



Middle East Technical University

Disaster Management Implementation and Research Center

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- DMC was established in November 1997
- First Disaster Management Centre within a university in Turkey
- Under the UNDP cost-sharing project
“Improvement of Turkey's Disaster Management System”.

Objectives:

- Provide consultancy and project support to national and international institutions ,with a multidisciplinary approach for mitigation of natural and manmade disasters.
- Offer seminars, training courses, in-service training to officials or to community groups within the framework of disaster risk management.
- Conduct research, implementation and improvement activities about disaster management.
- Organize scientific and professional meetings for disaster management.

STEERING COMMITTEE

Prof. Dr. Polat GULKAN,

Department of Civil Engineering

Prof. Dr. Nuray KARANCI,

Department of Psychology

Prof. Dr. Melih ERSOY

Department of Urban and Regional Planning

Prof. Dr. Bora ROJAY,

Department of Geological Engineering

Prof. Dr. Mehmet ECEVIT,

Department of Sociology

Prof. Dr. A. Cevdet YALCINER,

Department of Civil Engineering

Asst. Prof. Dr. B. Burcak BASBUG-ERKAN,

Department of Statistics (Director)

What we do:

- Civil-structural engineering-damage assessment (mainly earthquakes)
- Land use and urban planning
- Coastal risk management for tsunami
- Geological aspects of disasters
- Financial Aspects of Disaster Risk Management
- Social and psychological counseling and facilitation of community involvement
- Disaster Risk Management and Education
- Institutional and legal aspects of disasters

- METU-DMC serves as a counsel for many public agencies in matters related to disaster mitigation and policy guidance. These have taken the form of parliamentary hearings, sponsored consultancy research and conferences. We interact with NGOs and other academic institutions in platforms where we have duties dictated by our mission.
- METU-DMC does not offer degree courses or award diplomas.
- BUT in the process of building-up an undergraduate degree program at METU with cooperation with the Turkish Disaster and Emergency Management Authority

Sample Activities

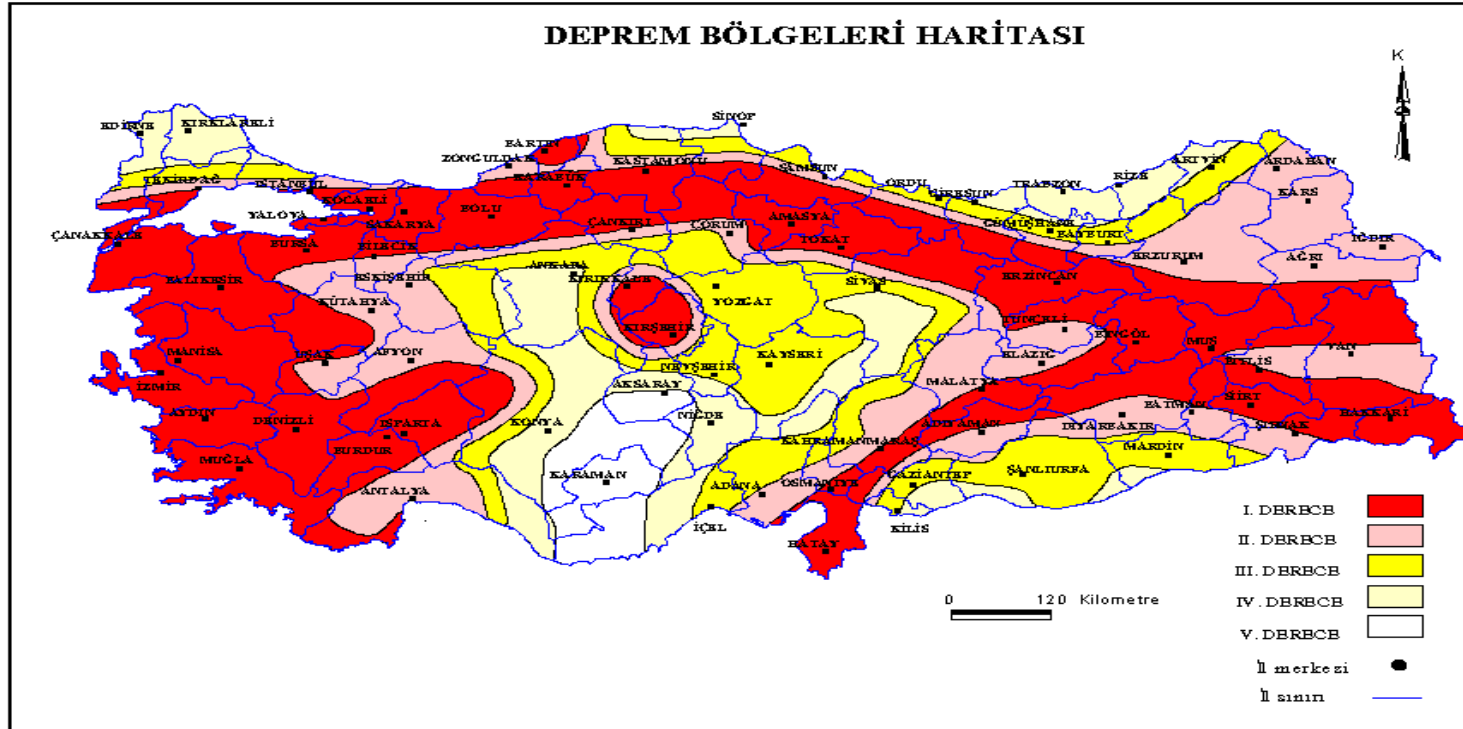
- Collaboration with the World Bank Institute, JICA, ProVention Consortium and UNISDR.
- "Prepare pilot regional plans for disaster management."
- [Online Program on Disaster Risk Management Framework 22/10/2007](#) and 4th year round with new curriculum starts on October 2010
- Partner in education leg of ISMEP (İstanbul Seismic Risk Mitigation and Emergency Preparedness Project)

METU-DMC ANNUAL ROUND TABLE MEETINGS (RTM)

✓ 13. RTM	14 January 2011
✓ 12. RTM	15 January 2010
✓ 11. RTM	16 January 2009
✓ 10. RTM	11 January 2008
✓ 9. RTM	12 January 2007
✓ 8. RTM	20 January 2006
✓ 7. RTM	7 January 2005
✓ 6. RTM	16 January 2004
✓ 5. RTM	28 March 2003
✓ 4. RTM	21 December 2001
✓ 3. RTM	19 January 2001
✓ 2. RTM	16 December 1999
✓ 1. RTM	4 December 1998

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Turkey and Disasters



- 96 % of the total population lives under earthquake risk
- 98 % of those live on the highest degree risk zones
- Mainly EQ, landslides, floods, avalanches, drought and other disasters

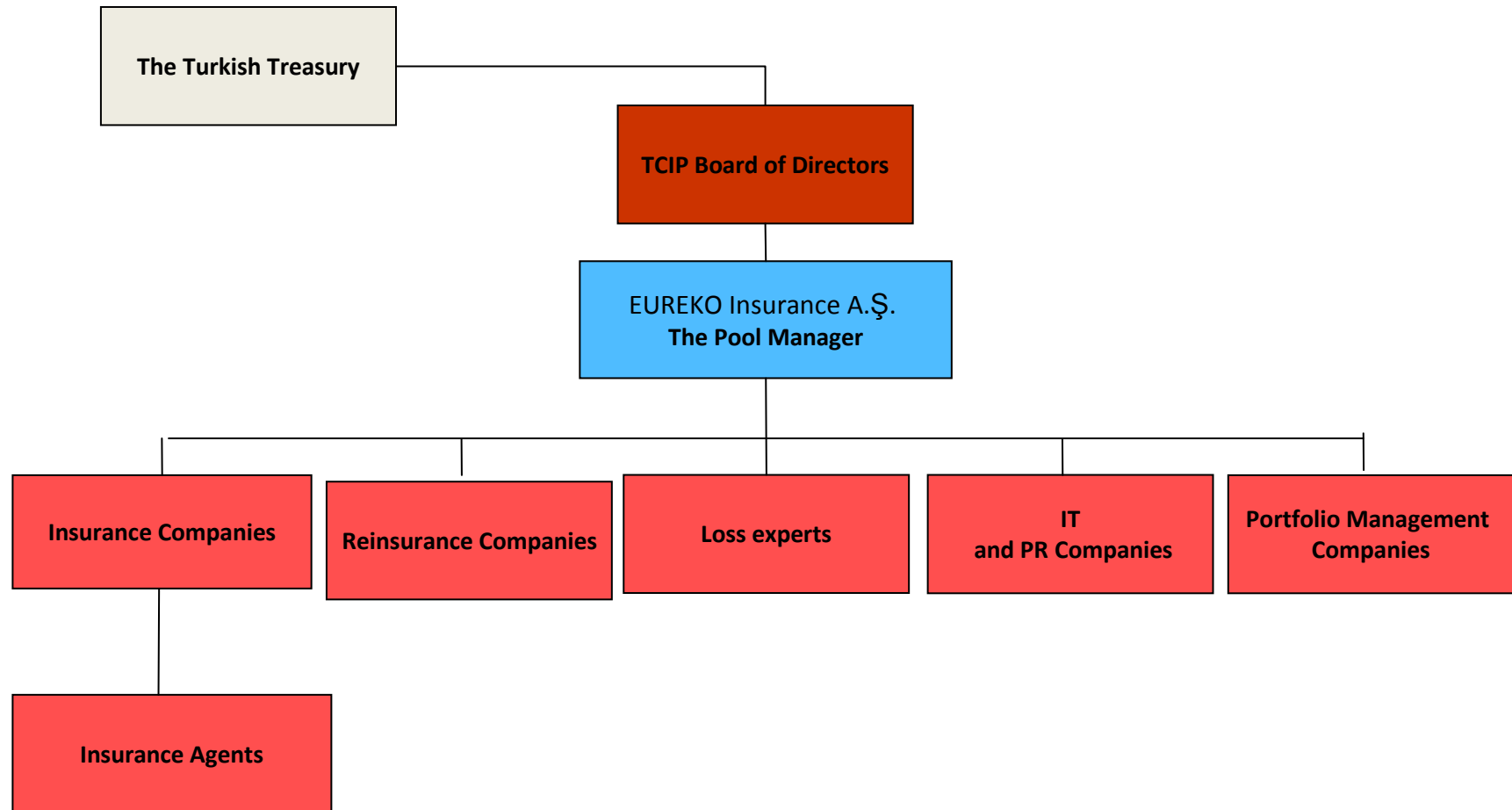
The Turkish Catastrophe Insurance Pool (TCIP)

10th Year

- It has the basis from California Earthquake Authority and New Zealand Earthquake Commission.
- The idea started after 1999 earthquakes---10th year anniversary of 17 August 1999 Marmara EQ
- Started in 27 September 2000 as Decree Law No.587



TCIP Administration



The aim of the TCIP

- Share the burden,
- Pool the risk,
- Spread insurance culture,
- Enforce earthquake resistant construction,
- Reduce the earthquake economic losses on government's budget,

TCIP in Figures

- For updates in Compulsory Earthquake Insurance:
<http://www.tcip.gov.tr/>
- As of 01/08/2010:
 - Total policy number: 3.219.488 million
 - No. of earthquakes with claims: 284
 - Claim files: 10,967
 - Total paid claims: 20.6 million TL (approx. 13.5 million USD)
 - Penetration rate: 24.8 %
 - Payment capacity: 3 billion USD

Compulsory Earthquake Insurance (CEI)

- CEI needs to be proven during deed operations.
- Newly constructed buildings should be in order with the Building Codes.
- CEI policies are valid for 1-year.
- CEI is a cheap insurance, max. 167 TL (110 USD) for a 100 m² in highest degree zone.

Compulsory Earthquake Insurance (CEI)

- CEI has 15 tariffs according to 3 building types (masonry, reinforced concrete and other) x 5 risk zones (EQ risk zone 1 to 5).
- CEI is only available for housing units within municipality borders. It does not cover rural areas.
- The maximum coverage is approximately 100 000 USD in 2010.
- 2 % deductible rate.

The coverage of the CEI

Losses from:

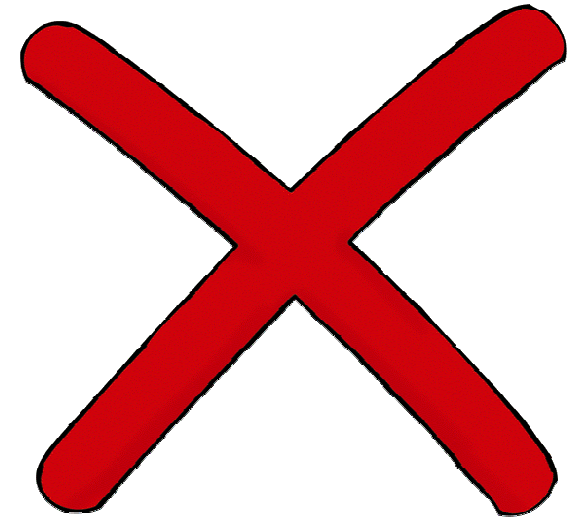
- Earthquake
- Fires following an earthquake
- Explosions following an earthquake
- Landslides following an earthquake



The coverage of the CEI

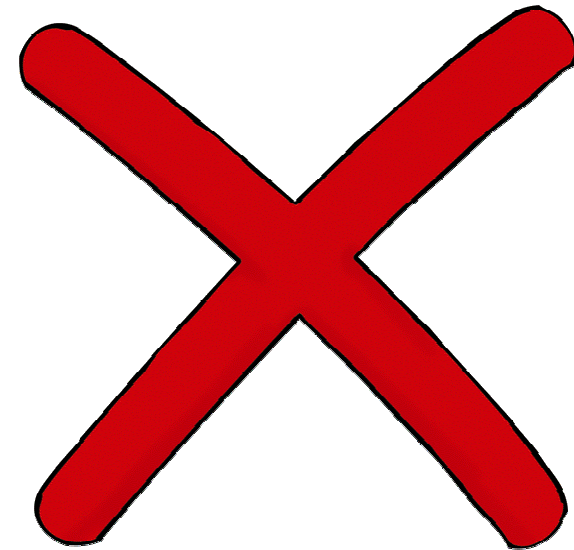
CEI does not cover the following:

- Debris removal
- Profit losses
- Labour stoppage
- Expenses for alternative housing and business
- Rent losses



CEI does not cover the following:

- Financial responsibilities
- Building content
- Body injuries including death
- Moral claims
- All other losses except the ones covered



The Success of the TCIP

- Provided the settlement of the insurance pool idea in Turkey.
- Increased the penetration rate at least 5 times,
in 2009: 26 %, in 2010: 24.8%
- Provides considerably large amount of reserve for earthquake losses independent of Government's budget.
- Pays the claims in 1-month period.
- Plays an important role in public awareness of insurance.

e.g: During the World Cup matches, strong advertisement campaign went on.

Ongoing research

- 1- Joint research on the TCIP claims data modeling by actuarial analysis with Dr. Jiwook Jang of Macquarie University, Sydney
- 2- One MSc. student works on 'Extreme Value Theory application to the TCIP data'
- 3- One MSc. student works on 'Statistical Modeling of the TCIP data'

DON'T DAWDLE!!!

<http://www.tcip.gov.tr/index.htm>

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