

TURKEY is prone to mainly three types of natural disasters.

> Earthquakes:

- 70% of the population living in seismically active areas.
 66% of the country is located on active fault zones.
 75% of damaged buildings and %64 of total disaster losses in the last century are due to earthquakes.

- Mostly in coastal plains and exacerbated by deforestation, erosion and ignorant development.
 15% of total disaster losses are due to floods.

- Landslides;
 25% of country area is exposed to landslide hazard.
 - 11% of total population is located in landslide areas.
 - 16 % of total disaster losses are due to landslides.

Earthquake Toll in Turkey > Average annual direct economic costs exceeded 1 billion US\$ in the last decade. Average annual number of earthquakes equal or greater than a magnitude of 5.5 on the Richter scale: 0.76 Number of people killed per year due to earthquakes: 950 (3rd in the world) Average number of people killed per million inhabitants: 15.58 (41) in the world). Average physical exposure per year: 2 745 757 people Killed per million exposed – relative vulnerability: 346









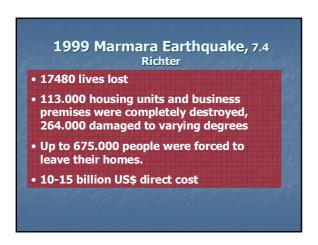


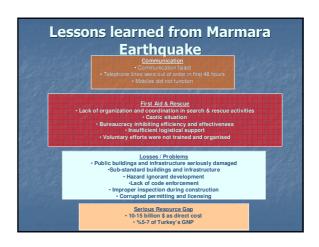






			nce 1		roperty	
				330		
Earthquake	Date	Loss of Life	Injured	Homeless	Affected Population	Financial Loss (US\$ one million
Erzincan	13.03.1992	653	3.850	95.000	250.000	75
Dinar	01.10.1995	94	240	40.000	120.000	10
Çorum-Amasya	14.08.1996	0	6	9.000	17.000	
Ceyhan-Adana	27.06.1998	145	1.600	88.000	1.500.000	50
Izmit Körfezi	17.08.1999	17.480	43.953	675.000	15.000.000	13.00
Düzce	12.11.1999	763	4.948	35.000	600.000	75
Afyon-Sultandağı	03.02.2002	42	327	30.000	222.000	
Bingöl	01.05.2003	177	520	520	245.000	10
TOTAL	TOTAL		55.444	972.520	17.954.000	15.36





Developments after Marmara Earthquake – Worldbank as a partner > Establishment of Disaster and Emergency Management Agency • a central coordination and imlementing agency under Prime Minister's Office • restructure and streamline institutional responsibilities for disaster management by consolidating under the Prime Ministry functions until recently spread between three institutions (General Directorates for Emergency Management, Disaster Affairs, and Civil Defense). • legislation on June 2009



Developments after Marmara Earthquake – Worldbank as a partner

* Reconstruction of Buildings

• 14644 housing units,

• 5638 commercial units,

• 25 hospitals / health units,

• 9 schools

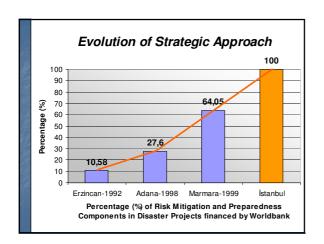
* Change in Disaster Management Paradigm

• from rehabilitation and recovery to mitigation and preparedness

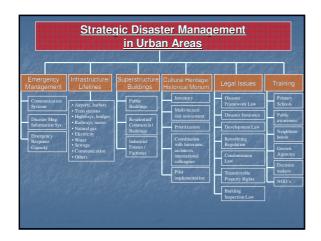












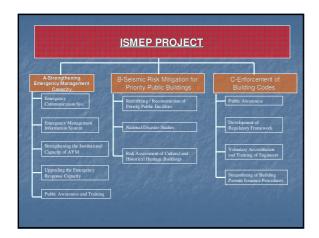








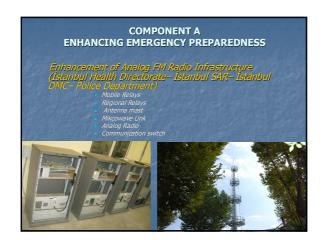












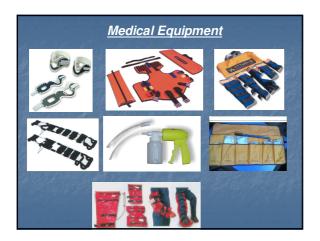


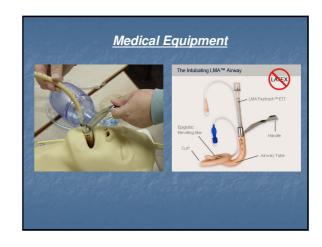


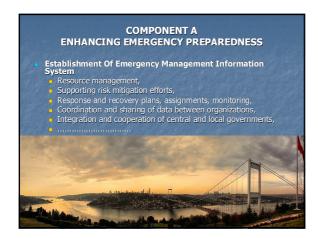










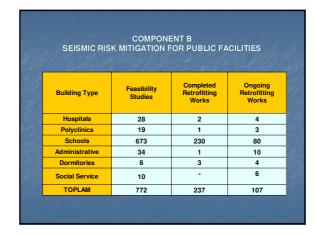


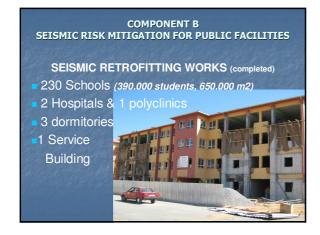








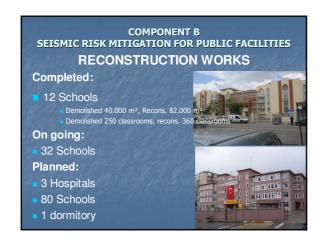




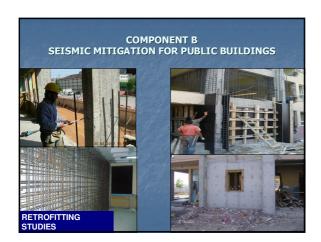
COMPONENT B
SEISMIC RISK MITIGATION FOR PUBLIC FACILITIES

SEISMIC RETROFITTING WORKS (ongoing)

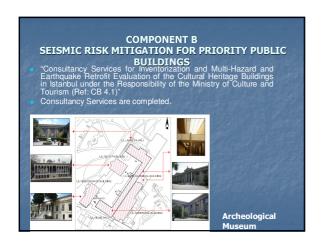
80 Schools
4 Hospitals & 3 polyclinics
4 dormitories
6 Social Service Buildings

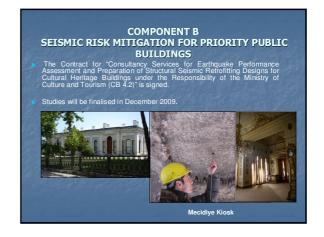












COMPONENT C Building Code Enforcement

Objectives:

- to improve the efficiency of issuance of building permits, ensure transparency in the pilot municipalities
- to undertake practical and restructuring measures by re-engineering activities (on hardware, software, data management and hotline services).
- to monitor the compliance with the building permits and to identify any illegal construction

Project Activities and Works

- 1. Data Collection-Updating and Integration Services
- Optimization of the Functionalities of Development Activities (Document and Archieve Management System, and Call Center Service)
- 3. Supply of Information Technology Infrastructure

COMPONENT C Building Code Enforcement

- Training of approximately 3.000 Civil Engineers – Protocol signed with Ministry of Public Works and Settlement.
 - New Turkish Building Code 2007
 - Vulnerability assessment
 - Damage assessment after disaster

ISMEP PROJECT

Contributions

Prevention of potential loss of life

Mitigation of social, economic and financial effects of a possible earthquake.

A model for the design and implementation of other projects and activities within the field of disaster management.

"WE ARE STRENGTHENING OUR FUTURE"

Thank you.

Governorship of Istanbul
Istanbul Special Provincial Administration
Istanbul Project Coordination Unit (IPCU)
www.ipkb.gov.tr