

TCC.3 Managing Operational Risk in Road Operations

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Natural Disasters and Man-made Disasters

- Natural Disasters:
 - Hurricanes, Flooding, Tornadoes, Drought, Wildfires, Earthquakes, Tsunami, Volcanoes, Landslides, Ice storms, Climate change
- Man-made Disasters:
 - Oil and chemical spills, Building fires, Traffic accidents, Explosions, Terrorism



Issues for TCC.3

- 1) Introduce Risk Management Techniques in the Road Sector
- 2) Risks Associated Natural Disasters, Climate Change, Man-made Disasters and Security Threats
- 3) Social Acceptance of Risks and Their Perception



TCC.3 Meetings and International Seminars

- 1) 1st meeting, 22 participants, Paris
- 2) 2nd meeting, 28 participants, Madrid
- 3) 3rd meeting, 30 participants, Vancouver
- 4) 4th meeting, 32 participants, and 1st Intenational Seminar, 140 participants, Iasi, Romania
- 5) 5th meeting, 35 participants, Rome
- 6) 5th meeting, 30 participants, and 2nd Intenational Seminar, 190 participants, Beijig
- 7) 7th meeting, Osaka was cancelled due to the Great East Japan Earthquake

1st International Seminar, Iasi, Romania





Opening Session,

The seminar was held at lasi city hall.



2nd International Seminar, Beijing, China





Opening Session,

Participants of the seminar



Final Reports

- 1) Summary Report
- 2) WG1 Report
- 3) WG2 Report
- 4) WG3 Report
- 5) Two Seminar Reports
- 6) Results of International Survey

Many best practices/ case studies of RM are collected from all over the world



TCC.3 Session PART 1

"Introduce Risk Management Techniques in the Road Sector"

"Overview of the WG #1 final report"
Mr. Johan HANSEN, Swedish Transport Administration, Sweden

"Proactive risk management in winter maintenance", Mr. Kai Tattari, The Centre for Economic Development, Transport and Environment for Uusimaa, Finland

"Hazard based approach to the management of operational safety risk on highways schemes", Mr. Ryszard Gorell, Export House, Cawsey Way, Working, Survey, UK

[Discussion]



TCC.3 Session Part 2

- "Risks Associated with Natural Disasters, Climate Change, Man-made Disasters and Security Threats"
 - "Overview of the WG #2 final report"Ms. Connie YEW, Federal Highway Administration, USA
- "The Great East Japan Earthquake Disaster", Dr. Keiichi Tamura, Public Works Research Institute, Japan
- "Managing Risks Associated with Climate Change in Road Sector", Mr. Gustavo Moreno, Seguros Especializados, Mexico
- "Natural risk assessment in Chilean road network", Mr. Tomas Echaveguren, Dept. of Civil Eng. Univ. of Concepcion, Chile
- "Landslide Hazard and Risk Assessment, Management and Mitigation for the Scottish Road Network", Mr. M. G. Winter, Transport of Research Laboratory, UK

[Discussion]



TCC.3 Session Part 3

"Social Acceptance of Risks and Their Perception"

"Overview of the WG #3 final report" Mr. Roberto ARDITI, SINA S.p.A., Italy

"UN Millennium Development Goals and transport policies: how risk assessment and measures for road safety could play a rewarding role for regions with economies in transition", Ms. Luciana Iorio, Italian Ministry of Infrastructures and Transports, Italy

[Discussion]

