UNISDR Science and Technology Conference
Mobilizing science to implement the Sendai Framework
27-29 January 2016
Geneva, Switzerland

Work stream 3: Use of science, technology and innovation tools, methods and standards to support the implementation and reporting of Sendai Framework

1. Mental Health Care Professionals’ Capacity to Deliver Services During Recovery
   Sarbjit Johal, Joint Centre for Disaster Research, Massey University / GNS Science, Wellington, New Zealand

2. Use of science and research to support the implementation of Sendai Framework in Malaysia
   Muhammed Fathi Yusof, University of Technology Malaysia

3. Addressing the science and technology needs of city governments for SFDRR implementation: Insights from Shimla Municipal Corporation in the Indian Himalayas
   Komal Gokalbhai Kantanya, United Nations Development Programme (UNDP)

4. “Disaster Loss Data” – A global metric for implementing the Sendai Indicators and reducing disaster risk.
   Daniele Ehrlich, European Commission - Joint Research Centre

5. Researching psychosocial interventions in the aftermath of disasters: The “All Right?” Campaign: A social marketing campaign for well being.
   Alistair Humphrey, Canterbury District Health Board

6. Rapid RIsq Analysis with the RASOR Platform
   Roberto Rudari, CIMA Research Foundation

7. Mainstreaming as a key concept to achieving urban resilience
   Fouad Bendimerad, EMI (Earthquakes and Megacities Initiative)

8. Downward Vertical Evacuation for Disabilities People from Tsunami using Escape Bunker Technology
   Haris Rahadiano, Electronics Engineering Polytechnic Institute of Surabaya

9. Data Integration and Analysis System (DIAS) for Disaster Risk Reduction
   Akiyuki Kawasaki, The University of Tokyo

10. Mobilizing Science, Evidence and Technology for the Sendai Framework
    Julie Calkins, UK Collaborative on Development Science

11. Calculation and analysis of tidal forces of the Moon and the Sun acting on the body mass of a given considering the Earth’s rotation
    Vladimir Kochnev, Institute of Computational Modeling of Siberian Branch of the Russian Academy of Sciences

Development of a remote simulation training system for nurses responding to disaster
Sanoe Mashino, University of Hyogo

Assessing Landslide Hazard and Susceptibility for Early Warning in Papua New Guinea
Joanne Robbins, MET Office of the UK

Quantifying ecosystem services for disaster risk reduction – research from the EPIC project
Karen Sulmeier-Rieux, University of Lausanne

Monitoring for ensured communicable disease control on evacuation site by local nurses (EpiNurse) in Nepal
Sakiko Kanbara, University of Kochi

Environmental disaster protection from textile sludge: A biotechnology based approach
Romana Siddique, BRAC University

Improving Water Quality in Kiribati with Solar Disinfection (SODIS)
Juliana Ungaro, Pacific Community - Geoscience Division

Property flood resilience and its role in disaster mitigation
Stephen Garvin, BRE

Using research findings to produce international standards in disaster risk reduction
Duncan Shaw, Manchester University

START DEPR Linking Preparedness Resilience and Response in Emergency Context (LPRR)
Rebecca Murphy, Christian Aid

GIS Technology enhances disaster resilience and disaster risk reduction
Carine Yi, Tohoku University

National risk data sharing platform for participative governance
Roland Nussbaum, Mission Risques Naturels (MRN)

The Pandemic Survival Roadshow: Improving health literacy and emergency preparedness through a transportable, low cost exhibition in Canterbury, New Zealand
Alistair Humphrey, Canterbury District Health Board

Improving global capacity in earthquake risk assessment
Vitor Silva, Global Earthquake Model

Community Solidarity in Disasters Response: An aspect for enhance community resilience.
Jane Clambele Souza da Silva, Federal University of the Rio Grande do Norte - UFRN

Free geoinformatics – for disaster risk reduction and sustainable development applications: examples from Sierra Leone and Sri Lanka
Richard Tewu, University of Portsmouth

Data Scientists to the Rescue: An Example of Effective Collaboration Between University-Based Data Scientists and SAR Reconnaissance Teams
Steven Reece, Oxford University

Social Dimensions of Technological Disasters: Findings from the UNU-IAS Fukushima Global Communication Programme
Akiko Sato, United Nations University Institute for the Advanced Study of Sustainability

Higher Education and Disaster Risk Reduction Capacity Building: Insights from an independent evaluation of Periperi U
Aiisa Halloway, Research Alliance for Disaster and Risk Reduction

Capacity Building for Application of Disaster Risk Reduction Technology at Community Level of Bangladesh
Zahural Karim, Center for Agriresearch and Sustainable Environment & Entrepreneurship Development

Disaster Evaluation Typologies
Diana Wong, Monash University

Disaster preparedness for energy ~ water ~ waste Resilience with geo-spatial statistics
Salil K Sen, Asian Development Bank

Ethics case studies to build people’s resilience for disasters
Dónal O’Mathúna, Dublin City University

Leveraging the built environment professional skills and needs to Sendai framework: community’s perspective
Srinath Perera, Northumbria University

Effectiveness of Participatory Community-based Program on Preparation, Response and Recovery from the 2014 Flood Episodes in Kuala Krai, Kelantan, Malaysia.
Zailina Hashim, Universiti Putra Malaysia
S&T achievements, from the perspective of an association acting as operator of the national DRR platform, to support the implementation of SFDRR objectives
Roland Nussbaum, Mission Risques Naturels (MRN)

The contribution of benchmarks and ongoing evaluation to early-warning preparedness and risk reduction of communicable diseases
Bruna Adini, Ben-Gurion University of the Negev

PEARR (Preparing for Extreme And Rare events in coastal regions) - Arabella Fraser, King’s Centre for Integrated Research on Risk and Resilience

Modelling of Sea-level Rise, Inundation and Effects on the Bonriki Freshwater Lens, Tarawa, Kiribati
Amandine Bosserelle, Pacific Community - Geoscience Division

Role of Science and Technology in Reducing Flood Disaster Risk in the District of Bab El Oued in Algiers (Algeria)
Djillali Benouar, University of Science and Technology Houari Boumediene (USTHB)

3Ds (Digital humanitarians, Diasporas and Drones) during disasters: A lesson from Nepal’s earthquake
Uttam Babu Shrestha, University of Southern Queensland

Simulated Triage Training by Mobile in Emergency Technicians
Seyed Habibollah Kavari, University of Social Welfare and Rehabilitation Sciences (USWR), Tehran, Iran

Weather Modification Application for Disaster Risk Reduction
Leond Sorokin, Peoples’ Friendship University of Russia

A global database of flood protection standards
Paolo Scuassolini, Vrije Universiteit Amsterdam

Assessing national seismic risk with the OpenQuake suite of tools
Vitor Silva, Global Earthquake Model

Visualization Platform and apps for smart phones for communicating water related risks and assessing authorities’ performance: case study of Mexico City
Fabiola Sosa-Rodriguez, Metropolitan Autonomous University

Multi-disciplinary science and scenario to support the Sendai Framework. The SAFRR tsunami scenario as a model.
Deborah Brosnan, Brosnan Center

Decision Support and Data Discovery for Improved Hazard Analysis and Disaster Response
Margaret Glasscoe, Jet Propulsion Laboratory, California Institute of Technology

Use of the Disaster Logic Model in the Design and Evaluation of Relief/Recovery and Risk-Reduction Interventions
Marvin Birnbaum, University of Wisconsin School of Medicine and Public Health

What are the knowledge gaps in global civil society for disaster risk perceptions? Insights from a global online training program
Emily Ying-Yang Chan, Collaborating Centre for Oxford University and CUHK for Disaster and Medical Humanitarian Response (CCOUC), The Chinese University of Hong Kong

Local Challenges and Opportunities for DRR Science after Sendai: the View from the Bottom
Eric Lindquist, Policy Research Center, Boise State University

Integration of Provenance-enabled Crowdsourced Information with Traditional Disaster Management Information using Linked Open Data
Werner Leh, University of São Paulo

Strengthening Quality of Health Action in Humanitarian Relief through Online Library. Experiences from two years online.
Karín Geffert, Medical Mission Institute

TSunami Inundation Modelling of Tongatapu, Kingdom of Tonga
Herve Damiani, Pacific Community - Geoscience Division

The EDEN Toolbox of Toolboxes: a new approach to integration, connection and data fusion applicable to disasters and climate change events
Brigitte Serreault, Airbus Defence and Space SAS

Cleaning up Afterwards. The UK Recovery Handbook for Biological Incidents
Thomas Pottage, Public Health England

What constitutes a global baseline for worldwide casualties from catastrophes?
Marie Pears-Piggott, RMS

Understanding Disaster Response from Information Flow: Text Mining Analysis of Crowdsourced Disaster Reports in Project Agos and ebayanhan
Maria Regina Justina Estuar, Ateneo de Manila University

Post-disaster Emergency Communication for School Evacuation Shelters: A Spatial Analysis of the Sendai Municipal Disaster Prevention Radio System
Takashi Oda Miyagi, University of Education, Sendai

Integrating Geospatial Information and Local Adaptation for Reducing Climate Related Agricultural Risk (Implementation of SFDRR in Indonesia, 2015)
Sudiyakto, Chairman of the Indonesian Disaster Expert Association, National Agency for Disaster Management (BNPB) - Indonesia; Professor in Hydrology, Faculty of Geography, Gadjah Mada University-Indonesia

New Technology for Field Collection of Medical and Disaster Data
Philip Gaffney, L2S2 Ltd

Developing Science Policy Interfaces in Disaster Risk Management: experience in the EU
Tom De Groeve, European Commission - Joint Research Centre

Post-disaster Emergency Communication for School Evacuation Shelters: A Spatial Analysis of the Sendai Municipal Disaster Prevention Radio System
Takashi Oda, Miyagi University of Education, Sendai

WHO’s policies and guidance on evidence-based guideline development and research: models for strengthening science and evidence for disaster risk management
Jonathan Abrahams, World Health Organization

Post-Research Ethics Audit (PREA) for Health Research in Humanitarian Crises
Dónal O’Mathúna, Dublin City University

Design for disaster and rescue; a challenge for architects and designers
Noemi Bitterman, Technion

Resilience through investing in ecosystems – knowledge, innovation and transformation of risk management (RELIEF Kit)
Naoya Furuta, IUCN - International Union for Conservation of Nature

The role of science in innovation for the emergency sanitation sector
Yoke Pean Thye, Bandung Institute of Technology

Preparedness of Aceh Search And Rescue (SAR) Team in Handling The Earthquake And Tsunami
Azwar Hamidi, Community Emergency and Disaster Management Specialist

The Glasgow Game: The Challenges of Developing a Truly Shared Resilience Vision
Eleanor Murtagh, University of Strathclyde

NOU PARE : reducing vulnerability through children participation and integration of the civil society of Haiti
Guerty Aimé, Terre des Hommes Suisse, Haiti

Disaster Risk Reduction: Socio-Ecological Urbanism
Nuha Eltinay, Arab Urban Development Institute (AUDI)

The role of The University of the South Pacific in building capacity for disaster risk reduction in the Pacific Region: Special focus on the EU-PacTVET project
Helene Jacot Des Combes, The University of the South Pacific

Best Innovative technique in EM precursory as early warning for Earthquakes forecasting f High Magnitude through Satellite imagery of NOAA and JPS Australia
Umesh Prasad Verma, Patna University
International Savanna Fire Management Initiative

Sam Johnston, The United Nations University Institute for the Advanced Study of Sustainability (UNU-IAS)

Innovative tools and effective scheme to support establishing effective disaster damage and loss database -Strategy of Global Centre for Disaster Statistics-

Yuichi Ono, International Research Institute of Disaster Science, Tohoku University

Forecasts for triggering humanitarian action: science to support the Forecast-based Financing pilot projects

Liz Stephens, University of Reading

The Use of Multirotor and Fixed Wings UAVs to Assess Damage Generated by Tropical Cyclone Pam (Category 5) in Vanuatu 2015.

Herve Damlamian, Pacific Community - Geoscience Division

Strengthening the Collaboration Between Scientists and Civil Protections in DRR: The Example of the VeTOOLS Project

Joan Marti Molist, Group of Volcanology, Institute of Earth Sciences Jaume Almera, CSIC, Barcelona, Spain

Building Resilience through climate information in Burkina Faso and Ethiopia

Sophie Rigg, King’s College London

Disaster Risk Governance in Bangladesh to Manage River Flood risk

Md. Salimul Alom Shahin, TU Dortmund, Germany

Detection of water based Bisphenol A using real-time microwave sensing

Mohammad Rusell, Dalian University of Technology

The Socioeconomic Component of OpenQuake: Assessing Earthquake Risk using the Integrated Risk Modelling Toolkit

Christopher Burton, Global Earthquake Model (GEM) Foundation

Disaster Mental Health Risk Reduction – An Upstream Paradigm Shift for Disaster Mental Health

Lennart Reifels, University of Melbourne / Free University of Berlin

Work stream 4: Leveraging science through capacity development and research

Building a Culture of Resilience through Cyberbased Technologies

Ahsan Kareem President, International Association for Wind Engineering

Making advances in science and technology available for Disaster Risk Reduction planning in middle and low-income countries.

Christopher Wardle, GEM Foundation

System Enabled Real-Time Coordinated Decision Making in Crisis and Emergency Management Using the Sendai Framework

Alexis Amaye, University College Cork, Centre for Security and Emergency Management

Projections, Prospects, and Challenges of the Community data

Shabana Khan, International Social Science Council

Trends in science and technology for Disaster Risk Reduction and the implementation of the Sendai Framework 2015-2030: a case study-based analysis

Amina Abtsi-Selmi, Public Health England

Measuring Disaster Resilient Communities: A Case Study of 43 Coastal Communities in Aceh and on Nias Island, Indonesia

Shesh Kafle Disaster and Climate Change Study Centre, Nepal (DCCSC Nepal)

Strengthening adaptation and resilience to climate variability and change in Kenya

Nyree Pinder, Met Office

Sow Seeds of Change: Local Best Practices in Disaster Risk Reduction Efforts

Exaltacion E. Lamberte, De La Salle University-Manila

WHO/WWRP HiWeather project to harness global science for better local warning systems

Brian Golding, Met Office

In the Heat of the Moment: Scientists, Scientific Risk and Expertise during Disasters and Hazard Events.

Deborah Brosnan, Brosnan Center

Governance & advanced regionalism: keys to integrated risk management in Morocco

Abdeslam Badre Mohammed, V University of Rabat

Reducing Flood Disaster Risk using Participatory Mapping as Capacity Building

Haris Rahadiano, Electronics Engineering Polytechnic Institute of Surabaya

The Influence of Civil Society in Negotiation Processes at the United Nations: the Case of the Women’s Major Group on the Sendai Framework for Action

Leah Kimber, UNIGE

Advancing the Understanding of Creeping Disasters for Resilience Building in Africa: The Role of Partnerships and Capacity Building through BRACED in Uganda

Shaule Libasa, Makerere University

Leveraging Science and Policy on Disaster Risk Reduction through Regional Networks – A Case Study

Snezana Krstic