

# Contents

<b>Acknowledgments</b> .....	.ix
<b>Introduction</b> .....	.xi
<b>Abbreviations</b> .....	.xv
<b>1. The Making of the Turkish Catastrophe Insurance Pool:</b>	
<b>Risk Reality and Risk Perception</b> .....	.1
Turkey's Exposure to Earthquakes .....	.1
Role of the Government .....	.6
Role of the World Bank .....	.9
Turkish Public Relations and Communications Campaign .....	.11
Turkish Insurance Industry .....	.12
Marmara Earthquake .....	.15
Marmara Earthquake Emergency Reconstruction Project .....	.17
<b>2. Objectives and Design:</b>	
<b>Political Economy and Technical Imperatives</b> .....	.21
Enabling Legal Framework .....	.23
Institutional Structure .....	.24
Earthquake Insurance Coverage Terms and Conditions .....	.31
Risk Financing Strategy .....	.36
<b>3. Operational Logistics and Corporate Financial Framework:</b>	
<b>Key Challenges</b> .....	.43
Economic Environment and the 2001 Financial Crisis .....	.43

Legal Framework .....	44	1.4 Framework of the MEER Emergency Response Loan .....	19
Corporate Governance .....	46	2.1 TCIP Organizational Structure .....	25
Insurance Operations .....	50	2.2 Reinsured Fire Premium, 2000–3 .....	26
Consumer Demand for Earthquake Insurance .....	68	2.3 Reinsurance Pricing Volatility .....	28
4. Future Challenges: Threats and Opportunities .....	75	2.4 Earthquake Hazard Map of Turkey .....	34
Insurance Penetration .....	75	2.5 Average Individual TCIP Insurance Premium .....	35
Risk Management Challenges .....	80	2.6 TCIP Premium Rates for Construction Types A, B, and C, 2000–4 .....	37
Potential Ways Forward .....	82	2.7 TCIP Portfolio Loss Exceedance Curve .....	38
<b>Appendixes</b>		3.1 TCIP Marketing Process .....	54
1. English Translation of Governmental Decree Law No. 587 on Compulsory Earthquake Insurance as Published in Official Gazette No. 23919 (December 27, 1999) .....	87	3.2 Percent of Annual Reinsurance Agreements under the TCIP, Nov. 1–Oct. 31, 2001–5 .....	65
2. International Experience with Catastrophe Funds .....	97	3.3 The TCIP's Current Information Technology System .....	68
<b>Bibliography</b> .....	109	4.1 TCIP Insurance Penetration in Rural Areas, 2001–5 .....	79
<b>Index</b> .....	113	<b>Tables</b>	
<b>Boxes</b>		1.1 Significant Seismic Activity during the Twentieth Century .....	3
1.1 Source of Seismicity in Turkey .....	2	1.2 Economic Direct Loss Potentials .....	6
1.2 Supply- and Demand-Side Failures of Private Disaster Insurance Markets .....	7	1.3 World Bank Emergency Reconstruction Lending in Turkey, 1992–9 .....	10
2.1 Setting TCIP Premium Rates .....	33	1.4 Nonlife Insurance Penetration in Turkey and Selected Countries, 2004 .....	13
2.2 TCIP Reinsurance Tender .....	39	1.5 Selected Economic Indicators for the Marmara Earthquake Region .....	16
3.1 Responsibilities of the TCIP Board .....	49	1.6 Macroeconomic Costs of the Marmara Earthquake .....	17
A2.1 California Earthquake Authority .....	100	2.1 Realized Rates on Line (ROL), Nov. 1–Oct. 30 .....	28
A2.2 New Zealand Earthquake Commission .....	102	2.2 World Bank Contingent Facility .....	29
<b>Figures</b>		2.3 Sum Insured (as of January 1, 2005) .....	32
1.1 Comparison of Aggregate Vulnerability Curves for Residential Buildings and Commercial Constructions in Turkey and Highly Developed Economies .....	4	2.4 Compulsory Earthquake Insurance Premium Rates .....	33
1.2 World Bank Disaster-Related Lending, 1980–2002 .....	11	2.5 TCIP Total Claims-Paying Capacity in Millions of Dollars, 2001–5 .....	39
1.3 World Bank Emergency Lending, 1980–2002 .....	11	3.1 Distribution of TCIP Portfolio by Region .....	55
		3.2 Regional TCIP Insurance Penetration since the TCIP's Inception .....	56

3.3	TCIP Statement of Income, as of October 28, 2004	.61
3.4	TCIP Balance Sheet since the Pool's Inception, 2000-4	.62
3.5	Advertising Campaign and TCIP Participation, 2000-5	.73
A2.1	Government-Sponsored Catastrophe Insurance Programs	.99
A2.2	Catastrophe Program Design Variables	.103
A2.3	Insurance Vehicles	.104
A2.4	Rates Charged and Mitigation Incentives	.106