

The background of the slide is the European Union flag, featuring a blue field with twelve five-pointed gold stars arranged in a circle. The flag is slightly wavy, suggesting movement or a breeze.

# **WASTE MANAGEMENT PROJECTS IN TURKEY**

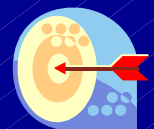
**Elif Ceyda TORCU TAŞ**

**Sector Manager  
for Environment and Sustainable Development  
*Delegation of the European Commission to Turkey***

***Brussels 05 December 2006***



# INTRODUCTION



## Objectives

- Support to Pre-accession
  - Economic and political criteria
  - Transposition and implementation of EU *acquis communautaire*
  - Preparation for future participation in structural funds



# INTRODUCTION

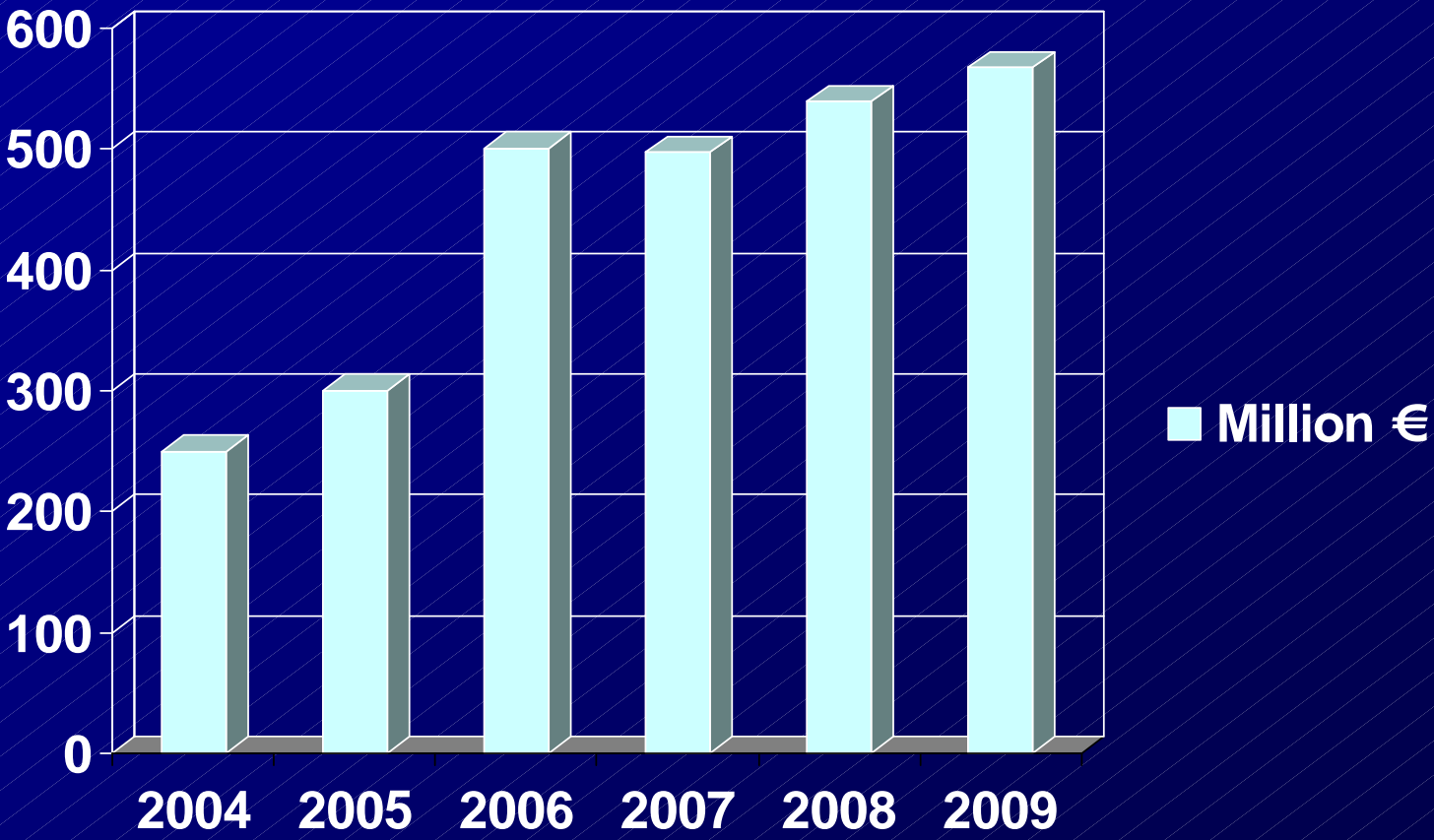
## Programming per Instrument

- MEDA
  - (1996-2001) = 794.4 M€
- Pre-accession Assistance
  - (2001-2006) = 1,331.1 M€
- Instrument for Pre-accession
  - (2007-2009) –approx 1,600 M€



# INTRODUCTION

## Budget Programmed per Year

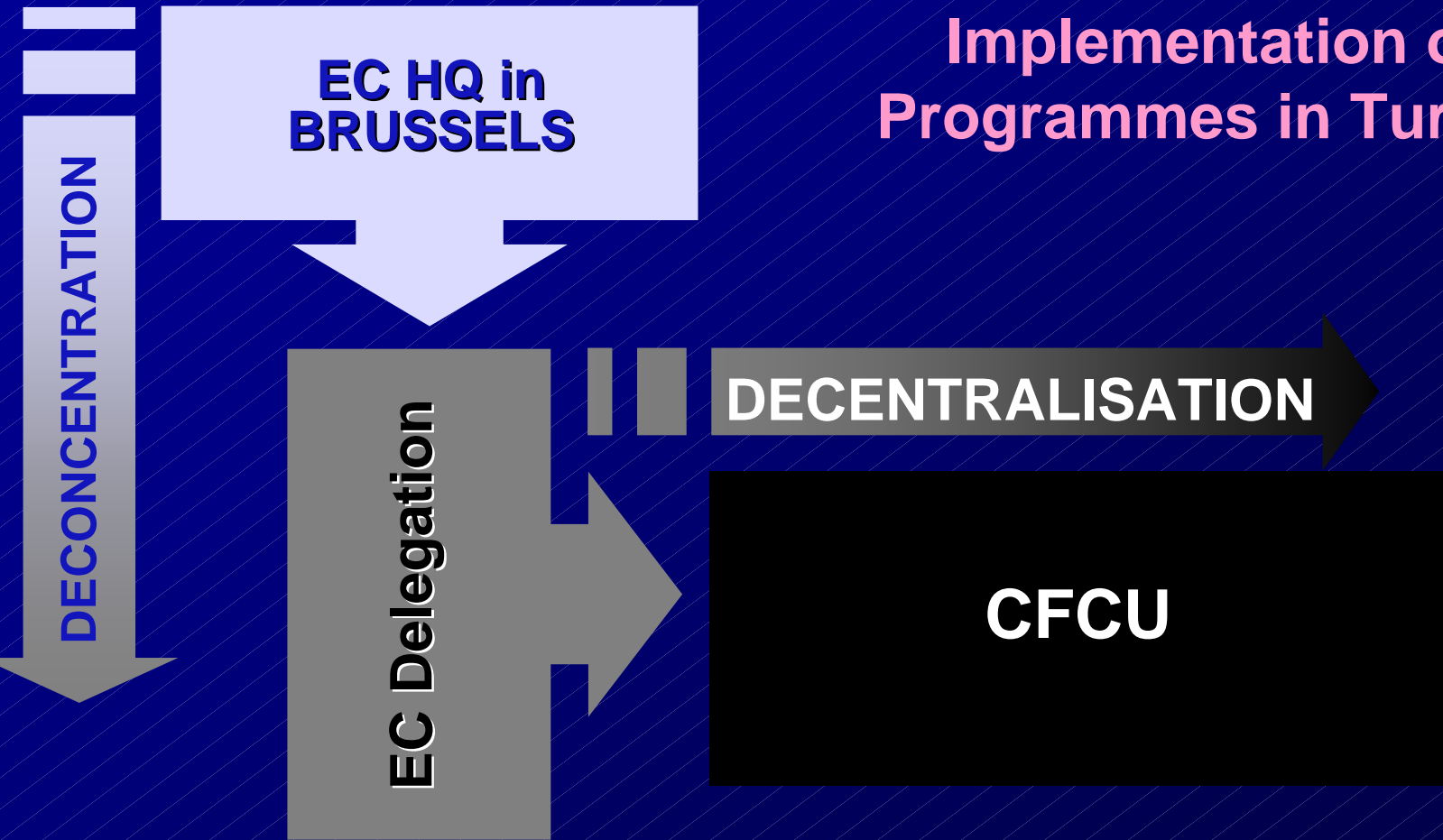




# INTRODUCTION

## Management Types

Implementation of Programmes in Turkey





# INTRODUCTION

## Decision Making: Turkey

- De-centralised Management (DIS)
  - Secretariat General of EU Affairs (EUSG)
  - State Planning Organisation (SPO)
  - Ministries (MoEF, MoT)
  - Central Finance and Contracts Unit (CFCU)



# INTRODUCTION

## Decision Making: EU

- De-centralised Management (DIS)
  - Turkey Team of DG ELARG
  - ISPA Unit of DG REGIO
  - Enlargement and Neighbouring Countries Unit of DG ENV
  - Delegation of the European Commission to Turkey (EC Delegation)



# INTRODUCTION

## Acquis Chapters



1. Free movement of goods
2. Free movement of persons
3. Free movement of services
4. Free movement of capital
5. Public Procurement
6. Company Law
7. Intellectual Property Law
8. Competition Policy
9. Financial services
10. Information society and media
11. Agriculture and Rural Development
12. Food Safety, Veterinary and Phytosanitary Policy
13. Fisheries
14. Transport Policy
15. Energy
16. Taxation
17. Economic and Monetary Policy
18. Statistics
19. Employment and social policy
20. Enterprise and Industrial Policy
21. Trans European Networks
22. Regional Policy and Coordination of Structural Instruments
23. Judiciary and Fundamental Rights
24. Justice Freedom and Security
25. Science and Research
26. Education and Culture
- 27. Environment**
28. Consumer protection and health
29. Customs Union
30. External Relations
31. Foreign, Security and Defence Policy
32. Financial control
33. Financial and Budgetary Provisions
34. Institutions
35. Other issues



# ENVIRONMENT

## Major Challenges

- **Legislative**
  - more than 561 pieces of legislation, including all amendments and technical adaptations
- **Institutional**
  - strengthen administrative structures: ministries, agencies but also implementation and enforcement institutions (regional and local)
  - improve intra-ministerial co-ordination
  - pay attention to environmental management in business
  - develop mechanisms to involve stakeholders
- **Financial**
  - high estimates of compliance costs

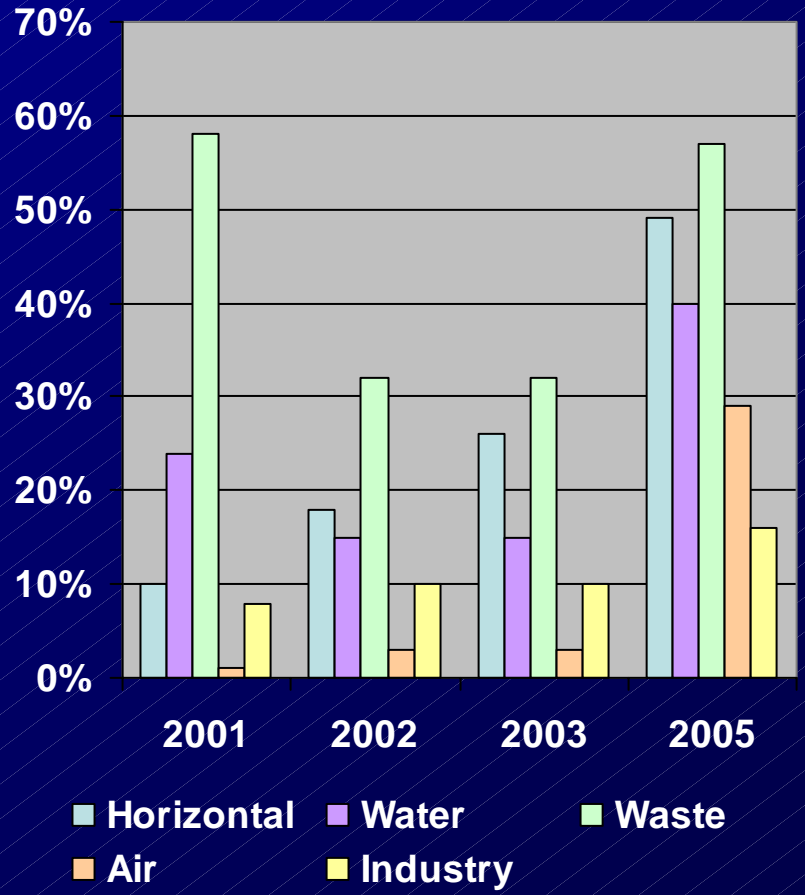




# ENVIRONMENT

## Share of Transposition Achieved

- Being monitored on an annual basis (Progress Monitoring Project).
- It is a moving goal (since EU law changes over time)





# ENVIRONMENT

## Total Cost of Accession

SECTOR	COST (million €)			
	Staff	TA	Investment	Total
Horizontal	5.0	37.8	n.a.	43
Air	46.3	101.6	2,746	2,894
Waste	343.0	22.0	13,338	13,703
Water	0.9	16.1	37,629	37,646
Nature	420.5	1,314.6	n.a.	1,735
Industry	30.8	16.9	14,260	14,308
Chemicals	123.3	28.9	n.a.	152
Nuclear	1.7	8.1	n.a.	10
Noise	28.8	7.5	42	79
<b>Total</b>	<b>1,000.5</b>	<b>1,553.5</b>	<b>68,000</b>	<b>70,569</b>



# ENVIRONMENT

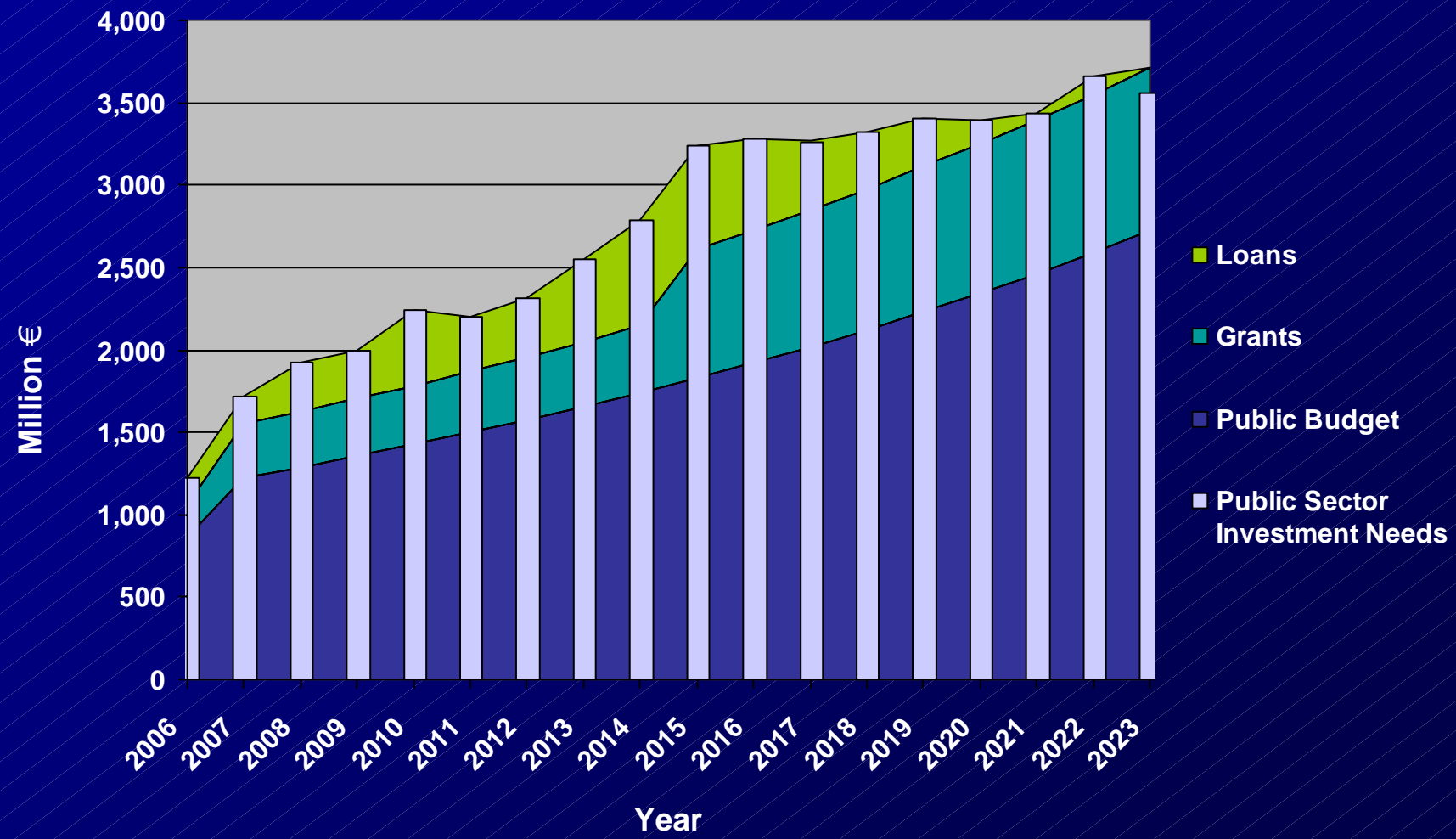
## Total Cost of Accession

Investment Type (Billion €)	Public Sector Investments	56
	Ratio of Investments for Water and Solid Waste Sectors	92%
	Water and Solid Waste Investments	51
	Ratio of Water Sector	73%
	Ratio of Solid Waste Sector	27%



# ENVIRONMENT

## Public Sector Investment Needs and Financing





# ENVIRONMENT

## Financing

- Public Funds
- EU Pre-Accession Funds
- International Financing Institutions



# ENVIRONMENT

## Environmental Infrastructure Funds

### BASICS

- Projects above 5 Million €
- Grant Financing upto %75
- Under the Coordination of the Ministry of Environment and Forestry



# ENVIRONMENT

## Environmental Infrastructure Funds

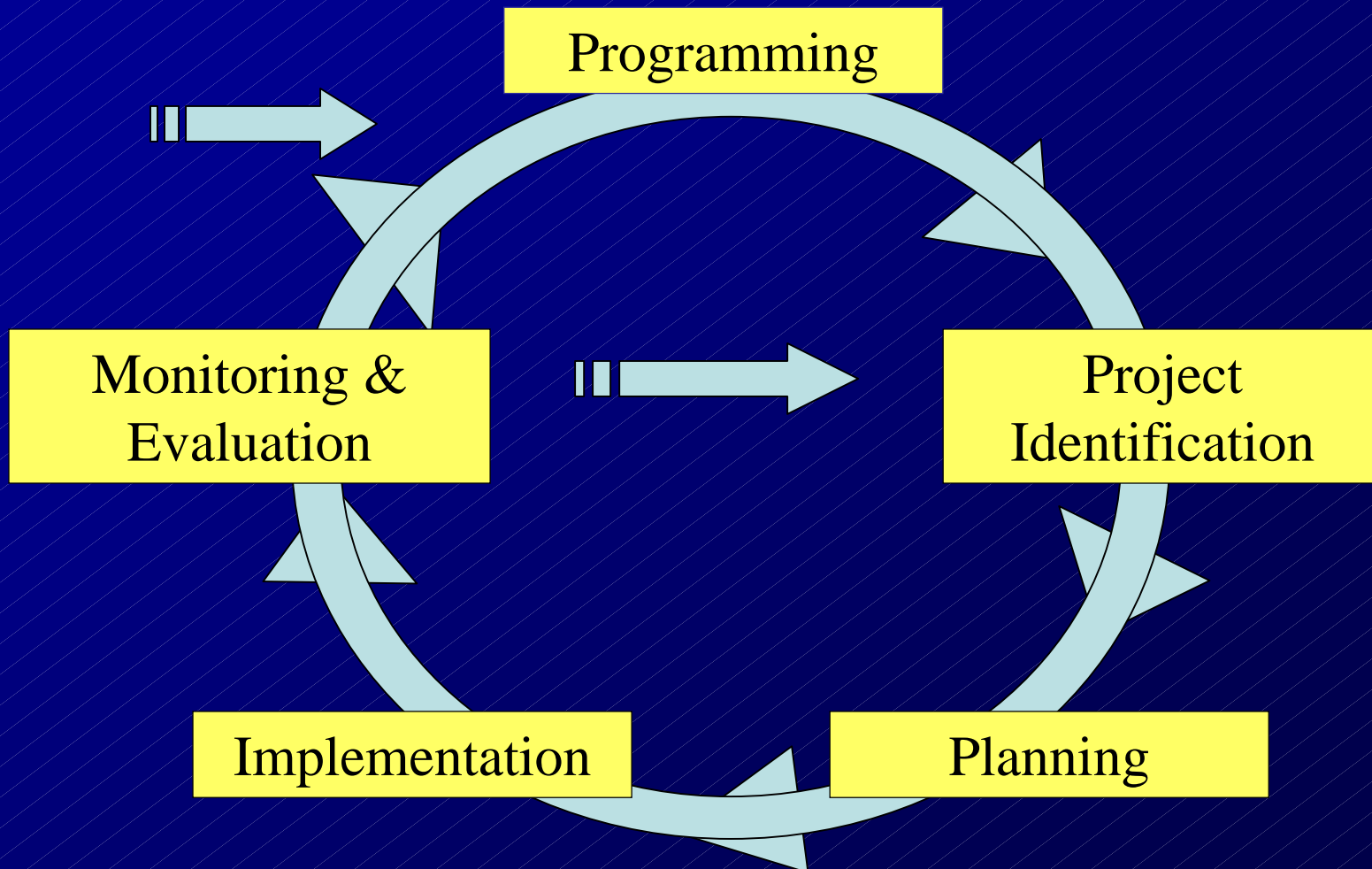
### PRE-CONDITIONS

- Municipality to secure Co-Financing
- Municipality to secure tariff settings
- Projects in accordance with EU Environmental *Acquis*



# ENVIRONMENT

## Project Cycle Management





# ENVIRONMENT

## Project Identification

- Identification of priority projects by the Turkish Ministry of Environment and Forestry
  - Questionnaires
  - Prioritization database (PEPA)
  - Project Pipeline



# ENVIRONMENT

## Project Planning

### 1. Project Preparation

- Masterplan & Feasibility
- Financial & Economic Analysis (grant rate)
- Environmental Impact Assessment
- Project Application Form
- Design and Terms of Reference



# ENVIRONMENT

## Project Planning

### 2. Project Approval

- EC Headquarters (DG Regio, DG Env)
- Financing Agreement



# ENVIRONMENT

## Project Implementation

### 1. Contracting (Technical)

#### – Consultancy/Supervision Services

- Restricted International Tender (PRAG)
- Technical Assistance to Beneficiary during implementation period
- Contracting Period: ~6 months

#### – Works Contracts

- Tender procedure in accordance with PRAG/FIDIC procedures
- Contracting Period: ~6 months

#### – Supply Contracts

- Tender procedure in accordance with PRAG procedures
- Contracting Period: ~6 months



# ENVIRONMENT

## Project Implementation

### 2. Contracting (Institutional)

#### – Beneficiary (Municipality & MoEF)

- Preparation of ToRs
- Evaluation Committee

#### – Central Finance and Contracts Unit (CFCU)

- Carrying out Tender Procedures
- Signs & Implements Contracts
- Payments to the Contractors

#### – EC Delegation

- Ex-ante control over the Tender Procedures
- Endorsement of Contracts



# ENVIRONMENT

## Project Implementation

### 3. Monitoring

#### – Steering Committee Meetings

- Approximately Quarterly
- Beneficiary, CFCU, MoEF, Bank of Provinces, State Planning Organization, ECD, Contractors

#### – Sectoral Monitoring Sub-Committee (SMSC)

- Twice a year
- Reports on evaluation of programmes



# WASTE MANAGEMENT

## EU REQUIREMENTS

- A plan is required
- Waste hierarchy: Avoid, recycle, reuse, dispose
- Recycling !
- Reduction of bio-degradable waste on landfills
- Construction and operation of landfills etc.
- Polluter Pays Principle



# WASTE MANAGEMENT

## AN ACCEPTABLE PROJECT

- Is linked to a regional plan
- Has many components, for example:
  - Bring banks
  - Civic Amenity centres
  - Composting facility
  - Sanitary landfill with leachate collection and treatment
  - Gas collection
  - Plan for closure of landfill
  - Maybe dual collection
  - Closure of old dumps
- Polluter pays principle



# WASTE MANAGEMENT

## THE COST OF A MODERN MSWM PROJECT IN TURKEY

### ➤ Total Investment costs (EU proj)

– 80 - 120 EUR / Capita

### ➤ Full Operational costs

– 30 - 50 EUR / tonnes

– ~10 - 15 EUR / capita / year

	Canakkale	Kütahya
landfill	45%	35%
closure of dumps	20%	25%
consulting	15%	10%
equipment	20%	30%



# WASTE MANAGEMENT

## AFFORDABILITY

- Polluter-Pays and Affordability
- 10 - 15 EUR / cap is OK in richer regions with large towns
- OK = 1% of household income
- But regions with only small towns will face affordability problem



# ENVIRONMENT

## Ongoing/Programmed Projects

Pre-accession Programme	Number of contracts/projects	Budget M€
2002	3 Service, 1 Int Direct Grant, 1 Twinning, 5 Supply	16.4
2003	2 Twinning, 1 Service, 1 Supply, 7 FWC	7.2
2004	4 Twinning, 2 Supply, 1FWC	8.4
2005	2 SWM, 2 Service	44
2006	3 SWM, 2 WWTPs, 4 Service, 1 Twinning, 1 Supply	94
<b>TOTAL</b>		<b>170</b>



# ENVIRONMENT

## Ongoing/Programmed SWM Projects

Pre-accession Programme	Number of contract	Budget M€
2003	7 FWCs for Feasibility Study preparations	1.4
2004	1 FWC for Feasibility Study preparation	0.2
2005	2 SWM Investment Projects (Kuşadası & Çanakkale)	37
2006	3 SWM Investment Projects (Amasya, Bitlis & Kütahya)	50
<b>TOTAL</b>		<b>88.6</b>

# Planned SWM Projects in Environment Sector

Pre-accession Programme/IPA	Number of contract	Budget M€
2006	1 Service Contract for preparation of 10 SWM projects	3.5
2007	3-5 Possible SWM Investment Projects (Balıkesir, Çorum, Konya, Kayseri, Artvin&Rize)	Max 120
<b>TOTAL</b>		<b>123.5</b>

# Contacts and Information

## - ECD Counterparts -

Head of Delegation	Mr Marc Pierini
Head of Section for Cooperation, Coordination and Investment	Mr Holger Schröder
Sector Managers Environment	Mrs Elif C. Torcu Taş Mr Gürdoğar Sarıgül

# Contacts and Information

## - Publications/Websites -

### Publications

EU Funded Programmes in Turkey

### Websites

<http://europa.eu.int/comm/europeaid/>

<http://europa.eu.int/comm/enlargement>

<http://www.deltur.cec.eu.int/>

<http://europa.eu.int/comm/europeaid/cgi/frame12.pl>

<http://www.cfcu.gov.tr/>

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**THANK YOU**