

Program

Resilient Cities 2019

The 10th Global Forum on Urban Resilience and Adaptation

Delivering Local Resilience

26 - 28 June 2019 | Bonn, Germany

Patronage

**Patricia
Espinosa**

Executive Secretary
of United Nations
Climate Change

**Mami
Mizutori**

Special Representative
of the UN Secretary-
General for Disaster
Risk Reduction; Head
of UNDRR

**Maimunah
Mohd Sharif**

Executive Director of
the United Nations
Human Settlements
Programme, UN-
Habitat

**Norbert
Barthle**

Parliamentary State
Secretary to the
German Minister for
Economic Cooperation
and Development

**Ashok
Sridharan**

Mayor of Bonn;
President, ICLEI – Local
Governments for
Sustainability



**Ashok Sridharan**

Mayor of Bonn, Germany

President, ICLEI – Local
Governments for
Sustainability

Co-Patron of
Resilient Cities 2019

Welcome to the 10th edition of Resilient Cities, the world's leading platform for urban resilience and climate adaptation!

Since 2010, the Resilient Cities Congress series have grown into a valuable format for urban leaders, expert researchers and implementation partners. Green-blue infrastructure, circular economy, resilient lifestyles, digitalization, scientific findings in the urban context, financing as well as social coherence and inclusion are only some of the aspects that will be addressed during the Congress. In order to advance urban resilience and local implementation of the 2030 Agenda for Sustainable Development, speakers and participants will find links and connect agendas, feeding into transformative action in all areas of life.

2019 marks three anniversaries: In 1999, Bonn joined the ICLEI network. In 2009, the ICLEI Climate Program came to Bonn, followed by the World Secretariat one year later. And we are now celebrating the 10th edition of the Resilient Cities Congress. The first edition saw the launch of the "Making Cities Resilient Campaign" – entering its next phase shortly.

This Congress will happen back to back with the UNFCCC June Climate Talks and I am looking forward to a multilevel dialogue taking place within the UN programme, including the local and regional level.

2019 also is a year of milestones to come. Next will be the United Nations Climate Summit in New York in September, followed by the High-Level Political Forum on the SDGs. The input we are bringing together here in Bonn will be instrumental for the advocacy of cities and regions at these two occasions.

As president of ICLEI and Co-Patron of Resilient Cities 2019, I am excited to hear about your experiences and shared insights. Let us work together to stimulate cross-cutting dialogues and to find the best solutions!

**Maimunah Mohd
Sharif**

Executive Director of the
United Nations Human
Settlements Programme,
UN-Habitat;

Co-Patron of
Resilient Cities 2019

I am delighted to join my fellow Co-Patrons in warmly welcoming you to the Resilient Cities 2019 Congress.

The high level of engagement by all actors present at the annual Resilient Cities Congress is a great source of inspiration for me. As head of the United Nations Human Settlements Programme, I am particularly encouraged to see and learn from the actions of city leaders striving to make cities inclusive, safe, resilient, and sustainable.

I am proud to celebrate the 10th anniversary of this important forum as a Co-Patron, together with ICLEI – Local Governments for Sustainability, the United Nations Climate Change, and other partners. Together, by making cities more resilient, we can achieve our common global commitments, articulated in the Paris Agreement, the Sustainable Development Goals, the Sendai Framework for Disaster Risk Reduction, and the New Urban Agenda, leaving no one and no place behind.

Cities are drivers of prosperity and development. Their development policies, the way in which they operate, and grow, all influence climate change in multiple ways. At the same time, they are particularly vulnerable to natural and man-made disasters, including those triggered by climate change. It is our joint imperative to strengthen the resilience of cities and to enable them to be engines of socio-economic progress, while mitigating the negative impacts of such progress. Globally, the communities most vulnerable to disasters are the urban poor.

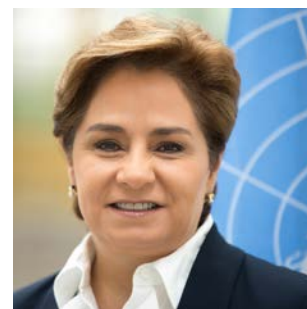
As we make cities more resilient, we have the imperative to protect the urban poor and support their development. Climate action, disaster risk reduction and sustainable cities are different facets of the same challenge. Let us combine our efforts to identify solutions for the communities, settlements and nations most in need. I would like once again to congratulate the organisers on this 10th anniversary, and I wish you a productive Resilient Cities 2019 Congress.

With the adoption of the Katowice Climate Package at COP24, the world has entered a new era in our collective efforts to address climate change. It was an enormous accomplishment representing an incredible amount of work at both the state and non-state level. It was a triumph for multilateralism. And while some tasks remain, its adoption was crucial. If pre-Katowice efforts focused on defining the Paris Agreement, this new era is about enhancing national ambition to implement it. Cities will play an enormous role in that process. That is why Resilient Cities 2019, the 10th Global Forum on Urban Resilience and Adaptation, is so important, and why I am pleased to be a Co-Patron.

We must remember that building more resilient cities is about more than simply addressing climate change. Because climate change is connected to so many of the most significant issues humanity currently faces, by addressing it we can also address issues related to poverty, equality, and resource management, as well as infrastructure, transportation, and much more. This work is crucial to not only fulfilling the Paris Agreement, but the 2030 Agenda for Sustainable Development and the Sendai Framework for Disaster Risk Reduction.

These three global agendas have core alignments; pursuing them together will increase impact and efficiency. What is more, resilience is a unifying concept, bringing together adaptation, sustainable development, and disaster risk management across sectors, governing levels, and communities.

I have said before that the fight against climate change will be won or lost in our cities. Your work here, therefore, is important, influential, and critical to our future success. As the recent IPCC Report tells us, we have a very limited amount of time left to make a real and lasting difference in the fight against climate change. Let your work here reflect both that urgency and the need for solutions.



Patricia Espinosa

Executive Secretary of United Nations Climate Change

Co-Patron of
Resilient Cities 2019

When the UN Office for Disaster Risk Reduction launched the Making Cities Resilient Campaign nine years ago, it was partly responding to the changing face of disaster risk as, for the first time in human history, more people were living in an urban rather than a rural environment. The urbanization trend has accelerated over the last decade. A deeper understanding of the disaster risks particular to urban settings has led to 4,200 cities and towns joining the urban resilience campaign coordinated by UNDRR, and making a commitment to deliver on its Ten Essentials to-do list for managing urban risk. The Making Cities Resilient Campaign responds to the Sendai Framework for Disaster Risk Reduction 2015-2030 adopted by UN Member States, which lays out seven global targets for reducing disaster losses including reductions in mortality, the numbers of disaster affected people, economic losses and damage to critical infrastructure.

In 2016, we launched the “Sendai Seven” Campaign to promote action on these targets. This year the focus is on target (d), reducing damage to critical infrastructure, an issue of vital concern to local governments and municipalities across the world. In addition, target (e), focused on increasing the number of national and local disaster risk reduction strategies by 2020, is critically important for effective implementation of the entire Sendai Framework for Disaster Risk Reduction. There are many references in the Sendai Framework which speak to the role of local authorities in urban environments, both in the immediate aftermath of a disaster and for longer-term planning needs. One key provision is “to promote the resilience of new and existing critical infrastructure, including water transportation and telecommunications infrastructure, educational facilities, hospitals and other health facilities, to ensure that they remain safe, effective and operational during and after disasters in order to provide life-saving and essential services.” This must be at the centre of efforts to implement Sendai Framework target (e).

It is my hope that Resilient Cities 2019 will provide a platform for triggering action around risk-informed critical infrastructure and, most importantly, encouraging governments and local authorities to act now on developing national and local disaster risk reduction strategies by 2020. This is vital to the overall success of the 2030 Agenda for Sustainable Development, including key goals around poverty and hunger. I am sure that Resilient Cities 2019 will be an excellent forum for encouraging local governments to make progress on these critical issues and to take inspiration from others who are already implementing their strategies to protect people's urban futures.



Mami Mizutori

Special Representative of the UN Secretary-General for Disaster Risk Reduction; Head of the United Nations Office for Disaster Risk Reduction

Co-Patron of
Resilient Cities 2019



Norbert Barthle

Parliamentary State
Secretary to the German
Federal Minister for
Economic Cooperation and
Development

Co-Patron of
Resilient Cities 2019

The Resilient Cities Congress is going into its 10th edition in Bonn – and it all began with the BMZ as a patron of the very first congress! In these 10 years, the Resilient Cities Congress has become the largest forum of municipalities meeting to discuss climate change adaptation and resilience. In these 10 years, ICLEI has brought together representatives from cities and municipalities with scientists, politicians, civil society and companies to talk about innovative approaches to urban resilience. And in these 10 years, unfortunately, the issue of urban resilience has become more and more pressing.

Why unfortunately? Because climate change continues unchecked. We are still heading for a world that will be three to four degrees warmer than it was before the age of industrialisation began; a world in which sea levels will still be rising a century from now. And a world in which growing cities, in particular, will need to protect their populations from the consequences of climate change. Many cities have made significant progress since the first Resilient Cities Congress was held. But that is not enough. In view of the challenges we are facing, we need better, faster and more far-reaching measures to make cities resilient against climate change. We are supporting our partners around the world in their efforts to address climate change, for instance by promoting green infrastructure in Jordanian cities, by improving flood control systems in Bangladesh or by piloting innovative measures such as climate risk finance and insurance as part of a preventive approach to addressing climate change.

But individual measures alone will not suffice. What we need is mutual learning, discussions about concrete solutions in exchanges between equal partners – regardless of the country or the city a person comes from. And that is precisely what the Resilient Cities Congress has been offering for the past 10 years. As a Co-Patron I invite you to join in! Share your experience, approaches and ideas with us – together let us make our cities fit for the future.



Gino Van Begin

Secretary General,
ICLEI – Local Governments
for Sustainability

A warm welcome to all the participants of the 10th ICLEI Resilient Cities Congress in Bonn! Ten years ago, we launched our first Resilient Cities Congress in Bonn, Germany, to respond to what we saw as a growing and largely unaddressed need of our Member cities to plan for the uncertain impacts of climate change in an integrated manner. At the time, resilience was a relatively new concept in the international community. However, during these 10 years, it has become painfully clear that risks and hazards from climate change in particular are not a distant threat, but rather a very present reality.

Each year, the world suffers from ever-worsening climate-related disasters and losses. Every year between 2015 and 2018 has been a record warmest year, clearly indicating that the long-term warming trend continues and has not peaked yet; the oceans' temperature is at a record high as sea levels continue to rise. Climate change is a global problem, but it is one with highly localised consequences. And these risks are not evenly distributed – they are concentrated in urban areas and disproportionately affect poor and disadvantaged populations. For these reasons, cities and their stakeholders have a crucial role and responsibility to prepare and adapt to climate change.

Since our first Resilient Cities Congress in 2010, we are pleased to see that resilience has gone from a fringe topic to a mainstream policy approach at all levels. Today, 20 % of our ICLEI cities are adopting planning approaches that consider mitigation, adaptation, and urban development together. In addition, more cities have completed their initial risk assessments and planning stages and are moving towards implementation. Resilient development requires strong efforts of collaboration among all levels of government. With the Paris agreement in place as well as through the 2030 Agenda for Sustainable Development, the SDGs, and the Sendai Framework, local and regional governments now have a central role as partners with nations to achieve the targets set by the international community.

With this 10th edition of the ICLEI Resilient Cities Congress – which also takes place as we celebrate the jubilee of 10 years of the ICLEI World Secretariat in Bonn – we aim to provide you with a highly valuable networking platform during which you can learn, discuss and exchange all that we have learned in 10 years, as well as new efforts in the field of urban resilience. We know the productive and inspiring discussions at the Resilient Cities 2019 Congress will resonate among the political leaders, practitioners, funders and representatives of the international community and civil society in attendance and those following along on social media and other channels. We are grateful for your long-standing contributions and input to the ICLEI Resilient Cities Congresses as host, as co-patrons, as partners, as supporters and as participants, in the past and today.

Program Committee

The Program Committee of the Resilient Cities 2019 Congress is composed of experts from local governments and partner organizations centrally involved in the theme of urban resilience and climate change adaptation. Program Committee members provide advice on congress themes and support the review process of the call for contributions.

Chair: Monika Zimmermann, Expert Urban Sustainability and Moderator; Former Deputy Secretary General, ICLEI - Local Governments for Sustainability

- **Anthony Socci**, Senior Lead on International Resilience and Adaptation Policy, US Environmental Protection Agency, Washington DC, USA
- **Carmen Vogt**, Senior Policy Advisor for Urban Development and Cities and Climate Change, Project Manager "Sustainable Development of Metropolitan Regions", Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Eschborn, Germany
- **Carrie Mitchell**, Assistant Professor at School of Planning, University of Waterloo, Waterloo, Canada
- **Cynthia Rosenzweig**, Senior Research Scientist and Head of the Climate Impacts Group, NASA Goddard Institute for Space Studies; Co-Director, Urban Climate Change Research Network, Columbia University, New York, USA
- **David Dodman**, Director of Human Settlements Group, International Institute for Environment and Development (IIED), London, UK
- **David Jácome Polit**, Director of Resilience, Municipality of the Metropolitan District of Quito; Chief Resilience Officer, Quito, Ecuador
- **Freddie Aucamp**, Divisional Head, Environmental Strategic Planning, City of Ekurhuleni, South Africa
- **Jason Hartke**, Supervisory Program Manager, Commercial Buildings Integration, US Department of Energy, Washington DC, USA
- **Jiahua Pan**, Director of Institute for Urban and Environmental Studies, Chinese Academy of Social Sciences (CASS), Beijing, China
- **Josef Leitmann**, Team Leader of Resilient Recovery and Urban Resilience, Global Facility for Disaster Reduction and Recovery, The World Bank, Washington DC, USA
- **Katharina Schneider-Roos**, CEO, Global Infrastructure Basel Foundation (GIB), Basel, Switzerland
- **Koko Warner**, Manager of Impacts, Vulnerabilities and Risks Subprogramme, Adaptation Programme, United Nations Climate Change, Bonn, Germany
- **Lykke Leonardsen**, Head of Program for Resilient and Sustainable City Solutions, City of Copenhagen, Denmark
- **Martin Voss**, Head of Disaster Research Unit and Professor, Institute of Social and Cultural Anthropology, Freie Universität Berlin, Germany
- **Nicola Tollin**, Executive Director of RESURBE International Program on Urban Resilience, Recycling Cities Network (RECNET), Barcelona, Spain; Professor (MSO) of Urban Resilience, University of Southern Denmark (SDU), Odense, Denmark
- **Robert Kehew**, Unit Leader of Climate Change Planning Unit, Urban Planning and Design Branch, United Nations Human Settlements Programme, UN-Habitat, Nairobi, Kenya
- **Sanjaya Bhatia**, Head of Office for Northeast Asia (ONEA) and Global Education and Training Institute (GETI), United Nations Office for Disaster Risk Reduction (UNDRR), Incheon, South Korea
- **Vhalinavho Khavhagali**, Co-Chair of the Warsaw International Mechanism for Loss and Damage, United Nations Climate Change; Biodiversity and Climate Change Adaptation Specialist, Cape Town, South Africa
- **Violeta Somera Seva**, Senior Advisor to the Mayor, Makati City, Philippines



Research Urban Matters

IDRC at Resilient Cities 2019

idrc.ca/climatechange | idrc.ca/urban-resilience 

Research is critical to informing climate action in cities.

Join our researchers in these sessions:

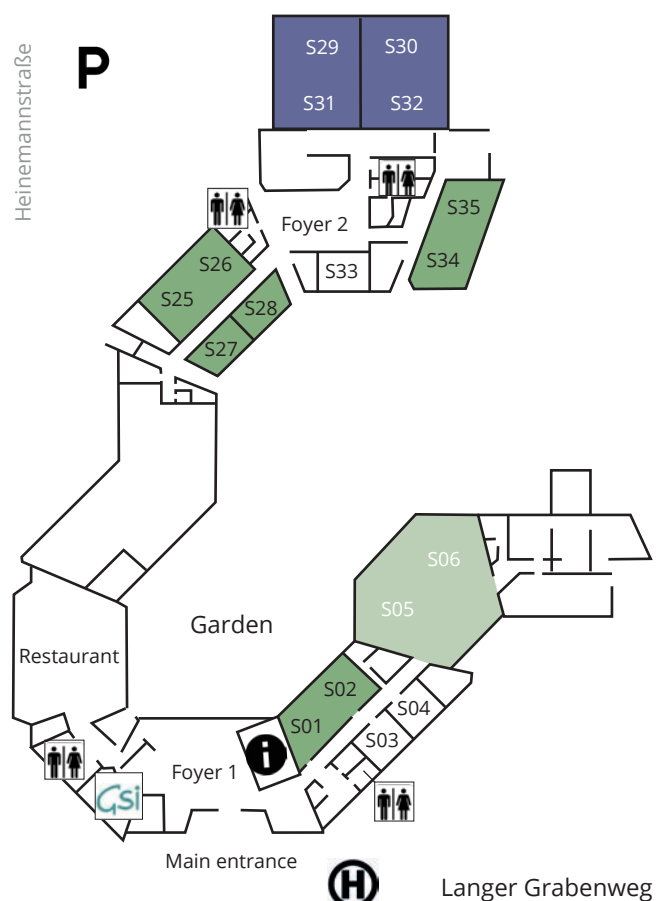
- **Wednesday June 26** | 16:00-17:30 | S29-31
B1 WORKSHOP: Tools and Games for better dialogue among stakeholders: Examples from Africa
- **Friday June 28** | 11:00-12:30 | S01-02
I3 PANEL: Tackling complex urban challenges: the role for collaboration
- **Friday June 28** | 13:30-15:00 | S01-02
J3 PANEL: Incorporating gender considerations into climate resilient planning and implementation: Lessons from Southern cities

Resilient Cities 2019 will include:

- | | |
|--------------------------|-------------------|
| 3 Plenary sessions | 2 Poster sessions |
| 41 Parallel sessions | 5 Site visits |
| 3 CiBiX | Exhibition |
| 1 Reality Check Workshop | |

Tuesday 25 June: European Urban Resilience Forum

registration required



Map key

- Plenary room
- Session rooms
- Exhibition area

- Registration desk
- Hotel reception desk
- Restroom
- Bus stop
- Parking lot



Meet the participants

Wednesday 26 June

08:00 - 09:30 Registration

09:30 - 10:30 OPENING PLENARY Part 1 S29-32

10:30 - 11:00 Coffee break S05-06



11:00 - 12:20 OPENING PLENARY Part 2 S29-32
"10 years of ICLEI's urban resilience action: Legacy and road ahead towards 2030"

12:20 - 14:00 Lunch

12:30 - 15:00 Mayors' lunch**

13:00 - 14:00 Poster session S05-06

15:00 - 18:00 UNFCCC joint event on multilevel action**

14:00 - 15:30 PARALLEL SESSIONS A

A1	Presentations S29-31	Tracking the progress of urban resilience
A2	Panel S01-02	Urban adaptation through linking local action to global policy
A3	Panel S30-32	Resilience through innovative landscapes
A4	Presentations S25-26	Linking data and science for resilience
A5	Workshop S34-35	Building inclusive multi-stakeholder and bankable flood resilience in cities
CiBiX S27-28		Workshop with Milan, Italy

15:30 - 16:00 Coffee break S05-06



16:00 - 17:30 PARALLEL SESSIONS B

B1	Workshop S29-31	Tools and games for better dialogue: Examples from Africa
B2	Workshop S01-02	UCCRN urban planning and design lab
B3	Panel S30-32	NbS for integrated planning framework
B4	Panel S25-26	Democratized, integrated and interoperable data
B5	Presentations S34-35	Resilience through multi-stakeholder collaboration and community engagement
CiBiX S27-28		Workshop with Malmö, Sweden

17:30 Welcoming cocktail



18:15 High-level dinner **



Live Reporting:

talkofthecities.iclei.org

Photos:

www.flickr.com/photos/icleiglobal

Twitter:

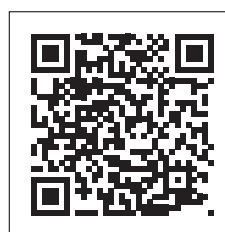
[@ICLEI_ResCities](https://twitter.com/ICLEI_ResCities)

Thursday 27 June			
09:00 - 10:30 PARALLEL SESSIONS C			
C1	Panel S29-31	Multicultural approaches to resilience of urban areas	
C2	Panel S30-32	Making Cities Resilient Campaign	
C3	Panel S25-26	International frameworks for resilient food systems	
C4	Presentations S01-02	DRR and resilience to weather-related extremes	
C5	Presentations S34-35	Improving urban water governance	
10:30 - 11:00		Coffee break	S05-06 ☕
10:30 - 11:00		Poster session	S05-06
11:00 - 12:30 PARALLEL SESSIONS D			
D1	Panel S29-31	Climate resilience in Northeast Asia	
D2	Panel S30-32	Finance Forum: High level session	
D3	Reality Check Workshop S25-26	Denver-Baltimore food systems resilience	
D4	Presentations S01-02	From national to local: Building urban resilience in Germany	
D5	Panel S34-35	The Urban Nexus: Tool to localize and deliver global agendas	
12:30 - 13:30		Lunch	🍴
13:30 - 15:00 PARALLEL SESSIONS E			
E1	Panel S30-32	Plenary training: Accessing finance	
E2	Panel S25-26	Plant-forward food systems	
E3	Workshop S01-02	Vulnerability and risk to heat (ZURES)	
SITE VISITS			
13:30 - 17:30		Federal Office of Civil Protection and Disaster Assistance (BBK)	
13:30 - 19:00		City of Essen	
15:00 - 18:00		Bonn Fire and Rescue Service	
15:00 - 18:30		North route excursion (Beuel)	
15:00 - 18:30		South route excursion (Mehlem)	
15:00 - 15:30		Coffee break	☕
15:30 - 18:00 PARALLEL SESSIONS F			
F1	Panel S29-31	Make your pitch: TAP marketplace	
F2	Panel S30-32	Peer exchange GPSC cities	
F3	Workshop S25-26	Plant-forward food systems	
19:00		Reception dinner hosted by the City of Bonn	🍷

Friday 28 June		
09:00 - 10:30 PARALLEL SESSIONS H		
H1	Panel S29-31	NbS to increase local resilience globally
H2	Panel S30-32	Resilience, sustainability and cities: How city managers can engage with the insurance industry effectively?
H3	Workshop S01-02	ICLEI resilience methodology
H4	Presentations S25-26	Delivering resilience for informal settlements in the Global South
10:30 - 11:00 Coffee break S05-06 ☕		
11:00 - 12:30 PARALLEL SESSIONS I		
I1	Presentations S29-31	Resilient constructions with NbS and restoration strategies
I2	Workshop S30-32	Upscaling climate risk management
I3	Panel S01-02	Tackling complex urban challenges through collaboration
I4	Workshop S25-26	Circular jobs in cities: The societal impacts of the circular economy
I5	Panel S34-35	South America shared vision for a long-term resilience based in nature
12:30 - 13:30 Lunch 🍴		
13:30 - 15:00 PARALLEL SESSIONS J		
J1	Panel S29-32	Resilient infrastructure for urban informality
J2	Panel S25-26	EcoLogistics: Freight transport in urban resilience
J3	Panel S01-02	Gender considerations in climate resilient planning and implementation
CiBiX S34-35		Workshop with Copenhagen, Denmark
15:00 - 15:15 Break		
15:15 - 16:30 CLOSING PLENARY S29-32		
16:30 Closing reception 🍷		

* Some session titles have been abbreviated

** By invitation only, see page 14 for more details



More on the program



Meet the speakers



Delivering resilience means turning plans into action at the local level. In order for resilience to have an impact on the ground, local and regional governments need to increase collaborative partnerships and encourage multi-stakeholder commitments.

The Delivering Resilience CiBiX Workshop Series will push the Congress beyond theory and best practice into future problem solving.

ICLEI's City-Business Collaboration Platform, helps to foster connections between our global network of cities and the private sector on key sustainability challenges and opportunities.

At Resilient Cities 2019, Copenhagen, Milan and Malmö will lead CiBiX workshops focused on creating early-engagement around a pressing need. Joining the workshops will be private sector and innovation leaders who are driving the development of innovative technologies and services relevant for each city challenge.

From digital resilience to disaster preparedness to decentralized energy, the workshop series will cover a range of critical issues that cities need to tackle to be able to take the next steps to strengthen their resilience outlook.

Milan, Italy



Milan is interested in improving its disaster preparedness and response capacity through the use of digital tools that enhance information sharing and stakeholder collaboration. The CiBiX workshop will explore the potential of an Emergency Management Information System (EMIS) in Milan and focus relevant opportunities and challenges outlined below.

Data Collection for Emergency Management: As part of emergency management, Milan is looking into innovative ways to collect data on traffic, routes and travel times in emergency situations. The city is eager to learn about experiences in developing and operating information technology components to collect data, as well as to explore opportunities of data sharing partnerships.

Data Integration and Use: Milan's EMIS project will need a constant flow of real-time data from diverse sources. Hence, the city is interested in discussing best practices for standardizing, integrating and analysing data for decision making in emergency situations. Insights on how to use an EMIS to share data to facilitate coordinated action among different stakeholders and services is also highly valuable.

Connecting Climate Change and Emergency Response: According to national regulation, Milan will need to begin to combine disaster emergency planning with prevention and climate change mitigation. This will help Milan to understand how to adapt their disaster preparedness and response plans to climate change risks and responsibilities.

Novel Partnerships for Resilience: The future of resilience planning will require Milan to not only work with existing providers of emergency services, but also collaborate with new actors involved in urban mobility, digitalization and Industry 4.0 as well as change consultants. Connecting these actors to discuss needs and barriers for partnerships related to urban resilience will also drive the cities future initiatives forward.

Malmö, Sweden



The City of Malmö is looking to engage experts and peer cities in a workshop that will tackle the current challenges below with foresight on how energy decentralization will impact the city's future resilience.

Affordable energy access: While energy cost per kWh in Sweden is one of the lowest in Europe, the cost of access to energy infrastructure is increasing. Ensuring widespread grid access is an important aspect for long-term energy resilience. Malmö is interested in identifying how cities support and improve access to quality infrastructure in a cost effective and equitable way for local residents.

Increasing grid flexibility: Characteristically decentralized energy means that there is more fluctuations and variation in energy supply leading to potential shortages or overloads. For Malmö, finding solutions that increase grid flexibility is essential to improve energy sustainability and reliability.

Energy resilience for electric mobility: A major aspect of Malmö's sustainability plans is the shift towards electric modes of mobility. However, the city anticipates that this will require considerable amounts of investment in new infrastructure and increased renewable generation capacity. How can electric transport scale in a way that doesn't strain current energy capacities?

Copenhagen, Denmark



The City of Copenhagen will lead a workshop on resilience and digitalisation, a critical challenge that is of growing importance for many cities. Digitalization is proving to be invaluable in expanding and strengthening resilience which is why it is essential that digital infrastructure, systems and tools are designed and managed in a resilient manner. Copenhagen will be sharing their experience and insights on the digital resilience challenges below but are also looking forward to learn from others' experiences.

Protecting and securing hard digital infrastructure: As the number of physical locations and hard infrastructures supporting digital systems expand, they are increasingly vulnerable to potential natural hazards and climate-related risks. Copenhagen is looking to explore resilience measures that protect these assets so that physical damage doesn't lead to a virtual system failure.

Responsible and transparent data use for resilience planning: Copenhagen is developing projects which utilize citizen data to improve urban services and increase information for effective resilience planning. However, the city would like to openly discuss challenges related to ethical and transparent data collection and use.

Security for data and digital platforms: Cyber risks for digital systems also pose a substantial threat to Copenhagen's resilience and security. Copenhagen is interested to learn how to strengthen their resilience profile on this and identify potential solutions to ensure responsible information use and privacy protection.

The **Resilient Cities 2019 Congress** offers five exciting site visits presenting know-how and best practices in disaster risk management, Nature-based Solutions, and protection of cultural and natural heritage from the German perspective.

Participants who have selected one of the following site visits:

- **13:30-17:30:** The Federal Office of Civil Protection and Disaster Assistance (BBK)
- **13:30-19:00:** The City of Essen

are kindly requested to be at the registration desk at 13:15. The buses will depart from the GSI venue at 13:30.

Participants who have selected one of the following site visits:

- **15:00-18:00:** Bonn Fire and Rescue Service
- **15:00-18:30:** North route excursion (Beuel)
- **15:00-18:30:** South route excursion (Mehlem)

are encouraged to attend the sessions taking place at the venue right before the site visits:

- **E1** Plenary training: Accessing finance
- **E2** Plant-Forward Food Systems
- **E3** Methods to assess future vulnerability and risk to heat stress (ZURES)

Please be mindful that the buses will depart at **15:00** and **you are kindly requested to be at the registration desk at 14:45.**

Participants of all site visits will be transferred by buses directly to the evening reception venue, the Kunstmuseum.

North Route Excursion (Beuel)



During its north route excursion, the German Committee for Disaster Reduction (DKKV) will present examples of adaptation measures taken by the City of Bonn and the population living in flood prone areas. Participants will have a walk through Bonn-Beuel. After the visit to the pump unit of the sewage plant, the visitors will walk to the newly established dykes. DKKV will then introduce the German civil protection system and highlight the importance of volunteer participation.

South Route Excursion (Mehlem)



Participants in the south route excursion will visit the flood risk area Bonn-Mehlem. Here, technical infrastructure and an early warning system were installed to deal with flood hazards and protect inhabitants and infrastructures in case of flooding due to heavy precipitation events. DKKV will also present the historical development of the river Rhine, historical floods in Bonn and city-scale flood management. Droughts, low water, and the cascading effects and consequences will also be addressed.

DKKV is a German national platform for disaster prevention that features a consolidated network of key stakeholders within the disaster reduction domain at the national, European and international level. The network's interdisciplinary and multi-sectoral character enables a broad and targeted dissemination of initiatives, knowledge and methodologies within the disaster risk reduction community.

Federal Office of Civil Protection and Disaster Assistance (BBK)



The Federal Office of Civil Protection and Disaster Assistance (BBK) looks forward to introducing some of its key tasks and topics during the ICLEI Resilient Cities 2019 Congress. After a presentation of the BBK and the German system of civil protection, delegates will visit four BBK divisions in turn.



BBK is the German national agency to protect the population in a state of emergency or conflict against natural and man-made disasters including war. BBK's experts develop strategies, conduct crisis management exercises, and raise awareness among the general public to enhance self-protection.

Bonn Fire and Rescue Service



The Fire and Rescue Station No.1. is one of five full time fire stations, scattered across the whole City of Bonn, which are responsible for fire protection, technical response, rescue service and disaster management. The visitors will get an insight of the fire and rescue service, their tasks and resources and will experience their vehicles.



The Bonn Fire and Rescue Service is responsible for the safety of people and visitors of the City of Bonn. In addition to fire protection, technical response and rescue service, the Fire Department of the City of Bonn is also responsible for the safety on the river Rhine and disaster management.

City of Essen



Being the Green Capital of Europe 2017, the City of Essen became a blueprint for the transformation of a city in the heart of the Ruhr metropolis. The times of industrialization with expansive coal mining and steel production have given face and significance to this region. The Ruhr area has thus become home to over 5 million people today.



Essen is one of Germany's largest cities. With the long transition process from an industrial history to a science and service-based economy, Essen experienced several important transition strategies. After transforming the industrial legacy to places of culture and identity, Essen and the Ruhr metropolis managed to become a livable and green region.

Exhibition is open all day from 26 to 28 June in room S05-06



The Climate and Development Knowledge Network (CDKN) supports decision-makers in Africa, Asia and Latin America to design and deliver climate compatible development. Partnering with climate research programmes, CDKN works to enhance the uptake and use of research at country and global levels, to support gender-responsive and socially inclusive climate action.



EXTREMA is a service for Cities to manage efficiently extreme temperature events. EXTREMA provides a mobile application for citizens and a dashboard for City Authorities. It is implemented in Athens, Paris, Rotterdam, Milan, Lisbon and the Island of Mallorca.

Aratos Systems B.V., member of Aratos Group, is a Dutch SME that is very active in the fields of Space & Satellites, Information & Communication Technology and Homeland Security.



The City of Bonn has adopted its first sustainability strategy this year. Based on the 2030 Agenda, it addresses six thematic areas: mobility, climate and energy, natural resources and environment, labor and economy, social participation and gender equality as well as global responsibility and One World. During RC 2019, Bonn showcases the following cooperation projects:

- ZURES: analysis of urban climate (heat) and vulnerability to strengthen the resilience of cities, bringing together science and local practice.
- Network and Public Lecture Series for Disaster Risk Reduction/Management, uniting know how/capacities in Bonn from global to local.
- Beethoven Pastoral Project: art/music project, linking to Beethoven's work and bridging to climate change, biodiversity and land.



FloodCitiSense aims at co-creating an urban pluvial flood early warning service for, but also with citizens and city authorities. This service will reduce the vulnerability of cities and citizens to pluvial floods, which cause serious damage to the urban environment. Citizens are actively involved in the monitoring of rainfall and flooding, making use of low-cost sensors and web-based technologies. FloodCitiSense is funded within the Urban Europe – ENSUF programme.



International Sustainable Chemistry Collaborative Centre (ISC3) aims at sustainable innovations and shapes the transformation of the chemical products towards sustainability and circular economy. In its workstream "Plastics in Sustainable Building & Living" ISC3 is conducting a multi-stakeholder dialogue looking for innovative fields and new business models in the construction sector which are based on sound ecological, social and economic principals.



iSCAPE is a three-year research and innovation project funded under the European Union's H2020 programme. The iSCAPE project aims to develop an integrated strategy for air pollution control in European cities that is grounded on evidence-based analysis. To reduce urban air pollution and the negative impacts of climate change iSCAPE leverages sustainable passive control systems, behaviour change initiatives and the living lab approach.



Without a durable infrastructure, many of the UN sustainability goals cannot be achieved. The KIT Innovation HUB promotes this through the cooperative development of innovative products and services and their transfer into practice. Preventive measures extend the technical service life and reduce ecological and economic burdens. The KIT Innovation HUB also provides a communication platform for decision-makers and social groups and provides advice for all stakeholders. Training courses and further education support the knowledge transfer.

Exhibition is open all day from 26 to 28 June in room S05-06



Wetlands International is the only global not-for-profit organisation dedicated to the conservation and restoration of wetlands for people and nature. We support cities in incorporating wetlands as part of blue-green infrastructure into their urban fabric with participatory, inclusive approaches. We protect and restore wetlands to create healthy, thriving, climate-resilient cities.



The Global Covenant of Mayors for Climate & Energy is an international alliance of cities and local governments with a shared long-term vision of promoting and supporting voluntary action to combat climate change and move to a low emission, resilient society.



ICLEI – Local Governments for Sustainability is a global network of more than 1,750 local and regional governments committed to sustainable urban development. Active in 100+ countries, we influence sustainability policy and drive local action for low emission, nature-based, equitable, resilient and circular development. Our Members and team of experts work together through peer exchange, partnerships and capacity building to create systemic change for urban sustainability.



The Bonn Center for Local Climate Action and Reporting (carbonn® Center) aims to expedite cities', towns' and regions' transformation into low carbon, climate resilient communities, coordinating technical support offered to cities, towns and regions around the globe.



Congress Venue

Gustav-Stresemann-Institut e.V. (GSI)
Langer Grabenweg 68
D-53175 Bonn-Bad Godesberg

Reaching the Venue from Bonn Central Station (Hauptbahnhof):

Take the underground/tram lines number 16 or 63 direction Bad Godesberg to the stop Max-Löbner-Straße. Alternatively you may also take the tram line 66, detailed below.

Reaching the Venue from ICE-Station Siegburg/Bonn:

Take the underground/tram line 66, direction Bonn/Bad Honnef to the stop Robert-Schuman-Platz. Exit to Kurt-Georg-Kiesinger-Allee.

Trams 16 and 63 between Bonn Central Station (Hauptbahnhof) and Max-Löbner-Straße run every 7 minutes. Tram 66 between Siegburg-Bonn train station and tram stop Robert-Schuman-Platz runs every 10 minutes.

Registration and Information Desk

The registration and participants information desk is available for the duration of the congress:

Tuesday, 25 June: 15:00 – 18:00
Wednesday, 26 June: 08:00 – 17:30
Thursday, 27 June: 08:00 – 17:30
Saturday, 28 June: 08:30 – 16:30

Internet Connection

High-speed internet connection is available at GSI throughout the three congress days. The access code can be provided to the participants at the registration desk.

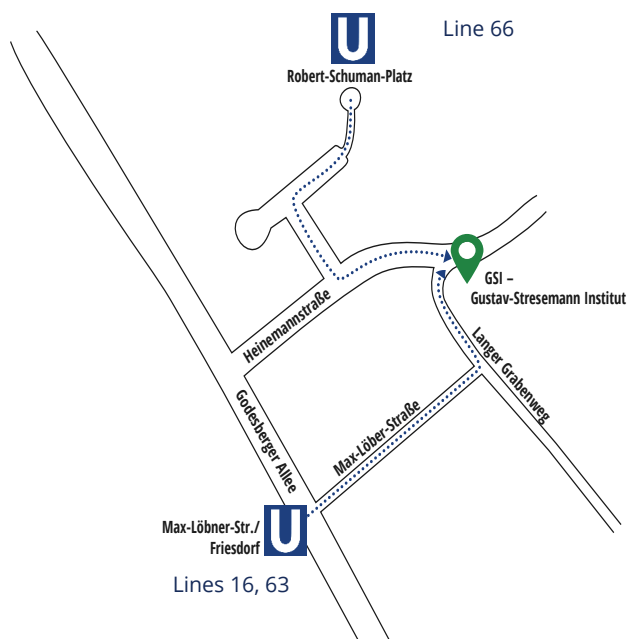
Catering and Evening Events

Meal and drink vouchers are required for lunches during the Congress. Registered participants can receive their vouchers upon registration. Additional vouchers may be purchased at the reception desk of the venue.

Please return the non-used vouchers to the congress team at the registration desk upon your departure.

Wednesday, 26 June, 12:30: Mayors' Lunch, Parkrestaurant Rheinaue **(by invitation only)**

Following the Opening Plenary, Mayors are invited to join a special lunch hosted by the City of Bonn. Meeting point is at the Registration Desk at 12:20.



Wednesday, 26 June, 17:30: Resilient Cities 2019 Welcoming Cocktail

All participants are invited to the networking cocktail at GSI, in the exhibition area (room S05-06).

Wednesday, 26 June, 18:15: High-Level Dinner, Bonn Old City Hall **(by invitation only)**

Patrons and Mayors are invited to join the High-Level Dinner hosted by the Mayor of Bonn and President of ICLEI. If you are invited to this event, please contact the information desk for more details.

Thursday, 27 June, 19:00: Reception Dinner hosted by the City of Bonn, Kunstmuseum

On the evening of Thursday, 27 June, the City of Bonn invites all congress participants to a reception with live music at the Kunstmuseum (Friedrich-Ebert-Allee 2, Bonn). The doors open from 18:30. There will be a luggage/coat check.

To reach the reception venue, take the tram line 16, direction Köln, Niehl Sebastianstr. or line 63, direction Bonn, Tannenbusch Mitte to the stop Bonn, Gronau Heussallee/Museumsmeile.

Exhibition and Poster Sessions

The exhibition space is located near the registration desk, in room S05-06. Please see pages 12-13 for the full list of exhibitors. It is also the main area for networking and coffee breaks during the Congress.

The posters are displayed in the exhibition area and presented on Wednesday, 26 June, 13:00-14:00 and Thursday, 27 June, 10:30-11:00. Poster presenters will be available during these sessions to explain their work and answer your questions.

Resilient Cities 2019 | Practical Information

Photography and Video Disclaimer

During the Congress all sessions will be documented with photographs and video material. The material may be used by ICLEI and partners for print and web publication in the future.

If you do not wish to appear in any visual material please inform ICLEI immediately by contacting us via email: media@iclei.org.

Banks and ATMs near the Venue

The closest bank to the congress venue is the Volksbank along Heinemannstraße towards the Rheinaue Park. From the venue, turn right towards Heinemannstrasse, and take another right onto the main road. The bank is approximately 350 meters ahead on your left. In the opposite direction is the Maritim Hotel, which has an ATM. To get there from the congress venue, turn right towards Heinemannstrasse and take a left onto the main road. Turn right at Jean-Monet-Straße and left into the roundabout entrance of the hotel.

Shopping in Bonn

GSI is located in the South of Bonn, 10 minutes by tram from the city center where you can access shops, post office, pharmacies, bakeries, etc. to fulfil your needs. Shops are normally open until 20:00 from Monday to Saturday and closed on Sundays. Within a 5 minute walking distance from the venue (Heinemannstraße), you will find a variety of restaurants.

Bonn Tourist Information Office

The Tourist Information Office is located at Windeckstraße 1, 53111 Bonn.

Taxi Services

Taxi Bonn e.G. Tel: +49 (0) 228 / 55 55 55

Please note that Uber and Lyft rideshares do not operate in Bonn.

Quiet, Prayer Room

The venue has a meditation/prayer room. Ask at the GSI desk for directions.

ICLEI Code of Conduct

ICLEI condemns any manner of discrimination, inappropriate behavior, harassment, including sexual harassment, or abuse of authority towards any individual. ICLEI is committed to providing a safe environment to all individuals in the workplace, at events and in all work-related travels. Any incidents shall be reported whilst being acted upon to safeguard the integrity of all involved.

EMERGENCY NUMBERS IN GERMANY

General emergency number: 112

Medical emergency service/Arztrufzentrale: 116, 117

Police emergency: 110.

ICLEI Resilient Cities 2019 Congress Team



**Victoria Vital
Estrada**



**Ayan
Huseynova**



**Matteo
Bizzotto**



**Mihaela
Nistorica**

CONGRESS EVALUATION FORM AND PROGRAM FEEDBACK

Kindly complete the following evaluation form to help us improve and return it to the registration desk

Please rate each session by circling the appropriate emoticon.

Please select the parallel sessions (number or title) and the site visit (if applicable) that you have attended

DAY 1:

Remarks:

OPENING PLENARY PART 1:

(a) speakers N/A (b) content N/A

OPENING PLENARY PART 2:

(a) speakers N/A (b) content N/A

SESSION: **A1** **A2** **A3** **A4** **A5** **CIbIX MILAN** (circle session no.)

(a) speakers N/A (b) content N/A

SESSION: **B1** **B2** **B3** **B4** **B5** **CIbIX MALMÖ** (circle session no.)

(a) speakers N/A (b) content N/A

DAY 2:

Remarks:

SESSION: **C1** **C2** **C3** **C4** **C5** (circle session no.)

(a) speakers N/A (b) content N/A

SESSION: **D1** **D2** **D3** **D4** **D5** (circle session no.)

(a) speakers N/A (b) content N/A

SESSION: **E1** **E2** **E3** (circle session no.)

(a) speakers N/A (b) content N/A

SESSION: **F1** **F2** **F3** (circle session no.)

(a) speakers N/A (b) content N/A

SITE VISIT: **BBK** | **ESSEN** | **BONN** **FIRE&RESCUE SERVICE** | **BEUEL** | **MEHLEM** (circle site visit)

(a) speakers N/A (b) content

DAY 3:

Remarks:

SESSION: **H1** **H2** **H3** **H4** (circle session no.)

(a) speakers N/A (b) content N/A

SESSION: **I1** **I2** **I3** **I4** **I5** (circle session no.)

(a) speakers N/A (b) content N/A

SESSION: **J1** **J2** **J3** **CIbIX COPENHAGEN** (circle session no.)

(a) speakers N/A (b) content N/A

CLOSING PLENARY:

(a) speakers N/A (b) content N/A

POSTER SESSION: N/A EXHIBITION: N/A

CONGRESS EVALUATION FORM AND PROGRAM FEEDBACK

Kindly complete the following evaluation form to help us improve and return it to the registration desk































OVERALL IMPRESSIONS:

1. Please indicate 1-2 speakers who you found most interesting or inspiring and why:
2. Please explain in one sentence:
Your personal experience during the Congress:
Your city/organization's take-away from the Congress:
How you would improve the Congress:
3. What topics would you have liked to see featured more at this year's Resilient Cities?
4. What was your main objective in attending ICLEI Resilient Cities 2019?
5. Were you able to achieve this? If not, what prevented you from achieving this?
6. Do you have any feedback or suggestions for the organizers? Please include suggestions for improvement in areas such as website, reporting, etc.

LOGISTICS:

Please rate the following criteria by circling the appropriate emoticon.
Kindly write any further remarks in the right hand column.

Remarks:

1. Quality of the website				N/A
2. Pre-congress communication				N/A
3. Online registration				N/A
4. Online payment system				N/A
5. Congress venue				N/A
6. Registration desk / info desk				N/A
7. Congress team				N/A
8. Congress program booklet				N/A
9. Reception dinner on 27 June				N/A
10. Networking opportunities & coffee breaks				N/A

Congress Organizers



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Canada



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European Environment Agency



Cities Alliance
Cities Without Slums



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Disaster Assistance



WORLD BANK GROUP



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Climate & Development
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ALLIANCE



FMDV
Supporting local authorities
to access funding



International Institute
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WORLD
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RESILIENT
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metropolis



Regions4
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GFDRR
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ISOCARP
Knowledge for Better Cities



UCCRN
URBAN CLIMATE CHANGE
RESEARCH NETWORK



EMI
Earthquakes and
Megacities Initiative



GLOBAL RISK FORUM
GRIFF



International
Water Association



DKKV
Deutsches Komitee Katastrophenvorsorge e.V.
German Committee for Disaster Relief



FEUERWEHR UND
RETTUNGSDIENST
BONN



STADT
ESSEN



GRÜNE HAUPTSTADT
EUROPAS



d.i.e.
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P I K



POTSDAM INSTITUTE FOR
CLIMATE IMPACT RESEARCH

Resilient Cities 2019 Congress Secretariat

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Gustav-Stresemann-Institut,
Room S03

Tel: +49-(0)176 / 345 333 78
Email: resilient.cities@iclei.org

For media-related questions contact:
media@iclei.org

resilientcities2019.iclei.org



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