

# Towards More Resilient Communities

## 3rd UC Lifeline Week

Rome: 20, 21, 22 April 2015 |  
L'Aquila: 23 April 2015 | Naples: 24 April 2015



## Resilient Infrastructures for Resilient Cities & Communities

In a series of lectures, workshops and open discussions the contributors from New Zealand, Europe and United States will share the experiences and learning of their organisations in fostering the resilience of infrastructures towards the resilience of their cities and communities.

The contributors from New Zealand will take you through both the phases and activities and the learning of their organisations as they collectively engaged in enabling a resilient and thriving revival of greater Christchurch following the earthquake sequence that struck the area during 2010 and 2011.

The event aims to foster worldwide connections and cooperation among academics, researchers, asset managers and stakeholders working in the space of resilient infrastructures, to join and synergise efforts and experiencing towards the identification of best practices and strategies.

### Key Topics

- Physical shocks - Social, Economic and Environmental impacts
- Resilient Systems
- Governance and Leadership
- Strategy
- Information and Data Management
- Delivery
- Research and Development
- Community resilience
- Communication and community engagement

Organised by Dr Sonia Giovinazzi, University of Canterbury  
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DIPARTIMENTO DI INGEGNERIA  
STRUTTURALE E GEOTECNICA



SAPIENZA  
UNIVERSITÀ DI ROMA



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## Contributors

<b>Alessandro Attolico</b>	Potenza Province (Chief Executive), Role Model for Inclusive Resilience and Territorial Safety awarded by UNDRR	<b>David Fabi</b>	University of Naples Federico II (Professor) Department of Civil Protection, Emergency Management Office	<b>Veronica Piacentini</b>	Department of Civil Protection, Voluntary work, Training and Communication Office
<b>Stefano Aversa</b>	University of Naples “Parthenope”, Italian Association of Geotechnics (President)	<b>Roger Fairclough</b>	National Infrastructure Unit, The Treasury, New Zealand (Principal Advisor)	<b>Rui Pinho</b>	EUCENTRE Foundation (Scientific Director)
<b>Piero Barotono</b>	Ministry of Infrastructures and Transportation (Interregional Superintendent of Public Works for Lombardy and Emilia Romagna)	<b>Helen Fergusson</b>	Stronger Christchurch Infrastructure Rebuild Team, SCIRT, NZ (Senior Communication Advisor)	<b>Kyriazis Pitilakis</b>	Aristotle University of Thessaloniki Greece, Geotechnical Engng Div. Laboratory of Soil Mechanics, Foundations and Geotechnical Earthquake Engng
<b>Christopher Burton</b>	Social Vulnerability and Integrated Risk Coordinator, GEM Foundation (Senior Scientist)	<b>Andrea Ferrante</b>	High Council of Public Works - Ministry of Infrastructures and Transportation, Italy	<b>Maria Prezioso</b>	University of Rome “Tor Vergata”, Dept. Economics and Territory
<b>Rod Cameron</b>	Stronger Christchurch Infrastructure Rebuild Team, SCIRT, New Zealand (Value Manager)	<b>Luca Ferrari</b>	Italian Seismic Engineering Association (President)	<b>Emanuele Renzi</b>	High Council of Public Works, Central Technical Service - Ministry of Infrastructures and Transportation, Italy
<b>Julian Carver</b>	Land Information New Zealand (Group Manager Business Development)	<b>Paolo Franchin</b>	Sapienza University of Rome, Dept. Structural Engineering & Geotechnics	<b>Vittorio Rosato</b>	ENEA Casaccia Research Centre, Computing and Technological Infrastructures Lab. (Head)
<b>Francesco Cavalieri</b>	Sapienza University of Rome, Dept. Structural Engineering & Geotechnics	<b>Dante Galeota</b>	University of L'Aquila, DICEEA (Professor)	<b>Mauro Rosi</b>	Dept of Civil Protection, Seismic and Volcanic Risk (Head)
<b>Giovanni Cecconi</b>	MOSE project, Venice	<b>Pierre Gehl</b>	University College London, EPICentre	<b>Elena Speranza</b>	Dept of Civil Protection, Seismic & Volcanic Risk
<b>Bernardino Chiaia</b>	Polytechnic University of Turin (Professor)	<b>Mike Gillooly</b>	Chief Resilience Officer (CRO), City of Christchurch	<b>Bozidar Stojadinovic</b>	Swiss Federal Institute of Technology, Zurich (Professor)
<b>Margot Christeller</b>	Canterbury Earthquake Recovery Authority (CERA), NZ (Advisor to the Deputy Chief Executive, Strategy and Governance Group)	<b>Sonia Giovinazzi</b>	University of Canterbury, New Zealand (Senior Research Fellow)	<b>Roger Sutton</b>	Leadership and Strategy Specialist, New Zealand
<b>Alessandro Coppola</b>	Resilient Rome (Project coordinator)	<b>Oriana Giovinazzi</b>	Port-City Relationship and Urban Waterfront Redevelopment, PORTUS (Managing Director & Editorial Coordinator) RETE, IUAV (Researcher)	<b>Alex Tang</b>	L&T Consultant (President), American Society of Civil Engineers (Fellow)
<b>Edoardo Cosenza</b>	Campania Region (Councillor for Public Works and Civil Protection), University of Naples Federico II	<b>Deirdre Hart</b>	University of Canterbury, NZ (Senior Lecturer)	<b>Alberto Tofani</b>	ENEA Casaccia Research Centre (Researcher)
<b>Fabrizio Curcio</b>	Department of Civil Protection (Head)	<b>Nagahisa Hirayama</b>	National Institute for Environmental Studies (Senior Researcher)	<b>Nicola Valluzzi</b>	Potenza Province (President), Role Model for Inclusive Resilience and Territorial Safety awarded by UNDRR
<b>Dina D'Ayala</b>	University College London (Professor), EPICentre (Co-Director)	<b>Iunio Iervolino</b>	University of Naples Federico II (Professor)	<b>Jolie Willis</b>	New Zealand Red Cross (Psychosocial Knowledge Sharing and Research Advisor)
<b>Craig Davis</b>	LADWP (Design Manager, Earthquake Engineering and Resilience Advisor), ASCE Infrastructure Resilience Division (Chair)	<b>Bijan Khazai</b>	Karlsruhe Institute of Technology		
<b>Paolo De Girolamo</b>	Sapienza University of Rome, Dept. Civil, Architectural & Environmental Engng	<b>Indranil Kongar</b>	University College London, EPICentre		
<b>Anna De Raadt</b>	Cooperative Research Centre for Spatial Information, CRCSI, New Zealand (Director), Land Information New Zealand	<b>Carlo G. Lai</b>	EUCENTRE Foundation (Professor)		
<b>Augusto Desideri</b>	Sapienza University of Rome, Dept. Structural Engineering & Geotechnics (Head)	<b>Gaetano Manfredi</b>	Italian Network of Earthquake Engng Laboratories (President), University of Naples Federico II (PVC)		
<b>Mauro Dolce</b>	Department of Civil Protection Director General,	<b>Angelo Masi</b>	Basilicata University (Professor)		
		<b>Micaela Nerucci</b>	Department of Civil Protection Voluntary work, Training and Communication Office		

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## Day 1 —

**Venue:** Ministry of Infrastructures and Transportation  
*Via Nomentana 2, Rome*

**Topic:** Strategies, Policies and Tools Towards Resilient Infrastructures

**Contact:** Emanuele Renzi  
*emanuele.renzi@mit.gov.it*

From 09:00 Registration  
09:45 – 10:00 Welcome from the Host Institution  
10:00 – 11:00 Session 1  
New Zealand Experience:  
Achieving Resilience During Reconstruction  
**11:00 – 11:20 Morning Tea**  
11:20 – 12:20 Session 2  
Current Approach to a Modern and Efficient  
Administration: The Way Ahead Towards  
Resilient Infrastructures  
12:20-13:00 Wrap-up of morning sessions  
**13:00 – 14:00 Lunch**  
14:00 – 16:00 Session 3 – Technical Session  
Ports of the Future:  
Planning Resilience to Strains and Risks  
**16:00 – 16:30 Afternoon Tea**  
16:30 – 18:30 Session 4 – Technical Session  
Asset Data Management: GIS & BIM

## Day 2 —

**Venue:** Sapienza University of Rome  
*San Pietro in Vincoli  
Via Eudossiana 18*

**Topic:** End-User and Resilience Oriented Researches:  
Creating Worldwide Networks

**Contacts:** Paolo Franchin and Sonia Giovinazzi  
*paolo.franchin@uniroma1.it  
sonia.giovinazzi@canterbury.ac.nz*

From 09:00 Registration  
09:45 – 10:00 Welcome from the Host Institution  
10:00 – 11:00 Session 1  
New Zealand Experience:  
Overview on End-User Oriented Research  
**11:00 – 11:20 Morning tea**  
11:20 – 12:20 Session 2  
European Experience:  
Overview on End-User Oriented Research  
12:20-13:00 Wrap-up of Morning Sessions  
**13:00 – 14:00 Lunch**  
14:00 – 16:00 Session 3 – Technical Session  
Multi-Hazards Earthquake and Flooding  
**16:00 – 16:30 Afternoon Tea**  
16:30 – 18:30 Workshop  
Critical infrastructures and urban resilience:  
mapping assets, actors and data.  
Organised by “Roma Resilience” in collaboration  
with the research project “RoMA, Resilience  
Enhancements of Metropolitan Areas”

## Day 3 —

**Venue:** Rome, Civil Protection Department (DPC)  
*Via Vitorchiano, Rome*

**Topic:** Sharing Experiences on Emergency and Post-Disaster Management

**Contact:** Mauro Dolce  
*mauro.dolce@protezionecivile.it*

From 09:00 Registration  
09:30 – 10:00 Overview on the Italian Civil Protection System  
10:00 – 11:00 Session 1  
Italian Experience: Emergency Management in  
Recent Events and Preparedness Activities  
**11:00 – 11:20 Morning tea**  
11:20 – 12:20 Session 2  
New Zealand Experience: The Canterbury  
Earthquake Sequence 2010-11 and Related  
Flooding Events  
12:20-13:00 Wrap-up of Morning Sessions  
**13:00 – 14:00 Lunch**  
14:00 – 16:00 Technical visit  
Emergency Management Room and Functional  
Centres For Volcanic, Seismic and Weather-  
Related Risk Monitoring at the DPC  
**16:00 – 16:30 Afternoon Tea**  
16:30 – 18:30 Workshop  
Urban Resilience Initiatives and Resilience  
Score-Card-Reality Check: Testing the KIT  
Resilience Assessment Approach on Decision  
Makers

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## Day 4 —

**Venue:** University of L'Aquila  
*Polo Ingegneria, Roio.  
Aula Magna-G. Beolchini*

**Topic:** Sharing Learning and Experiences and  
Planning Joint Strategies Towards a Legacy

**Contact:** Prof Dante Galeota  
*dante.galeota@ing.univaq.it*

**09:00** **Departure from Rome**

11:00 – 13:30 Technical Visit  
L'Aquila Historical Centre, CASE Project, Basilica  
Di Collemaggio

**13:30 – 14:30** **Lunch**

14:30 – 17:00 Session 1  
Round Table Between L'Aquila And New Zealand  
Decision Makers and Stakeholders

**17:00** **Return to Rome**

## Day 5 —

**Venue:** University of Naples  
*Aula Bobbio, Scuola Politecnica e  
delle Scienze di Base. Piazzale Tecchio 80*

**Topic:** Community Resilience through Preparedness,  
Connection and Communication

**Contact:** Iunio Iervolino  
*iunio.iervolino@unina.it*

**08:00** **Departure from Rome**

From 09:30 Registration

10:00– 10:30 Welcome from the Host Institution  
Earthquake Engineering Research: The  
Perspective of The Italian Network of University  
Labs

10:30 – 11:20 Session 1  
New Zealand Overview and Case-Studies on  
“Community Resilience Through Preparedness,  
Connection and Communication”

**11:20 – 11:40** **Morning tea**

11:40 – 12:30 Session 2  
Italian Experience and Case-Studies on  
“Community Resilience Through Preparedness,  
Connection and Communication”

12:30-13:00 Wrap-up of morning Sessions

**13:00 – 14:00** **Lunch**

14:00 – 14:45 Session 3 – Technical Session  
Enhancing Resilience of Telecom and Data  
Network to Empower Communication and Data  
Sharing Pre and Post Disaster

14:45 – 15:30 Session 4 – Technical Session  
The Role of Communication in Fostering  
Resilient Communities (From Mitigation to  
Recovery)

**15:30 – 16:00** **Afternoon Tea**

16:00 – 17:00 Week Wrap-Up – “Towards Resilient  
Communities”