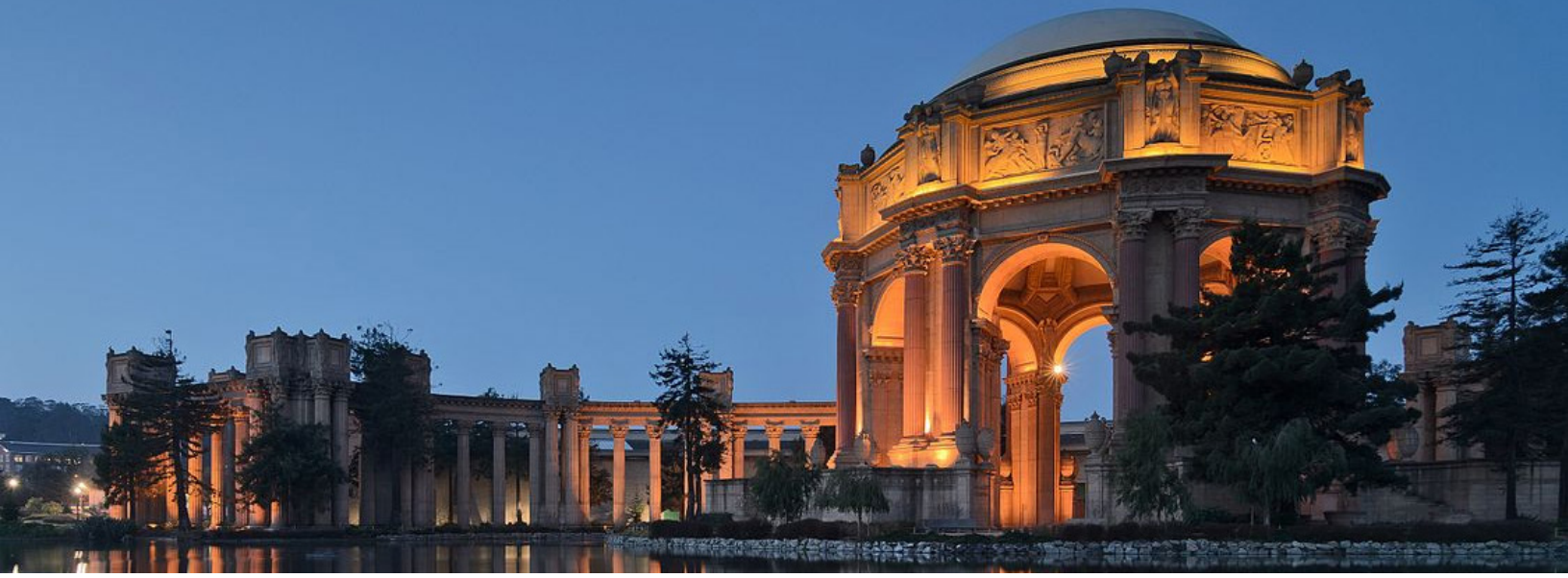


JANUARY 2018

PIONEERED BY THE ROCKEFELLER FOUNDATION
100 RESILIENT CITIES

VOL. 28

(IN THIS ISSUE)

ON THE FRONT COVER, FROM TOP: PALACE OF FINE ARTS, SAN FRANCISCO (KING OF HEARTS, WIKIMEDIA COMMONS); CAN THO (TRUNGYDANG, WIKIMEDIA COMMONS), PANAMA CITY (SAAVEDRADS, WIKIMEDIA COMMONS)

(FROM 100 RESILIENT CITIES)

Dear Resilience Community,

Welcome to the 28th edition of the newsletter, and a very happy New Year! This month, many of our stories touch on community engagement. From Montevideo, where an RVR workshop generated a vision for the Pantoso River Basin rooted in local empowerment, to Melbourne, where it is hoped experiments with participatory development will build stronger communities, Member Cities across the Network are focused on the essential connection between active citizenship and resilience.

Along this theme, this issue shares a new 100RC video on Pittsburgh, which highlights the city's focus on equity and inclusion, and checks back in on Juarez, where a design competition to reimagine the city's Juan Gabriel Plaza, supported by Rebuild by Design, has selected a winning submission after a community feedback process. It also heads to Semarang, where the city is working together with Platform Partners, universities, local NGOs, and fellow Member City Toyama to build a resilient mobility system.

Elsewhere in this edition, you'll meet the new CRO of Accra, read about flood-prone Bangkok's initial steps towards developing a integrated water management master plan, delve into a rethinking of public assets in Rotterdam, and learn about the 1st International Congress of Urban Parks, planned for later this year in Mexico. Finally, we round up resilience stories from around the world, including interviews with the CROs of Washington D.C., Chennai, Bangkok, and Surat.

We wish you a resilient month,

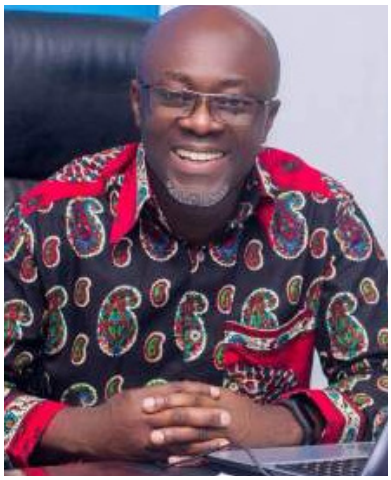
Michael Berkowitz
President
100 Resilient Cities

Paul Nelson
Director
Network and Learning

(CITY UPDATES)

ACCRA

CRO ANNOUNCEMENT

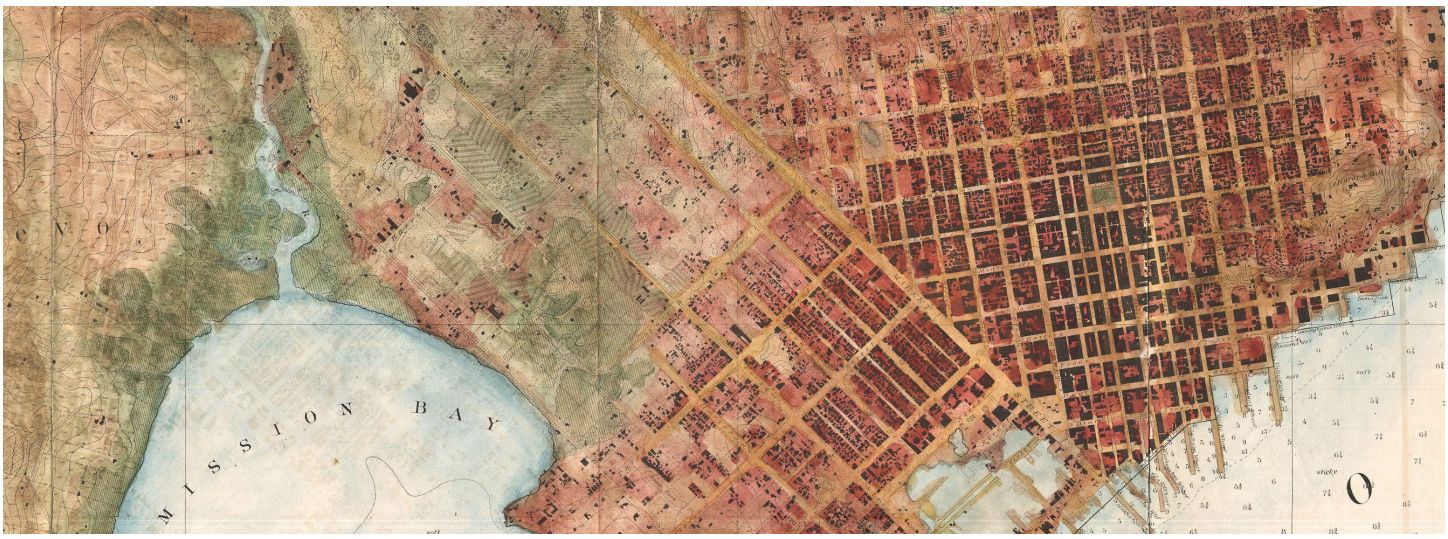


Congratulations to Desmond Appiah on his appointment as CRO of Accra. As Chief Resilience & Sustainability Advisor at the Accra Metropolitan Assembly, he coordinates all city programs which are aimed at ensuring sustainable city development in areas pertaining to waste management, climate change, disaster planning and building urban resilience.

He is the founder of Sustainable Ghana Limited, an innovative health, safety, and environmental firm which has supported several small and medium scale industries to assess the quality of health, safety, and environmental practices, and facilitated the design of plant-specific health, safety, environmental and quality management programs.

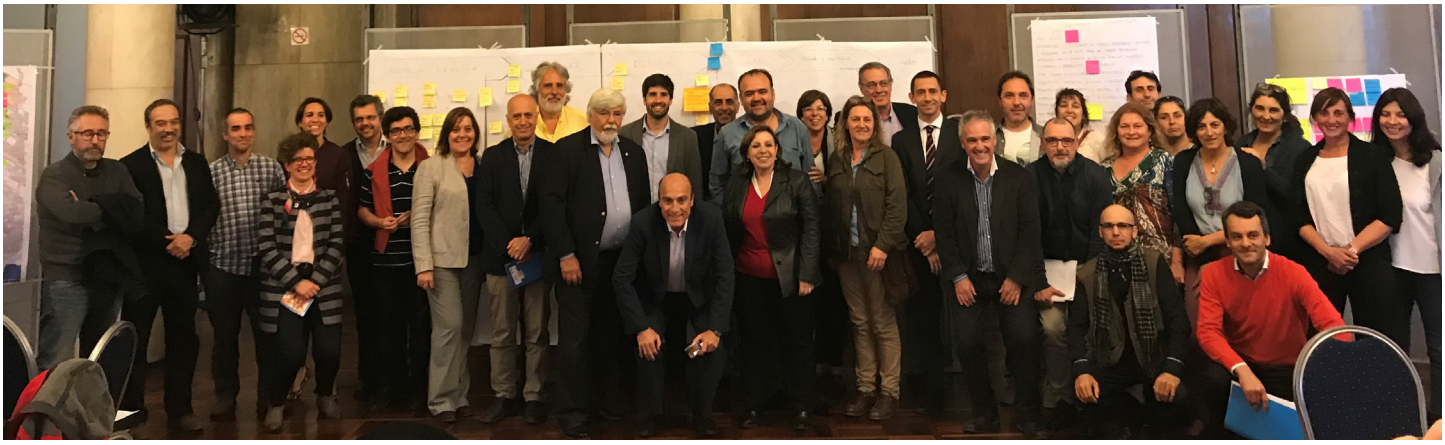
Desmond was appointed as one of three National Experts in Quality Management Systems on a SECO-sponsored UNIDO trade capacity development assistance project. He is also a Resource Person for the United Nations Development Program's (UNDP) Global Compact Secretariat in Ghana. Desmond was appointed by ABB AB (Ghana Branch) as the Health, Safety & Environmental Management Advisor for their World Bank sponsored SCADACOM installations and upgrade project for Ghana Grid Company (GRIDCo) across Ghana. He has been a resource person on many community-based capacity-building projects in sustyainable forestry and agro-business, with a role in conducting pre-feasibility and feasibility studies as well as monitoring and review of projects.

Desmond holds an MSc in Energy and Sustainable Development from DeMontfort University, UK, an MS in Environmental Protection & Safety Management from St. Joseph's University in Philadelphia and a BA (Hons)- Geography and Resource Development from the University of Ghana. He holds a PG Certificate in Group Crisis Intervention (Critical Incidence Stress Management), First Certificate in Food Safety from the Royal Institute of Public Health and is trained in Quality and Environmental Systems Auditing.



MONTEVIDEO

RVR WORKSHOP ENVISIONS A BETTER PANTOSO BASIN



Montevideo recently became one of the first cities in the Network to utilize a Resilience Value Realization (RVR) workshop, a tool designed to highlight the power of the resilience dividend for cities in the midst of Strategy Development

Montevideo's Preliminary Resilience Assessment identified four emerging themes for the city's resilience work, and proposed four main strategic projects, each of which integrally embraces all four themes. These strategic projects are understood as "resilience labs," and aim to rapidly and comprehensive advance resilience building within the city.

One of these labs covers the Pantanoso river basin, an area of high social vulnerability, housing precariousness, and environmental degradation. The area's complexity poses significant management challenges to resilience work: agriculture, industry, and formal residential neighborhoods exist side by side with informal settlements, generating localized social tensions and conflicts.

Within this framework, the Montevideo Resilience Team found the RVR approach was a powerful tool for bringing together and aligning all the relevant stakeholders to address the challenges identified by the PRA.

The workshop convened a multidisciplinary team from the municipal, provincial, and national governments. During the workshop, participants shared their views on the current situation, articulated the changes they would like to see and their potential value, and strategized around possible ways to achieve them. The convening also included presentations on the Strategy Development Process and the Strategy's focus on the Pantanoso basin; the area's territorial plan; and examples of good practices in basin transformation projects.

The most relevant resilience value drivers that participants identified were: environmental improvement, socio-territorial integration and the balance between urban and rural, formalization and economic revitalization, the construction of a positive local identity, and institutional strengthening.

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MONTEVIDEO

TRANSFORMATION OF AREA MOOTED BY 2025

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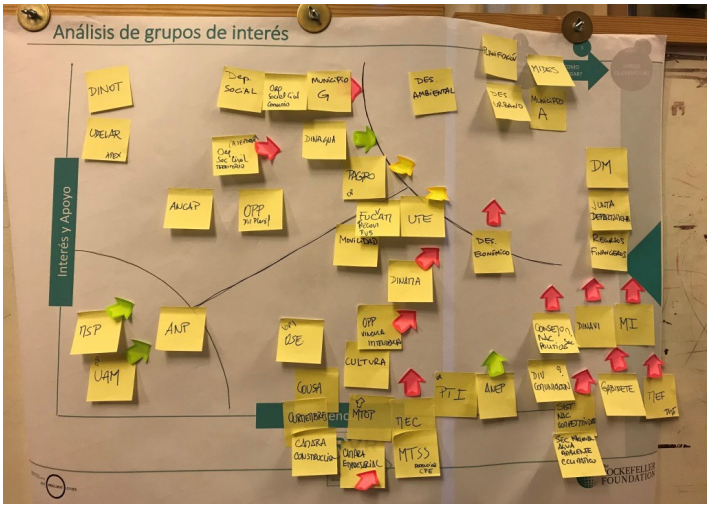


At the conclusion of the workshop, participants prepared an opportunity statement that foresees a marked strengthening in environmental quality, local identity, and community empowerment. By the year 2025, they envision an enjoyable area, in continuous transformation, which will be achieved through a system of public policies, governance and citizen agreements that as a whole must work to improve land use, invest in infrastructure, stimulate economic development, and implement citizen training and preparation programs to capture the value created."

One of the greatest successes of the RVR process was the assistance and active participation of influential stakeholders such as Mayor Daniel Martinez, Minister of Internal Affairs Eduardo Bonomi, and Deputy Minister for Social Development Ana Oliveira; their presence demonstrated the importance of the Pantanoso basin for the city and the whole country, and was an important display of institutional commitment to the process. The workshop also helped the Montevideo Resilience Team align the visions of main stakeholders with the concept of resilience, generate a joint roadmap for the future of the Pantanoso basin, and laid the groundwork for multi-sectorial support for the Pantanoso Basin Resilience Lab.

1ST INTL. CONGRESS OF URBAN PARKS

MERIDA, MEXICO, APRIL 25-27, 2018

1ER CONGRESO INTERNACIONAL DE PARQUES URBANOS

The First International Congress of Urban Parks will gather and train professionals, public officials, technicians, decision makers, academics, students, civil society and suppliers related to public space in the same place to boost the urban parks and recreation industry in Mexico, with three days of training, conferences, workshops, and commercial exhibition.

-CONFERENCE WEBSITE-

-VIDEO-

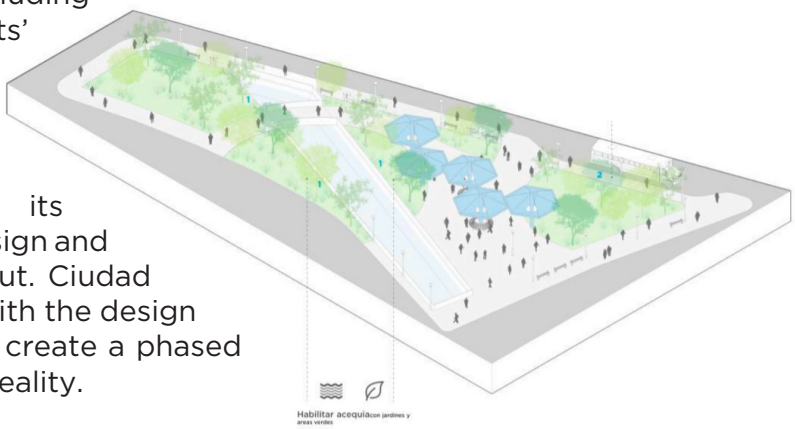
-LIST OF SPEAKERS-

JUAREZ

PLAZA DESIGN COMPETITION WINNER CHOSEN

This month, Ciudad Juárez announced the winner of the Juan Gabriel Plaza Design Competition. The winning design was submitted by HADVD Arquitectos, an architecture firm based in Juarez and El Paso, and featured a range of greening elements including local flora, grass berms, and an events venue to encourage greater public use and culture.

The final submission followed the community feedback session in December, where the Jury chose the top three design proposals for public review and feedback. Participants learned about the various design approaches and then had the opportunity to give their input by talking directly with the teams and placing notes on the renderings. Each proposal took a unique approach to improving the plaza, including adding 'living green walls,' removing concrete to allow for greater stormwater mitigation, adding public exercise machines, and including a venue for community events. The finalists' designs were recalibrated according to public input and re-submitted to the jury.



HADVD's design ultimately won for its multifaceted approach to public space design and incorporation of research and public input. Ciudad Juárez's Resilience office will now work with the design team and relevant municipal agencies to create a phased implementation plan to make the park a reality.

Learn more about Rebuild by Design's process in Juarez

SEMARANG

DIVERSE ARRAY OF PARTNERSHIPS DRIVING TRANSPORT EFFORTS

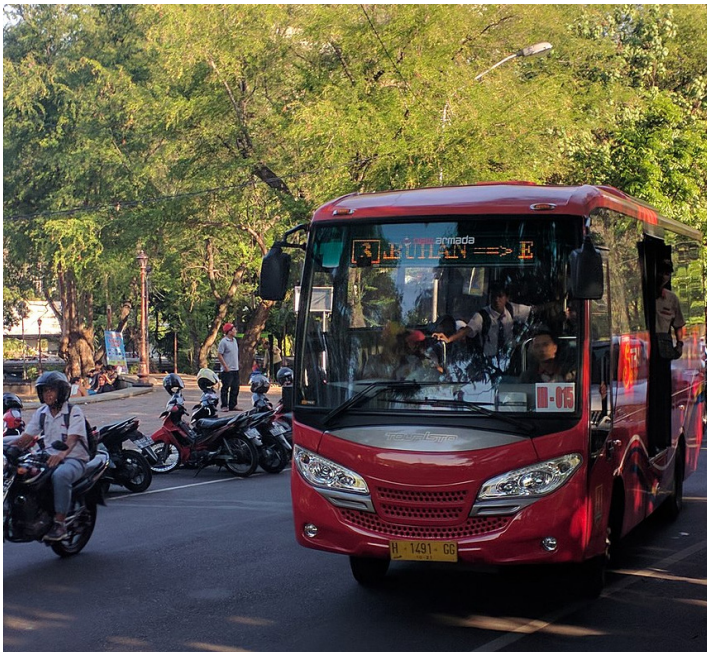


PHOTO CREDIT: FARHANSYAFIQF, WIKIMEDIA COMMONS

Semarang became the first Asian city to release a Resilience Strategy on May 23rd, 2016. Among the document's six pillars, number 4 is Integrated Mobility. This pillar aims to enhance the performance of the city's mobility systems by promoting the use, improving the service quality, and enhancing the management of the public transportation network. In pursuit of this aim, Semarang is being supported by the Institute for Global Environment Strategies (IGES), a Platform Partner.

In July 2016, in partnership with Diponegoro University (UNDIP) in Semarang and Asia Institute of Technology (AIT) Thailand, IGES kicked off research for a Co-Benefits Action Plan Study on Public Transport and Non-Motorized Transport for Semarang. This study focused on identifying co-benefits attainable through the improvement of the Trans Semarang bus system and non-motorized transport facilities, including the reduction of carbon emissions. In urban environments, the transport sector has become one of the main emission sources due to increased reliance on private vehicles. Heavy traffic causes congestion, which increases emissions of carbon and other pollutants. By developing a better public transport system and its supporting infrastructure, accordingly, the use of private vehicles could be reduced, lowering the city's carbon footprint and benefitting public health.

The initial IGES study showed that despite the availability of buses in the city, the use of private vehicles in Semarang is still high because the majority of bus users previously used other modes of public transport. There is little to no shifting happening from private vehicles to buses, limiting the system's impact on carbon emissions. The follow-up collaboration study with IGES in 2017 thus focused on developing intermodal public transport and improving bus ridership.

To provide actionable plans from the study, IGES has helped connect Semarang City with more collaborators. Along with UNDIP, the Institute for Transportation and Development Policy (ITDP) Indonesia, which specializes in BRT systems, is now helping to develop a BRT for Semarang. The city is now in the planning stage of developing a full BRT system with the support of the Indonesian infrastructure finance Agency (PT Sarana Multi Infrastruktur or SMI).

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SEMARANG

JCM AGREEMENT WITH TOYAMA BENEFITS BOTH CITIES

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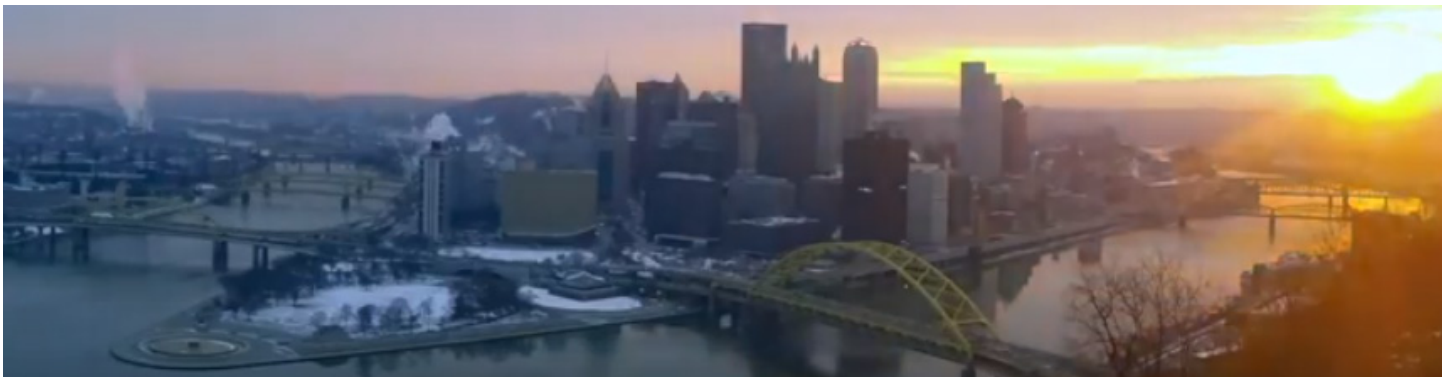
Improving bus and BRT ridership cannot only be done by providing better infrastructure and systems alone, but requires educating the public on the importance of using public transport. To this end, IGES has been working with another Platform Partner, Save the Children, as well as a local NGO, Initiative for Urban Climate Change and Environment (IUCCE), to organize a public transport awareness campaign among middle school students. This campaign aims to reduce the shift from public to personal motorcycle transport that often happens when students start entering university.

On the issue of reducing carbon emissions, Semarang is also collaborating with a fellow Member City, Toyama; the mayors of both cities signed a Letter of Intent at an event in December 2017 to develop a Joint Crediting Mechanism (JCM) Scheme. By entering into a JCM, Semarang will be supported by Toyama in the implementation of low carbon technologies and activities in areas such as transportation, renewable energy, and energy efficiency; in return, Toyama gets to credit emission reductions towards its own carbon targets.

Semarang's expanding set of collaborators underlines the benefits of participation in 100RC. The city is looking forward to further exchange and resource sharing within and beyond the Network to help deliver on the initiatives laid out in its Resilience Strategy.

PITTSBURGH

VIDEO TRACES CITY'S RESILIENCE JOURNEY



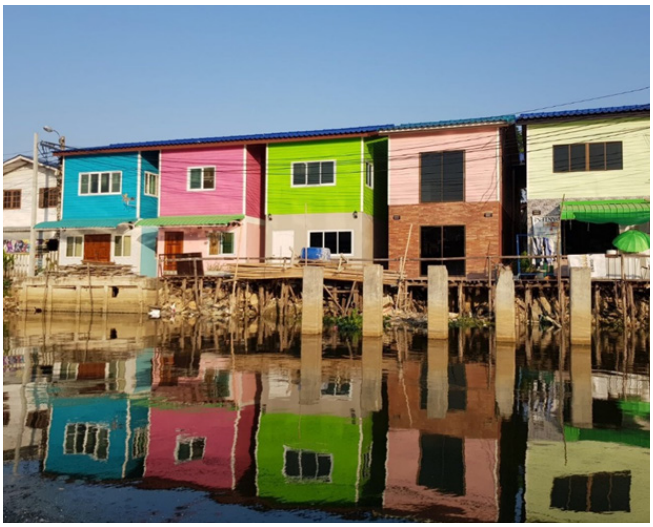
From joining the Network in 2014 to releasing the city's first-ever urban resilience strategy in 2017, the city of Pittsburgh has become an urban resilience leader in the United States and throughout the world.

And while Pittsburgh has emerged as an active hub for technology, education, healthcare and finance, the city's leaders also know that Pittsburgh can be resilient only when the entire community thrives, when equity is central to the city's growing prosperity.

Watch a new video following the city's resilience journey, and learn more about the work already underway to build resilience in Pittsburgh

BANGKOK

INTEGRATED WATER MANAGEMENT TO ADDRESS FLOOD THREATS



In Dec 2017, Bangkok hosted Rockefeller Foundation President Dr. Rajiv Shah, during which he visited the city's Flood Control Center and canal community resettlement housing project. These two initiatives are part of Bangkok's efforts to mitigate the city's significant vulnerability to flooding.

Bangkok's 2011 floods were the fourth most costly natural disaster in modern history, just behind Hurricane Katrina. The floods caused an estimated $46 billion in damage nationwide, and approximately $8 billion in Bangkok alone. Less damaging, though greatly disruptive to life in Bangkok, are the local-level floods which regularly create traffic problems and cause property damage. With water challenges, as both a shock and stress, Bangkok has put water at the center of its resilience strategy and is seeking both long-term strategic solutions as well as near-term tactical actions to improve conditions in the city.

Bangkok has relied heavily on hard infrastructure such as dikes, pumping stations, and drainage canals to control the movement of water through the city. However, with the changing climate and sprawling urban development in Bangkok, catchment management in the Chao Phraya River Basin will only become more complex and important. Given this, it is a critical time for the city to consider its vision for living with water in the future.

For comprehensive flood management, it is necessary to understand the prevailing conditions in the lower Chao Phraya Basin. The basin receives a large amount of water from the northern part of the country, which must pass through Bangkok before draining into the Gulf of Thailand.

Bangkok is now working with a Platform Partner, Deltares, to develop a clear understanding of this process and explore how to utilize water passing through the basin both during the rainy season and the dry period. The places to be studied include the adjoining areas of Tah Cheen, Bang Phra Kong and the Chao Phraya River.

Following this study, the city will determine objectives for water management. This will be set out as a clear vision, for agreement by stakeholders across the city. This vision will not only consider flood protection, but will embody a holistic approach to water in Bangkok, and will include:

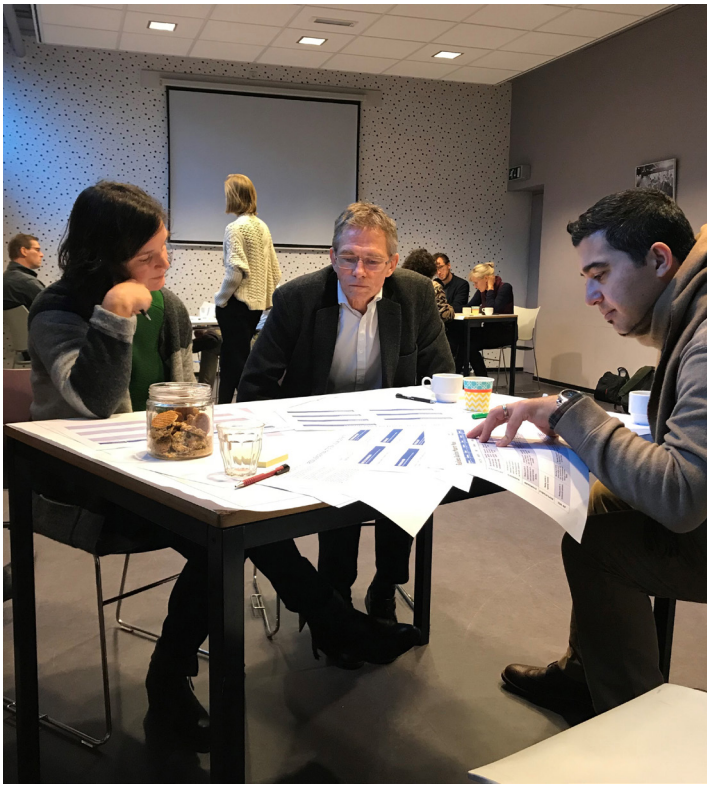
-Intensive situational analysis of infrastructure, land use and land elevation, and the climatic and socio-economic conditions of the selected areas
-Coordination with stakeholders, including provincial offices, to set objectives for water management in the city and reach broad agreement across agencies responsible for water management, including those for flood protection and drainage, in Bangkok
-A long-term roadmap for Bangkok's flood resilience

Bangkok's first integrated water management master plan will be a significant investment opportunity, and the potential for co-funding the cost of this game-changing work will be explored.

ROTTERDAM

APPLYING RESILIENCE IN PUBLIC ASSET MANAGEMENT

By Eline van Weelden, Resilient Rotterdam



Every city has maintenance responsibilities for its so-called 'assets.' These assets might include water treatment facilities, sewer lines, roads, utility grids, and bridges. Generally, these responsibilities are concentrated in the later stages of a facility's life cycle, including general maintenance, rehabilitation, and replacement.

In 2017, Rotterdam's Department of Public Works defined resilience as one of the core values in its strategic asset management plan. As such, the city aims to integrate resilience into every intervention in the public realm.

To incorporate resilience into asset management practice, a group of local asset managers and members of the Resilient Rotterdam team have been developing a methodology to make resilience tangible, and preferably measurable. Earlier this month, it was time for the methodology's first test: a workshop with people from different departments of the municipality and a delegation from 100RC. For Resilient Rotterdam, the main goal of this event was to was to jointly come to a better understanding of resilience thinking by applying it; in this case, to a park in Rotterdam where a variety of assets is present.

The participants deepened their resilience knowledge through a variety of activities, from identifying possible shocks and stresses and developing a set of adaptive measures to defining and assessing the resilience qualities of these measures. For this assessment, the group used an in-house 'resilience quality maturity model', which is intended to become a policy instrument defining the 'level of resilience' we aim for in relation to our assets and programming.

During the concluding evaluation, participants expressed surprise at the new perspective this workshop gave them on their work. They found the resilience approach not only a valuable tool for improving current practices, but also a practical means of identifying and preparing for future challenges. Using participant feedback, Resilient Rotterdam will further refine this process, and use it to help anchor resilience into the workflows of Rotterdam.

MELBOURNE

RESILIENT COMMUNITIES INITIATIVE HELPS NEIGHBORHOODS PREPARE

From the Resilient Melbourne team

Resilient communities know their neighbours. They are informed and empowered, and understand how to access resources from outside their community, in good times and in bad.

With Melbourne's population set to almost double by 2050, Resilient Melbourne is taking steps now to foster stronger community identity and make new and established places in Melbourne more equipped to adapt, survive, and thrive, no matter what challenges lie ahead.

As part of its metropolitan-wide strategy, Resilient Melbourne identified a link between strong, connected communities and people being better prepared to deal with chronic stresses and cope in times of acute shock.

Through its new project, "Resilient Communities," which focuses on residential and mixed-use developments, the Resilient Melbourne team wants to understand how the city can create and sustain buildings, infrastructure and neighbourhoods that build resilience by genuinely reflecting the needs, values and aspirations of the people and communities who occupy its urban spaces.

The new project is part of the resilient city's commitment to encourage action to support citizen participation in neighbourhood and local infrastructure planning.

The project launched late last year, inviting expressions of interest from residential and mixed-use development projects in metropolitan Melbourne interested in testing new ways to place people at the heart of the decisions that shape their built environments.

Teams will work alongside academics, communities and government to test and understand participatory development approaches, which empower citizens to engage in decision-making, and ultimately support the development of strong community networks whose residents have pride in place and a shared sense of ownership and responsibility.

Teams will demonstrate the impact that participatory development can have in creating socially cohesive and resilient communities, which presents an opportunity for forward-looking developers and their partners to demonstrate and position themselves as industry leaders.

Resilient Melbourne is in the process of selecting up to five project teams. Each project will commence by applying the 100 Resilient Cities Resilience Value Realisation process to create shared opportunity statements and project roadmaps.

Get updates about the Resilient Communities projects here

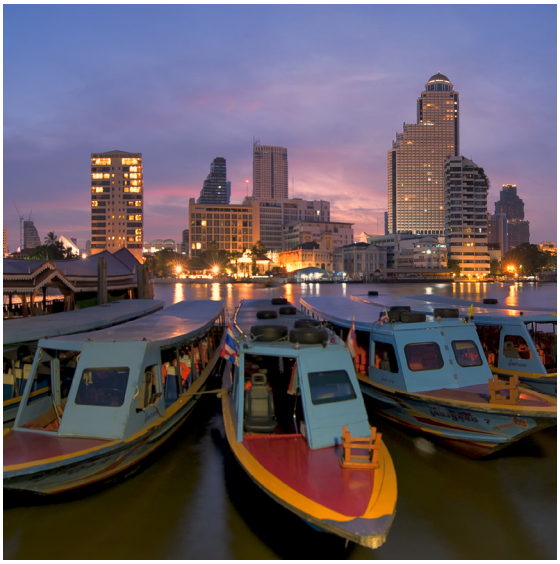
(RESILIENCE IN THE NEWS)

Technical.ly DC **sits down** with DC CRO Kevin Bush and discusses economic risks and disaster preparedness

PHOTO CREDIT: AYMATTH2, WIKIMEDIA COMMONS

Reuters **talks to** Chennai CRO Krishna Mohan Ramachandran and Surat CRO Kamlesh Yagnik about greening Indian cities

PHOTO CREDIT: SURAJRAM KUMARAVEL, WIKIMEDIA COMMONS



Also in Reuters, Bangkok CRO Dr. Supachai Tantikom **offers his thoughts** on preparing the city for flood events

PHOTO CREDIT: PREECHA.MJ, WIKIMEDIA COMMONS