Introduction to DRR and the MCR2030



SENDAI FRAMEWORK

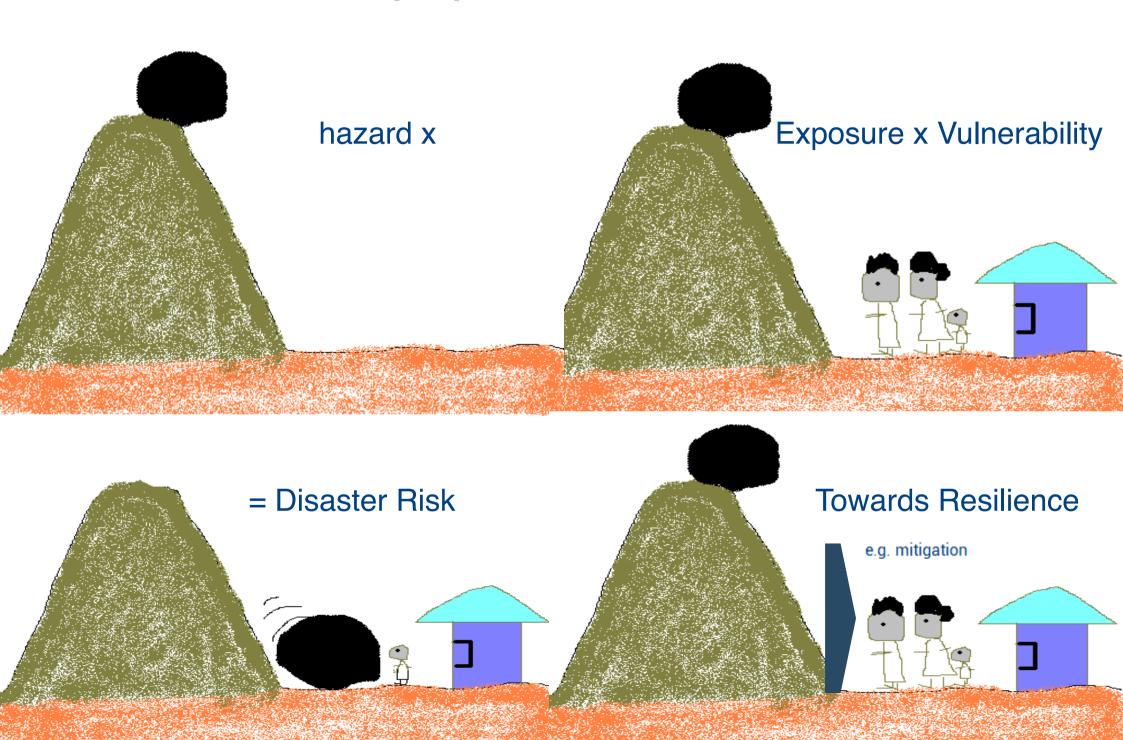
FOR DISASTER RISK REDUCTION 2015-2030



UN Office for Disaster Risk Reduction

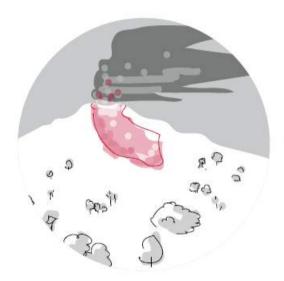


a simple picture of disaster risk



Understanding Risk

Risk and the context of hazard, exposure and vulnerability



There is no such thing as a natural disaster, only natural hazards



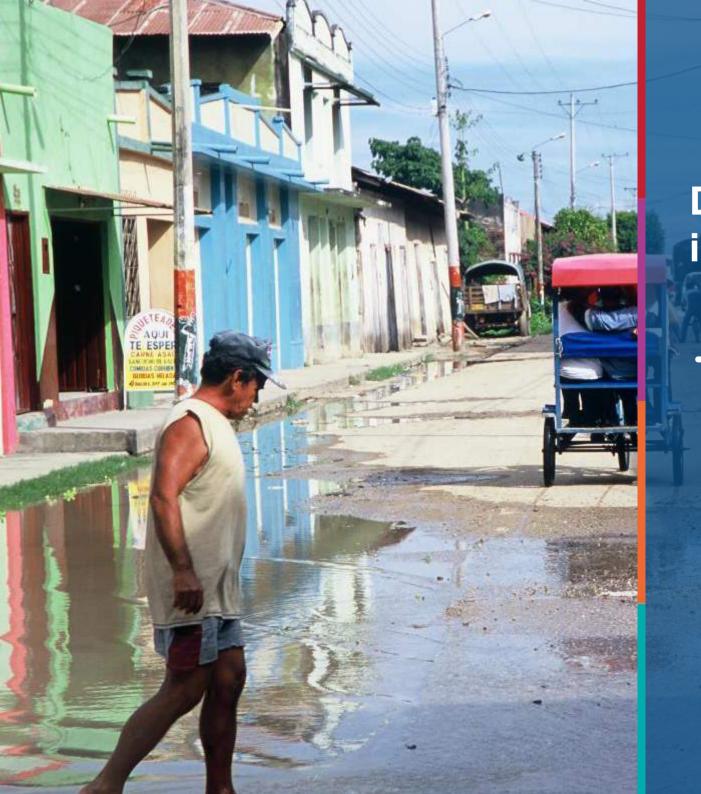
We make **choices** as to where we inhabit, how we build and what research we do



Risk is the combination of hazard, exposure and vulnerability



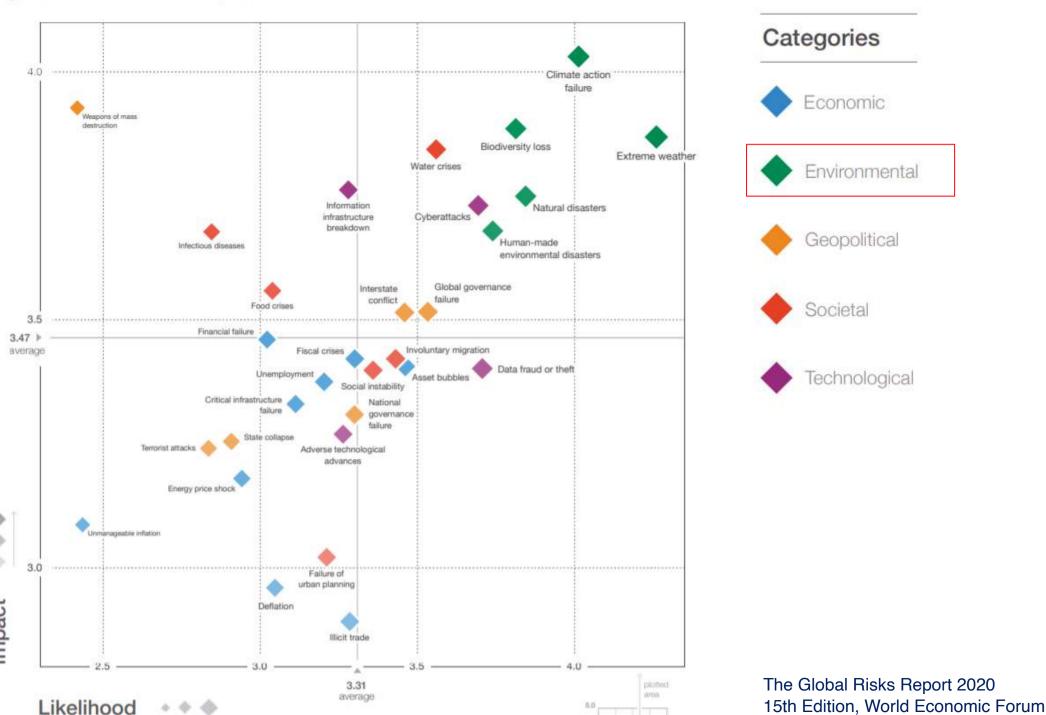
Death, loss and damage is the function of the context of hazard, exposure and vulnerability



Disaster trends: impact in numbers

Private Sector Perceptions of Risk: 2020 World Economic Forum Risk

Figure II: The Global Risks Landscape 2020

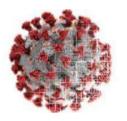




Development disrupted

A Changing Environment

- Intensifying disaster trends & more frequent events
- Resource scarcity and degradation (land, water, food, energy, biodiversity)
- Increasing risk of "unchecked" urbanization coupled with high exposure of population and assets in high risk areas.
- Increasing governance challenges, coordination, accountability, legislations, institutional mechanisms, migration, conflict, all affecting human security
- Equity, poverty, inclusion all being fundamental development challenges contributing to vulnerability
- Inter-dependency and complexity of risk drivers
- Climate change [extreme events, slow onset disasters (drought)]



- World Bank estimate: 'about 100 million people will likely fall into poverty due to the impact of the pandemic.
- Many of these "new poor" will be people living in cities.
- Additionally, local authorities are expected to have 15% to 25% less
 revenues in 2021 due to the acute economic contraction
- COVID-19 pandemic demonstrates cities need to transition to a 'new normal'
- Local authorities can use this as an opportunity shape new and innovative policies that strengthen health systems, improve social protection, pursue climate-friendly solutions, and continue on the pathway towards resilience

2030 Agenda for Sustainable Development





Conference of the Parties

Twenty-first session Paris, 30 November to 11 December 2015

Agenda item 4(b)

Durban Platform for Enhanced Action (decision 1/CP.17) Adoption of a protocol, another legal instrument, or an agreed outcome with legal force under the Convention applicable to all Parties

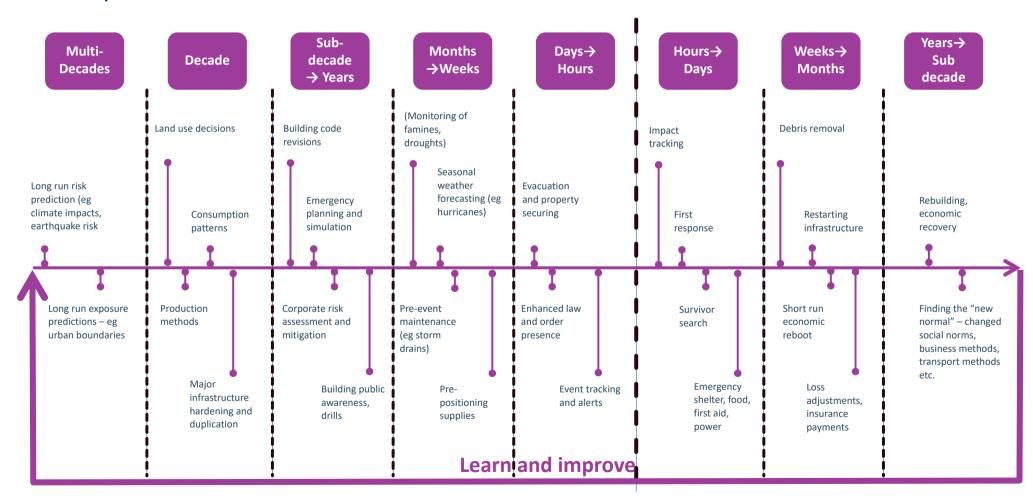


ADOPTION OF THE PARIS AGREEMENT

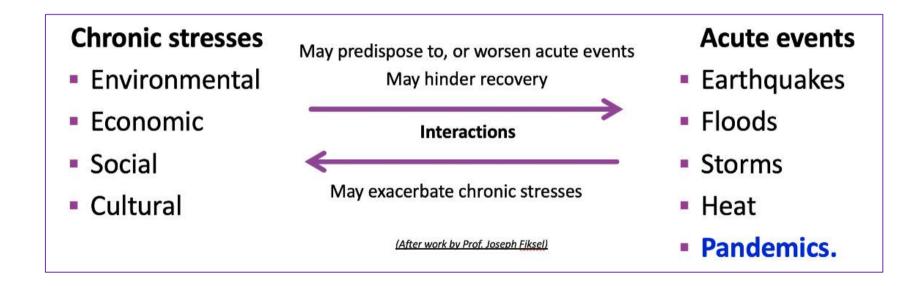


Perspective: Resilience is a *process*, with multiple timescales.

 Some resilience functions play out over many years. Others require real time response.

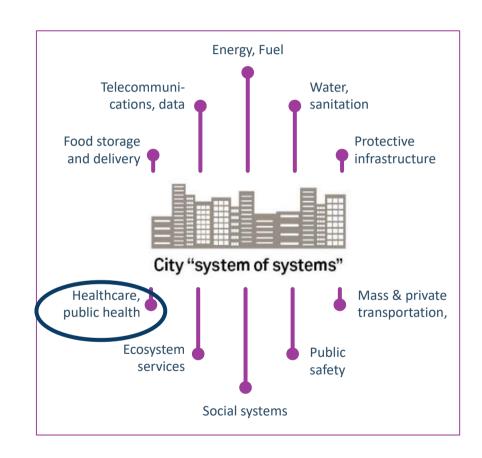


Resilience embraces chronic stresses and acute events



Resilience must embrace "systems of systems"

- Cities and communities are complex because they are where multiple systems interact.
- Connections abound both causal, and those related to resources and data.
- Often, those connections can be a source of strength and resilience.
- However, connections can be missed, and some may only emergent when a disaster happens.
- This reduces resilience, because unforeseen consequences occur that may be disastrous.



Disaster Risk Reduction Strategies for Achieving Resilience

Moving towards becoming a disaster resilient city



DRR Monitoring, Evaluation

and Follow up

Monitor, evaluate and report of achievements, document lessons learned



Raise awareness, plan the process, convene multi- and diverse stakeholders and relevant actors



Disaster Risk & Resilience Assessment

Conduct risk assessment,
understand
localized risks, identify vulnerabilities,
assess gaps and possible actions to
respond to disaster risks



nnlementatio

Implementation of DRR Strategies

Mobilize resources, implement DRR actions, ensure ownership and participation



Development DRR Strategies and Action Plans

Develop and prioritize possible interventions, identify responsible parties & time frame,

establish M&E indicators, obtain political ratification, identify funding options

MCR Assessment & Planning Tools











+MCR 2030 partner tools

Source: How to Make Cities More Resilient: A Handbook for Local Government Leaders (2017)

https://mcr2030.undrr.org/ten-essentials-making-cities-resilient https://www.unisdr.org/campaign/resilientcities/toolkit/

Making Cities Resilient 2030

January 2021 – December 2030

MCR Campaign Launched in May 2010



Certificate of Commitment to Disaster Resilience

Global Launch: 30 May 2010, Bonn, Germany Engaged with 4360 cities globally



Making Cities Resilient 2030

- 10-year **global partnership** from January 2021 to December 2030 to accelerate local resilience
- Provides a clear 3-stage **Resilience Roadmap** guiding cities and municipalities towards taking a long-term and continuous approach to resilience investments, from awareness raising to enhanced strategic planning and taking a whole-of-society approach to implementation
- Connects cities with expert organizations, pool of resource and knowledge through online dashboard
- Platform to support national urban resilience programme



























Stage A

Cities Know Better

» Awareness raising on DRR and resilience



Stage B

Cities Plan Better

- » Improving risk analysis
- » Improving diagnostic skills for planning
- » Improving strategies and



Stage C

Cities Implement Better

- » Increasing access to
- » Ensuring resilient infrastructure
- » Adopting nature-based solutions
- » Integrating climate risk into strategies and plans
- » Ensuring inclusion

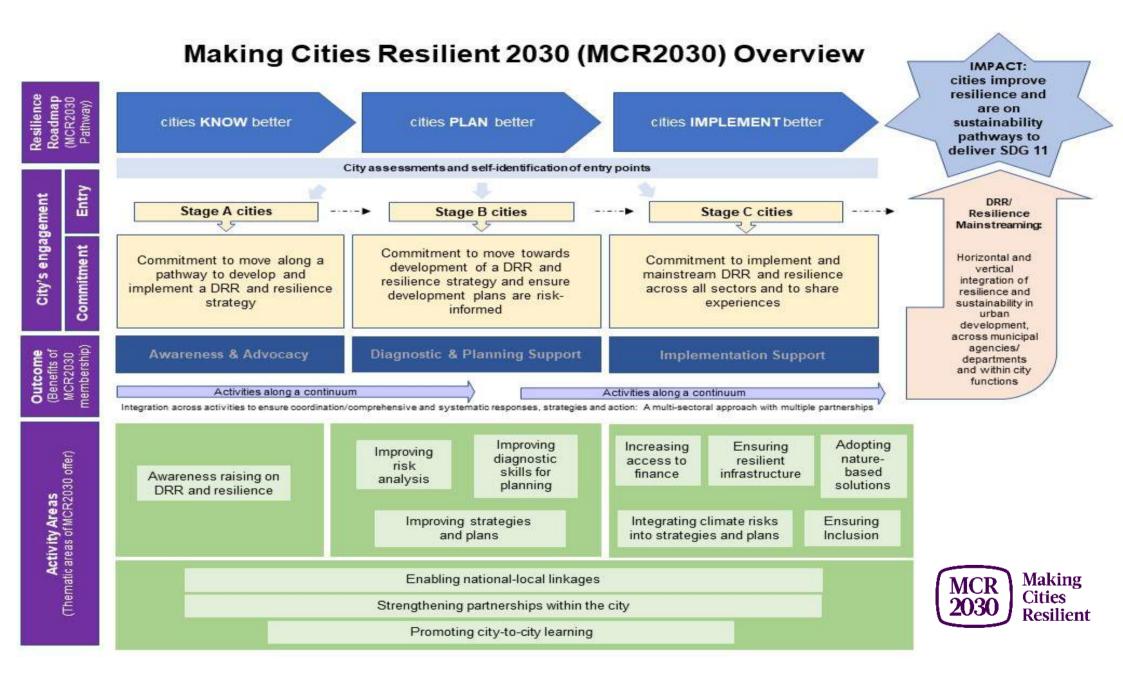


#MCR2030 #ResilientCities

Cross-cutting:

- Enabling national-local linkages (Vertical Links)
- Strengthening partnership within the city (Horizontal Links)
- Promoting city-to-city learning

mcr2030.undrr.org



Partners

- MCR2030 is an initiative co-owned and co-delivered by Core Partners
- Development agencies, non-governmental organizations (NGOs)/civil society organizations (CSOs), academia and research institutions, media, and others, are encouraged to join
- Service providers can offer fee based technical support and advice to cities
- Includes services to cities including risk assessments, capacity to update building codes and land use plans, climate change scenarios for the city, bond rating (and issuance) service for municipal finance, city ranking indices, research and others.
- Decentralized functions in five regions Dashboard

















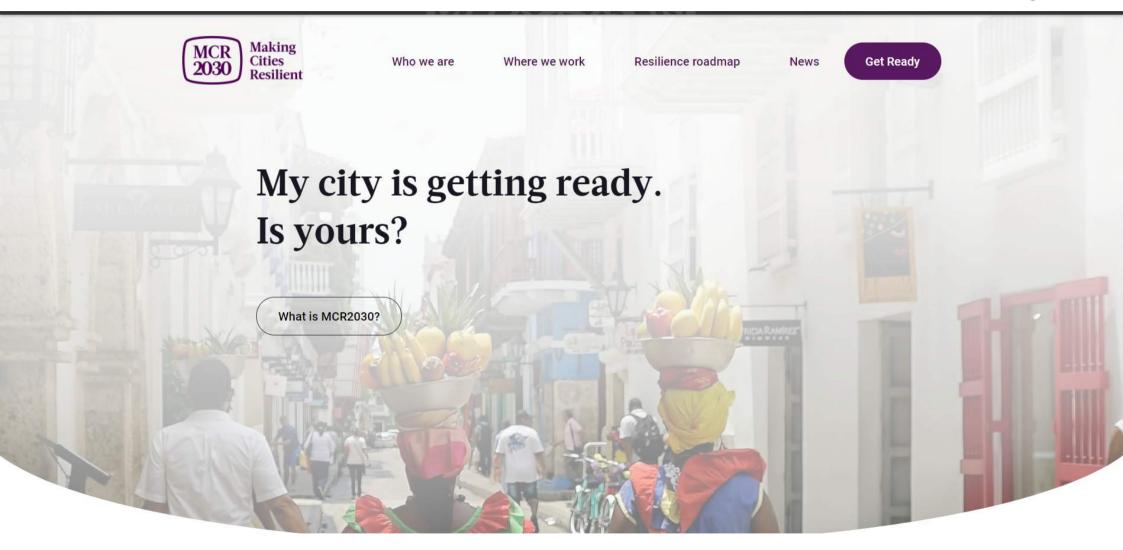








mcr2030.undrr.org



MCR2030 in action















Disaster Resilience Scorecard for Cities

A tool for DRR & resilience planning

The Disaster Resilient Scorecard for Cities (Scorecard)

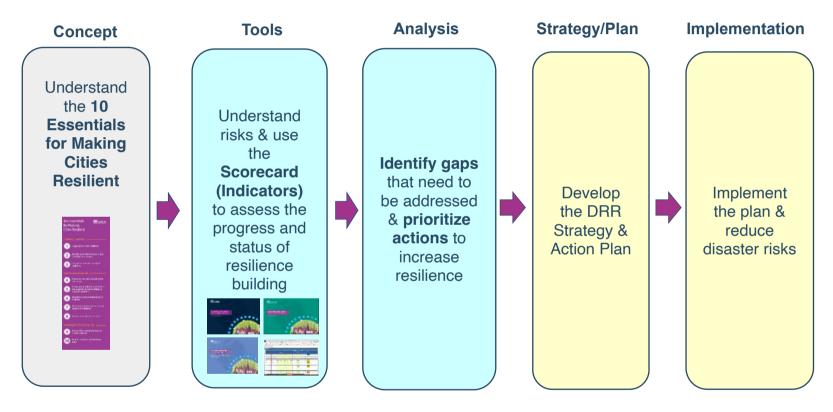


A tool to support disaster risk reduction and resilience planning - to understand the cities' status on resilience building (baseline snapshot), to identify priority areas and actions for DRR and to create dialogue and help to engage multi-stakeholders in the process

https://mcr2030.undrr.org/disaster-resilience-scorecard-cities

- A set of **assessments** that allow cities to assess their disaster resilience, structured around the 10 Essentials for Making Cities Resilient
- Developed by IBM, AECOM, and UNDRR with the support from the European Commission and USAID, and launched in May 2017 at the Global Platform for DRR in Cancun.
- Local government authorities should take the lead in the assessments. A multi-stakeholder dialogue and approach between key city stakeholders will be necessary to complete the Scorecard and is essential in pushing the cities towards higher resilience.

Overall approach



Paving ways towards disaster risk reduction and disaster resilience building at the local level – supporting MCR2030 Resilience Roadmap

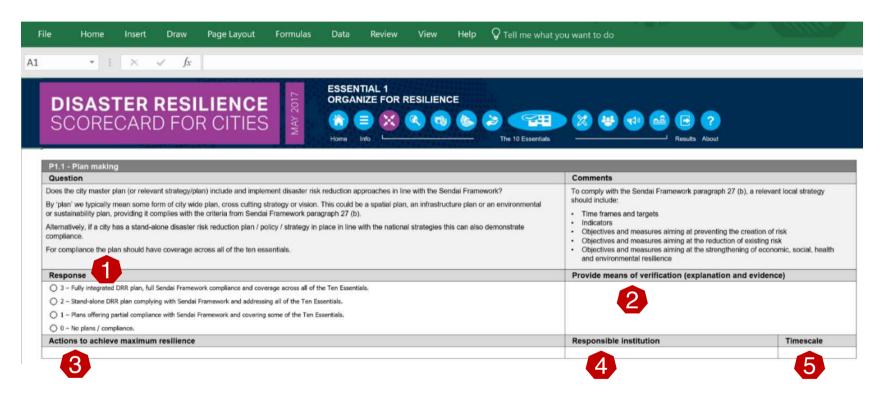
Sample Indicator and Scoring

Essential 1: Organization, coordination and participation

Is there a multi-agency/sectoral mechanism with appropriate authority and resources to address disaster risk reduction?

- **3** All lead agency teams are well established, properly resourced and with proper authority to act across all DRR stages.
- **2** All lead agency teams are well established, properly resources and with authority to act, but there is inconsistency in resourcing across the key DRR stages.
- 1 City teams have authority and convening power but do not have proper inter-agency support and/or are under resourced
- 0 Lead agencies lack proper authority and are under resourced

Using the Scorecard Excel Tool



Scorecard is designed to be used flexibly in the way best suits the need of the city. Cities can decide on their own 'evidence' to support the assessment. Document them in the 'Provide means of verification (explanation and evidence).

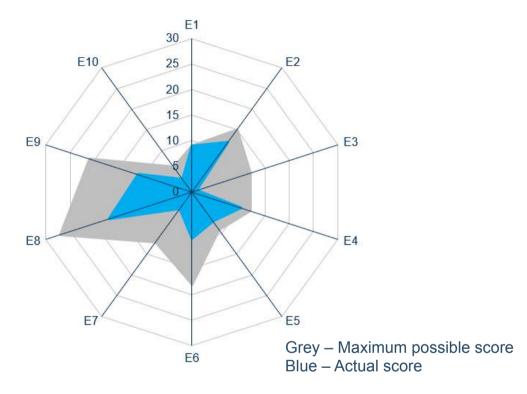
Analyzing Results – Overall Score



Please send the completed tool and PDF report to: isdr-campaign@un.org
Disaster Resillence Scorecard for Cities - Preliminary Level Assessment Tool, v.1.0.
© UNDRR, 2017.





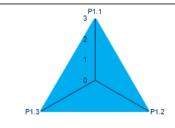


How is this city doing?

Analyzing Results – by essentials

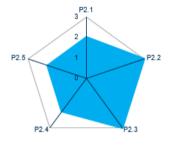
Essential 01: Organize for Resilience

P1.1	Does the City master plan (or relevant strategy/plan) adopt the Sendai Framework?	3
P1.2	Is there a multi-agency/sectoral mechanism with appropriate authority and resources to address disaster risk reduction?	3
P1.3	Is resilience properly integrated with other key city functions / portfolios?	3



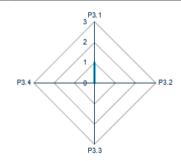
Essential 02: Identify, Understand and Use Current and Future Risk Scenarios

P2.1	Does the city have knowledge of the key hazards that the city faces, and their likelihood of occurrence?	2
P2.2	Is there a shared understanding of risks between the city and various utility providers and other regional and national agencies that have a role in managing infrastructure such as power, water, roads and trains, of the points of stress on the system and city scale risks?	3
P2.3	Are their agreed scenarios setting out city-wide exposure and vulnerability from each hazard, or groups of hazards (see above)?	3
P2.4	ls there a collective understanding of potentially cascading failures between different city and infrastructure systems, under different scenarios?	2
P2.5	Do clear hazard maps and data on risk exist? Are these regularly updated?	2

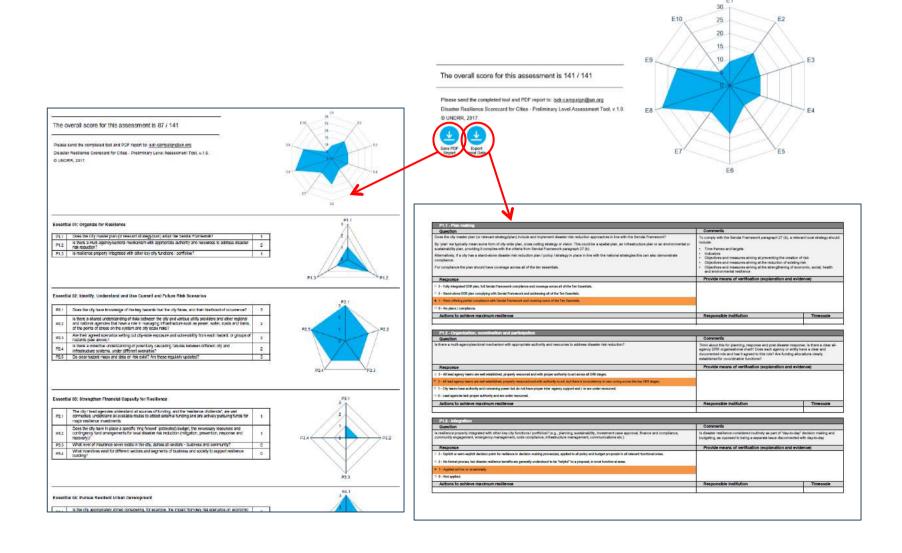


Essential 03: Strengthen Financial Capacity for Resilience

P3.1	The city / lead agencies understand all sources of funding, and the "resilience dividends", are well connected, understand all available routes to attract external funding and are actively pursuing funds for major resilience investments.	1
P3.2	Does the city have in place a specific 'ring fenced' (protected) budget, the necessary resources and contingency fund arrangements for local disaster risk reduction (mitigation, prevention, response and recovery)?	0
P3.3	What level of insurance cover exists in the city, across all sectors – business and community?	0
P3.4	What incentives exist for different sectors and segments of business and society to support resilience building?	0



Reports



Benefits

The benefits of completing the scorecard extend far beyond reporting – **the conversations** the process can generate may even be more important than the score.

Fostering growth mind-set!

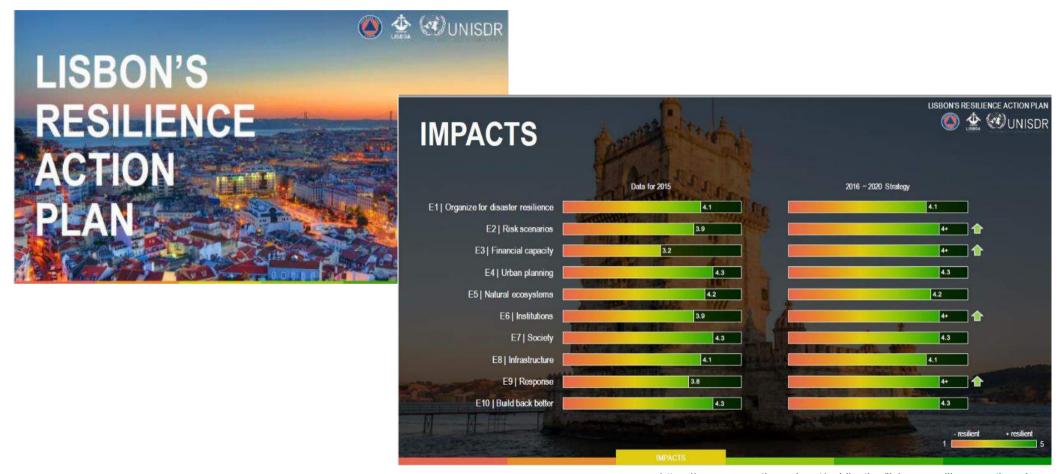
If completed in a collaborative way, cities can:

- Establish a baseline measurement of their current level of disaster resilience
- Increase awareness and understanding of resilience challenges
- Enable dialogue between key city stakeholders who may otherwise not collaborate regularly
- Enable discussion of priorities for investment and action, based on a shared understanding of the current situation
- Enable the **development of a city resilience strategy** / action plan
- Ultimately lead to actions and implementable projects that will deliver increased resilience for the city over time.

Cases Examples from Cities

How Scorecard help enhance local DRR planning

Example of the use cases of the Scorecard for DRR planning



https://www.preventionweb.net/publication/lisbons-resilience-action-plan



Source: Lisbon's Resilience Action Plan

https://www.preventionweb.net/publication/lisbons-resilience-action-plan

Recommendations

- Need to ensure representation of 'systems of systems' in the process with Mayor or local government leaders' engagement and commitment.
- Localize & contextualize the scorecard → translation ++
- Familiarize stakeholders with terminologies → Orientation is useful.
- Some governments may have limited experience engaging with NGOs or private sector → engage academia as a bridge.
- Remember to be a 'facilitator' when facilitating the scorecard process!

Larger cities with capacity can benefit from increased ownership of the process.

Smaller cities may require more external and continuous support in the process to plan, communicate and take actions.

Application process... Set up the working group 1. **Determine** objectives 2. Identify Add awareness raising / stakeholder orientation workshop S 3. Carry out initial Think of the end results research - how do you want to use **Endorsement by** 4. Set up the scorecard results? Will Municipality council, etc. the scorecard results be workshop T-- Breakdown workshops as needed --> informing any plan/policy of the city? Should the process be aligned with the city development/DRR 6. Sign-off planning process? on outcomes 7. Start resilience program!

- Making Cities Resilient campaign (2010-2020) https://www.unisdr.org/campaign/resilientcities/
- Making Cities Resilient 2030 initiative (2021-2030) https://mcr2030.undrr.org/
- Making Cities Resilient Tools: The Ten Essentials for Making Cities Resilient, Scorecard for Resilient Cities, Public Health Scorecard Addendum, Quick Risk Estimation (QRE) Tool https://www.unisdr.org/campaign/resilientcities/toolkit/article/the-ten-essentials-for-making-cities-resilient
- ITU (2017). Fast-forward progress: Leveraging tech to achieve the Global https://www.itu.int/en/sustainable-world/Pages/report-hlpf-2017.aspx
- UN (2015). Sendai Framework for Disaster Risk Reduction 2015-2030 https://www.undrr.org/implementing-sendai-framework/what-sf and https://www.undrr.org/implementing-sendai-framework/what-sf and https://www.preventionweb.net/drr-framework/sendai-framework
- UN Sendai Framework Monitor https://sendaimonitor.undrr.org/ & DesInventar Sendai https://sendaimonitor.undrr.org/
- UN (2017). Disaster Risk Reduction Terminology https://www.undrr.org/terminology
- UN (2020) United Nations E-Government Survey https://publicadministration.un.org/en/Research/UN-e-Government-Surveys
- UNDRR (2017). A Handbook For Local Government Leaders https://www.unisdr.org/campaign/resilientcities/toolkit/article/a-handbook-for-local-government-leaders-2017-edition
- UNDRR (2017). Local Government Powers for Disaster Risk Reduction. https://www.unisdr.org/campaign/resilientcities/toolkit/article/local-government-powers-for-disaster-risk-reduction
- UNDRR (2019). Making Cities Resilient Report. https://www.unisdr.org/campaign/resilientcities/toolkit/article/making-cities-resilient-report-2019
- UNDRR (2019). The Global Assessment Report 2019 https://gar.undrr.org
- WCCD Data for Cities https://www.dataforcities.org/wccd



Thank You

Sanjaya Bhatia

UNDRR

Global Education and Training Institute (GETI) & ONEA

175 Art Center-daero, Yeonsu-gu, Incheon Republic of Korea







