Welcome!

Come in and feel free to share something about you in the chat

This meeting will be recorded

If you connection allows, you are welcome to leave your camera on.



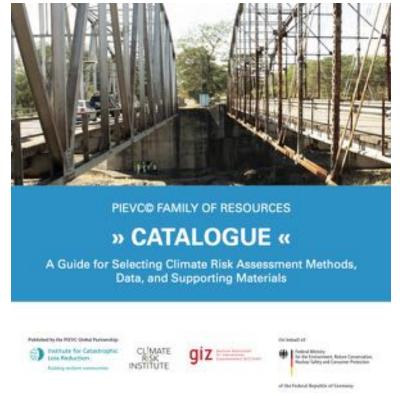


Webinar #1



Climate-related services and frameworks for cities

04 April 2023, 9:00 – 10:15 CET







Transformation - Urban Opportunities - Climate Change (TUrbOCliC)

AGENDAS TO THE LOCAL LEVEL

TUrbOCliC



networking, knowledge management, including peer-learning among programs, regional and technical exchange with national and international partners, strengthening the technical and advisory capacities of GIZ staff and partner experts, and work on developing innovative products.

SNGA



Mohammad Ishtiug Hossain (ACCNLDP II, Bangladesh) WG Speaker



Phillip Reviere (Division Governance and Conflict) Tandem-partner

TUEWAS



Sebastian Markart (CSC, India)

WG Speaker



(Division Climate, Rural Development and Infrastructure)

Dr. Sandra Schuster Tandem-partner



Luciana Maia

Knowledge & community management

Topics





Programme

- Welcome Sebastian Markart and Mohammad Ishtiuq Hossain Joint Speakers of TUrbOCliC
- Check-in Luciana Maia, TUrbOCliC consultant
- Where to start? How to use risk assessments for effective climate change adaptation for infrastructure - the PIEVC Protocol – Katharina Lotzen -Advisor, IKI Global Project Enhancing Climate Services for Infrastructure Investments (CSI)
- City WORKS and Analytical framework for Urban Resilience Eva-Maria
 Graf Advisor, Sector Program Cities and Philipp Reviere Planning officer,
 Competence Centre Democracy, Policy Dialogue, Urban Development
- Q&A in-between and kick-off of training development on resilient and net-zero cities

Heartly welcome and thanks to....

- Katharina Lotzen Advisor, IKI Global Project Enhancing Climate Services for Infrastructure Investments (CSI)
- Eva-Maria Graf Advisor, Sector Program Cities
- Philipp Reviere Planning officer, Competence Centre Democracy, Policy Dialogue, Urban Development







Programme

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PIEVC Program & Climate Risk Assessment Protocol:

Background, Modes of Application

April 4th, TURBOCLIC Webinar Series

Katharina Lotzen, Advisor, Enhancing Climate Services for Infrastructure Investments (katharina.lotzen@giz.de)





Building resilient communities











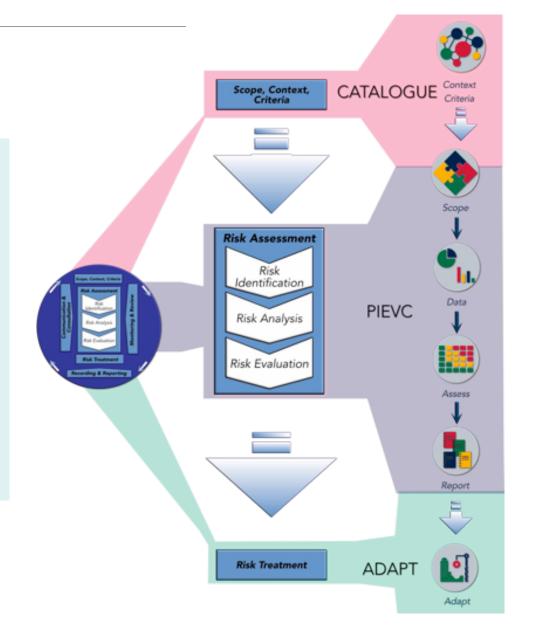
Content

- Introductions
- PIEVC Protocol applications and outcomes brief overview
- PIEVC Program and Family of Resources brief overview
- Modes of PIEVC application

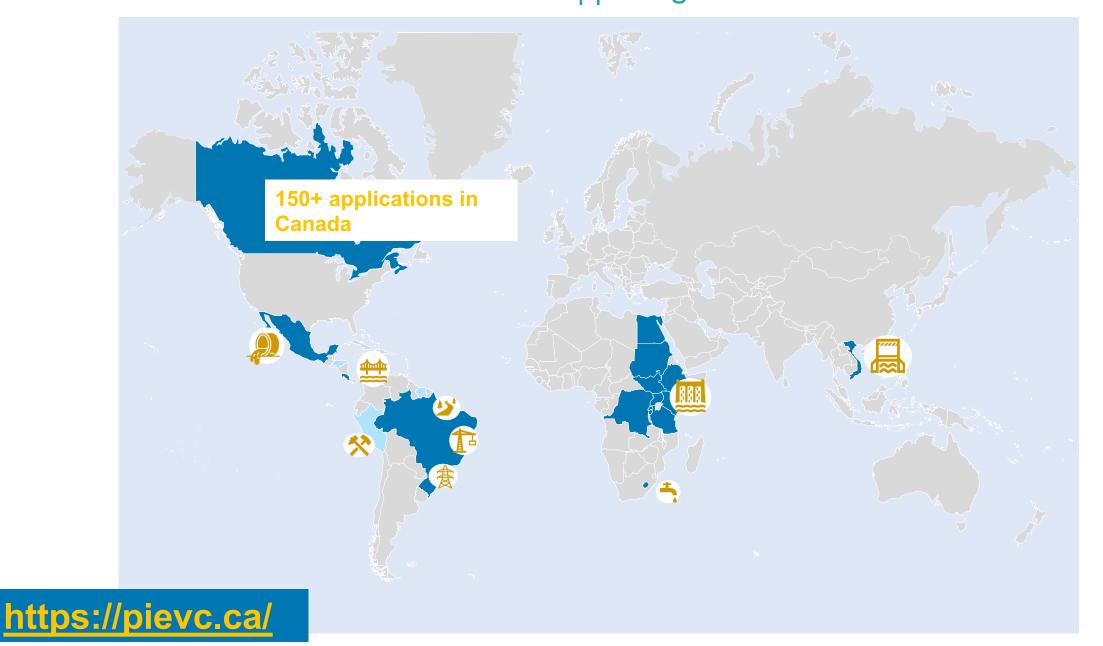
PIEVC Protocol at a Glance



- Step-by-step approach for climate risk assessments for infrastructure
- Scope: From single infrastructures to whole asset portfolios
- Bottom-up, participatory approach
- Threshold-based
- Compliant with all relevant ISO norms



PIEVC Climate Risk Assessment Protocol- Supporting Infrastructure Resilience Around the World



Supporting Partners in Climate Proofing their Infrastructure





Service Desk



Capacities for conducting climate risk assessments for infrastructure



PIEVC Climate Risk Assessment



Human Capacity
Development



Infrastructure investment framework considering climate risk



Institutionalisation



Climate Information
Services



Vietnam - From Risk Assessment to Action

Infrastructure: Sluice Gate System

Lifecycle stage: Early design stage

Question: How can we ensure the sluice gate

continues to fulfill its purpose for the next 100 years?

Selected results:

✓ Incorporation of climate risk assessment results in final design of biggest sluice gate system in Vietnam

✓ (ongoing) development of E-Learning on climate proofing for infrastructure



PIEVC Climate Risk Assessment







Infrastructure: Seaports & Transmission lines

Lifecycle stage: Exisiting

Question: How can we ensure the resilience of our

transport systems?

Selected results:

- ✓ Assessment of portfolio of 21 seaports
- ✓ In-depth assessment of 3 ports identified as most at risk
- ✓ Development of **digital tools** to facilitate future access to Climate Information Services







CClimo



Costa Rica - From Action to Institutionalisation

Infrastructure: Roads & Bridges, Water Infrastructure

Lifecycle stage: Existing

Question: How can we provide our engineers with a tool to

ensure climate resilience?

Selected results:

- ✓ Pilot assessments of infrastructures in high-risk sectors
- ✓ Presidential decree on incorporating climate risk in infrastructure planning
- ✓ Contextualisation of PIEVC methodology for country context















NBI – Becoming a Regional Knowledge Hub

Infrastructure: Water Infrastructure

Lifecycle stage: Pre-Feasibility Stage

Question: How can we support our member countries in

climate proofing their (planned) infrastructure?

Selected results:

- ✓ Piloting of climate risk assessments
- ✓ Development of policy guideline & manual on climate proofing
- ✓ Development of online knowledge and e-learning hub to facilitate future climate proofing efforts in NBI member countries







Service Desk





The PIEVC Protocol originated in Canada...



- Development began in 2005 Engineers Canada and Canadian Federal Government formed the Public Infrastructure Engineering Vulnerability Committee (PIEVC)
- Canada-wide network / Committee: Cross section of infrastructure and climate experts, federal, provincial, municipal gov't, utilities, owners, academics
- Developed to assist engineers to factor climate change impacts into plans for design, operation, maintenance and adaptation of public infrastructure
- All manner of infrastructure professionals involved
- Applied by professional teams (Engineers, Climate Scientists, Risk Managers, Owners, Operators, Political Decision-Makers, as well as Civil Society stakeholders)

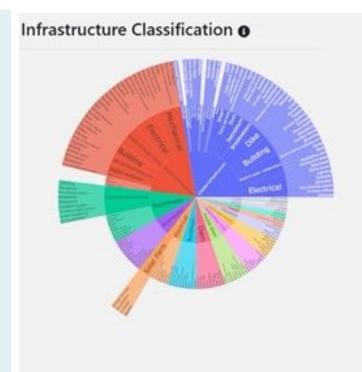


The PIEVC Protocol is widely used...

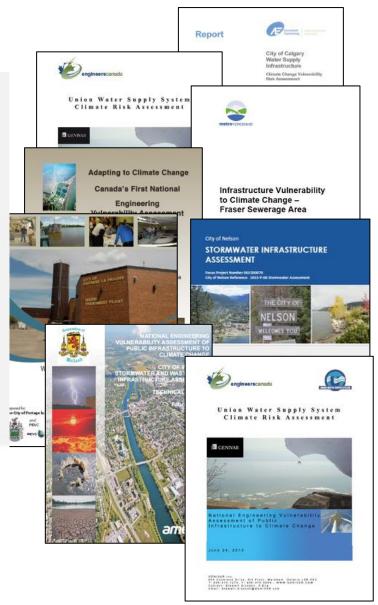
Over >150 reported projects to date:

- Water resources systems
- Storm & wastewater systems
- Roads and bridges
- Buildings
- Urban infrastructure systems (utilities)
- Transportation infrastructure
- Energy infrastructure
- Healthcare infrastructure
- Parks and natural infrastructure (Naturebased Solutions)
- Sluice gates
- Ports

Canada and International – Protocol in <u>Spanish</u>, <u>Portuguese</u>, <u>Vietnamese</u>, <u>French</u>



https://pievc.ca/assessments/



The PIEVE Alliance now stewards the

Program:





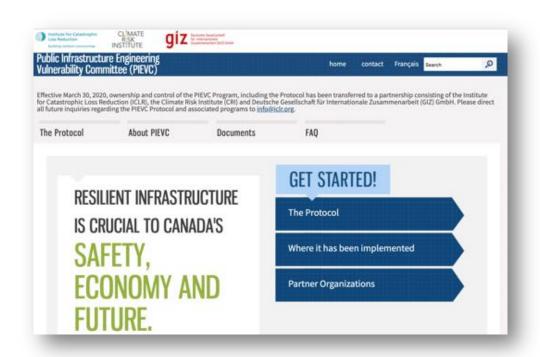




Transition from Engineers Canada to PIEVC Alliance - March 2020

Principles of Operation:

- Free access for public infrastructure;
- Collection and publication of reports;
- New formats/uses and tools;
- Capacity building:
 - Training programs and resources
 - Formalized practitioner network(s)
- GLOBAL reach



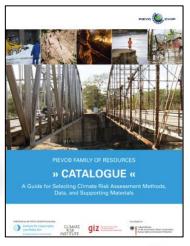
www.pievc.ca

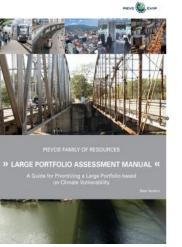


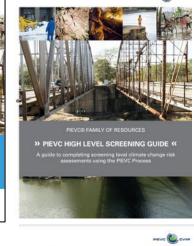
The PIEVC Program has grown, especially of late...

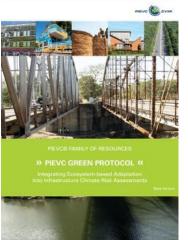




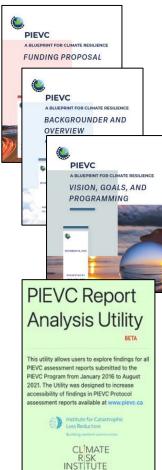












Author Contact Us How to Cite
The Utility was created by Mohsen Moradi, under the
guidance of Prof. Andrew Binns, of the University of Guejoh's
School of Finsiering, and was hunded by the Institute for

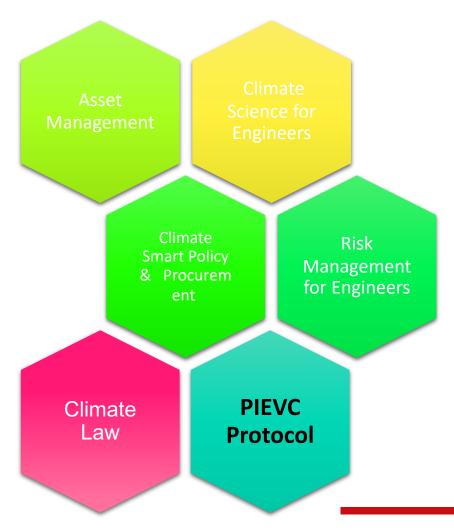
atastrophic Loss Reduction.

There are a range of training options...



Infrastructure Resilience Professional (IRP) Training and Credentialling Program: Strengthen the **knowledge** and **competencies** required to advance more climate-resilient approaches for the planning, design and management of infrastructure.

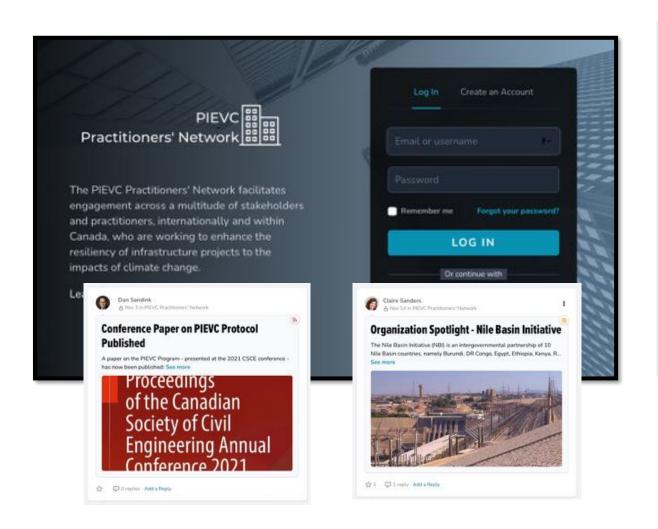
Visit for more information about the IRP Credentialing process https://climateriskinstitute.ca/irp-page/





Supporting International Practitioners Network





- Bring practitioners together to showcase best international practice
- Identify topics and provide support for peer-to-peer learning fora
- Identify training needs and highlight upcoming learning opportunities



2023 GLOBAL FORUM



- Officially launch the Practitioners' Network
- Foster contact and facilitate active engagement across stakeholders and practitioners: 150 participants, including ~40 people from India, Brazil, Costa Rica, Nile Basin, Vietnam, Thailand, Iraq, Georgia
- Share proven methods, tools, and approaches for conducting assessments and implementing recommendations
- Support newcomers to the PIEVC methodology



Modes of Application

PIEVC service packages

Application Scenarios

PIEVC "PRO"

Backstopping &

Support

PIEVC risk assessment process

Methodological varitions from scoping to final reporting

Climate Information and Services

Different pathways of climate services: from global data to local and contextualized data products

Human Capacity Development

From E-learning on Atingi to raise awarenss to very technical on the job training

Regulative frameworks, policies &

planning, incentive mechanisms

Institutionalization

Helpdesk, practitioners network, knowledge portal, monitoring and

Matchmaking & Clearance Mechanism

18- 36 ++ months

PIEVC Service Hub evaluation of PIEVC results



Modes of Application

PIEVC service packages Application Scenarios PIEVC risk **Backstopping &** Methodological varitions from assessment scoping to final reporting Support process Different pathways of climate Climate Infromation services: from global data to local and and Services contextualized data products From E-learning on Atingi to raise **Human Capacity** Matchmaking & awarenss to very technical on the job PIEVC "Companion" Development Clearance Mechanism training 6- 24 ++ months Helpdesk, practitioners network, PIEVC Service Hub knowledge portal, monitoring and evaluation of PIEVC results

Modes of Application

PIEVC service packages

Application Scenarios

Backstopping &

Support

PIEVC risk assessment process

Methodological varitions from scoping to final reporting

Climate Information and Services

Different pathways of climate services: from global data to local and contextualized data products



Matchmaking & Clearance Mechanism

PIEVC "Fast Track"

3- 12 ++ months

PIEVC Service Hub

Helpdesk, practitioners network, knowledge portal, monitoring and evaluation of PIEVC results





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City WORKS – Teaser Video



City WORKS – Background



Sendai Framework for Disaster Risk Reduction

Sendai | March 2015



Addis Ababa Action Agenda

Addis Ababa | August 2015





New York | September 2015



THE GLOBAL GOALS

Paris Agreement

Paris | November 2015



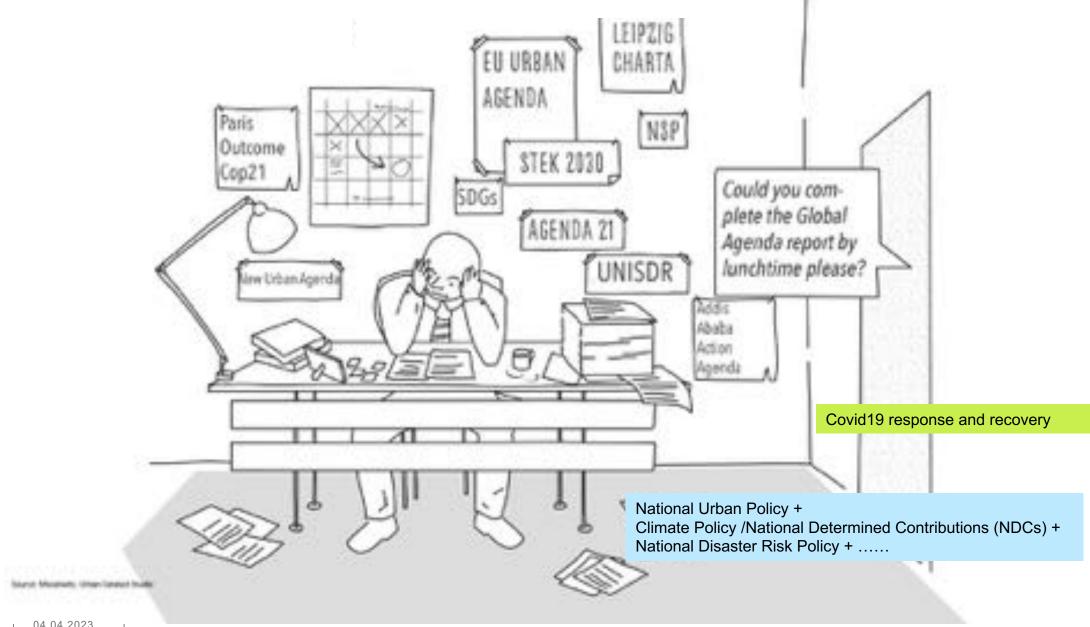




Integrated local implementation

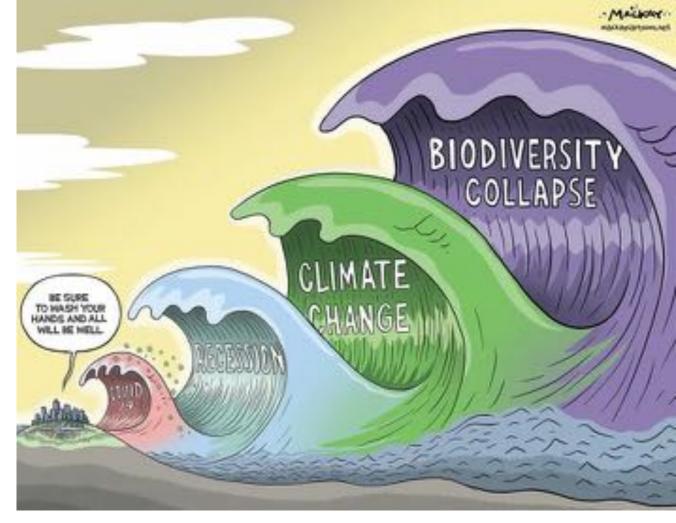


Cities in the world of global agendas



Cities in times of multiple crisis

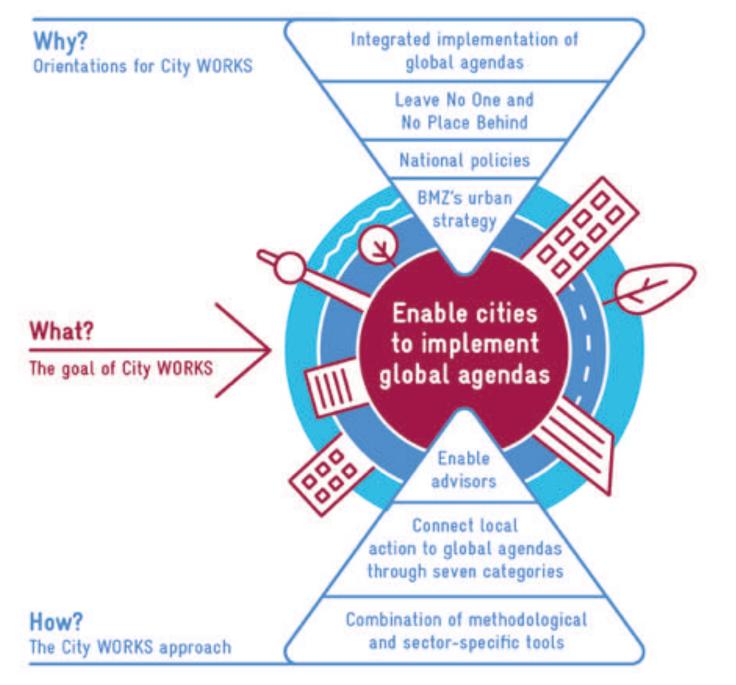
- Progress made towards achieving SDGs has declined due to several crises
- The pandemic halted years of progress towards eradicating extreme poverty
- The war in Ukraine threatens access to food globally, energy crisis
- Local governments under extreme pressure – more than ever support is needed!



https://mackaycartoons.net/tag/climate-change/

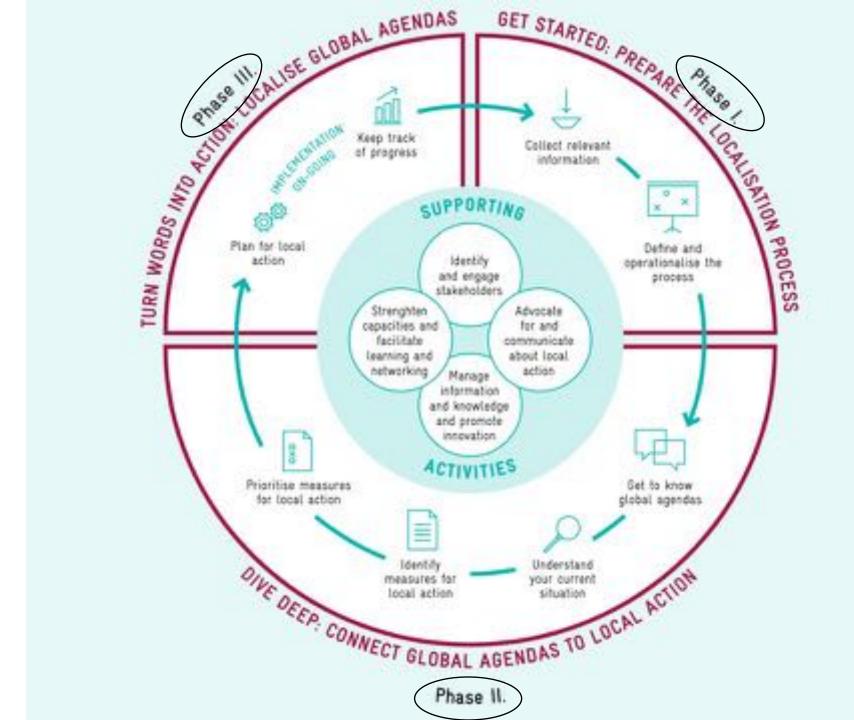


City WORKS Approach



City WORKS

-Phases & Steps



City WORKS – Products





City WORKS Factsheet

Concept Study: Linking Urban Action with Global Agendas



City WORKS Quick Guide



City WORKS Trainings Hand Out

City WORKS – Applications

Mauritania

Programme to Strengthen Decentralization and Public Finance

2020/21: Developing a local development strategy that addresses the 2030 Agenda in the city of Sebkha

Guatemala

Promoting national development policy in Guatemala / 2030 Agenda Fund

2019/20: Linking Guatemala's municipal ranking tool to 2030 Agenda reporting

Brazil

Support to the Brazilian National Agenda for Sustainable Urban Development

2019: Prioritising measures with partners & identifying further potentials for City WORKS application

Palestinian Territories

Local Governance Reform Programme II

2019: Aligning local development plans and measures of 3 cities with 2030 Agenda goals and targets

Egypt

Participatory Infrastructure Project / 2030 Agenda Transformation Fund

2019: Raising awareness about SDGs and aligning local development planning and reporting processes to 2030 Agenda in 8 cities

Nepal

Capacity Development Support to Governance Project

2021/22: Aligning local budgeting and planning processes to 2030 Agenda principles and targets with a focus on LNOB, Gender, Equality & Participation

Bangladesh

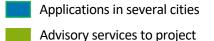
Improved Coordination of International
Climate Finance Project (ICICF)

2022 Mainstreaming climate and SDGs aspects
into finance planning

Ghana

Support for Decentralization Reform Programme / Agenda 2030 Fund

2018: Raising awareness about SDGs at subnational level and linking local data to SDG reporting



Applications under preparation

Success Story 2 - Egypt

Context: Participatory Infrastructure Project (PIP), Training for 8 Egyptian governorates

Objective: Strengthen local government employees in evidence-based planning and monitoring of urban projects, align projects to 2030 Agenda, foster multi-level dialogue

Process: 2x 3-days workshops with assignments, July & August 2019

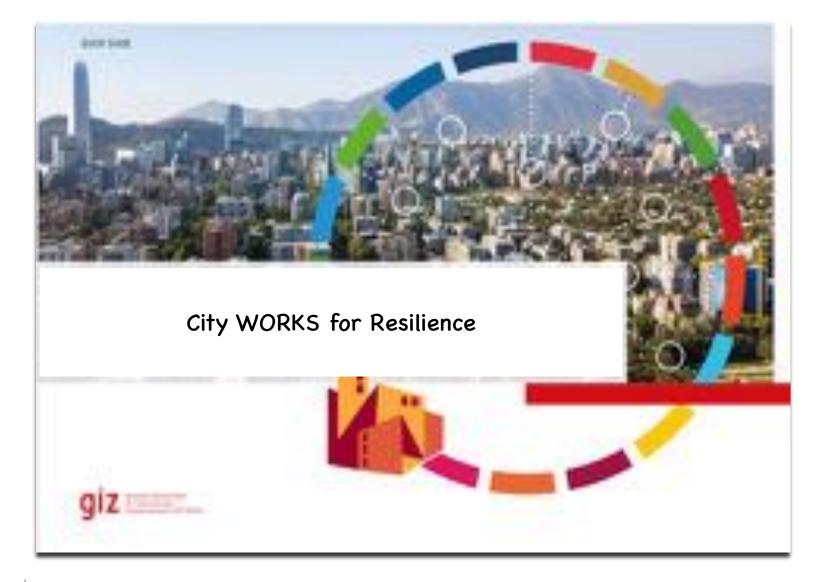
Participants: >50 representatives from local authorities, Informal Settlement Development Fund (ISDF), academia and NGOs

Success stories: Workshops helped local government employees to raise **awareness** on SDGs and **methods** to develop and monitor urban measures that adress the SDGs.



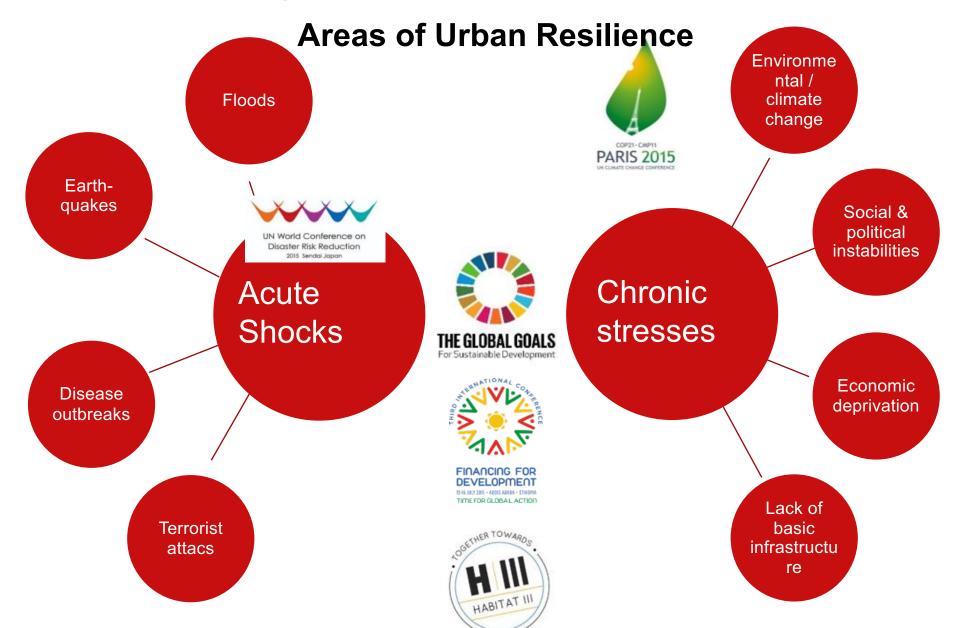


City WORKS for Resilience





2. Urban Resilience & Global Agendas



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2. Urban Resilience & Global Agendas

Agenda 2030 and the SDGs





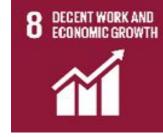






























2. Urban Resilience & Global Agendas

The City Resilience Framework













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City WORKS for Resilience



Objective: Selected cities are better able to implement plans and measures for a resilient recovery from the COVID-19 pandemic.

Context: Collaboration between GIZ, ICLEI, R-Cities and Cities Alliance for the Resilient Cities Action Package (ReCAP21) in 3 countries.

Means: Complementing the City WORKS approach and toolkit with a new Green Recovery / Resilience entry point and providing respective tools & orientation for cities

Outcome: Combination of current City WORKS approaches with existing methodologies of ReCAP21 implementation partners. Resilience extension with 6 specific tools on resilience.

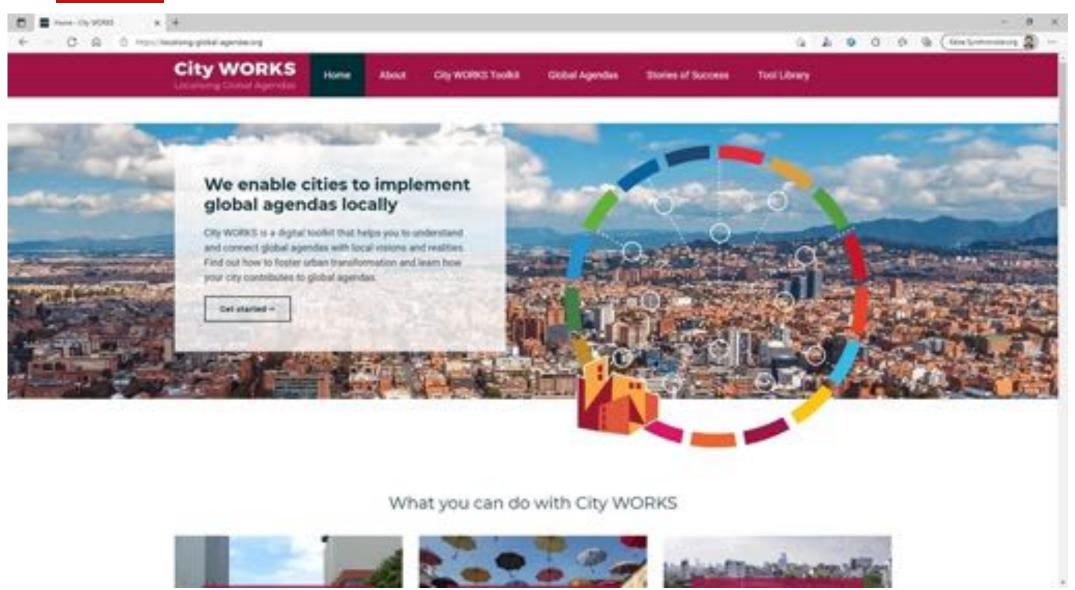








Website



City WORKS for "Resilience"

One dedicated document and a couple of selected tools already integrated into the website

+ one new application

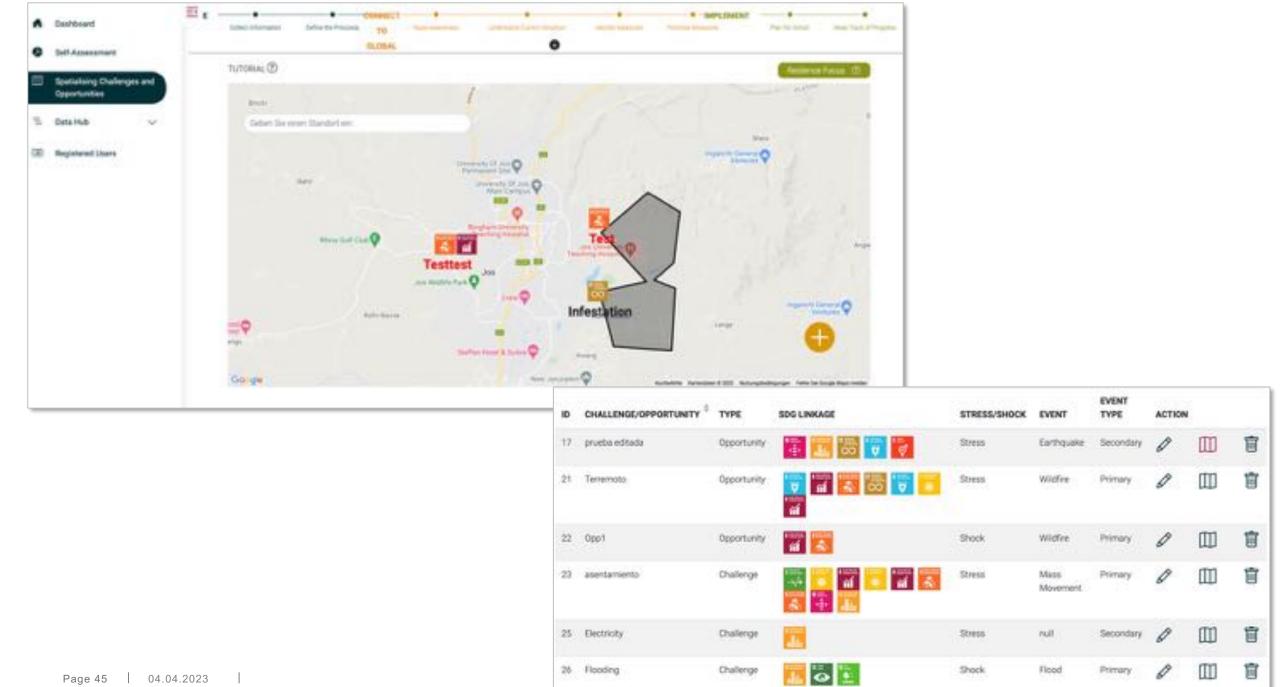










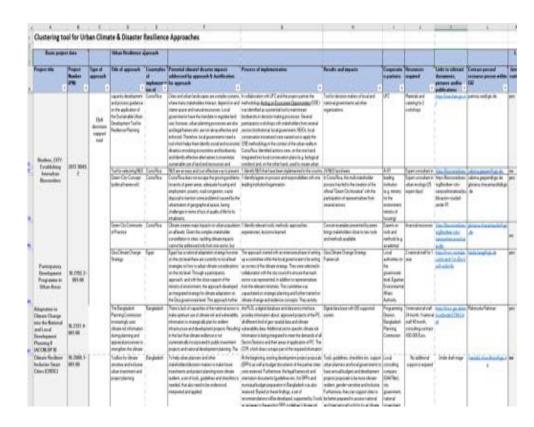


Taskforce – urban resilience

- Since September 2022, colleagues from FMB and GloBe have been jointly working together in a taskforce on urban resilience
- Objective is to:
 - map the existing approaches in the areas of urban resilience and
 - create a knowledge product/toolbox for easy access to key information on these approaches

Mapping template for urban resilience

- Type of approach
- Potential climate/disaster impacts addressed by approach
- Process of implementation
- Results and impacts
- Cooperation partners
- Resources required
- Level of intervention of approach (national/regional/city/neighborhood)
- Sphere of approach (governance/economic/environmental)
- Main hazards being addressed
- Urban function protected by approach (for e.g. housing, water supply, etc)
- Type of risk management (prevention, resistance, transformation)



Tentative results of the mapping

Respondents: Roughly 35 projects with approx. 90 resilience approaches **Interesting statistics on cluster categories**:

- 41% (37/90) approaches on (inter-)national and subnational level (macro and meso level)
- > 80% socio-political sphere of intervention/ governance & environment (economic approx. 33%)
- >50% (46/90) approaches on **flood** risk management, 13% (12/90) on geologic related hazards (**landslides and earthquakes**), 19% (17/70) on **all hazards**
- Type of risk management strategy: prevention, resistance and transformation all above 50%

Taskforce: next steps

- Consolidating, cleaning and quality controlling the data
- Clustering of resilience approaches
- Short-description of the 90+ approaches
- Turning the excel "master list" into something usable in project-contexts worldwide

-> ideally by summer 2023





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Sector Project Cities

Advisor - Climate & Finance

Global and Sector Program Department (GloBe), Bonn

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www.giz.de



https://twitter.com/giz_gmbh



https://www.facebook.com/gizprofile/

Joint Discussion





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Net-zero resilient cities approaches

City WORKS – Sector Project Cities

URBAN Act – Regional – PH, TH, IN, ID, CH

UNESCAP and national partners

SUD-SC II – India

Others in BD, PK

Enhance capacities of staff and partners via tools, skills, peer-learning and case studies

Phase 1

Face-to-Face/ practiceoriented Training Approach

Training concept, development and testrun

Local
application as
well as
opportunity for
regional peerto-peer
learning

SNGA Funds 2023

Phase 2

Adapting and transfering for elearning (atingi or other platform)

Adapting/designing and developing formats for browser application / gamification / virtual reality

TUEWAS Funds 2023



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Welcome Clurb

https://www.clurb.net





Training and Apps/Games/VR





Your ideas, wishes, suggestions in the chat

