## Planning for Adaptation to Climate Change and **Disaster Risk Reduction in cities**

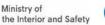
2021-22 International Mayors Forum

26 January 2022



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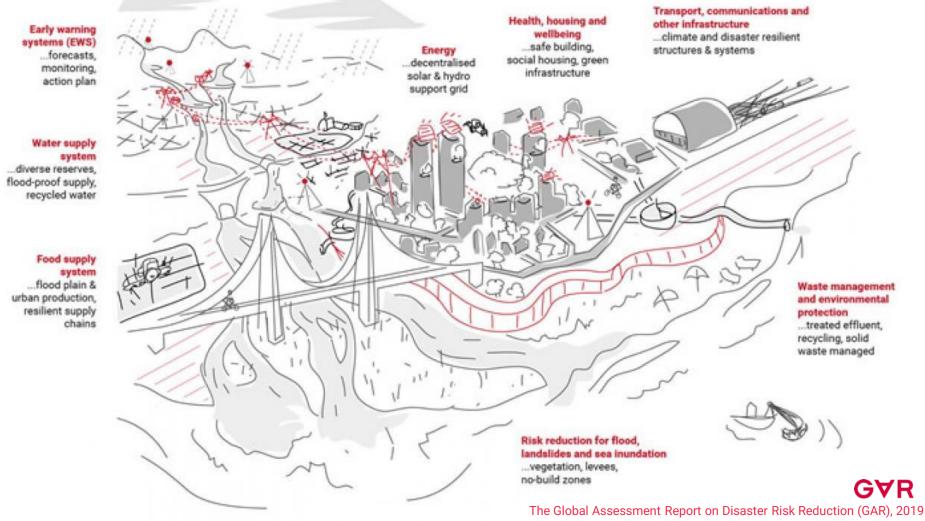




SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION 2015-2030

#### What makes the fictional city of Drecca-Susdev resilient?

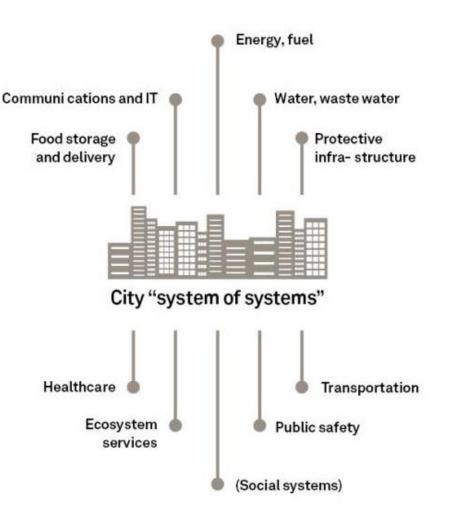
#### Fictional delta city of Drecca-Susdev - some elements of integrated risk governance



UNDER - UNITED NATIONS OTHER IOL DISASTEL RISK REDUCTION

## Resilience has to address the "system of systems" that makes up a city.

- City is made up of different systems
- These systems have multiple connections
   and interactions
  - Causal
  - Resources
  - Data
- Because each system will have different owners and stakeholders, resilience is a multi-organizational endeavor.



## Moving towards becoming a resilient city



#### Organizing and Preparing for Disaster Risk Reduction

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





#### DRR Monitoring, Evaluation and Follow up

Monitor, evaluate and report of achievements, document lessons learned

#### Disaster Risk & Resilience Assessment

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







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



#### **Example: Template for resilience action plan**

Action Plan for Calendar Year						
City/Local Government Name						
Country						
Focal Point Details	Name: Contact Info:					
Title of existing local disaster risk reduction strategy						
Timeframe of existing strategy or plan						

S	Strategic Area/Goal 1: e.g. Strengthen disaster risk governance								
#	OBJECTIVES	PLANNED ACTION(s)	INDICATORS (Specific, measurable, attainable, realistic)	<b>TIMEFRAME</b> (Timebound)	RESPONSIBILITY (+Support) AGENCIES (Assignable)	Budget			

#### **Disaster Resilience Scorecard for Cities**



**Preliminary Assessment** 



**Detailed Assessment** 

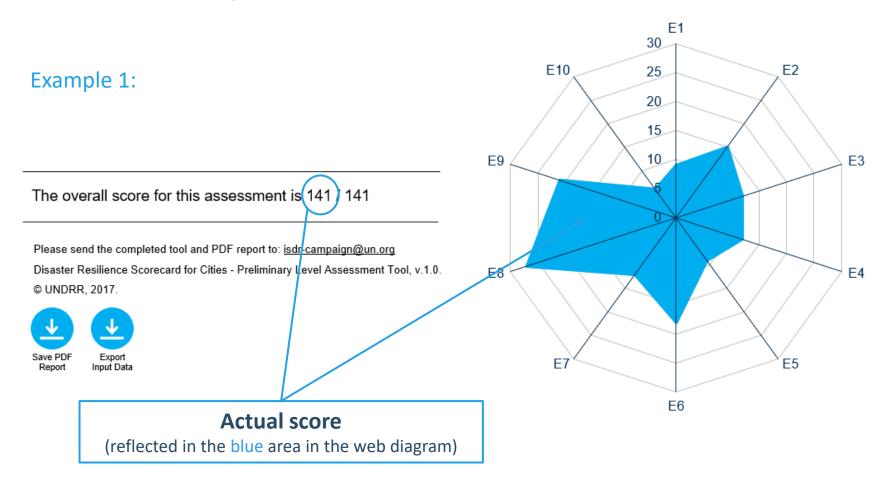
- Provides a set of **assessments** that allow cities to assess their disaster resilience, structured around the new 10 Essentials for Making Cities Resilient.
- **Preliminary** has just **47 criteria** and simpler scoring. Designed for use in multistakeholder workshops and reports back directly progress made against Sendai targets. (Scoring between 0-3)
- Detailed assessment includes 117 criteria. (Scoring between 0-5)

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

## **Using the Scorecard Excel Tool**

File	Home	Insert	Draw	Page Layout	Formulas	Data	Review	View	Help	Q	Tell me what y	ou want to do				
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				L <b>IENCE</b> R CITIES		ESSEN ORGAI			CE		The 10 Essentials	8	) 📢 🤮	Results Abo	ut	
	- Plan making											Comments				
Does th By 'pla or sust Alterna complia For cor	Question         Does the city master plan (or relevant strategy/plan) include and implement disaster risk reduction approaches in line with the Sendai Framework?         By 'plan' we typically mean some form of city wide plan, cross cutting strategy or vision. This could be a spatial plan, an infrastructure plan or an environmental or sustainability plan, providing it complies with the criteria from Sendai Framework paragraph 27 (b).         Alternatively, if a city has a stand-alone disaster risk reduction plan / policy / strategy in place in line with the national strategies this can also demonstrate compliance.         For compliance the plan should have coverage across all of the ten essentials.					To comply wit should include Time fram Indicators Objectives Objectives and enviro	es and targets and measures and measures and measures and measures nmental resilier	aiming at prever aiming at the rec aiming at the str ice		of risk risk nomic, social, health						
Resp												Provide me	ans of verific	ation (explana	ation and evider	ice)
02-	- Stand-alone DRR	t plan complyin Irtial compliant	ig with Sendai F	rk compliance and cove ramework and address ramework and covering	ng all of the Ten E	sentials.	ials.						2			
Actio	ons to achieve	maximum	resilience									Responsibl	e institution			Timescale
	3											4				5

#### **Analyzing Results – Overall Score**



## How is this city doing?

#### **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. If completed in a collaborative way, cities can:

- Establish a baseline measurement of their current level of 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 bankable projects that will deliver increased resilience for the city over time.

# Cases Examples from Cities

# Example of the use cases of the Scorecard for resilience planning





Source: Lisbon's Resilience Action Plan



Source: Lisbon's Resilience Action Plan

### Asia - Ulaanbaatar, Mongolia



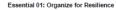
Organize for resilience	<ul> <li>Protect environment and maintain natural ecosystem,</li> </ul>
✓ Infrastructure resilience	Understand and strengthen     societal capacity
Effective disaster response	Identify current and future risks
	11

- The linkage between the local and national implementation of the Sendai Framework is strengthened
- Ulaanbaatar has inspired all 21 other cities to sign-up to the Campaign and conduct the self-assessment for DRR.
- Ulaanbaatar has aligned the DRR action planning process with urban development and budgeting process.

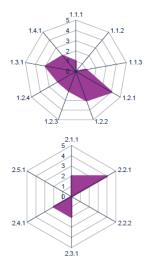
#### Asia - Dhaka North, Bangladesh



Orientation: 10 Essential (10-11 Jan 2018 & 15 May 2018)



1.1.1	Risk consideration in plan making.	1
1.1.2	Consultation in plan making.	0
1.1.3	Review of strategic plans.	1
1.2.1	Pre-event planning and preparation.	4
1.2.2	Co-ordination of event response.	3
1.2.3	City resources for managing organisation, co-ordination and participation.	2
1.2.4	Identification of physical contributions.	2
1.3.1	Integration of disaster resilience with other initiatives.	3
1.4.1	Extent to which data on the city's resilience position is shared with other organizations involved with the city's resilience.	2





Scorecard Assessment (20-21 Jun 2018)

2.1.1	Knowledge of hazards (also called perils, or shocks and stresses) that the city faces, and their likelihood.	
2.2.1	Knowledge of exposure and vulnerability.	
2.2.2	Damage and loss estimation.	
2.3.1	Understanding of critical assets and the linkages between these.	
2.4.1	Hazard maps.	
251	Undate process	

Dhaka North City Corporation is planning to use the results of the self-• assessment in developing a project proposal to obtain external funding to DRR. Some of the identified DRR actions will be integrated and implemented through some projects with secured budget e.g. from JICA.

#### **Africa - Yaounde VI, Cameroon**



- Strengthened vertical coordination of
   Yaounde 6 with the national government
- Yaounde 6 has influenced neighboring municipality administration and mayors to engage in DRR activities

## Quatre (04) Points essentiels méritent une attention particulière

Points essentiels	Intitulés	Nombre total de points	Nombre de points obtenu par la Commune de Yaoundé 6	%
	Identifier, comprendre et faire usage de			
E02	scénario de risques actuels et futurs	30	6	20%
	Comprendre et renforcer la capacité sociétale			
E07	en vue de la résilience	50	7	14%
E08	Augmenter la résilience des infrastructures	135	15	11%
E09	Garantir une réaction efficace aux catastrophes	85	18	21%

#### **Arab States - Nablus, Palestine**





#### Supported by Academia (An-Najah University)

- Jul 2018 (1 day) High-level Orientation
- Aug 2018 (2 days) Stakeholders' orientation (terminologies, DRR concept, 10 Essentials, scorecard assessment introduction, preparation for the assessment)
- Aug-Sep 2018 Information gathering
  - Concerned individuals/institutions gathered information for scorecard analysis
  - Discussions/meetings by the municipality and stakeholders
- Sep 2018 (3 days) Scorecard assessment workshop (based on individual/institutional information gathered, discussed questions by questions & follow-up meetings/discussions for certain questions for accurate scoring with appropriate evidence)
- Sep 2018 Follow-up meetings
- Jan 2019 Action planning workshop (matrix for actions and responsible institutions, grouped into 6 major projects & project prioritization discussion)

## **Important Note**

- Once the plan is developed, it must be presented to the governing authority (e.g. the Municipality/City Council) for adoption and formal authorization to implement the plan.
- In many cases, the stand-alone Strategy/Action Plan does not guarantee the budget for implementation. Local governments may seek an option to integrate the Action Plan with an urban development plan, sectoral development plans, climate change adaptation plan, or any other relevant plans to ensure support for implementation.

#### **Useful Resources**

- Words into Action guideline: Developing national disaster risk reduction strategies (May 2019) <u>https://www.preventionweb.net/publications/view/65095</u>
- Words into Action guideline: Implementation guide for local disaster risk reduction and resilience strategies (May 2019) <u>https://www.preventionweb.net/publications/view/57399</u>
- Words into Action Guidelines Implementation guide for land use and urban planning (Feb 2020) <u>https://www.preventionweb.net/publications/view/67430</u>
- Practical Guide for Developing Local Disaster Risk Reduction Plans toward 2020 <a href="https://www.jica.go.jp/english/news/field/2017/c8h0vm0000bqnq">https://www.jica.go.jp/english/news/field/2017/c8h0vm0000bqnq</a> <a href="https://www.jica.go.jp/english/news/field/2017/c8h0vm0000bqnq">https://www.jica.go.jp/english/news/field/2017/c8h0vm0000bqnq</a> <a href="https://www.jica.go.jp/english/news/field/2017/c8h0vm0000bqnq">https://www.jica.go.jp/english/news/field/2017/c8h0vm0000bqnq</a>











# **Thank You**

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