

Institute of Catastrophe Risk Management Eighth International Symposium on Catastrophe Risk Management

MANAGING RISK & RESILIENCE

- Nat Cat Data (Exposure and Loss)

3 - 4 August 2017, Singapore



NatCatDAX Alliance Founding Members:



Symposium Sponsors:



NatCatDAX Consortium Partners:



Opening Session			
0830	Registration and Arrival		
0900	Welcome Greetings Prof Tso-Chien Pan Executive Director, Institute of Catastrophe Risk Management, Nanyang Technological University (NTU) Singapore		Panelists: 1. Mr Bill Churney , President, AIR Worldwide 2. Mr George Attard , International Head, Aon Benfield Analytics Aon Benfield, Singapore 3. Mr Jonathan Paradine , Chief Executive, Renaissance Reinsurance Ltd, Singapore Branch 4. Dr Zuo Huiqiang , Director, International Business of China Re Group; Deputy General Manager, China Re P&C; General Manager, China Nuclear Insurance Pool
0910	Opening Address Prof Bertil Andersson President, Nanyang Technological University, Singapore	1250	Lunch
0920	Opening Address by Guest-of-Honour Mr Ravi Menon Managing Director, Monetary Authority of Singapore, Singapore	Session 2: Nat Cat Data: Industry Experiences and Aspirations I	
0930	Thank You Ceremony and Presentation of Mementos by Prof Bertil Andersson Mementos presented to NatCatDAX Founders & Consortium Partners	1350	Presentation 7 Insurance Development Forum (IDF) – Latest Developments Mr Rowan Douglas CBE ICRM International Advisory Board; CEO Capital, Science & Policy Practice, Willis Towers Watson; Chair, IDF Implementation Group
0950	Presentation 1 Toward a Regional Approach for Disaster Risk Finance in Asia Dr Olivier Mahul Global Lead, Disaster Risk Finance, World Bank Program Manager, Disaster Risk Financing and Insurance Program, World Bank	1410	Presentation 8 NatCatSERVICE: New Online Nat Cat Loss Analysis Tool - New Insights on Trends derived from Normalized Losses Prof Peter Höeppe Head, Geo Risks Research/Corporate Climate Centre, Munich Re, Germany
1010	Presentation 2 A Liveable and Sustainable City is a Resilient City Mr Khoo Teng Chye Executive Director, Centre for Liveable Cities, Ministry of National Development (MND), Singapore	1430	Presentation 9 Confronting the Challenges of Disaster Risk Reduction and Resilience in Taiwan Dr Tseng Sheng-Bao Chairman, Sinotech Engineering Consultants Inc, Taiwan
1030	Morning Refreshment	1450	Presentation 10 Data - the Cornerstone of Risk Management & Resilience Mr Hemant Nagpal Director, Model Product Management, RMS, Singapore
Session 1: Risk Management and Resilience Building - Data Needs		1510	Panel Discussion 2: Panel Chairman: Mr Michael Gourlay Chief Executive Officer, Mitsui Sumitomo Insurance Group, Singapore (Pte) Ltd Panelists: 1. Mr Rowan Douglas CBE , ICRM International Advisory Board; CEO Capital, Science & Policy Practice, Willis Towers Watson; Chair, IDF Implementation Group 2. Prof Peter Höeppe , Head, Geo Risks Research/Corporate Climate Centre, Munich Re, Germany 3. Dr Tseng Sheng-Bao , Chairman, Sinotech Engineering Consultants Inc, Taiwan 4. Mr Hemant Nagpal , Director, Model Product Management, RMS, Singapore
1100	Presentation 3 How Insurance-Linked Securities Can Support the Asia-Pacific Region: Role of Catastrophe Models, Exposure and Loss Data Mr Bill Churney President, AIR Worldwide	1540	Afternoon Refreshment
1120	Presentation 4 Innovation, Agility and Resilience Mr George Attard International Head, Aon Benfield Analytics, Aon Benfield, Singapore	Session 3: Nat Cat Data: Industry Experiences and Aspirations II	
1140	Presentation 5 Certainty in an Uncertain World Mr Jonathan Paradine Chief Executive, Renaissance Reinsurance Ltd, Singapore Branch	1610	Presentation 11 Regulators, Climate Change and Natural Disaster Losses Dr Ryan Crompton Director, Modelling and Research Solutions, Risk Frontiers, NSW, Australia
1200	Presentation 6 China CAT Insurance Programs and Cat Bond Practice Dr Zuo Huiqiang Director, International Business of China Re Group Deputy General Manager, China Re P&C General Manager, China Nuclear Insurance Pool	1630	Presentation 12 Data Perspectives for Assessing Nat Cat Risk Dr Nigel Winspear Head of Model Development and Evaluation, SCOR Global P&C, Singapore
1220	Panel Discussion 1: Panel Chairman: Prof Tso-Chien Pan Executive Director, Institute of Catastrophe Risk Management, NTU, Singapore		

Day 01 | 3rd August 2017

1650 **Presentation 13**
Use Cases of Industry Data
 Mr Iain Reynolds
 Director, Head of Analytics,
 Peak Reinsurance Company Ltd, Hong Kong

1710 **Presentation 14**
AIG Exposure Analytics
 Mr Shitalkumar R Khandar
 Regional Catastrophe Management Leader – Asia
 Pacific & Catastrophe Manager – Global Construction,
 AIG Singapore

1730 **Panel Discussion 3**
 Panel Chairman: Dr Pane Stojanovski
 Adjunct Professor, ICRM, NTU, Singapore
 Founder, Cat Risk Research, USA

Panelists:

1. **Dr Ryan Crompton**, Director, Modelling and Research Solutions, Risk Frontiers, NSW, Australia
2. **Dr Nigel Winspear**, Head of Model Development and Evaluation, SCOR Global P&C, Singapore
3. **Mr Iain Reynolds**, Director, Head of Analytics, Peak Reinsurance Company Ltd, Hong Kong
4. **Mr Shitalkumar R Khandar**, Regional Catastrophe Management Leader – Asia Pacific & Catastrophe Manager – Global Construction, AIG Singapore

1800 Cocktail Reception (Veranda Ballroom I)

Day 02 | 4th August 2017

Session 4: Exposure and Loss Data Development – Regional Experiences

0830 Registration and Arrival

0850 **Presentation 15**
Developing a Regional Disaster Loss Database for ASEAN: Challenges and Opportunities
 Dr Marqueza L. Reyes
 Team Leader, ASEAN Disaster Risk Financing and Insurance Programme, Indonesia

0910 **Presentation 16**
INARISK- Indonesia Disaster Risk Assessment Portal and Tools for Monitoring Disaster Risk Reduction Activities
 Mr Lilik Kurniawan
 Director for Disaster Risk Reduction, National Disaster Management Agency, Indonesia

0930 **Presentation 17**
Cat Data Acquisition and Innovative Product Creation: Indonesia Insurance Industry Perspectives
 Mr Fiza Wira Atmaja
 Group Head of Research, Development and Innovation, PT Reasuransi MAIPARK, Indonesia

0950 **Presentation 18**
PERILS Experience in Australia
 Mr Darryl Pidcock
 Head of PERILS Asia-Pacific, Australia

1010 **Panel Discussion 4:**
 Panel Chairman: Dr Olivier Mahul
 Global Lead, Disaster Risk Finance, World Bank
 Program Manager, Disaster Risk Financing and Insurance Program, World Bank

Panelists:

1. **Dr Marqueza L. Reyes**, Team Leader, ASEAN Disaster Risk Financing and Insurance Programme, Indonesia
2. **Mr Lilik Kurniawan**, Director for Disaster Risk Reduction, National Disaster Management Agency, Indonesia
3. **Mr Fiza Wira Atmaja**, Group Head of Research, Development and Innovation, PT Reasuransi MAIPARK, Indonesia
4. **Mr Darryl Pidcock**, Head of PERILS Asia-Pacific, Australia

1040 Morning Refreshments

Session 5: Hazard Assessment and Data Needs

1100 **Presentation 19**
Towards an Integrated Assessment of Coastal Flood Risk in Southern China
 Prof Adam Switzer
 Associate Professor, Associate Chair,
 Asian School of the Environment,
 Nanyang Technological University, Singapore

1120 **Presentation 20**
Projected Changes in Rainfall Extremes in Southeast Asian Cities: Implications for Flood Risk Assessment
 Dr Pradeep Mandapaka
 Senior Research Fellow,
 Institute of Catastrophe Risk Management,
 Nanyang Technological University, Singapore

1140 **Presentation 21**
Future Projections of Intensity of Tropical Cyclones Making Landfall in South China
 Prof Johnny Chan
 Chair Professor of Atmospheric Science
 Director, Guy Carpenter Asia-Pacific Climate Impact Centre, City University of Hong Kong

1200 **Presentation 22**
Agricultural Losses Report on Taiwan Natural Disaster
 Prof Shu-Ling Chen
 Associate Professor, Dept of Finance and Cooperative Management, National Taipei University
 Deputy Director, Socio-Economic Dept, APEC Research Center for Typhoon & Society, Taiwan

1220 **Panel Discussion 5:**
 Panel Chairman: Assoc Prof Edmond Lo
 Deputy Director, Institute of Catastrophe Risk Management, NTU, Singapore

Panelists:

1. **Prof Adam Switzer**, Associate Professor, Associate Chair, Asian School of the Environment, Nanyang Technological University, Singapore
2. **Dr Pradeep Mandapaka**, Senior Research Fellow, Institute of Catastrophe Risk Management, Nanyang Technological University, Singapore
3. **Prof Johnny Chan**, Chair Professor of Atmospheric Science; Director, Guy Carpenter Asia-Pacific Climate Impact Centre, City University of Hong Kong
4. **Prof Shu-Ling Chen**, Associate Professor, Dept of Finance and Cooperative Management, National Taipei University
 Deputy Director, Socio-Economic Dept, APEC Research Center for Typhoon & Society, Taiwan

1250 Lunch

Session 6: NatCatDAX Developments - Exposure & Loss Attributes

1350 **Presentation 23**
Extracting Economic Exposure Data for Insurance Industry in Urban Area by Using High-Resolution Satellite Imagery Technology
 Dr Thomas Cheng
 Deputy Director,
 Disaster Prevention Technology,
 Sinotech Engineering Consultants Inc, Taiwan

1410	<p>Presentation 24 Towards 3-D Building Model Reconstruction from HRSI data Prof Jiann-Yeou Rau Associate Professor, Department of Geomatics, National Cheng Kung University, Taiwan</p>
1430	<p>Presentation 25 Automated Harvesting of Loss and Damage Information from Open Sources Dr Mao Kezhi Associate Professor School of Electrical and Electronic Engineering Nanyang Technological University, Singapore</p>
1450	<p>Presentation 26 Improved Insights on Cat Risk using NatCatDAX Data Mr Sastry Dhara Programme Manager - NatCatDAX, Institute of Catastrophe Risk Management, Nanyang Technological University, Singapore</p>
1510	<p>Presentation 27 Improved Seismic Loss Estimates using High Resolution NatCatDAX Data Dr Wenqi Du Senior Research Fellow, Institute of Catastrophe Risk Management, Nanyang Technological University, Singapore</p>
1530	<p>Panel Discussion 6: Panel Chairman: Mr Hemant Nagpal, Director, Model Product Management, RMS, Singapore</p> <p>Panelists:</p> <ol style="list-style-type: none"> 1. Dr Thomas Cheng, Deputy Director, Disaster Prevention Technology, Sinotech Engineering Consultants Inc, Taiwan 2. Prof Jiann-Yeou Rau, Associate Professor, Department of Geomatics, National Cheng Kung University, Taiwan 3. Dr Mao Kezhi, Associate Professor, School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 4. Mr Sastry Dhara, Programme Manager - NatCatDAX, Institute of Catastrophe Risk Management, Nanyang Technological University, Singapore 5. Dr Wenqi Du, Senior Research Fellow, Institute of Catastrophe Risk Management, Nanyang Technological University, Singapore
1600	<p>Closing Remarks Prof Tso-Chien Pan Executive Director, Institute of Catastrophe Risk Management, Nanyang Technological University, Singapore</p>
1610	Afternoon Refreshment
1630	End

