>	<b>9.7%</b>
<b>POPULATION GROWTH RATE PER ANNUM</b>	<b>1.8</b>	<b>2.5</b>	



# TURKEY'S WATER POTENTIAL BY BASIN



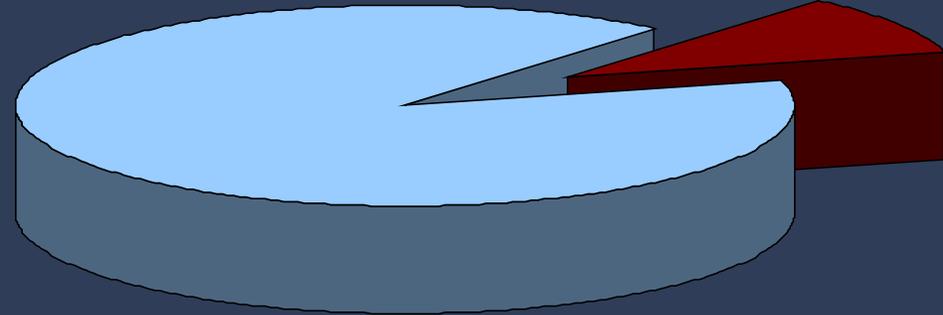
Average annual flow, billion m<sup>3</sup>

Other	86.2	Eastern Black Sea	14.9
Euphrates	31.6	Antalya	11.1
Tigris	21.3	East Mediterranean	11.1
		Western Black Sea	9.9



# LAND POTENTIAL

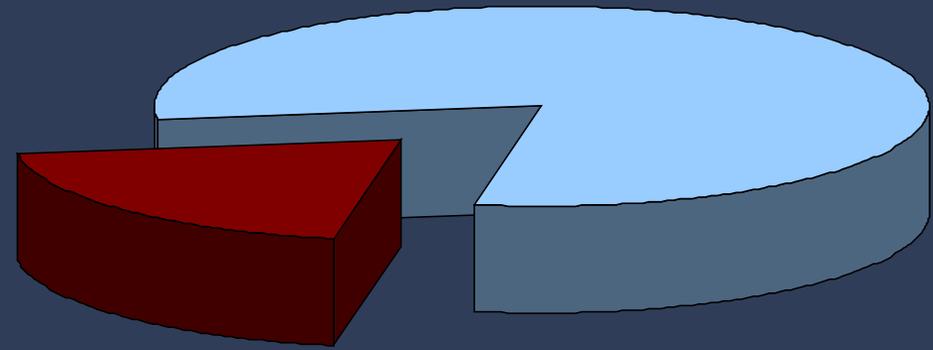
**OTHER**  
90,3 %



**GAP REGION**  
9,7 %

## TOTAL AREA

**GAP REGION**  
20%



**OTHER**  
80%

## ECONOMICALLY IRRIGABLE LAND



## REGION'S CONTRIBUTION TO TURKEY

	1985 *	2000**
Agriculture	9 %	11%
Manufacturing	2 %	3,5%
Services	5 %	4,6%
Gross National Product	4 %	5,1%

\* GAP Master Plan

\*\*2000 year values calculated from DIE provisonal data.



# **SOUTHEASTERN ANATOLIA PROJECT**

**This project is an effort which aims at improving land, water and human resources in order to provide:**

- ✓ Integrated**
- ✓ Socio-economic**
- ✓ Sustainable**

**human development on a regional scale**



# **GAP LAND AND WATER RESOURCES DEVELOPMENT PROJECT**

## **Euphrates River Basin**

- 1. Karakaya Dam./HES**
- 2. Lower Fırat**
- 3. Border Fırat**
- 4. Suruç – Baziki**
- 5. Adıyaman – Kahta**
- 6. Adıyaman – Göksu – Araban**
- 7. Gaziantep**

## **Tigris River Basin**

- 1. Dicle - Kralkızı**
- 2. Batman**
- 3. Batman - Silvan**
- 4. Garzan**
- 5. Ilisu**
- 6. Cizre**

**Total 22 dams, 19 HPP**

**1.7 million ha, 7,495 MW, 27 billion kWh**



# **GAP COVERS ALL DEVELOPMENT SECTORS INCLUDING**

**Agriculture**

**Industry**

**Transportation/Communication**

**Urban/ Rural  
Infrastructure**

**Health**

**Education**

**Tourism**





## EXPECTED CHANGES WITH GAP

- ✓ **445% Increase in GRP**
- ✓ **209% Per capita income**
- ✓ **Employment for 3.8 million people**





# INTERIM RESULTS OF DEVELOPMENT

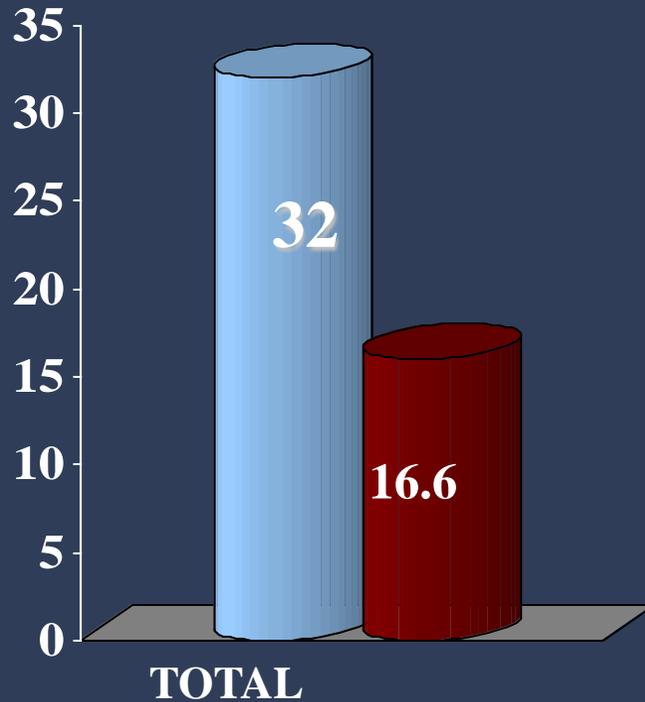




# FINANCIAL ASPECTS OF GAP

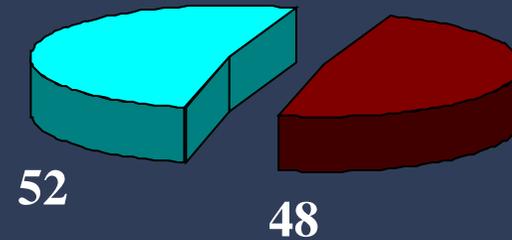
( US \$32 billion )

Billion \$US



- Requirement
- Expenditure

REALIZATION (%)



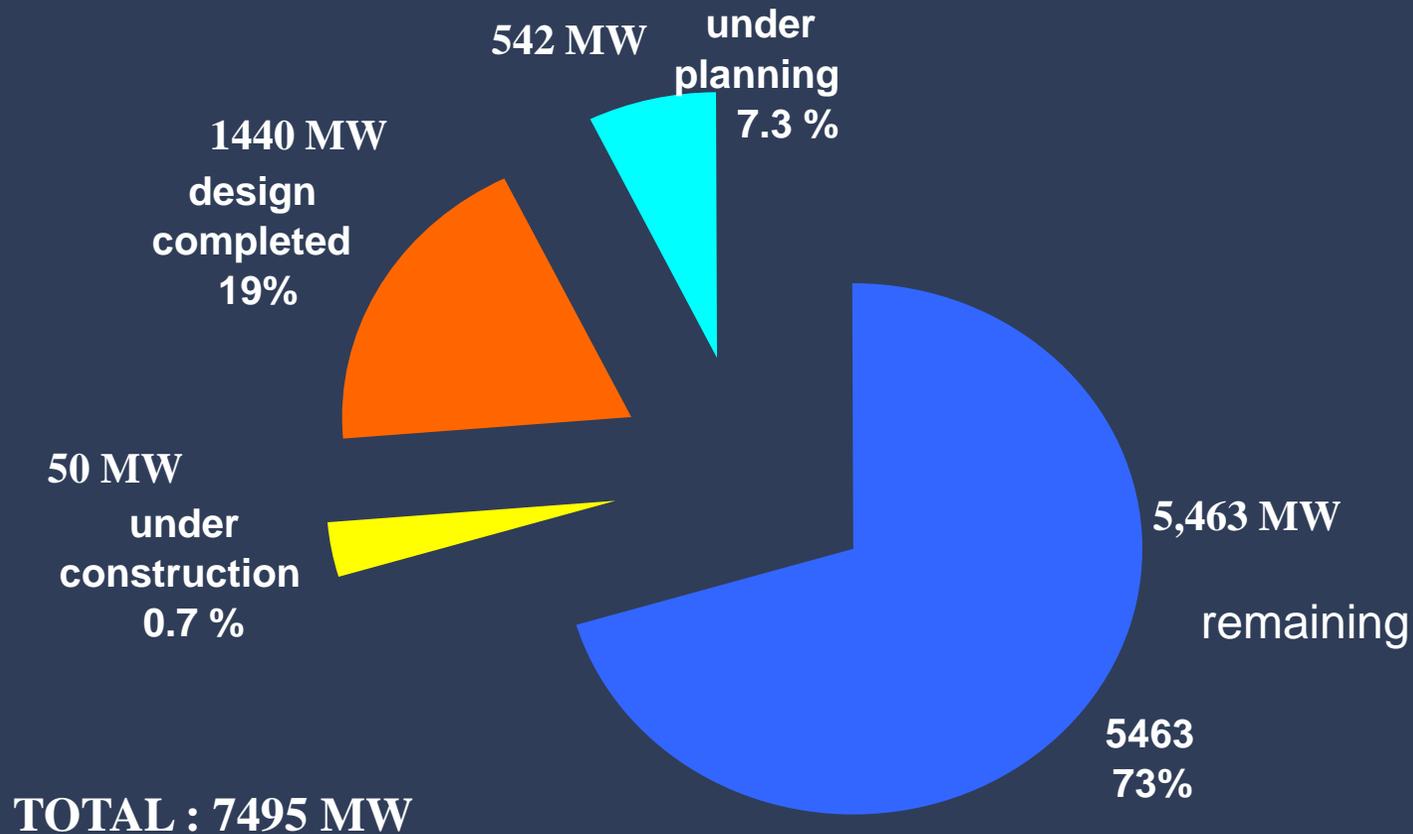
- Expenditure
- Remaining

By the end of 2003



# HYDROPOWER ENERGY GENERATING PROJECTS

## Installed Capacity



Total electricity revenues at the end of 2003 were US \$12,7 billion



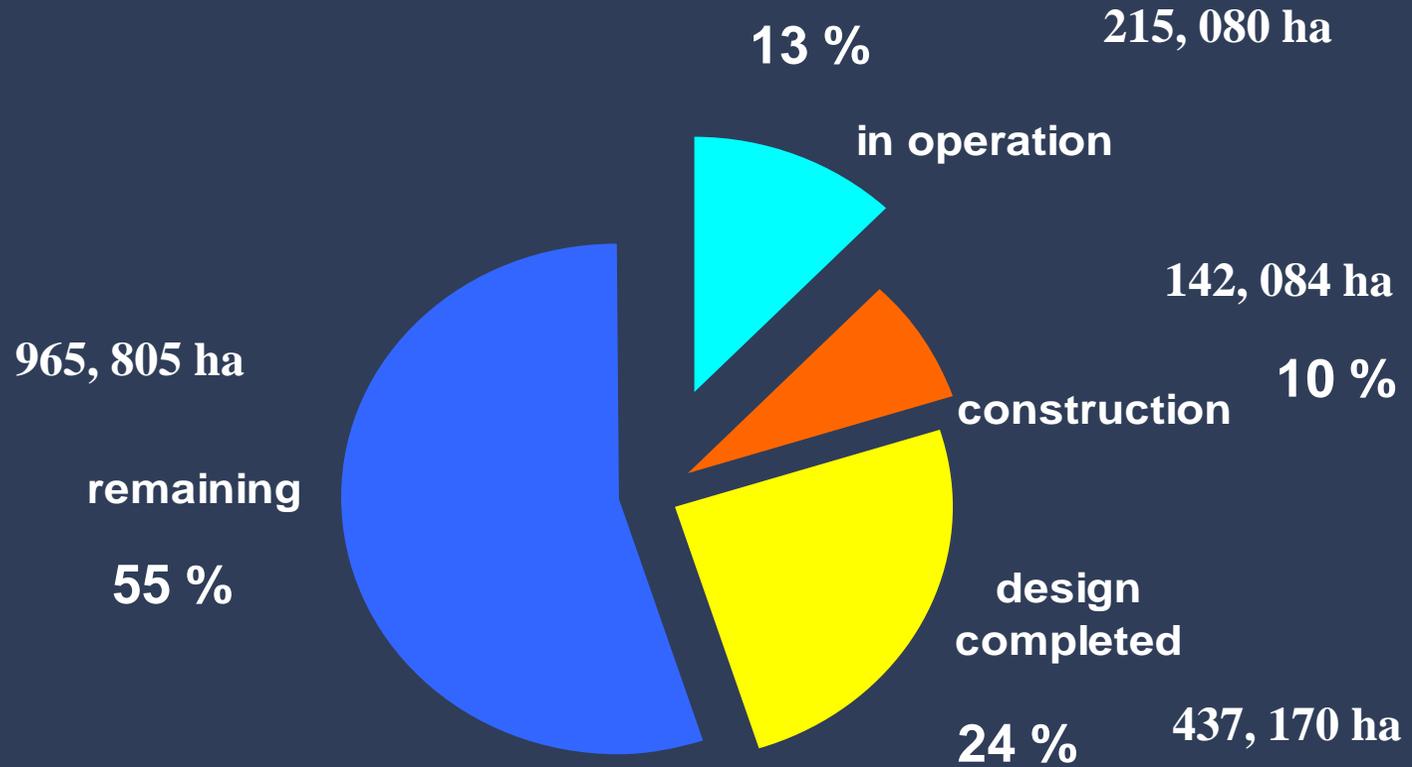
# GAP'S HYDROPOWER ENERGY REVENUES (2003 )

	production billion kWh	Value equivalent US \$ million
<b>Batman</b>	<b>0.12</b>	<b>7</b>
<b>Karakaya</b>	<b>6.94</b>	<b>416</b>
<b>Atatürk</b>	<b>5.77</b>	<b>346</b>
<b>Kralkızı</b>	<b>0.09</b>	<b>5</b>
<b>Karkamış</b>	<b>0.32</b>	<b>19</b>
<b>Dicle</b>	<b>0.21</b>	<b>13</b>
<b>Birecik</b>	<b>1.88</b>	<b>113</b>
<b>GAP</b>	<b>15.32</b>	<b>919</b>

1kWh = 6 cents

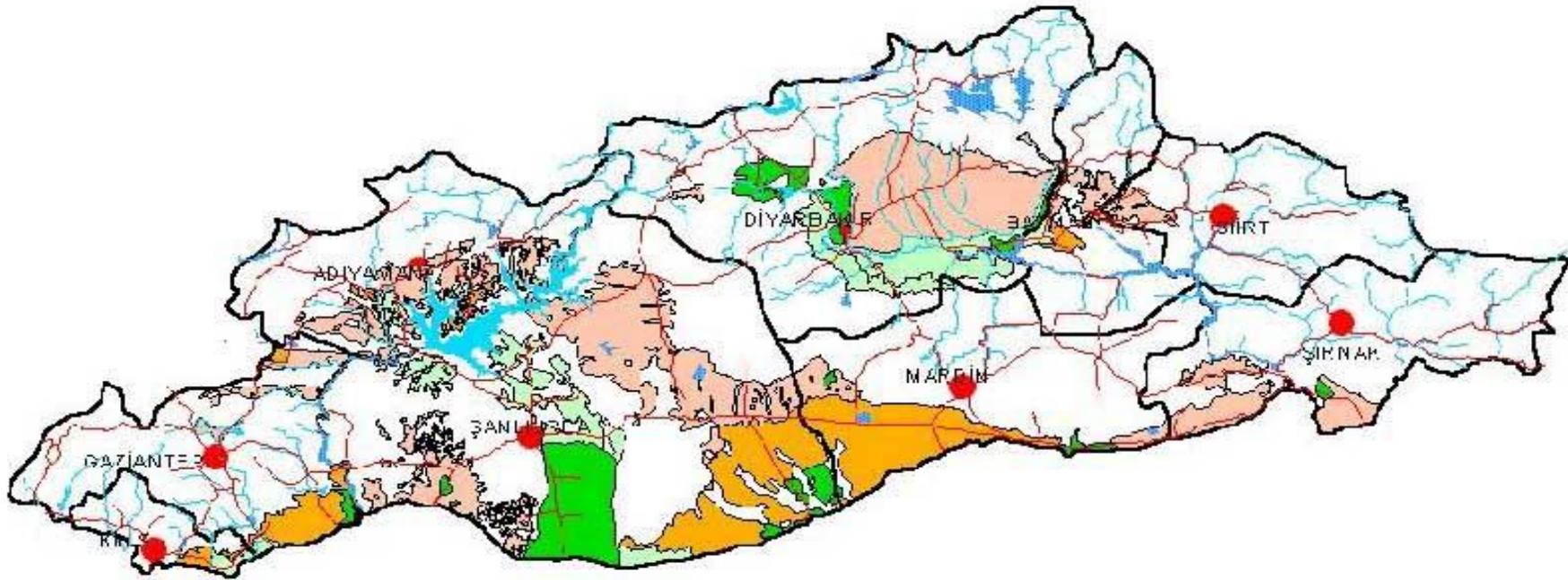
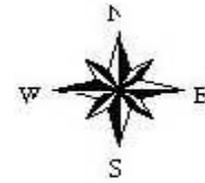


# GAP IRRIGATION PROJECTS



**MAJOR PROJECTS : 1 674 300 ha, INDIVIDUAL : 86 750 ha , TOTAL: 1 761 050 ha  
AS OF END OF 2003**

# IRRIGATED AREAS IN GAP REGION



Ölçek : 1/1 000 000

-  IN OPERATION
-  CONSTRUCTED
-  DESIGN COMPLETED
-  REMAINING



## **SAMPLE AREA**

**April 1995-2003**

**Harran Plain**

**121,400 ha**

**117,665 people**

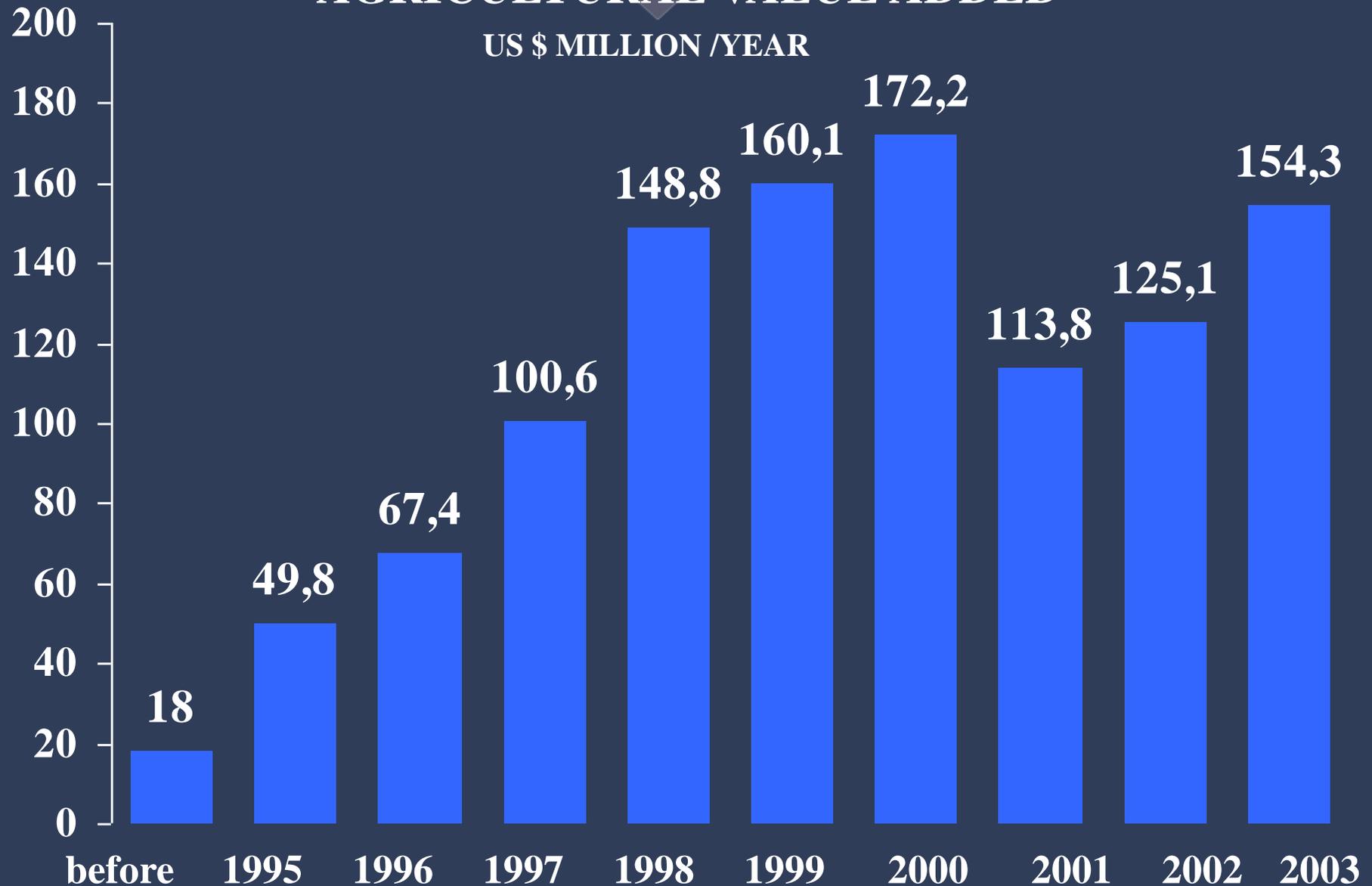
**18.405 land owners**

**107 villages**



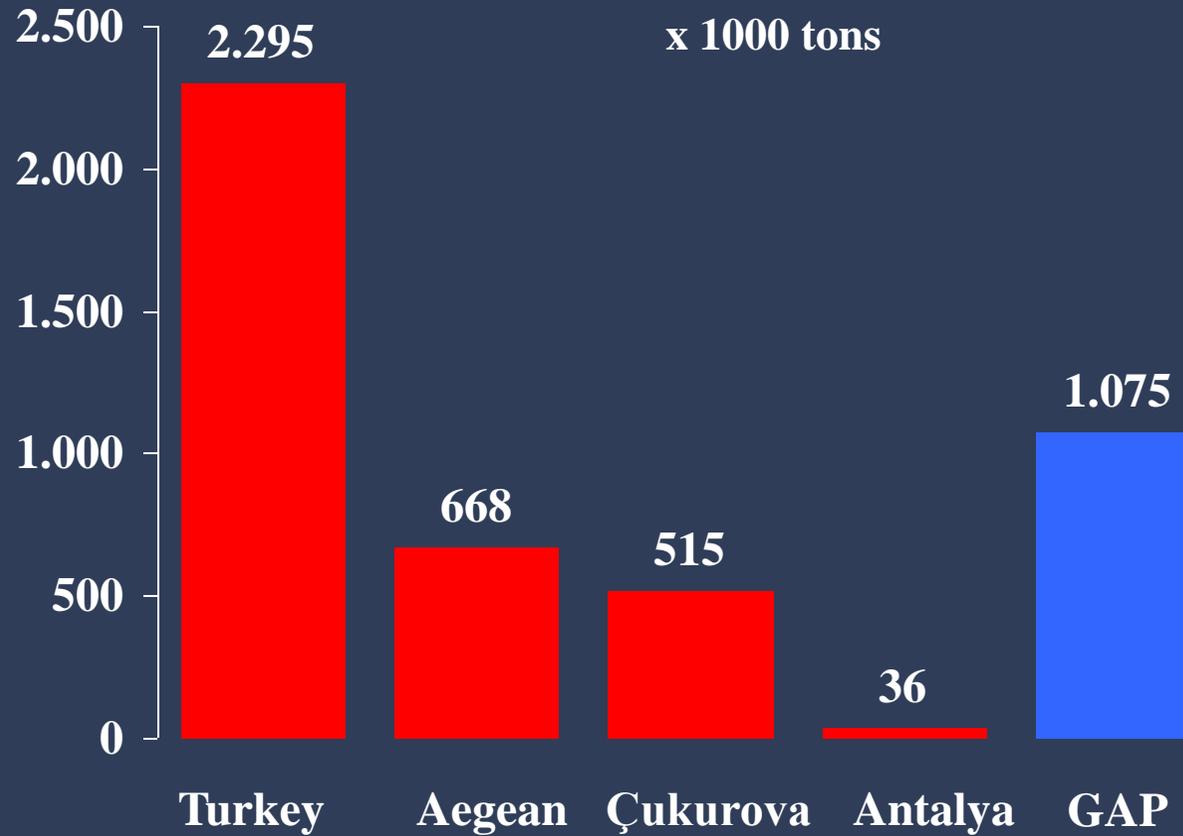
# AGRICULTURAL VALUE ADDED

US \$ MILLION /YEAR





# COTTON PRODUCTION



\*source: DİE & MARA, 2003



## DEVELOPMENT IN MANUFACTURING SECTOR

(Number of plants has more than doubled between 1995-2000)

	Pre-1995 Total	1995-1998	1998-2000	Total
ADİYAMAN	42	36	9	88
DİYARBAKIR	72	58	43	173
MARDİN	35	12	33	80
ŞANLIURFA	78	84	23	185
<b>TOTAL</b>	<b>227</b>	<b>190</b>	<b>108</b>	<b>526</b>

Source: GAP-GİDEM



# GAP REGIONAL DEVELOPMENT ADMINISTRATION

GAP  
TC BAKANLIK  
GÜNEYDOĞU  
ANADOLU  
PROJESİ  
BÖLGE  
KALKINMA  
İDARESİ  
BAŞKANLIĞI

GAP  
REPUBLIC OF  
TURKEY  
PRIME  
MINISTRY  
SOUTHEASTERN  
ANATOLIA  
PROJECT  
REGIONAL  
DEVELOPMENT  
ADMINISTRATION



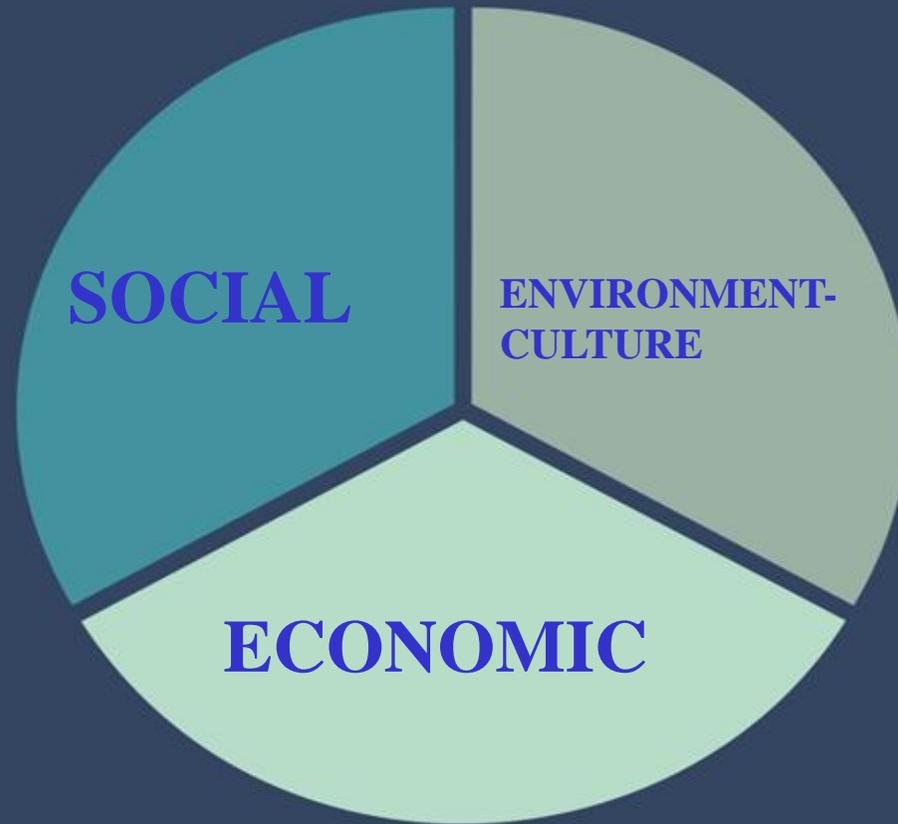


# **SUSTAINABLE HUMAN DEVELOPMENT**

**To create a context for optimizing natural and human resources, ensuring sufficient resources for the needs of future generations, and realizing people's preferences and economic potential.**



# THE PHILOSOPHY OF GAP





# THREE PILLARS TO SUSTAINABLE DEVELOPMENT





# GRASSROOTS, LOCAL AND NGO PARTICIPATION

- ✓ **Municipalities**
- ✓ **Irrigation Unions**
- ✓ **Youth**
- ✓ **Women**
- ✓ **Landless or small farmers**



# GRASS ROOTS, LOCAL AND NGO PARTICIPATION

- ✓ **Media**
- ✓ **Private Sector**
- ✓ **Universities**
- ✓ **Research Institutes**
- ✓ **Unions**
- ✓ **NGOs**
- ✓ **Professional Societies**



## **REGIONAL DEVELOPMENT PLAN**

**✓ PARTICIPATION**

**✓ SUSTAINABLE HUMAN DEVELOPMENT**



## **GAP'S CHANGING DIRECTION: VISION**

- ✓ **Human Resources Developed**
- ✓ **Traditional Dependency Structures Resolved**
- ✓ **Openness**
- ✓ **Participation**
- ✓ **Conditions for Sustainable Development Established**
- ✓ **Creation of a Modern Society**



**ÇATOM**

**GAP-GİDEM**

**YOUTH TO YOUTH**

**RESETTLEMENT**

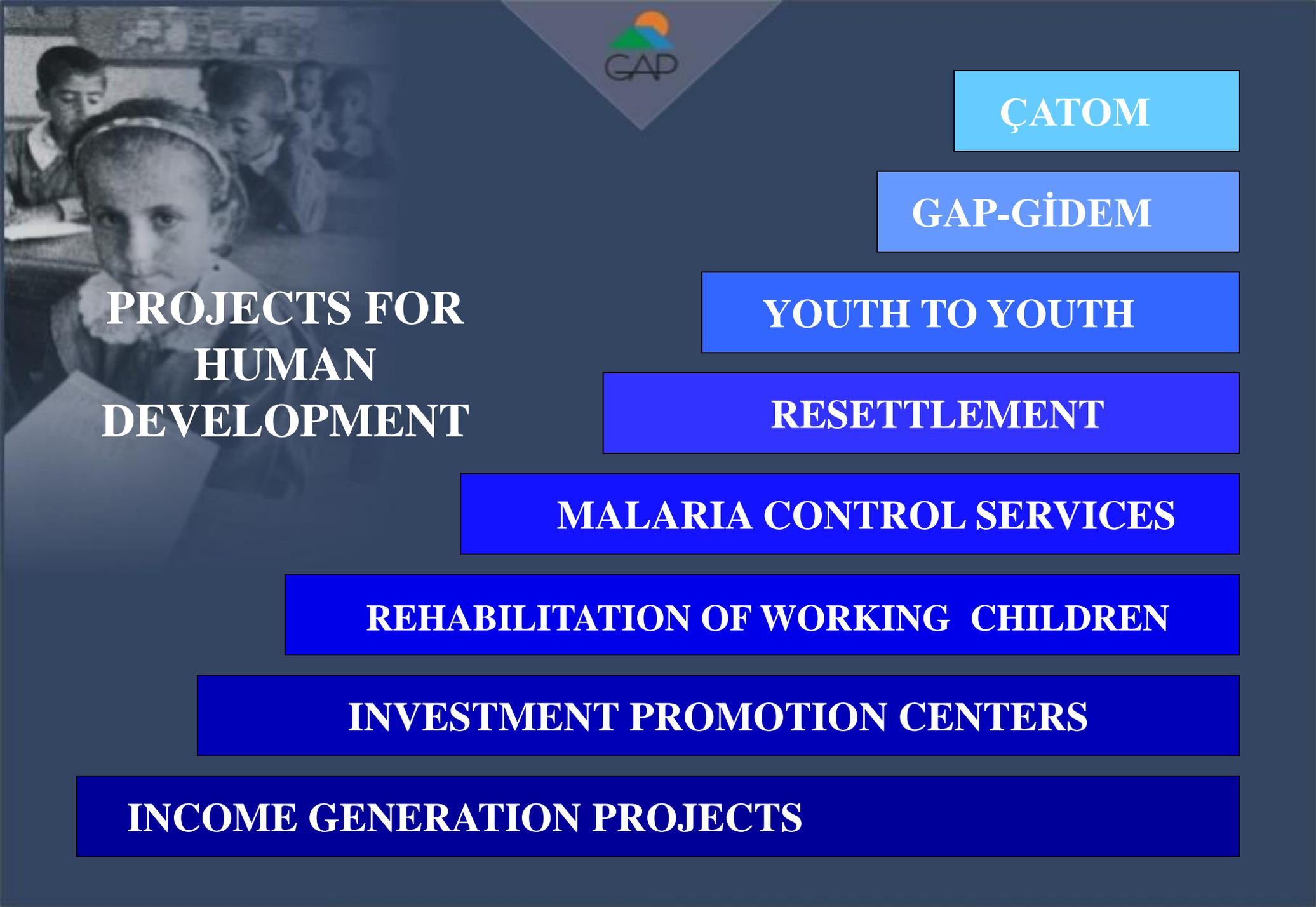
**MALARIA CONTROL SERVICES**

**REHABILITATION OF WORKING CHILDREN**

**INVESTMENT PROMOTION CENTERS**

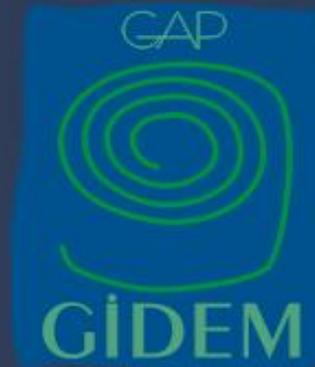
**INCOME GENERATION PROJECTS**

**PROJECTS FOR  
HUMAN  
DEVELOPMENT**





# OUR MODEL PROJECTS



GAP GİRİŞİMCİ DESTEKLEME VE  
YÖNLENDİRME MERKEZLERİ





# MULTI PURPOSE COMMUNITY CENTERS FOR WOMEN (ÇATOM)

28 CENTERS

Number of participants:

85,000





**YOUTH TO YOUTH SOCIAL DEVELOPMENT  
PROJECT  
MARDİN, DİYARBAKIR, ŞANLIURFA, ADIYAMAN &  
BATMAN YOUTH AND CULTURE CENTERS**

**COURSES IN PAINTING, MUSIC, DRAMA, COMPUTER AND  
ENGLISH, UNIVERSITY PREPARATION  
(NUMBER OF YOUTH REACHED-14.316)**



# **OBJECTIVES**

**Improvement of youth initiatives**  
**Self-motivation & confidence**  
**Participation in social development**

**Youth & Culture Centers**  
**Youth Committees**  
**Institutional Recognition**  
**Solidarity among youth**



**CENTER**  
**for**  
**CHILDREN WORKING IN THE STREETS**  
**DIYARBAKIR**  
**ADIYAMAN**





# **CENTER for CHILDREN WORKING IN THE STREETS**

- ✓ EDUCATION**
- ✓ SOCIAL ACTIVITIES**
- ✓ HEALTH SERVICES**

**IN 2002 150 CHILDREN REFERRED TO REGIONAL BOARDING SCHOOLS**

**A TOTAL OF 1526 CHILDREN REACHED in 2003**



**DİYARBAKIR**

**CHILDRENS MEDIA CENTERS**

**EDUCATIONAL SUPPORT FOR AT  
LEAST ONE HUNDRED CHILDREN PER  
DAY**



# ENVIRONMENTAL PROJECTS



✓RE-USE OF URBAN WASTE WATER

✓DEVELOPMENT PLANS

✓URBAN PLANNING AND SANITATION

✓FIGHTING TROPICAL DISEASES

✓DISINFECTING OF DRINKING WATER

✓ADIYAMAN ECOCITY PLANNING



## **GAP BIODIVERSITY PROJECT**

### **ENVIRONMENTAL EDUCATION PROTOCOL COOPERATION PROTOCOL FOR WILDLIFE PROJECT**

**TURKEY WILDLIFE PROTECTION FOUNDATION**





# **TYPES & FIGURES OF ACTIVITIES REALIZED BY GIDEM PROJECT (During 2003-2004)**

<b>TRAINING/SEMINAR (UNIT)</b>	<b>42</b>
<b>TRAINING/SEMINAR (ATTENDANTS)</b> <b>entrepreneurs)</b>	<b>2034 (businessman, NGO,</b>
<b>TRAINING/SEMINAR (SUBJECTS)</b> Trade, Investment opportunities, financial management, sector specific issues	
<b>CONSULTANCY SERVICES</b>	<b>451</b>
<b>( of investor, company, entrepreneur, NGO received service)</b>	
<b>INFORMATION SERVICES</b>	<b>640</b>
<b>( of investor, company, entrepreneur, NGO received service)</b>	
<b>FIRMS DIAGNOSED DURING BUSINESS DIAGNOSTICS</b>	<b>160</b>
<b>FIRMS RECORDED INTO GIDEM DATA BANK</b>	<b>1300</b>



# AGRICULTURAL RESEARCH AND IMPLEMENTATION PROJECTS





# PROJECT GROUPS

- ✓ WATER RESOURCES
- ✓ MECHANIZATION
- ✓ ECONOMICAL STUDIES
- ✓ RESEARCH
- ✓ FORESTRY
- ✓ NON-IRRIGATED AREAS
- ✓ ANIMAL HUSBANDRY





# **NON-IRRIGATED AREAS INCOME GENERATING ACTIVITIES**

- ✓ **Demonstration Orchards for 1508 farmers (262 850 trees)**
- ✓ **Grafting of wild trees (176 000 wild Pistachio trees)**
- ✓ **128 210-sq meter demonstration greenhouses**
- ✓ **Demonstration of mushroom compost (20 tons)**
- ✓ **Beekeeping activities(7067 hives for 436 farmers)**
- ✓ **Poultry for 34 farmers**





# ANIMAL HUSBANDRY

- ✓ **DEVELOPMENT OF FODDER CROPS**
- ✓ **FEED LOTS**
- ✓ **CONTRACT FARMING**





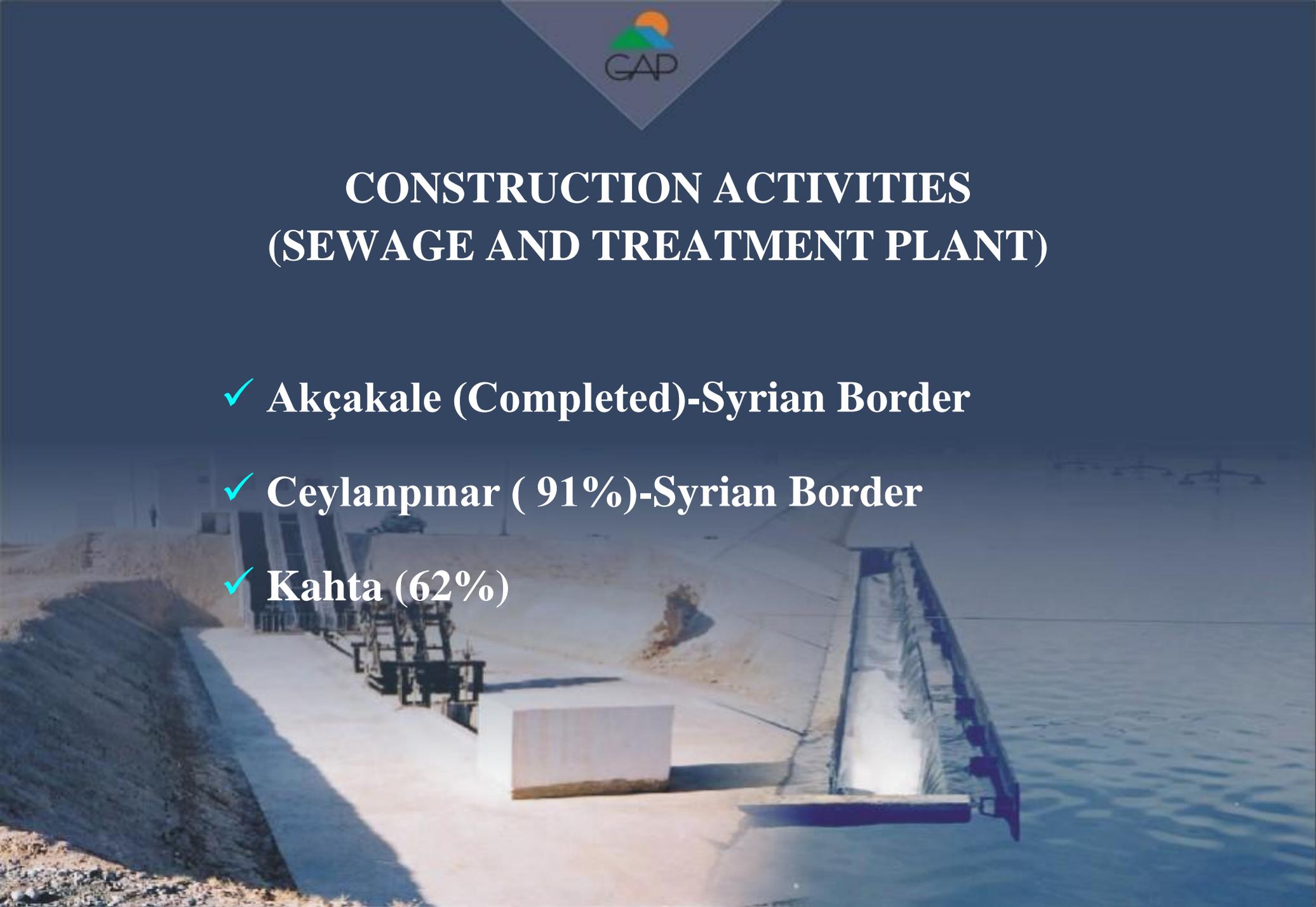
# INFRASTRUCTURE ACTIVITIES

- ✓ MAPPING
- ✓ PLANNING
- ✓ DRINKING WATER - SEWERAGE



## **CONSTRUCTION ACTIVITIES (SEWAGE AND TREATMENT PLANT)**

- ✓ **Akçakale (Completed)-Syrian Border**
- ✓ **Ceylanpınar ( 91%)-Syrian Border**
- ✓ **Kahta (62%)**





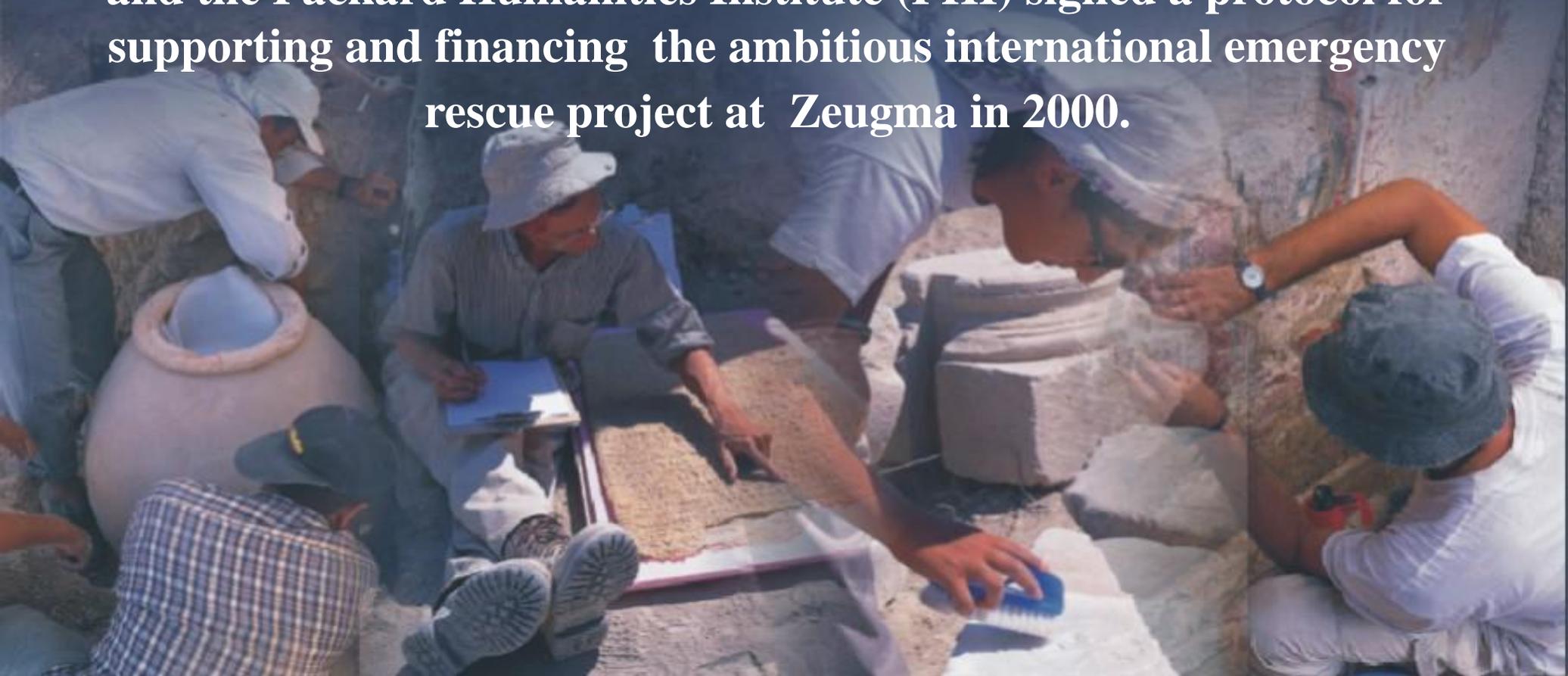
## **ACTIVITIES IN CULTURE**

- PROTECTION PLAN FOR ANCIENT TOWN OF ACIRLI**
- RESEARCH ON IMMOVABLE CULTURAL ASSETS IN BIRECIK, HALFETI and SURUC**
- RESEARCH, EXCAVATION AND RESCUE WORKS IN THE TOWN OF HASANKEYF**
- ZEUGMA 2000 ARCHEOLOGICAL PROJECT**



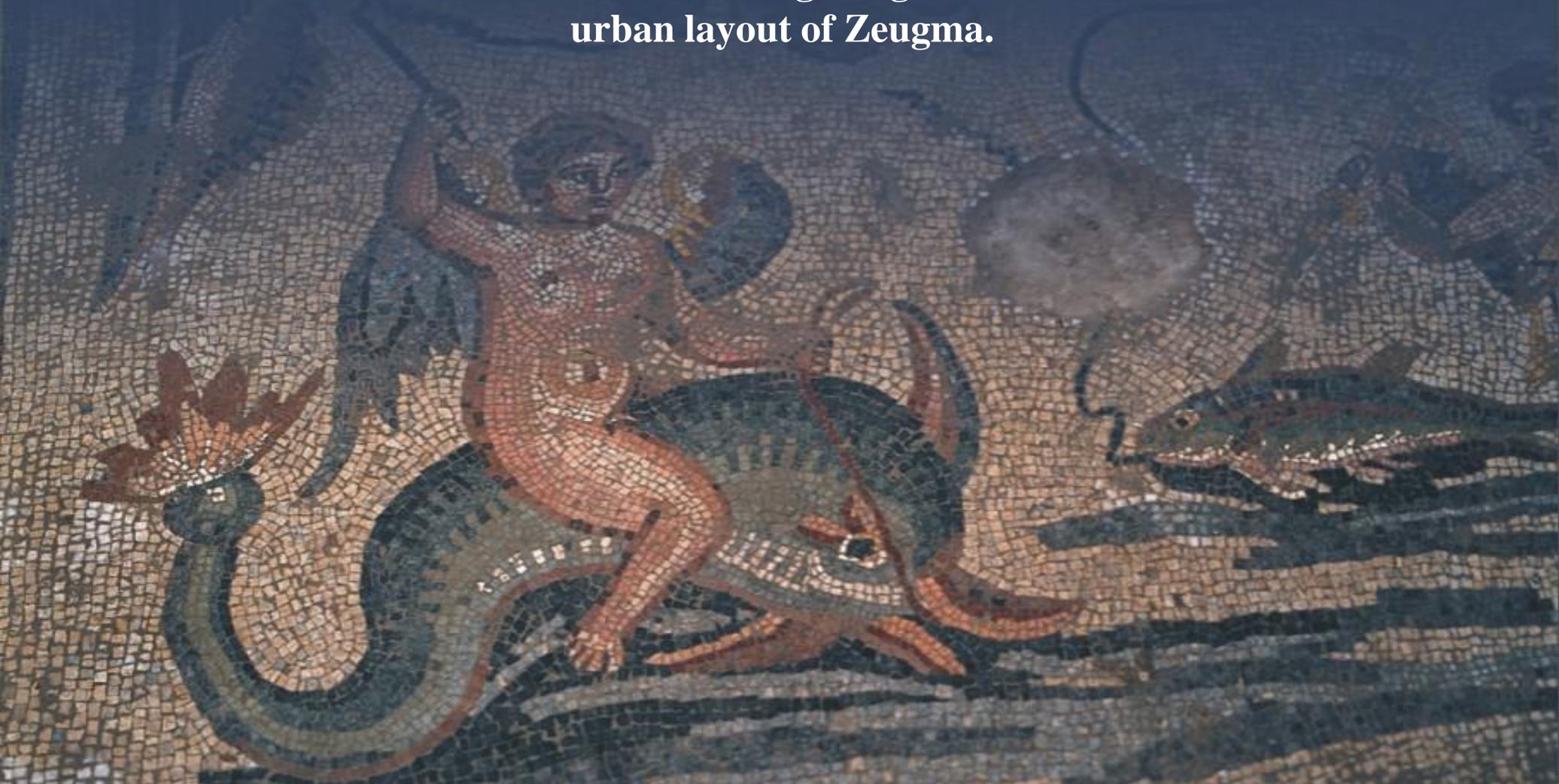
## **ZEUGMA 2000**

**Under the auspices of Turkish Ministry of Culture, the Southeastern Anatolia Project Regional Development Administration (GAP-RDA) and the Packard Humanities Institute (PHI) signed a protocol for supporting and financing the ambitious international emergency rescue project at Zeugma in 2000.**





**From June to 4 Sept 2000, more than 100 archaeologists, and approximately 250 other workers collaborated to bring to light valuable information on the urban layout of Zeugma.**





# INTERNATIONAL RELATIONS





- ✓ UNDP- United Nations Development Program
- ✓ FAO- United Nations Food and Agriculture Organization
- ✓ ILO- International Labour Organization
- ✓ UNICEF- United Nations Children Fund
- ✓ WHO - World Health Organization
- ✓ World Bank
- ✓ UN Industrial Development Organization





## GRANTS TO GAP RDA

US Dollars

US Trade & Development Agency	720.000
	377.000
Canada International Development Agency	284.000
	249.000
US National Institutes of Health	150.000
Government of France	187.266
	540.000
World Health Organization (WHO)	200.000
JDC (USA)	45.000
World Bank, Government of Austria	300.000
	264.000
UN Food & Agriculture Organization (FAO)	186.000
Government of Israel	120.000
International Labour Organisation (ILO)	60.000

**TOTAL**

**3.926.266**



# UNDP

## Strengthening Integrated Regional Development and Reducing Socio-Economic Disparities in the GAP Region

### (Sustainable Development Program)

Sustainable Development Program (UNDP)	\$ 5.9 million
• Government of Turkey	\$ 2.4 million
• UNDP	\$ 1.3 million
• Others	\$ 2.2 million



# **GAP-EU COLLABORATION**

## **47 million Euro**

- ✓ **Rural Development**
- ✓ **Protection of Cultural Heritage**
- ✓ **Small & Micro Enterprises**



# MEMORANDA OF UNDERSTANDING

- ✓ **ICARDA**
- ✓ **IWMI**
- ✓ **Arizona State Univ**
- ✓ **HASNA (USA)**
- ✓ **San Diego State Univ**
- ✓ **Kent State Univ**
- ✓ **Portland State Univ**
- ✓ **Oklahoma State Univ**
- ✓ **Teksas State University**
- ✓ **TVA**
- ✓ **PHI**
- ✓ **TOSHKA (Egypt)**
- ✓ **CHIEAM-BARI (Italy)**
- ✓ **Vardar Project (Fmr. Yugoslav Rep. of Macedonia)**
- ✓ **GOLD (Syria)**
- ✓ **MASHAV (Israel)**



**PROPOSALS FOR  
RECONSTRUCTION ASSISTANCE  
TO AFGHANISTAN, IRAQ, WEST  
BANK & GAZZA**



**Proposal package covers the following areas:.**

**Education**

**Health**

**Infrastructure**

**Women**

**Youth**

**Children**

**Disadvantaged groups**



[www.gap.gov.tr](http://www.gap.gov.tr)