

2015/FMP/SEM1/009 Session: 5

Overview of Disaster Risk Financing in APEC Economies

Submitted by: OECD

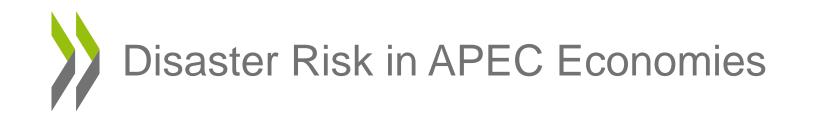


Seminar on Disaster Risk Finance – APEC Roadmap for Resilient Economies Bacolod, Philippines 29-30 April 2015

DISASTER RISK FINANCING IN APEC ECONOMIES

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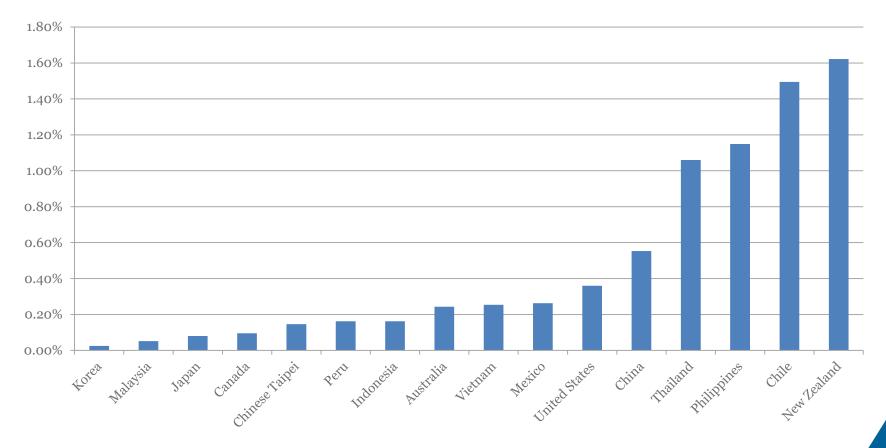
 APEC economies are particularly prone to natural disasters

55% of significant* natural disaster events between 2005 and 2015 occurred in APEC economies causing average annual economic losses of USD 114 billion across APEC economies

* Based on natural catastrophes reported in Swiss Re annual sigma reports.

Economic costs are significant in many APEC economies

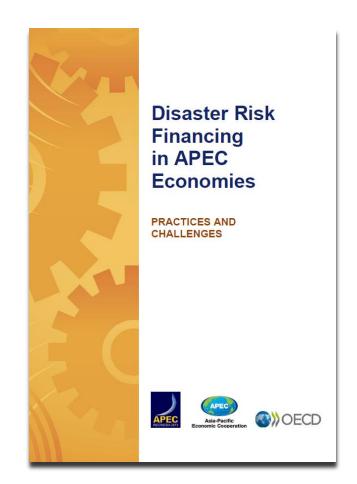
Annual average economic losses* from natural catastrophes as a share of GDP (2005-2014)



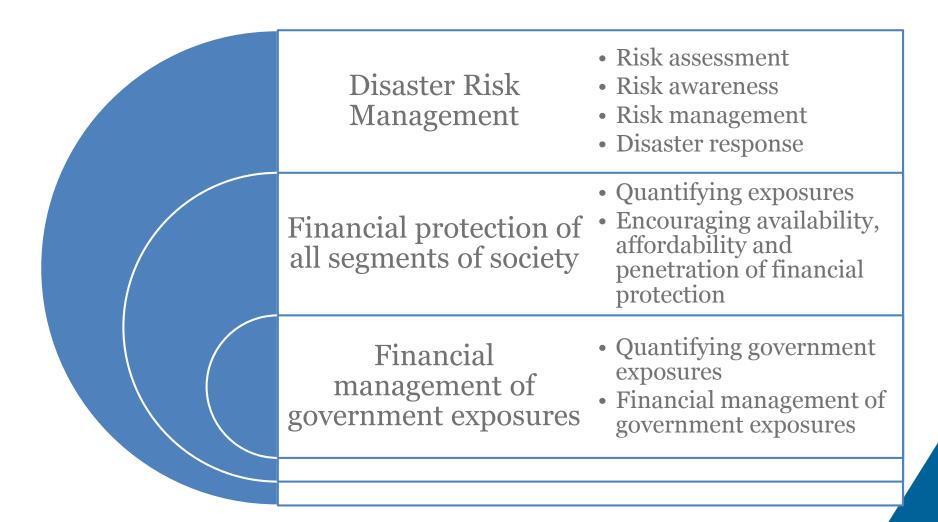
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APEC Finance Minister DRF initiative

 Based on a survey circulated to APEC economies, the **OECD** prepared a report on practices and challenges in disaster risk financing (delivered to APEC **Finance Ministers in** September 2013)



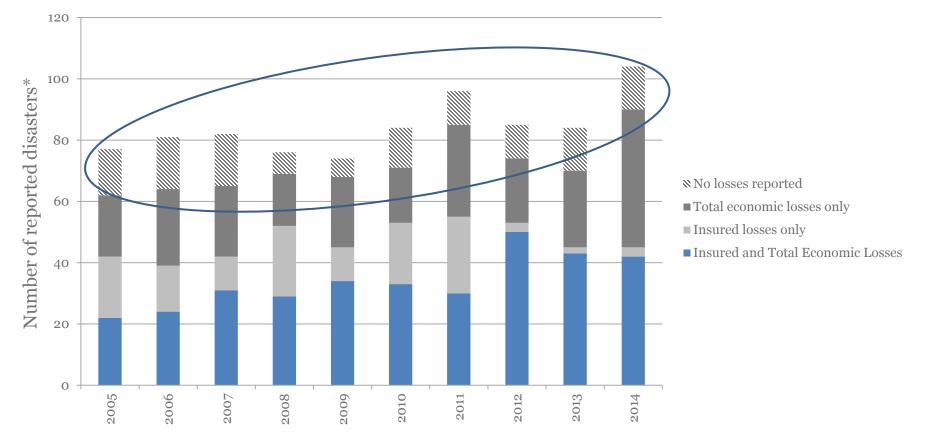
Enhancing financial resilience: the role of disaster risk financing strategies



DRF Practices in APEC: Quantifying exposures

- APEC economies are assessing risks based on:
 - Scenario development
 - Canada's All Hazards Risk Assessment
 - Japan's analysis of potential major events such as Tokyo Inland Earthquake
 - Modelling potential damage and losses
 - Mexico's MultiCat program
 - Estimates of PML in Indonesia, Peru
 - Modelling of risks to public assets in the Philippines
 - US SAFRR models

Comprehensive loss data for quantifying exposures is not always readily available

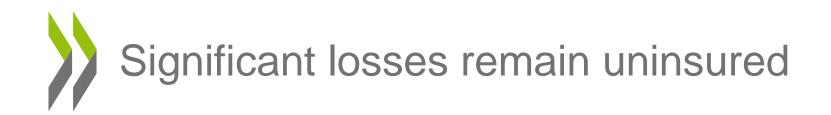


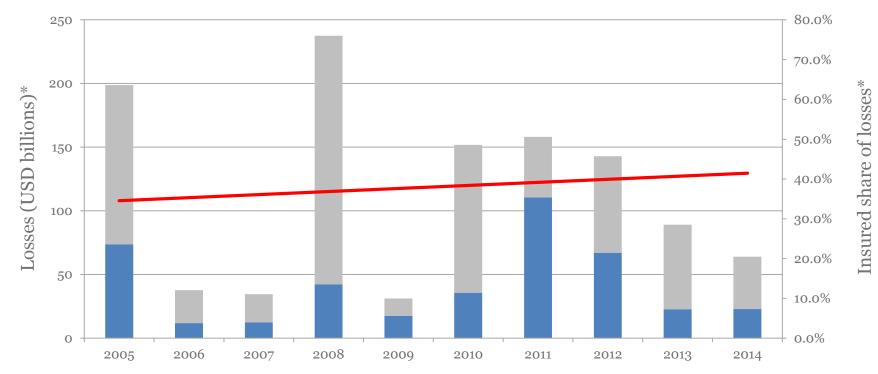
Both insured and total economic losses available for only 40% of all natural disasters in APEC economies while no data is available for 15% of all disasters

*Based on natural catastrophes reported in Swiss Re annual sigma reports.

DRF Practices in APEC: Encouraging financial protection

- APEC economies are encouraging the availability, affordability and penetration of financial protection:
 - Supporting private insurance capacity for highrisk/high-frequency risks (e.g. public (re)insurance schemes (such as JER, NCIP, TREIF, NFIP, EQC) or insurance sector risk pools (such as PT Asuransi MAIPARK)
 - Investing in risk mitigation to support insurability/affordability (e.g. Australia)
 - Enhancing risk awareness and tailoring products to support insurance penetration (e.g. micro-insurance initiatives in Peru (EENIP))





■ Insured Losses ■ Uninsured Losses

While the share of insured losses is increasing...approximately 63% of reported total economic losses in the APEC region were uninsured.

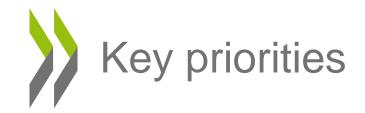
*Based on natural catastrophes reported in Swiss Re annual sigma reports.

Government exposures to disaster risks

- Governments are exposed to disaster risks as a result of:
 - Costs of relief, recovery, and reconstruction of public infrastructure
 - Payments under public compensation and financial assistance arrangements to individuals, business and/or other levels of government
 - Where applicable, exposures to insured losses as a result of public (re)insurance or guarantees
 - Potential residual exposures as a result of unanticipated financial assistance (e.g. unplanned assistance as a result of insufficient financial capacity among other levels of government, financial institutions or particular segments of society)
 - The potential impact of a deterioration in macro-economic conditions

DRF Practices in APEC: Management of government exposures

- A number of economies have entered into arrangements to manage fiscal exposures:
 - Insurance of public assets in some economies
 - Establishment of reserves and access to financing through contingent credit facilities (e.g. Philippines, Peru)
 - Risk transfer arrangements covering fiscal costs in a few economies:
 - Mexico's cat bond and reinsurance arrangements
 - Pacific catastrophe risk insurance pilot



- APEC economies identified a set of key priorities for strengthening financial resilience:
 - Improving the availability and quality of data on hazards, exposures, vulnerabilities and losses
 - Enhancing technical and institutional capacities in disaster management, disaster risk assessment and risk financing
 - Enhancing coordination among stakeholders at the national level and risk assessment at the regional and international levels
 - Improving the resilience of the financial sector to disaster events
 - Promoting awareness of the financial impacts of disasters and the need for financial protection
 - Securing fair, timely and efficient disbursement of funds
 - Fostering the development of DRF markets including insurance, reinsurance and micro-insurance markets
- APEC economies have also stressed the value of strengthened cooperation and knowledge/information exchange among APEC economies on DRF strategies



OECD INSTRUMENTS AND GUIDANCE

OECD COUNCIL RECOMMENDATION ON THE GOVERNANCE OF CRITICAL RISKS

G20/OECD METHODOLOGICAL FRAMEWORK FOR DISASTER RISK ASSESSMENT AND RISK FINANCING (2012)

OECD COUNCIL RECOMMENDATION ON GOOD PRACTICES FOR MITIGATING AND FINANCING CATASTROPHIC RISKS (2010)

OECD POLICY HANDBOOK ON NATURAL HAZARD AWARENESS AND DISASTER RISK REDUCTION EDUCATION (2009)



SELECTED OECD REPORTS

Disaster Risk Financing in APEC Economies: Practices and Challenges (2013)

Catastrophe Financing for Governments, Learning from the 2009-2012 MultiCat Program in Mexico (2011)

Designing Optimal Risk Mitigation and Risk Transfer Mechanisms to Improve the Management of Earthquake Risk in Chile (2011)

Risk Awareness, Capital Markets and Catastrophic Risks (2011)

Financial Management of Large-Scale Catastrophes (2008)

Catastrophic Risks and Insurance (2005)

Large-Scale Disasters: Lessons Learned (2004)



- Publication of global survey report on DRF practices and challenges
- Update of OECD guidance on disaster risk financing (OECD Recommendation on Good Practices for Mitigating and Financing Catastrophic Risks)
- Developing effective approaches
- Report on quantifying catastrophe losses and risk exposures (proposed)

Disaster Risk Financing: A Global Survey of Practices and Challenges

- OECD is building on the report provided to APEC Finance Ministers to publish a global survey of DRF practices and challenges, covering:
 - Assessment of disaster risks, financial vulnerabilities and the impact of disasters (scenario-based assessment and modelling of disaster exposures)
 - Private disaster risk financing tools and markets and the need for financial preparedness (measures to support disaster insurance demand and supply, including public-private partnerships and approaches targeted to vulnerable populations such as small enterprises and farmers)
 - Government compensation, financial assistance arrangements and sovereign risk financing strategies (funding to assist vulnerable populations and sub-national governments and options for managing government exposures)

Update to Good Practices for Mitigating and Financing Catastrophic Risks

- Revised Recommendation likely to focus on two main components of DRF strategies:
 - Effective financial protection of all segments of society
 - Effective financial management of government exposures
- Supported by overarching principles for effective financial management of disaster risks (e.g. integrated DRM framework, attention to incentives)



- APEC Finance Ministers asked IOs to "continue working with APEC member economies in providing capacity building, introducing good practices and identifying effective approaches that will help address key APEC priorities related to DRF."*
- OECD plans to organise a seminar in the fall (October) in Asia to support the development of effective approaches to:
 - managing fiscal risks;
 - supporting the development of disaster insurance markets

Quantifying catastrophe losses and risk exposure (proposal)

- Guidance and case studies on quantifying losses and risk exposures and using this information to support risk transfer
- The completion of this work would require contributions from APEC economies:
 - Completion of a short questionnaire
 - Support for the development of case studies



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