



3<sup>RD</sup> SILK CITIES INTERNATIONAL CONFERENCE

Conference Programme

**RECONSTRUCTION, RECOVERY  
AND RESILIENCE OF HISTORIC  
CITIES AND SOCIETIES**

**L'AQUILA, 10-12 JULY 2019**





# RECONSTRUCTION, RECOVERY AND RESILIENCE OF HISTORIC CITIES AND SOCIETIES

## Conference Information and Credits

### Conference Conveners

Dr. Lucia Patrizio Gunning, History Department, UCL, UK  
 Dr. Fatemeh Farnaz Arefian, University of Newcastle & Silk Cities, Singapore  
 Prof. Paola Rizzi, DICEAA, University of L'Aquila, Italy

### Strategic Advisors

Prof. Paola Inverardi, University of L'Aquila, Italy  
 Prof. Julio D Davila, University College London, UK  
 Dr. Florian Mussgnug, University College London, UK

### Organisers

University of L'Aquila, [www.univaq.it](http://www.univaq.it)  
 Silk Cities, [www.silk-cities.org](http://www.silk-cities.org)  
 University College London (UCL), [www.ucl.ac.uk](http://www.ucl.ac.uk)

### Sponsors

The Bartlett Development Planning Unit (DPU), UCL  
 History Department, UCL  
 City Partnership Program, UCL  
 Università degli Studi, L'Aquila  
 DICEAA, Dipartimento di Ingegneria Civile, Edile-Architettura e Ambientale, Università degli Studi dell'Aquila  
 DSU Dipartimento di Scienze Umane, Università degli Studi dell'Aquila  
 Dipartimento di Eccellenza, Università degli Studi dell'Aquila

### Organising Committee

Lucia Patrizio Gunning, History Department, UCL, UK  
 Farnaz Arefian, University of Newcastle & Silk Cities, Singapore  
 Paola Rizzi, DICEAA, University of L'Aquila, Italy  
 Barnaby Gunning, Barnaby Gunning Studio, UK  
 Alfonso Pierantonio, University of L'Aquila, Italy  
 Massimo Prosperococco, University of L'Aquila, Italy  
 Maryam Eftekhar Dadkhah, Silk Cities, Belgium  
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 Mona Jabbari, Minho University & Silk Cities, Portugal  
 Liza Griffin, UCL, DPU, UK  
 Nafiseh Irani, Silk Cities, Singapore  
 Jackie Hartley, UCL, DPU, UK  
 Ottavia Pasta, UCL, DPU, UK  
 Carlo Capannolo, University of L'Aquila, Italy  
 Sabrina Madia, University of L'Aquila, Italy  
 Francesca Larocchia, Rettorato, University of L'Aquila  
 Michela Fazzini, University of L'Aquila  
 Mahya Fatemi, Silk Cities, UK

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 Dr. Fatemeh Farnaz Arefian, University of Newcastle & Silk Cities, Singapore  
 Prof. Yves Cabannes, Emeritus Professor in Development Planning  
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 Ms. Anna Soave, DPU Associate, UN-Habitat Iraq Programme, Iraq  
 Assoc. Prof. Alessandro Vaccarelli, University of L'Aquila, Italy  
 Prof. Suzanne Jane Wilkinson, University of Auckland, New Zealand

## INTRODUCTION

### Dr. Lucia Patrizio Gunning

April 2009 marked the lives of everyone affected by the L'Aquila earthquake. Beyond the terrible loss of life and physical damage was the disappearance of everything that represented our psychological wellbeing. The rich tapestry of this historic city disappeared from our lives and with it the patterns and habits of everyday life, of social interaction and friendship as well as the subtle minutiae of a living city.

The past decade has been a journey for each of us seeking a new normality, reconstructing our lives and struggling to rebuild both the physical and the psychological space. Ten years have passed living lives suspended between the past and the future, between the memories of what the city was and hopes for what it could be.

Today, as life returns to the centre of L'Aquila, the emotion of rediscovering each street, square, fountain and building is powerful and there is unexpected fulfilment in the sight of light returning to its darkened streets, in finding new activities sprouting where once there were ruins. L'Aquila displayed fortitude and resilience in the aftermath of disaster and this is slowly transforming into a renaissance of civic pride.

There is a natural thread connecting L'Aquila with the Silk Cities; from the medieval web of trade in silk, wool and saffron, to the dense fabric of historic urban evolution and its interweaving with the surrounding environment. As this beautiful city re-emerges, it seems fitting that it should host the 2019 Silk Cities conference addressing the themes particular to historic cities at risk.

### Dr. Fatemeh Farnaz Arefian

Silk Cities is an independent and bottom-up professional and academic initiative for contextual knowledge exchange, research and advocacy. Its initial geographic focus is those countries along the historic trade routes in the Middle East and Central Asia, which in recent years suffered from a variety of destructive incidents, from natural hazards to human induced origins, from earthquakes to wars.

I first visited L'Aquila in 2018, 9 years after the 2009 earthquake, and heard the testimony of the city's disaster-affected residents: a clear case that when disaster occurs, it is the city and its residents who bear the consequences of insufficient attention to complexities of organising urban reconstruction and its role in the multidisciplinary aspects of city recovery.

Post-crisis city recovery is multidimensional and post-disaster reconstruction is a manifestation of physical recovery that must facilitate other kinds of recovery, including psychological, social and economic recovery and enhance future resilience of residents. Cities are complex interconnected social, engineering, economic and administrative systems. Managing urban reconstruction and recovery requires decision makers to understand and deal with layers of complexity, their interactions and their integrating processes, doing so in historic urban landscape significantly adds another layer of complexity to all those.

Given the specific nature of the conference subject and the fact that L'Aquila, like many disaster-hit cities in the Middle East and Central Asia, enjoyed a rich history of urban life and heritage it made sense to bring the Silk Cities 3rd international conference here. I hope that the city and its people will also benefit from this exciting gathering of experts on various related aspects of the subject matter.

### Prof. Paola Rizzi

*"As flies to wanton boys are we to the gods. They kill us for their sport."*

King Lear, Act IV, William Shakspeare

Over the centuries, the very concept of a catastrophe, as Dupuy (2005) pointed out, evolved into its current form of an "illuminated catastrophism" in which the damage is neither natural nor moral, but a 'systemic' one. As a result of this systematicity, the future is considered real, and prevention becomes a principle to be applied regardless of whether the expected event will actually happen. In this context, as recently proven, it is important to reflect on the very sense of reconstruction as well as actions to be taken in different phases, from pre- to post-disaster as the aim of these processes is being shifted from the physical reconstruction towards regeneration and revitalisation of the affected urban areas. Hence, planners, urban designers, architects, engineers and stakeholders should dedicate their attention to spaces, places and infrastructures that, albeit rebuilt, remain vulnerable. In order to secure their resilience and resistance, it is necessary to support processes of inclusive reconstruction based on risk awareness of the local communities. Such an approach stimulates innovative types of recovery and regeneration that enhance resilience without losing continuity and traces of the past.

The Silk Cities Conference is a unique opportunity to embrace different points of view rooted in different contexts as well as to reflect on resilience seen as a capability to maintain the essential urban activities operational. The future of the cities will depend on whether we'll be able to consider a reconstruction a real opportunity to reshape them.

Visit our websites

[www.silkcities.org](http://www.silkcities.org)

[www.ucl.ac.uk/bartlett/development](http://www.ucl.ac.uk/bartlett/development)

Conference information

[www.ucl.ac.uk/bartlett/development/research/silk-cities](http://www.ucl.ac.uk/bartlett/development/research/silk-cities)

[info@silkcities.org](mailto:info@silkcities.org)



# RECONSTRUCTION, RECOVERY AND RESILIENCE OF HISTORIC CITIES AND SOCIETIES

## PROGRAMME OVERVIEW

### DAY 1, WEDNESDAY 10 JULY

08:30 - 09:30	<b>Registration</b> Location: Aula Magna Alessandro Clementi, Dipartimento di Scienze Umane, Università degli Studi, L'Aquila
09:30 - 10:15	<b>Conference welcome &amp; introduction</b>
10:15 - 11:00	<b>Guest Keynote Speech:</b> L'Aquila 2009 > 2019. Back to the future Venue: Aula Magna Alessandro Clementi
11:00 - 11:30	<b>Coffee break</b>
11:30 -12:30	Thematic Session 1A: <b>Heritage oriented reconstruction vs reconstruction oriented heritage restoration</b> Venue: Aula Magna Alessandro Clementi
	Thematic Session 1B: <b>Reconstructing cultural heritage and rediscovering civic identity</b> Venue: Aula OA
12:30 - 13:30	<b>Lunch Break</b> Location: Terrazza, first floor, Dipartimento di Scienze Umane, Università degli Studi
13:30 -15:00	Thematic Session 1C: <b>Linking urban development and reconstruction processes</b> Venue: Aula Magna Alessandro Clementi
	Thematic Session 1D: <b>Information technology and smarter reconstruction</b> Venue: Aula OA
15:00 - 15:30	<b>Coffee Break</b>
15:30 -16:30	Thematic Session 1E: <b>Communication and transparency</b> Venue: Aula Magna Alessandro Clementi
	Thematic Session 1F: <b>Linking urban development and reconstruction processes (Zoom in Italy)</b> Venue: Aula OA
17:00 - 18:30	<b>Walking Tour of City Centre Reconstruction Conference Reception &amp; Networking</b>
19:00 - 21:30	Location: Terrazza del Rettorato, Palazzo Camponeschi, Università degli Studi, Piazza Santa Margherita, 2, L'Aquila Exhibition Opening: <b>People, Rituals and Places from the Outskirts of L'Aquila</b> , Introduction by Daniele Segre – Director of the Centro Sperimentale di Cinematografia Abruzzo

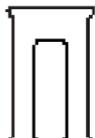
### DAY 2, THURSDAY 11 JULY

08:30 - 09:00	<b>Registration</b> Location: Aula Magna Alessandro Clementi, Dipartimento di Scienze Umane, Università degli Studi, L'Aquila
09:00 - 09:45	<b>Guest Keynote Speech:</b> Writing for a Broken World: Literature and Catastrophe in the Twenty-First Century
09:45 - 10:45	Book Launch. <b>Conversation with Editors</b> Venue: Aula Magna Alessandro Clementi
	Thematic Session 2A: <b>Cultural heritage as a stimulus for recovery</b> Venue: Aula OA
10:45 - 11:15	<b>Coffee break</b>
11:15 - 12:45	Thematic Session 2B: <b>Narratives of approach to disaster and recovery /Social media disaster response policies and practice</b> Venue: Aula Magna Alessandro Clementi
	Thematic Session 2C: <b>Social, psychological and economic recovery</b> Venue: Aula OA

12:45 - 13:45	<b>Lunch break</b> Location: Terrazza, first floor, Dipartimento di Scienze Umane, Università degli Studi
13:30 - 15:15	Thematic Session 2D: <b>Reclaiming cultural heritage/ Tourism and heritage cities</b> Venue: Aula Magna Alessandro Clementi
	Special Session 2E: <b>The Middle East meets West: Zoom in Pakistan &amp; Iran</b> Venue: Aula OA
15:15 - 15:45	<b>Coffee Break</b>
16.00 - 17:30	Special Session: <b>Roundtable on Schools, Resilience and Recovery in L'Aquila</b> Venue: Sala del Consiglio, Rettorato Piazza Santa Margherita, 2
	Thematic Session E: <b>Rebuilding confidence in the capacities of the city/Linkages between reconstruction process and socio-economic recovery</b> Room: Aula Magna Alessandro Clementi
20:00 - 23:00	<b>Dinner (optional &amp; pre-registered only)</b> Ristorante Lo Scalco, Piazza San Pietro a Coppito

### DAY 3, FRIDAY 12 JULY

08:30 - 09:00	<b>Registration</b> Location: Aula Magna Alessandro Clementi, Dipartimento di Scienze Umane, Università degli Studi, L'Aquila
09:00 - 09:45	<b>Guest Keynote Speech:</b> The Emergency Management of the 2016–2017 Central Apennines Seismic Sequence: Analogies and Differences with Recent Italian Earthquakes Venue: Aula Magna Alessandro Clementi
9:45 - 10:45	Thematic Session 3A: <b>Risk communication and public awareness in in historic cities</b> Venue: Aula Magna Alessandro Clementi
	Thematic Session 3B: <b>Knowing the city, owning the city</b> Venue: Aula OA
10:45 - 11:15	<b>Coffee break</b>
11:15 - 13:15	Thematic Session 3C: <b>Cultural heritage as a mean to building resilience</b> Venue: Aula Magna Alessandro Clementi
	Special Session: <b>Reconstruction between Past and Present</b> Venue: Aula OA
13:15 - 14:15	<b>Lunch break</b> Location: Terrazza, Dipartimento di Scienze Umane, first floor, Università degli Studi
14:15-16:00	Thematic Session 3D: <b>Public engagement and civic participation / Information technology and civic resilience</b> Venue: Aula Magna Alessandro Clementi
	Thematic Session 3E: <b>Pre-crisis masterplanning and preparedness. / Engaging the next generation.</b> Venue: Aula OA
16:00 - 16:30	<b>Coffee break</b>
16:30 - 17:15	<b>Conference closing</b>
17:15 - 18:45	<b>City sightseeing tour by bus</b>



# RECONSTRUCTION, RECOVERY AND RESILIENCE OF HISTORIC CITIES AND SOCIETIES

## PROGRAMME DETAILS

### DAY 1, WEDNESDAY 10 JULY

08:30 - 9:30	<p><b>Registration</b> Aula Magna Alessandro Clementi, Dipartimento di Scienze Umane, Università degli Studi, L'Aquila</p>		
09:30 - 10:15	<p><b>Conference welcome &amp; introduction</b> University of L'Aquila, Silk Cities and UCL • Welcome addresses by co-organisers • Opening by Prof. Paola Inverardi, Provost, University of L'Aquila</p>		
10:15 - 11:00	<p><b>Guest Keynote Speaker</b> Arch. Alessandra Vittorini <i>Soprintendente</i>, Superintendence of Archeology, Fine Arts and Landscape for the City of L'Aquila and the Municipalities of the Crater <b>L'Aquila 2009 &gt; 2019. Back to the future.</b>  Chair: Arch. Barnaby Gunning</p>		
11:00 - 11:30	<p><b>Coffee break</b></p>		
11:30-12:30	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>Thematic Session 1A: <b>Heritage oriented reconstruction vs reconstruction oriented heritage restoration.</b> Venue: Aula Magna Alessandro Clementi  Chair: Prof. Paola Rizzi</p> <p><i>Thinking about reconstruction: functionalist reconstruction or identity reconstruction? Following the great post-World War II reconstruction and the recent Italian post-earthquake reconstructions, what is the current model for reconstruction?</i> Francesca Fiaschi</p> <p><i>Post-war urban reconstruction and cultural heritage in relation to national identity; Case of Erbil-Iraqi Kurdistan.</i> Avar Almkhtar</p> <p><i>Beyond the damage, the reconstruction of L'Aquila</i> Simona Bravaglieri, Silvia Furioni, Elia Zenoni</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Thematic Session 1B: <b>Reconstructing cultural heritage and rediscovering civic identity.</b> Venue: Aula OA  Chair: Arch. Nazir Ahmed</p> <p><i>Earthquakes and reconstructions. History and identity of historical centres and towns of the Apennine range.</i> Stefano Cecamore</p> <p><i>The Solidere effect and the localization of heritage reconstruction in post-war transitions.</i> Nada Efeituri</p> <p><i>Different paths in heritage reconstruction of rural traditional towns in central Chile.</i> Claudia Gonzalez Muzzio</p> </td> </tr> </table>	<p>Thematic Session 1A: <b>Heritage oriented reconstruction vs reconstruction oriented heritage restoration.</b> Venue: Aula Magna Alessandro Clementi  Chair: Prof. Paola Rizzi</p> <p><i>Thinking about reconstruction: functionalist reconstruction or identity reconstruction? Following the great post-World War II reconstruction and the recent Italian post-earthquake reconstructions, what is the current model for reconstruction?</i> Francesca Fiaschi</p> <p><i>Post-war urban reconstruction and cultural heritage in relation to national identity; Case of Erbil-Iraqi Kurdistan.</i> Avar Almkhtar</p> <p><i>Beyond the damage, the reconstruction of L'Aquila</i> Simona Bravaglieri, Silvia Furioni, Elia Zenoni</p>	<p>Thematic Session 1B: <b>Reconstructing cultural heritage and rediscovering civic identity.</b> Venue: Aula OA  Chair: Arch. Nazir Ahmed</p> <p><i>Earthquakes and reconstructions. History and identity of historical centres and towns of the Apennine range.</i> Stefano Cecamore</p> <p><i>The Solidere effect and the localization of heritage reconstruction in post-war transitions.</i> Nada Efeituri</p> <p><i>Different paths in heritage reconstruction of rural traditional towns in central Chile.</i> Claudia Gonzalez Muzzio</p>
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12:30 - 13:30 **Lunch Break**

13:30 - 15:00	<p>Thematic Session 1C: <b>Linking urban development and reconstruction processes.</b> Venue: Aula Magna Alessandro Clementi  Chair: Dr. Avar Almkhtar</p> <p><i>Post-tsunami Recovery and Mitigation Effect in the Coastal Areas Affected by the 2011 Great East Japan Earthquake and Tsunami.</i> Osamu Murao, Tomohiro Tanaka</p> <p><i>Restoration strategies among Italy and United States at the beginning of twentieth century. Post-trauma recovering of monumental buildings.</i> Marco Felli</p> <p><i>Linkages between reconstruction, heritage and urban processes: Bam, Hoi An and Tacloban.</i> Farnaz Arefian</p> <p><i>Reconstruction between Past and Present: Comparing Historical Cities - The reconstruction of the urban fabric: two parallel study cases Town Hall Square in Riga (Latvia) and Santa Maria Paganica Square in L'Aquila (Italy).</i> Francesco Giancola</p>
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15:00 - 15:30 **Coffee Break**

15:30 - 16:30	<p>Thematic Session 1E: <b>Communication and transparency.</b> Venue: Aula Magna Alessandro Clementi  Chair: Dr. Lucia Patrizio Gunning</p> <p><i>The housing reconstruction plan with using victims' housing recovery opinions and the influences – comparison with the Great East Japan Earthquake and L'Aquila Earthquake.</i> Haruka Tsukuda, Yasuaki Onoda</p> <p><i>Social media in disaster management: how social media impacts the work of public sector organizations in disaster response in Lorestan floods in Iran.</i> Somayeh Zandieh, Vahide Ebrahimnia</p> <p><i>Public administration vs social media in emergency situations.</i> Vincenzo Mini</p>
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17:00 - 18:30 **Walking Tour of City Centre Reconstruction**  
**Meeting point:** Viale Nizza, outside Dipartimento di Scienze Umane

Visit to building sites with Prof. Antonello Salvatori

19:00-21:30 **Conference Reception & Networking**

Thematic Session 1D:  
**Information technology and smarter reconstruction.**  
Venue: Aula OA

Chair: Arch. Tariq Ahmed

*Cities in transformation. Smarter reconstruction in historic centres.*  
Donato Di Ludovico

*The representation of resilient city. The case of Amatrice's reconstruction.*  
Giuseppe Amoruso, Polina Mironenko

*Seismic behavior of the structure of the convent San Juan Bautista de Tetela del Volcan, during the earthquake on September 19, 2017, with epicenter in Axochiapan, State of Morelos, Mexico.*  
Patricia Alarcón, Mario Benumea, M. Cristina Garcia-Nieto, Marcos A. Martínez-Segura

*Rehabilitation of existing buildings using smart sensors and ICT technologies*  
Marianna Rotilio, Federica Cucchiella, Giuseppe Ferri, Vincenzo Stornelli, Valeria Annibaldi

Thematic Session 1F:  
**Linking urban development and reconstruction processes (Zoom in Italy).**  
Venue: Aula OA

Chair: Dr. Donato Di Ludovico

*Post-crisis masterplanning: the public space for a new approach.*  
Quirino Crosta

*The emergency management after the Emilia Romagna – Lombardia earthquake (2012): a comparison between the regional experiences.*  
Enrica Brusa

*The earthquake of L'Aquila as an opportunity for buildings' structural and energy retrofit – Multidisciplinary approach for the former S. Salvatore hospital.*  
Tullio de Rubeis, Mariangela De Vita, Luisa Capanolo, Eleonora Laurini, Iole Nardi, Dario Ambrosini, Domenica Paoletti, Pierluigi De Berardinis

Visit to building sites and monuments with 'Officina L'Aquila'

## DAY 2, THURSDAY 11 JULY

- 08:30 - 9:00 **Registration**
- 09:00 - 9:45 **Guest Keynote Speaker**
- Dr Florian Mussgnug, SELCS, UCL  
**Writing for a Broken World: Literature and Catastrophe in the Twenty-First Century**
- Chair: Prof. Massimo Fusillo, DSU, Univaq
- 09:45 - 10:45 **Book Launch**
- Venue: Aula Magna Alessandro Clementi
- Chair: Prof. Julio Davila, Bartlett DPU, UCL
- Historic Cities: Issues in Urban Conversation*
- Urban Heritage along the Silk Roads: A Contemporary Reading of Urban Transformation of Historic Cities in the Middle East and Beyond (Silk Cities 2017 book)*
- Conversation with the editors Dr. Jeff Cody and Dr. Farnaz Arefian.**
- 10:45 - 11:15 **Coffee break**
- 11:15 - 12:45 Thematic Session 2B:  
**Narratives of approach to disaster and recovery /Social media disaster response policies and practice.**
- Venue: Aula Magna Alessandro Clementi
- Chair: Prof. Alessandro Vaccarelli
- Kataribe-storytelling in post-disaster Japan: rebuilding places and community resilience from personal narratives and local knowledge.*  
Flavia Fulco
- Architectural heritage and earthquakes: a longstanding relation.*  
Margherita Ganz
- Water gives, water takes away. Cultural heritage and memory as ways to build resilience in ENSO-vulnerable historic landscapes in the north coast of Peru.*  
Rosabella Alvarez-Calderon
- Collective storytelling as an approach to influence post-disaster policy development.*  
Ashley E. Lazarre
- 12:45 - 13:45 **Lunch break**

Thematic Session 2A:  
**Cultural heritage as a stimulus for recovery.**

Venue: Aula OA

Chair: Giuseppe Amoruso

*HDD: heritage debris design. Debris between memory and reuse.*  
Paolo Belardi, Moreno Marziani, Giovanna Ramaccini

*Results and problems of localized housing recovery in Japan using traditional construction methods.*  
Satoshi Arikawa, Elizabeth Maly, Tsukasa Iwata

*Aleppo's old souks: post conflict heritage reconstruction.*  
Judy Mahfouz

Thematic Session 2C:  
**Social, psychological and economic recovery.**

Venue: Aula OA

Chair: Dr Kohei Sakai

*Rural resilience. Piaggine, a case study in Cilento geopark.*  
Maria Valesse

*Intangible cultural economy a mould for tangible urban built fabric - case of Shahjahanabad - bridging India and the silk route.*  
Abhishek Jain

*The experience of Play Street: applying tactical urbanism to urban resilience approach in Iran.*  
Azadeh Lak, Soheila Sadeghzadeh

*Shaking preferences: earthquakes and impatience.*  
Karlygash Kuralbayeva, Krisztina Molnar, Concetta Rondinelli, Po Yin Wong

- 13:30 - 15:15 Thematic session 2D:  
**Reclaiming cultural heritage / Tourism and heritage cities.**
- Venue: Aula Magna Alessandro Clementi
- Chair: Claudia Gonzales Muzzio
- Evaluating visitors' experiences at St Augustine's Abbey (Canterbury).*  
Ayda Majd Ardekani, Sophia Labadi, Rocio Von Jungendorf
- A study on evacuation method using agent simulation based on tourists' behavioral intention.*  
Hidehiko Kanegae, Kohei Sakai
- The recovery of archives in the area of the Marche crater.*  
Giorgia Di Marcantonio, Pamela Galeazzi, Caterina Paparello
- The tree.*  
Arianna Tanfoni
- Short-term and mid-term temporary strategies as intrinsic part of the pre-reconstruction recovery process: Norcia case study.*  
Anna Porębska, Aleksandra Rogulska

15:15 - 15:45 **Coffee Break**

- 16.00 - 17:30 Special Session:  
**Roundtable on Schools, Resilience and Recovery in L'Aquila.**
- Venue: Sala del Consiglio, Rettorato, Palazzo Camponeschi
- Chairs: Prof. David Alexander and Dr. Lucia Patrizio Gunning.
- Fà cosa giusta! exhibition: an opportunity to create synergies between schools, museums and our heritage.*  
Alessandra De Nicola, Piero Magri, Franca Zuccoli
- School as resilience tutor: a didactical path in three different contexts.*  
Cesare Fregola, Sara Gabrielli
- Educational poverty factors and resilient responses in the Aquila youth population; a qualitative study.*  
Nicoletta Di Genova, Silvia Nanni, Alessandro Vaccarelli
- With the participation of local stakeholders, Dr Farnaz Arefian, Prof. Paola Rizzi and Prof. Catherine Forbes**

Special session 2E:  
**The Middle East meets West: Zoom in Pakistan & Iran.**

Venue: Aula OA

Chair: Dr Jeff Cody

*Socio-Economic Impacts of high density construction regulations on heritage district of Karachi – The case studies from implementation of high density Regulation 2013 on various old quarters in Saddar Karachi.*  
Nazir Ahmed

*Master Plans and Its Impacts On the Urban Historic Area of the Bazaar of Kashan.*  
Jamal S.Hashemi, Hamidreza Jayhani, Parichehr Shafie

*Impact of Implementation of high density byelaws in heritage district/old quarters of Karachi.*  
Tariq Ahmed

*Integrating green solutions into post-earthquake recovery of Bam, Iran.*  
Alireza Fallahi, Seyed Hassan Taghvaei, Ameneh Karimian

*The beauty revealed. Two approaches with younger citizens, between Pakistan and Italy, to remove the veils that hides cultural heritage.*  
Alessandra De Nicola, Marvi Mazara

Thematic Session E:  
**Rebuilding confidence in the capacities of the city. / Linkages between reconstruction process and socio-economic recovery.**

Venue: Aula Magna Alessandro Clementi

Chair: Arch. Abhishek Jain

*Coventry shell or phoenix, city of tomorrow or concrete jumble. From the reconstruction after the Mondscheinsonate operation to the Phoenix Initiative.*  
Patrizia Montuori

*Reconstruction of heritage and spirit: mending the scars of Aleppo.*  
Mounir Sabehe Affaki

*Whom and whose cultural heritage? Comparative case studies; Rudabai and Dada Harir Stepwells, in Gujarat, India.*  
Mehrnaz Rajabi

*Environmental criticalities and energetic potentials in the post-earthquake reconstruction.*  
Valeria Annibaldi, Marianna Rotilio

20:00 - 23:00 **Dinner (optional & pre-registered only)**

DAY 3, FRIDAY 12 JULY

08:30 - 9:00 **Registration**

09:00 - 9:45 **Guest Keynote Speaker**

Prof. Mauro Dolce, Italian Department of Civil Protection, DPC  
**The Emergency Management of the 2016–2017 Central Apennines Seismic Sequence: Analogies and Differences with Recent Italian Earthquakes.**

Chair: Prof. Catherine Forbes, GML Heritage

9:45 - 10:45 Thematic Session 3A:  
**Risk communication and public awareness in in historic cities.**

Venue: Aula Magna Alessandro Clementi

Chair: Dr. Farnaz Arefian

*A study on Italian disaster recovery system in comparing to Japan during living in temporary shelter.*  
 Satoshi Otsuki, Hidehiko Kanegae, Paola Rizzi, Hiroari Shimizu

*Seismic microzonation as a preventive measure for the conservation of historical heritage.*  
 Patricia Alarcón, M.Cristina Garcia-Nieto, Manuel Navarro, Marcos A. Martínez-Segura

*Streets and squares are not in our plans: reflections about urban public open spaces and post-earthquake reconstruction.*  
 Lee Boshier, Ksenia Chmutina, Monia Del Pinto, Falli Palaiologou

10:45 - 11:15 **Coffee break**

11:15 - 13:15 Thematic Session 3C:  
**Cultural heritage as a mean to building resilience.**

Venue: Aula Magna Alessandro Clementi

Chair: Dr. Patrizia Montuori

*Loss, recovery, resilience and hope for cultural heritage in Christchurch.*  
 Catherine Forbes, Amanda Ohs

*The local heritage as a mean to build resilience: the case of Arquata del Tronto in the Marche Region.*  
 Lucia Barchetta, Enrica Petrucci

*Urban resilience in the informal settlement: Makoko risk and adaptation.*  
 Silas Lamai

Thematic Session 3B:  
**Knowing the city, owning the city.**

Venue: Aula OA

Chair: Prof. Antonella Nuzzaci

*London's Grenfell Tower tragedy interpreted as a cascading disaster.*  
 David Alexander

*The urban regeneration of Nicosia, the borders city.*  
 Alessandro Bruccoleri, Silvia Covarino

*Rebuilding: urban and social reconstruction. L'Aquila and the seismic crater ten years later.*  
 Federico Eugeni, Luana Di Lodovico

Special Session:  
**Reconstruction between past and present.**

Venue: Aula OA

Chairs: Prof. Andrew Hopkins & Prof. Simonetta Ciranna

*Historical centers and post seismic reconstructions: experiences compared.*  
 Carla Bartolomucci

*The inverted pyramid. The reconstruction of Venzone after the 1976 Friuli earthquake.*  
 Alessandra Ferrighi

*Antigua Guatemala, from history of disasters to resilient future.*  
 Barbara Minguez Garcia

*Knowledge of historical heritage as a basis for a conscious and resilient reconstruction. The case of Arquata Del Tronto (AP).*  
 Giulia Brunori, Michele Zampilli

*The preservation of rural landscapes as a tool for building resilience in the context of small towns: insights from North Italy.*

Paola Branduini, Fabio Carnelli

*The role of traditional dancing in revitalising disaster-stricken areas after the Great East Japan Earthquake: a case study of Fudai village in Iwate prefecture.*

Miwako Kitamura

13:15 - 14:15

**Lunch Break**

14:15 - 16:00

Thematic Session 3D:  
**Public engagement and civic participation. / Information technology and civic resilience.**

Venue: Aula Magna Alessandro Clementi

Chair: Massimo Prosperococco

*Rebuilding engagement from the ground up.*  
 Barnaby Gunning, Lucia Patrizio Gunning

*An assessment of the Participatory Action-Research experience in L'Aquila ten years after the earthquake.*  
 Lina Calandra

*Photography for the city.*  
 Simona Manzoli

*Risk management and social participation. An Italian question.*  
 Piero Farabollini, Francesca Lugerì

*Bondings between urban fabric and capacity of collective resilience: the case of Talca historic center.*  
 Giulia De Cunto

16:00 - 16:30

**Coffee break**

16:30-17:15

**Conference closing**

Venue: Aula Magna Alessandro Clementi

- Remarks by co-conveners
- Reflections and suggestions

17:15-18:45

**City sightseeing tour by bus**

*Schools, C.A.S.E., Church of Santa Maria and Cryptas and more...*

**Meeting point:** Viale Nizza, outside Dipartimento di Scienze Umane

*Giuseppe Torres's "Asymmetric Patent for Homes". The original reconstruction of Messina after the earthquake of 1908.*

Marco Marino

*The Marsica one hundred years later.*

Simonetta Ciranna

*Ancient city of the future. Notes on the reconstruction of Beirut.*

Federico De Matteis

Thematic Session 3E:

**Pre-crisis masterplanning and preparedness. / Engaging the next generation.**

Venue: Aula OA

Chair: Silvia Covarino

*The loudest silence before a next Nankai Earthquake: disaster preparedness in Susaki town, Japan.*

Satoshi Otsuki, Paola Rizzi, Sarunwit Promsaka Na Sakonakron, Laura Pistidda, Masahiro Shiotsuki

*Reconstruction after a "programmed" disaster: the construction of a dam. The cases of Zuri and Cantalupo Ligure (Italy).*

Irene Ruiz Bazán, Chiara Lucia Maria Occelli, Riccardo Palma

*Bell towers under (seismic) attack: how to save a symbol, once it turned into a menace.*

Eva Coisson, Lia Ferrari, Federica Ottoni

*Regeneration, indirect approach toward historical urban resilience and reconstruction.*

Arezoo Khazanbeig, Nima Tabrizi

*Dropout, resilience and cultural heritage: a focus of the ACCESS Project in a highly fragile area.*

Iole Marcozzi, Antonella Nuzzaci



# RECONSTRUCTION, RECOVERY AND RESILIENCE OF HISTORIC CITIES AND SOCIETIES

## SPECIAL SESSIONS

### BOOK LAUNCH: CONVERSATION WITH EDITORS DR. JEFF CODY AND DR. FARNAZ AREFIAN

This interactive session celebrates the publication of two books dealing with urban heritage in historic cities. These resourceful books provide complementing perspectives at global and regional levels and address the existing gap in the published literature on the subject matter. Editors Dr. Jeff Cody and Dr. Farnaz Arefian will present the books in conversation with conference participants. The session will be moderated by Prof. Julio Davila.

#### Historic Cities: Issues in Urban Conversation

Edited by Jeff Cody and Francesco Siravo, published by The Getty Conservation, Institute, Los Angeles, US

This book, the eighth in the Getty Conservation Institute's Readings in Conservation series, fills a significant gap in the published literature on urban conservation. This topic is distinct from both heritage conservation and urban planning, and despite the recent growth of urbanism worldwide, no single volume has presented a comprehensive selection of these important writings until now. This anthology, profusely illustrated throughout, is organised into eight parts, covering such subjects as geographic diversity, reactions to the transformation of traditional cities, reading the historic city, the search for contextual continuities, the search for values and the challenges of sustainability. With more than sixty-five texts, ranging from early polemics by Victor Hugo and John Ruskin to a generous selection of recent scholarship, this book thoroughly addresses regions around the globe. Each reading is introduced by short prefatory remarks explaining the rationale for its selection and the principal matters covered. The book will serve as an easy reference for administrators, professionals, teachers and students faced with the day-to-day challenges confronting the historic city under siege by rampant development.

#### Urban Heritage along the Silk Roads: A Contemporary Reading of Urban Transformation of Historic Cities in the Middle East and Beyond

Edited by Fatemeh Farnaz Arefian and Seyed Hosein Iradj Moeini, published by Springer

Addressing a very timely and relevant subject with a regional focus, this book examines examples of contemporary situation of historic regions in the Middle East and its broader geographic context connected to the historic trade routes. However, the region faces rapid urbanization, globalization

and urban economic pressures, in addition to conflicts and frequent destructive natural hazards. It is often the case that dealing with such pressing issues in a historic city is more complex than dealing with those in newly built cities and urban areas. The book offers cross-disciplinary and cross-sectoral perspectives on subjects as the process of reconciliation between cultural identity and urban heritage, governing urban heritage and the adaptation of new strategies and technologies for urban governance, contemporary use of historic buildings and fabrics and post-war reconstruction. Based on carefully selected and updated papers from the Silk Cities International Conference 2017, this book provides evidence based scientific material for a better understanding of the real-world issues that are useful for researches, students, practitioners and policy makers, who must deal with the realities of working in historic cities.

#### SESSION ON SCHOOLS IN L'AQUILA

Ten years after the earthquake of 6 April 2009, school buildings in L'Aquila have yet to be rebuilt. In an area that continues to be prone to earthquakes, the lack of safe schools represents a constant worry affecting both children and parents. Most children are still educated in temporary containers or in schools which were not re-built but partly repaired and put back to use after the earthquake, pending further evaluation which has yet to be carried out. One such evaluation made in August last year resulted in the closure of the Liceo Classico, which then had to accommodate its students in five different buildings, with a timetable in rotation with students from other schools.

A group of parents has formed into a 'Comitato Scuole Sicure' (committee for safe schools) demanding attention and answers from the local administrators responsible for the decision making. To date the public administration has come up with no clear plan; instead uncertainty remains both in relation to where replacement schools should be located and regarding the kind of structures that should be created.

A special session on schools will be held in the afternoon of the 11th of July at the Sala del Consiglio in the Provost's Office of the University of L'Aquila to discuss the issue of schools in L'Aquila. Involving local voices together with decision makers, it will aim to progress the understanding of the future of education in L'Aquila and the role of education buildings in providing security and acting as a stimulus to urban regeneration. The round table will be coordinated by Professor David Alexander from the UCL Institute for Risk and Disaster Reduction of University College London.

### EXHIBITION: PEOPLE, RITUALS AND PLACES FROM THE OUTSKIRTS OF L'AQUILA AFTER THE EARTHQUAKE

Project by: Centro Sperimentale di Cinematografia Abruzzo  
Location: Palazzo Camponeschi, Università degli Studi,  
Piazza Santa Margherita 2, L'Aquila

The Abruzzo branch of the Centro Sperimentale di Cinematografia (Experimental Centre of Cinematography) is proud to introduce to the public a photographic exhibition which presents a reinterpretation of the city territory from the perspective of the periphery. The exhibition features the work of students on the Reportage course and includes about 100 large format prints together with written, video and audio reportages. Supervised by the course tutors, the work paints a complex portrait full of sparks and nuance that show not only the difficulties but also the resources and potential of the city's territories where the peripheries are often characterised by strong identities. Narrating the outskirts of L'Aquila is a difficult undertaking - whilst the historic city centre was abandoned for a long time following the earthquake, for it to regain its life these peripheries and their dialogue with the city center need to be considered; they each have their own history and character and will have roles to play in regenerating the whole urban organism.

### RECONSTRUCTION BETWEEN PAST AND PRESENT: COMPARING HISTORICAL CITIES

Prof. Simonetta Ciranna, Prof. Andrew Hopkins

As part of the conference: "Reconstruction, Recovery and Resilience of Historic Cities and Societies", our session dedicated to reconstruction between past and present: comparing historical cities, seeks to examine the specific experiences of reconstructions carried out during the twentieth century and up to the present in different geographical contexts.

Through the analysis of different historical and cultural situations, this session intends to compare operating principles, methodologies and practices implemented in emergency circumstances, with the aim of highlighting regulatory developments, significant experiences, models to be proposed, mistakes to be avoided.

Scholars of different backgrounds and disciplines are invited to participate (in particular from Italian regions affected by earthquakes in the period indicated) in what we aim to make a wide-ranging discussion at an international level: a distinct aim is to also tease out potential future modes of intervention given awareness of the experiences and experiments carried out over more than a century, in historic cities and on 'fragile' architecture, built environments and territories hit by destructive events.

## TOURS

### Walking Tour of the City Centre Reconstruction, 10 July 2019, h.16:30-18:00

Professor Antonello Salvatori and in parallel 'Officina L'Aquila' will accompany the participants on guided walking tours. The participants will visit completed, ongoing and non-commenced reconstruction sites including public and private examples, public spaces, schools and churches. Make sure you wear comfortable shoes for these tours.

### Sightseeing Tour, 12 July 2019, h.16:30

Departure from the Faculty of Human Science for a tour of the school buildings, Progetto CASE, and church of Santa Maria ad Cryptas by bus.

## GUEST SPEAKERS

### Architetto Alessandra Vittorini

Soprintendente, Soprintendenza Archeologia, Belle Arti e Paesaggio per la città' dell'Aquila e i comuni del cratere Ministero dei beni e delle attività culturali

Superintendent for Archaeological, Artistic and Architectural Heritage and Landscape for L'Aquila and its Seismic Crater, architect with a Phd in Urban Planning, has done research, exhibitions, conferences and publications on architecture, urban planning and restoration, in Italy and abroad. MIBAC architect since 1990, she became Superintendent in 2012, mainly involved in cultural heritage restoration and landscape conservation after the 2009 earthquake in L'Aquila. She directed the Superintendence's team in charge of the restoration of the Collemaggio Basilica in L'Aquila, completed in 2017, and has presented the 2009 post seismic reconstruction of cultural heritage in several conferences and meetings in Italy and abroad (Paris 2016, Istanbul 2016, Cambridge 2017, Fabriano XIII Meeting UNESCO Creative Cities 2019).

### Title: L'Aquila 2009 > 2019. Back to the future

The post-earthquake reconstruction of L'Aquila represents an extraordinary experience of management, protection and restoration of cultural heritage, fully supported by public funds. This process was further complicated from 2016, by the subsequent earthquakes which devastated Amatrice and a large part of Central Italy, not far from L'Aquila.

The definition of the governance and the legal framework of the reconstruction, the challenging tasks of restoring cultural heritage and the planning and technical-economic evaluations of interventions, are some of the main topics managed in the integrated approach assigned to the Superintendence for L'Aquila and its Seismic Crater, the first such Superintendence in Italy with combined powers in monumental, historical, artistic, archaeological and landscape fields.

This has given us an extraordinary overview of a complex process, due to the importance of the cultural heritage, the severity of the damage, and the solutions found. It has also been a very strong opportunity for study, research and scientific discussion on the post-earthquake recovery of cultural heritage. The most interesting case - for us and for the whole reconstruction - has been the coordination of the largest privately funded intervention in L'Aquila: the restoration of the Basilica of S. Maria di Collemaggio, site of the Perdonanza Celestiniana.

The achievements of our work in this ten-year reconstruction have been presented at several scientific meetings in Italy and abroad, with the aim of sharing experiences and best practices, to make these available to the scientific community and to the decision makers in Italy and in Europe.

It is an engagement that forces us to face different difficulties in order to ensure safety, urban regeneration, structural and technological improvement, energy efficiency, landscape protection and, especially, good and proper use of the restoration methodology.

As 2016 ICOMOS Post trauma reconstruction Colloquium declared, in the face of destruction many issues need our attention: identity, memory, tradition and innovation. Therefore reconstruction means also creating new identities and new relationships. And must focus on rebuilding not only stones, houses and cities, but also the connections between people, spaces and relationships. This is a process that needs the contribution of all the players in the game and that can proceed only with a shared commitment to common goals: giving back to every city its people, and at the same time, giving back each community to its identity and its history. Back to its memory and, finally, back to its future.

### Dr Florian Mussgnug

School of European Languages, Culture and Society (SELCS), UCL

Dr Florian Mussgnug's research focuses on modern and contemporary literature in Italian, German and English. He currently works on radical artistic practice, the post human and on cultural representations of catastrophe and apocalypse. Educated in Germany, Britain and Italy, he has double interest in literature and critical theory – originally prompted by an undergraduate degree in Philosophy and Italian at Balliol College, University of Oxford. He is co-investigator for a large AHRC-funded research project, "Interdisciplinary Italy 1900-2020: Interart/Intermedia". He is the founding director of the UCL undergraduate programme in Comparative Literature and the first academic director of UCL's Cities partnerships Programme (CpP).

### Title: Writing for a Broken World: Literature and Catastrophe in the Twenty-First Century

The opening decades of the Twenty-First Century have witnessed an unprecedented surge of apocalypse fiction, a genre that is perhaps best understood as an ongoing exploration of what will remain, or what ought to remain, of homo sapiens after a global catastrophe. Climate change, resource depletion and social collapse are just some of the terrifying scenarios that are endlessly replayed in these narratives. My lecture maps this growing interest in narratives of emergency, and focuses on survival in a damaged world. Drawing from twenty-first century literature in English, German and Italian, I argue that apocalyptic thinking plays a key role in contemporary conceptions of human vulnerability, shaping pervasive stories and values. I will specifically refer to three broad, cross-disciplinary concepts: revelation, resilience and radical hope, and will argue that each term corresponds to a different social and political conception of apocalypse fiction: as an articulation of anxious paralysis, a site of progressive activism and a means to building more liveable futures.

### Prof. Mauro Dolce

Director General at Italian Department of Civil Protection (DPC) & Professor of Structural Engineering at the University of Naples, Federico II

Prof. Mauro Dolce has coordinated the Civil Protection monitoring, prevention and mitigation activities related to seismic risk and technical emergency management of the 2009 Abruzzi, 2012 Emilia, 2016 Central Italy earthquakes. He has coordinated the Italian seismic structural prevention programs and the relationships of DPC with the scientific centres for seismic and volcanic risk. Research activities have been related to Earthquake Structural Engineering and Seismic Vulnerability and Risk assessment resulting in more than 400 scientific papers, 20 volumes and 8 patents. He is the Chairman of the Governing Board of the Global Earthquake Model (GEM) Foundation (2015-).

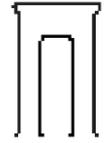
### Title: The Emergency Management of the 2016–2017 Central Apennines Seismic Sequence: Analogies and Differences with Recent Italian Earthquakes

On August 24th, 2016, a severe, very long seismic sequence started in Central Italy. It was characterized by nine major shocks M5+, two of which with moment magnitude Mw 6.0 (August 24th, 2016) and 6.5 (October 30th, 2016). A complex seismogenic fault system was activated, with the rupture of several segments.

The affected area, which develops in NNW-SSE direction along the Apennines, was very large, due to both the large magnitude values and the distance among the epicenters of the nine major shocks, and interested 4 Italian Regions. The maximum observed (cumulated) macroseismic intensity was XI in both MCS and EMS scales. After 1 year, 78,500 seismic events had been recorded by the National Institute of Geophysics and Volcanology national seismic network. 299 people lost their life, all due to the first main shock. Devastating damage was experienced by residential and public buildings, cultural heritage, roads and other lifelines, resulting in huge economical direct losses.

The emergency response was coordinated, according to the Law 225/1992, by the Italian National Department of Civil Protection. The main scientific features of the sequence and the main technical emergency activities are shown, discussed and, when possible, compared to the main recent Italian earthquakes, i.e., 1997 Umbria-Marche, the 2009 Abruzzo and 2012 Emilia earthquakes, pointing out analogies and differences.

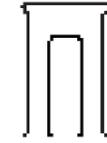




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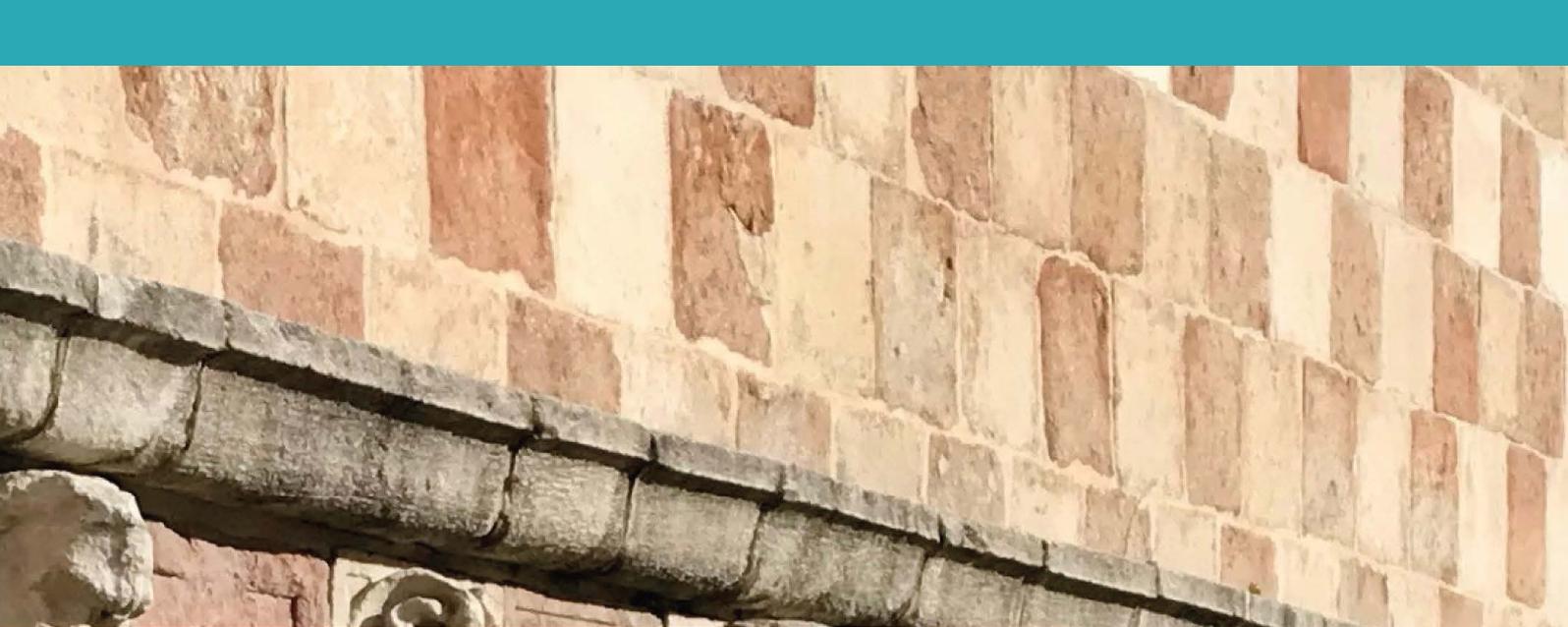
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**RECONSTRUCTION, RECOVERY AND RESILIENCE  
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## Silk Cities

Silk Cities is an independent academic and professional initiative for contextual knowledge exchange, research and advocacy. The 'Silk Cities' initiative is concerned with contextual urban challenges that historical cities in countries along the historic Silk Roads face within the process of urban transformation, as a result of their historic past. Those most concerned are urban heritage, disaster risk reduction and post crisis reconstruction, urban design and public spaces, community development, as well as urban development management. By using the narrative of the urban Silk Roads we tap on the notions of connectivity and exchange, historical presence that is reflected in city characteristics and urban life, and contextual contemporary challenges. Silk Cities' initial focus area has been these cities in the Middle East and Central Asia.

