



UNISDR

United Nations Office for Disaster Risk Reduction

Day 2:

- Wrap-up day 1
- Data collection
- Hands-on training
- Custom indicators
- Supporting tools
- Conclusions

UNISDR/DPPI SEE SFM Training, 5-6 March 2019



Day 1 Wrap-up

- Introductions / expectations
 - Sendai Framework Monitoring updates
 - National experiences
 - SFM / DRR Strategies / Platforms
 - Coherence
 - Regional cooperation
-



Expectations

- Knowledge of the Sendai Framework
 - Practical information on the Sendai Framework Monitoring process
 - Linkages with the local level
 - Learn from / share national experiences
 - Broaden networks
-



Learning from others: strengths & opportunities

Legal frameworks

- Fitting SFM in current legislation
- Adapting legislative framework

Coordination / Governance – multi-stakeholder

- National Platform
- Matrix data ownership
- Regional cooperation

Local level engagement

- Channelling data into national reporting
- Promoting local level resilience

Disaster Loss Databases

- Use of DesInventar-Sendai
- Developing national DLD

DRR Strategies

- Integrating monitoring process
 - Self-assessing against SFM
-



Learning from others: challenges and risks

Reporting process

- (too) high expectations
- multiplication of exercises
- lack of capacity
- language

Technical hurdles

- engaging stakeholders: national / local
- thresholds
- validation
- offline / online: DesInventar

Sustainability

- (over)regulatory limitations
 - Institutional buy-in
 - Linking to SDG reporting process
-



**What did you take away
from day 1?**



Day 2

- Data Collection – DesInventar-Sendai
 - Hands-on session
 - Custom Indicators
 - Supporting tools
 - Wrap-up and Next steps
-



Training objectives

- ✓ Understanding of the Sendai Framework Monitoring process;
 - ✓ Familiarity with the main concepts, methodologies and tools;
 - ✓ Awareness to link SFM with other initiatives and processes;
 - ✓ Capacity to use to SFM online system, and help colleagues back home.
-



Day 2 expectations?



United Nations Office for Disaster Risk Reduction

UNISDR

Day 2 / Session 2:
Data Collection
DesInventar-Sendai

UNISDR/DPPI SEE SFM Training, 5-6 March 2019

Disaster loss accounting

- Without information it is very difficult to establish the context.
- Lack of knowledge about past losses hampers future risk-informed decision-making.
- Provides insight about the temporal and spatial footprint of disasters, helping to take action on critical spots where damages and losses are concentrated.
- Shows where risk generation should be avoided and DRR measures should be taken and prioritized.

Disaster Loss Data Sources



EM-DAT

- **Global coverage**
- **Mortality:** more than 10 people
- **Number of affected:** more than 100 people
- **Economic losses:** are present in less than 30% of the records
- **Global level of observation, national level resolution**

Swiss Re



Munich RE



Private Insurance and Re-insurance companies

- **Global coverage**
- **Data is not freely available**
- **Only Analysis reports are shared**
- **Developed for the insurance market**



UNITED NATIONS



ECLAC-WB: Damage and Loss Assessment methodology (DaLA)

- **National level of observation, data with sub-national level of resolution.**
- **Consistent methodology**
- **Only assesses losses from large scale (intensive) disasters**
- **Does not have global coverage**

National databases



- **National level of observation, data with sub-national level of resolution.**
- **Methodologies are heterogeneous, hampering global comparison.**
- **Not frequently updated.**

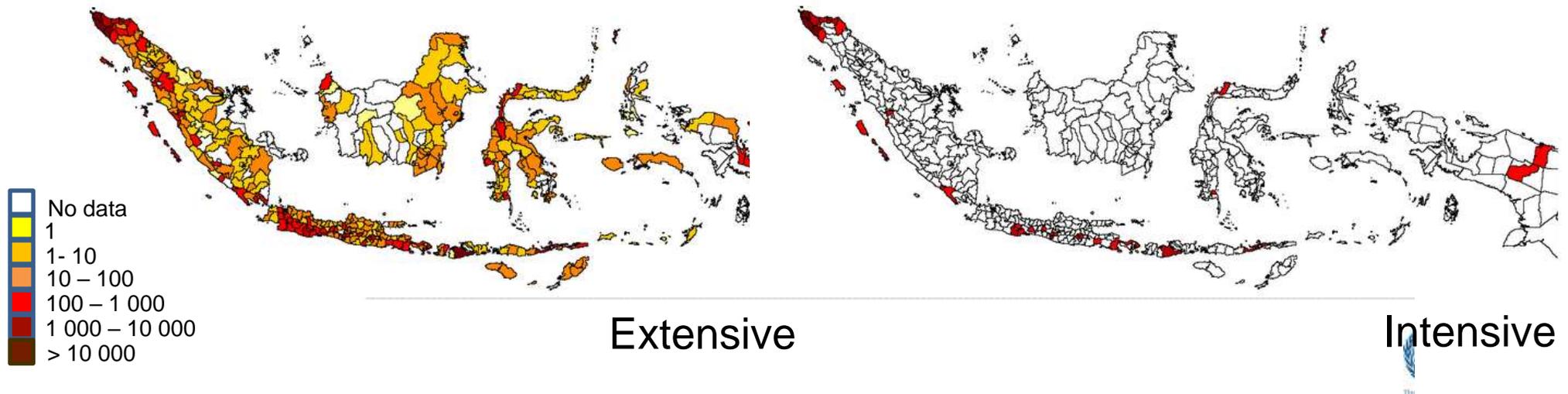


National disaster loss databases: Advantages

- Functions as a **national** level disaster loss information system.
 - Allows to track **historical disaster risk** at different geographical scales.
 - Shows patterns of **impacts from different hazards** at all levels.
 - Functions as an **international reporting mechanism** against the Sendai Framework targets (A-D).
 - Captures **Extensive and Intensive** disasters
-

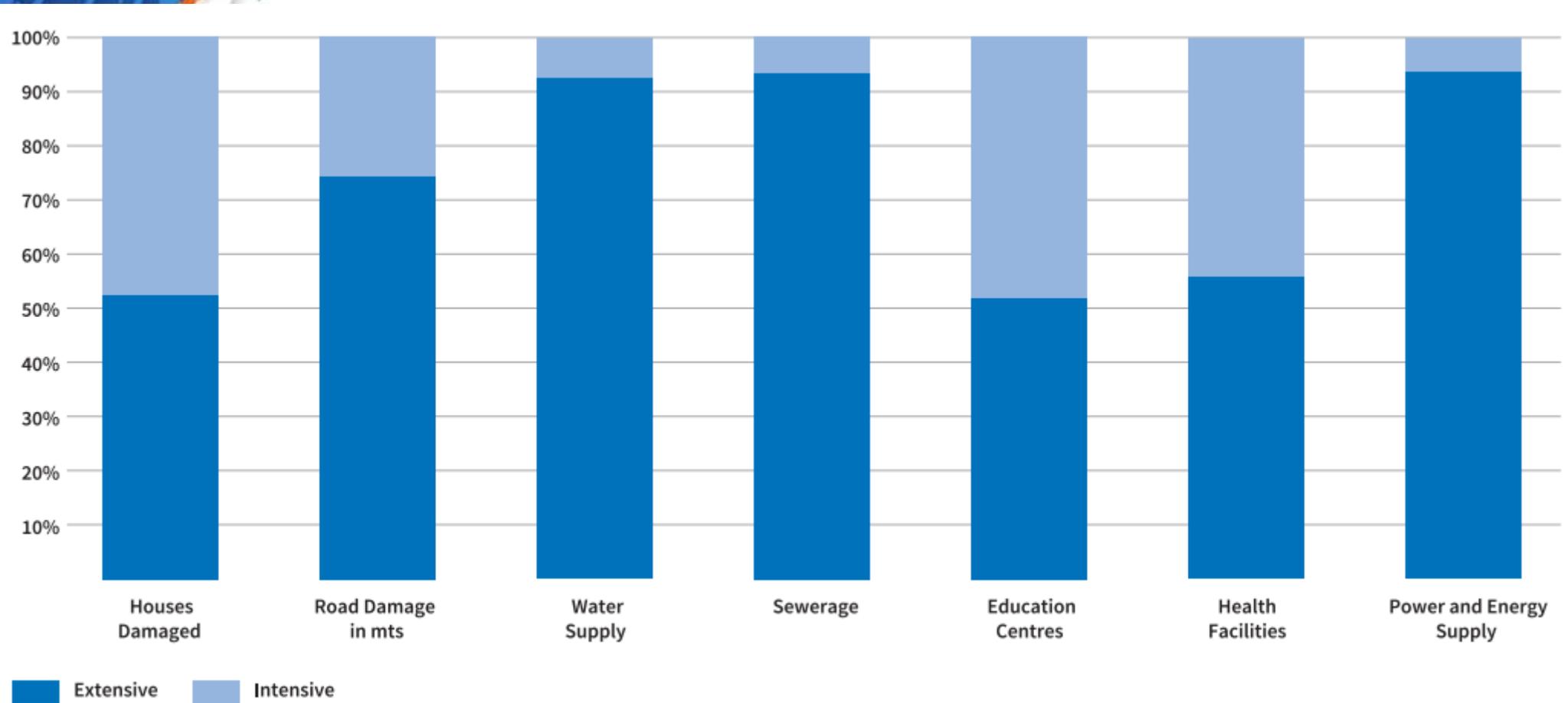
Extensive and Intensive disasters

- **Intensive disasters:** is used to describe high-severity, mid to low-frequency disasters, mainly associated with major hazards.
 - **Extensive disasters:** is used to describe low-severity, high-frequency disasters, mainly but not exclusively associated with highly localized hazards.
- After a series of statistical and mathematical analyses, the thresholds for extensive disaster finally obtained that an extensive disaster is when:
 - **Mortality: less than 30 people killed.**
 - **Housing destruction: less than 600 houses destroyed**



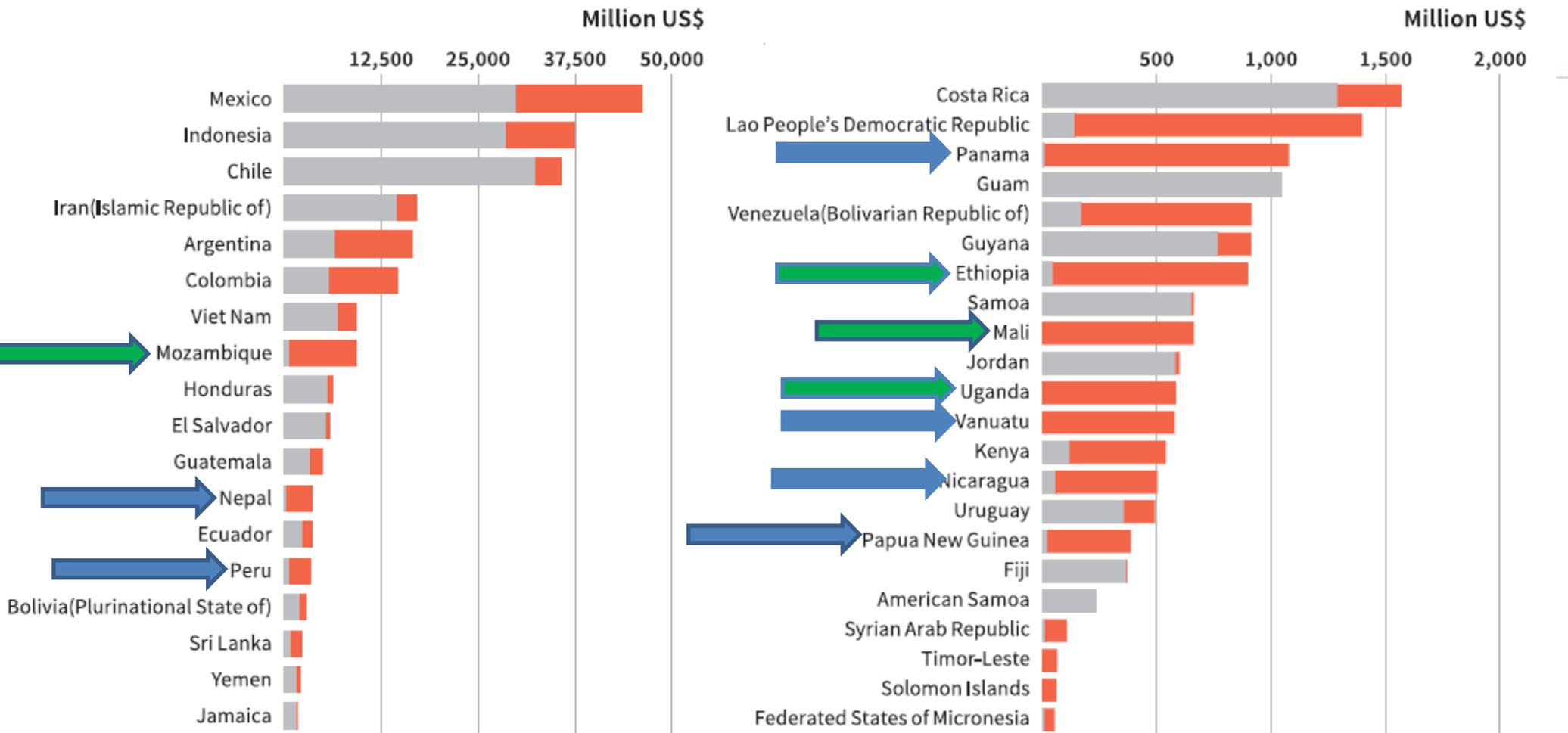
Extensive and Intensive disasters

➤ The impact of extensive disasters



Highlights of Comparison - National Disaster Loss Databases and International Databases

■ Recorded in EMDAT ■ Additional losses from National Datasets



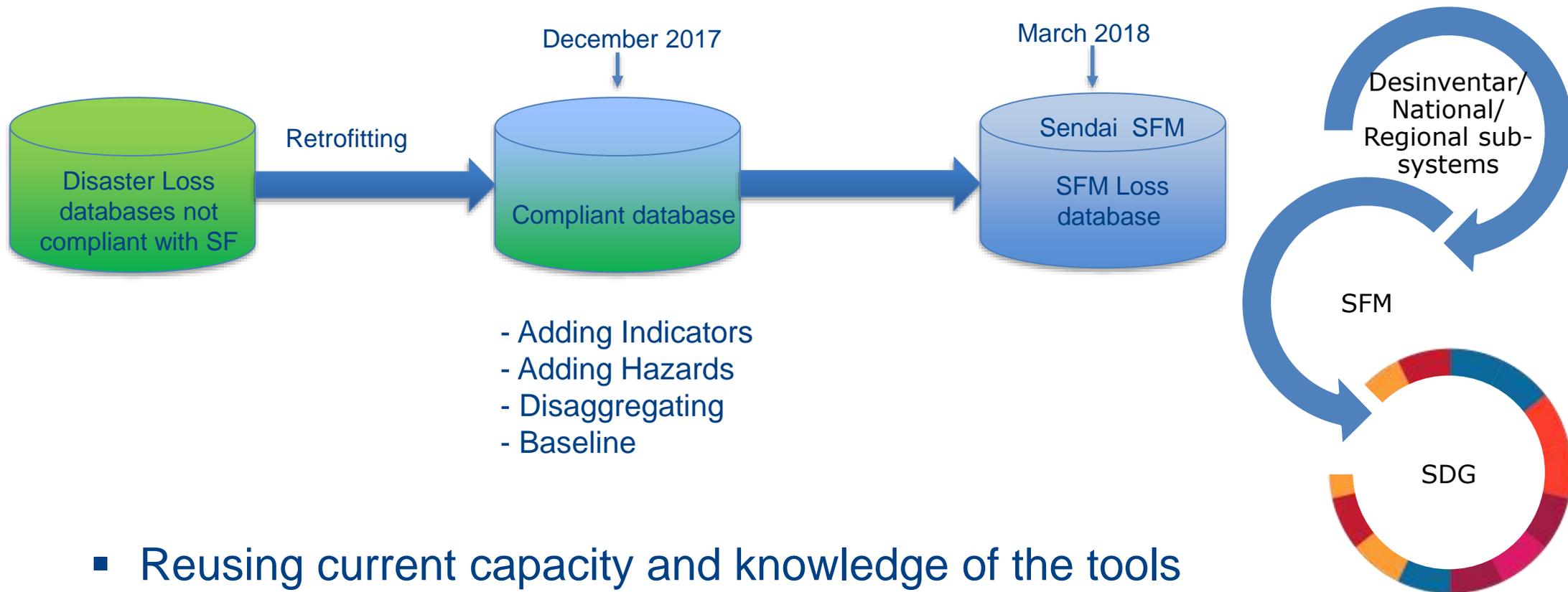
- *Direct losses in National Disaster Loss Databases are at least 60% more than the ones registered internationally.*
- *In Africa, the implementation of National Disaster Loss Databases has helped to complete the picture about disaster losses and damages, which have been triggered essentially by small and medium-scale events that are not captured by the international databases.*



SFM data national use: policy and programme influencing opportunity

- *Collected disaggregated disaster impact data: contributes to analyse knowledge and capacity gaps to design resilience interventions*
- *Involving women, older, people living with disability, and indigenous people in the design, formulation, programming and monitoring of national and local DRR strategies fosters inclusiveness & ownership & long-term sustainability in DRR implementation*

Online Loss Accounting sub-system



- Reusing current capacity and knowledge of the tools
- Reusing data already collected
- DesInventar users will be supported by automated migration path

DesInventar Sendai: <http://www.desinventar.net>

DesInventar Sendai Overview

- *A historical disaster loss database.*
- *A tool for collecting disaster loss data.*
- *A tool for Reporting on Sendai Framework and the SDG's*
- *Contains a set of tools for analysing the data, such as:*
 - Hazard profile (impacts)
 - Temporal analysis
 - Spatial analysis
 - Cause-effect analysis
 - Statistical analysis (mean, standard deviation, etc.)
- *But more importantly, DesInventar proposes **a methodology** that allows to develop analysis in a comparative way between the countries that have joined the initiative.*



Recommendations for loss accounting

- *Disaggregate to an optimal scale and the administrative boundaries*
(Geographical data)
- *Select specific names and codes for each administrative level (districts, municipalities)*
- *Search for data for the longest possible period of time (ideally 30 years?):*
 - At least back to 2005 for the baseline of the Sendai Framework Monitoring.
- *Select, rate and prioritize data sources*
- *Compile important information such as:*
 - *Agricultural data: Yield, prices, area and production per district*
 - *Other statistics: Population, GDP, Age Groups, Exchange rate, etc...*

Roles and Responsibilities

Who hosts the database?

Who validates and updates the database?

When the database should be updated?

Who is the focal point in each institution for sharing data with the host agency?



Who will be the end users?

Who is accountable for the maintenance of the database?

Sustainability

- The workflow should be maintained, with clear responsibilities.
- Quality control and updating needs to be done, to guarantee quality and reliability of the data. UNISDR can provide technical support, through gap analysis and troubleshooting.
- Channels need to be open in terms of data sharing between the different institutions and the host agency.
- Institutional commitment and synergy should function as basis for the maintenance and updating of the database.

Sustainability (contd.)

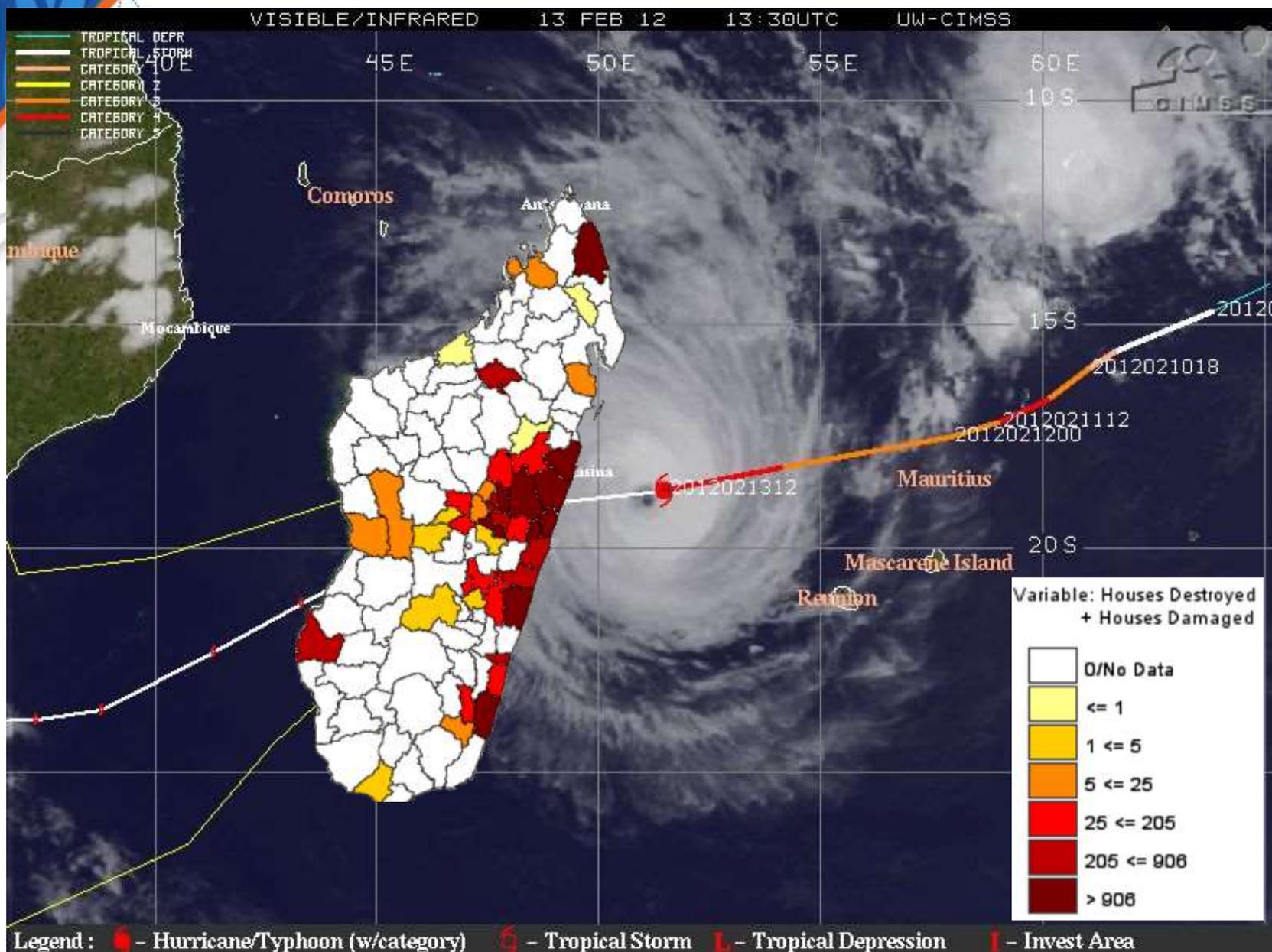
- Data needs to be analysed and presented in reports so it functions as basis for policy and decision-making. Results should be communicated with key partners and stakeholders.

Ownership means sustainability

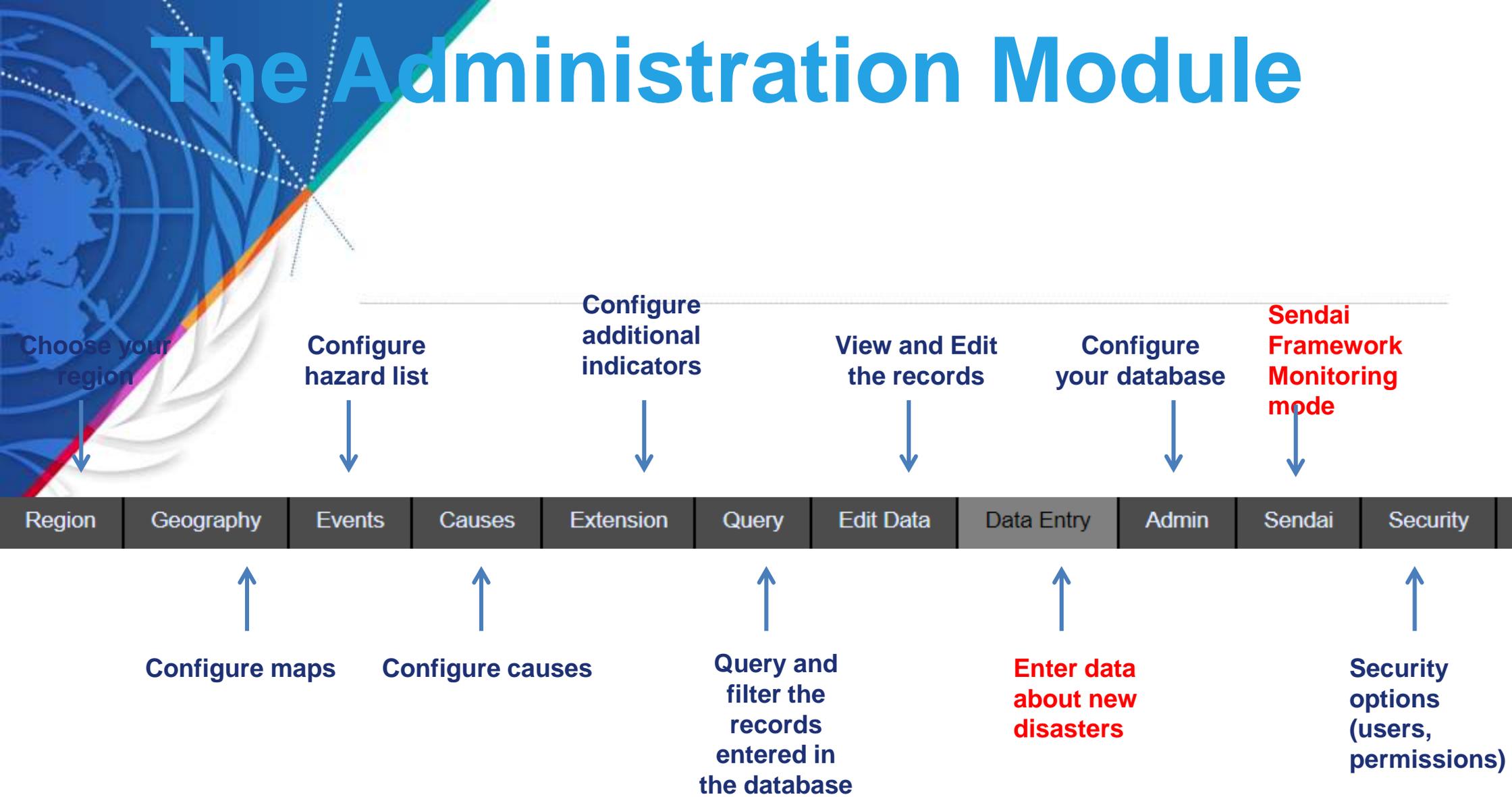
- Creating **synergies** among the institutions for data collection and follow-up is essential. Without coordination, it is very difficult to implement a successful disaster loss accounting system!
- Relate loss data with other socio-economic data such as Poverty, Environment, Demography, etc.

Disaggregation (geography)

➤ *Impact to housing of cyclone Giovanna in Madagascar (2012)*



The Administration Module



The Datacard – Entering an event

‘Classic Mode’

Serial: 22	Date (YMD): 2016 4 21	Duration (d):	Source:	Status: Approved
Province:	Municipality:	Township:		
Event: TSUNAMI	Location:	GLIDNumber:		
Cause:	Description of Cause:			
EFFECTS <input checked="" type="checkbox"/> Standard				
Deaths:	Missing:	Injured:	Magnitude:	
Affected:	Relocated:	Houses Damaged:	Losses \$Local:	
Evacuated:	Victims:	Houses Destroyed:	Losses \$USD:	
Affected Sectors			Damages in roads Mts:	
<input type="checkbox"/> Transportation	<input type="checkbox"/> Communications	<input type="checkbox"/> Relief	Damages in crops Ha.:	
<input type="checkbox"/> Agriculture	<input type="checkbox"/> Water supply	<input type="checkbox"/> Sewerage	Lost Cattle:	
<input type="checkbox"/> Power and Energy	<input type="checkbox"/> Industries	<input type="checkbox"/> Education	Education centers:	
<input type="checkbox"/> Other sectors	<input type="checkbox"/> Health sector	Hospitals:		
OTHER LOSSES:	Latitude: -12.125264218	Longitude: 17.1826171875		
Comments:				
By: Anonimous		Date: 2016-04-21		

EDUCATION	HEALTH	POWER AND ENERGY	WATER AND SANITATION	AGRICULTURE	TRANSPORTATION	CULTURAL ASSETS	GENDER AND AGE
Primary schools damaged (#):							
Primary schools destroyed (#):							

The Datacard – Entering an event

‘Sendai - SDG Mode’

Serial: 106	Date (YMD): 2012 1 6	Duration (d): 12	Source: MOI	Status: Approved
Region: Shkodër	District: Malësi e Madhe	Commune:		
Event: FROST	Location: Segmenti rrugor Selce-Vermosh me gjatesi rreth 1	GLIDNumber: @@51		
Cause: Cond.Atmosph.	Description of Cause: paradite reshje debore, naten ere e forte			

EFFECTS

Sendai Framework Target A

Please record in this section human losses (in number of people) needed for Target A, Number of deaths and missing persons attributed to disaster. These fields will be used to compute Indicators A2, A3, B2, B5 and others. If possible, enter disaggregated figures and use the Σ button to calculate the sum of each subgroup.

Number of deaths (A-2)

Total of Deaths (Sub-Indicator A-2a): Number <input type="text"/> <input type="checkbox"/> Σ	By sex: Female: <input type="text"/> Male: <input type="text"/>	By Age: Children (0-14): <input type="text"/> Adult (15-64): <input type="text"/> Elder (>65+): <input type="text"/>	Other disaggregation: With disabilities: <input type="text"/> Below Poverty Line: <input type="text"/>
---	--	--	---

Number of missing (A-3)

Total missing (Sub-Indicator A-3a): Number <input type="text"/> <input type="checkbox"/> Σ	By sex: Female: <input type="text"/> Male: <input type="text"/>	By Age: Children (0-14): <input type="text"/> Adult (15-64): <input type="text"/> Elder (>65+): <input type="text"/>	Other disaggregation: With disabilities: <input type="text"/> Below Poverty Line: <input type="text"/>
---	--	--	---



Sendai Framework Target B

In this section please register human and physical impact required to compute Indicators B2, B3, B4 and B5

Injured or Ill (B-2)

Total injured or ill (B-2a): Number <input type="text"/> <input type="checkbox"/> Σ	By sex: Female: <input type="text"/> Male: <input type="text"/>	By Age: Children (0-14): <input type="text"/> Adult (15-64): <input type="text"/> Elder (>65+): <input type="text"/>	Other disaggregation: With disabilities: <input type="text"/> Below Poverty Line: <input type="text"/>
--	--	--	---

Disaggregation (human losses)

➤ Disaggregation of human losses by Sex, Age, Disability and Income level

Number of deaths (A-2)

Total of Deaths (Sub-indicator A-2a):
Number Σ

By sex:
Female: Number
Male: Number

By Age:
Children (0-14): Number
Adult (15-64): Number
Elder (>65+): Number

Other disaggregation:
With disabilities: Number
Below Poverty Line: Number

Number of missing (A-3)

Total missing (Sub-indicator A-3a):
Number Σ

By sex:
Female: Number
Male: Number

By Age:
Children (0-14): Number
Adult (15-64): Number
Elder (>65+): Number

Other disaggregation:
With disabilities: Number
Below Poverty Line: Number

Sendai Framework Target B

In this section please register human and physical impact required to compute Indicators B2, B3, B4 and B5

Injured or Ill (B-2)

Total injured/ill (Indicator B-2):
Number Σ

By sex:
Female: Number
Male: Number

By Age:
Children (0-14): Number
Adult (15-64): Number
Elder (>65+): Number

Other disaggregation:
With disabilities: Number
Below Poverty Line: Number

Disaggregation (productive assets)

➤ Disaggregation of productive assets (C-3) by economic sector and size

Damages and losses in all other Productive Assets (C-3)

Economic loss and damage to all other productive assets (C-3):

Economic loss from Productive Assets <i>Number</i>	Number of Productive assets facilities (C-3A): <i>Number</i>	Σ	Number of Productive assets facilities damaged <i>Number</i>	Number of Productive assets Facilities destroyed <i>Number</i>
---	---	---	---	---

Disaggregation:

	Economic loss	Total Affected (Factory) [Units]	Damaged (Factory) [Units]	Destroyed (Factory) [Units]
Manufacturing - Small factory	<i>Number</i>	<i>Number</i> Σ	<i>Number</i>	<i>Number</i>
Manufacturing - Medium factory	<i>Number</i>	<i>Number</i> Σ	<i>Number</i>	<i>Number</i>
Manufacturing - Large factory	<i>Number</i>	<i>Number</i> Σ	<i>Number</i>	<i>Number</i>
Wholesale trade, except of motor vehicles and motorcycles	<i>Number</i>	<i>Number</i> Σ	<i>Number</i>	Destroyed (Commerce) [Units] <i>Number</i>
Medium wholesale trade	<i>Number</i>	<i>Number</i> Σ	<i>Number</i>	Destroyed (Commerce) [Units] <i>Number</i>
Large wholesale trade	<i>Number</i>	<i>Number</i> Σ	<i>Number</i>	Destroyed (Commerce) [Units] <i>Number</i>
Retail trade, repair of vehicles	<i>Number</i>	<i>Number</i> Σ	<i>Number</i>	Destroyed (Commerce) [Units] <i>Number</i>
Small store	<i>Number</i>	<i>Number</i> Σ	<i>Number</i>	Destroyed (Commerce) [Units] <i>Number</i>
Medium store	<i>Number</i>	<i>Number</i> Σ	<i>Number</i>	Destroyed (Commerce) [Units] <i>Number</i>

Analysis Module

Tool presentation

Country data at a glance

View data and sort it

Check the administrative boundaries

Make graphics

Extract and export dataset



«Ask questions» to the database



All selection done on the Query tab will be kept in memory on each tab

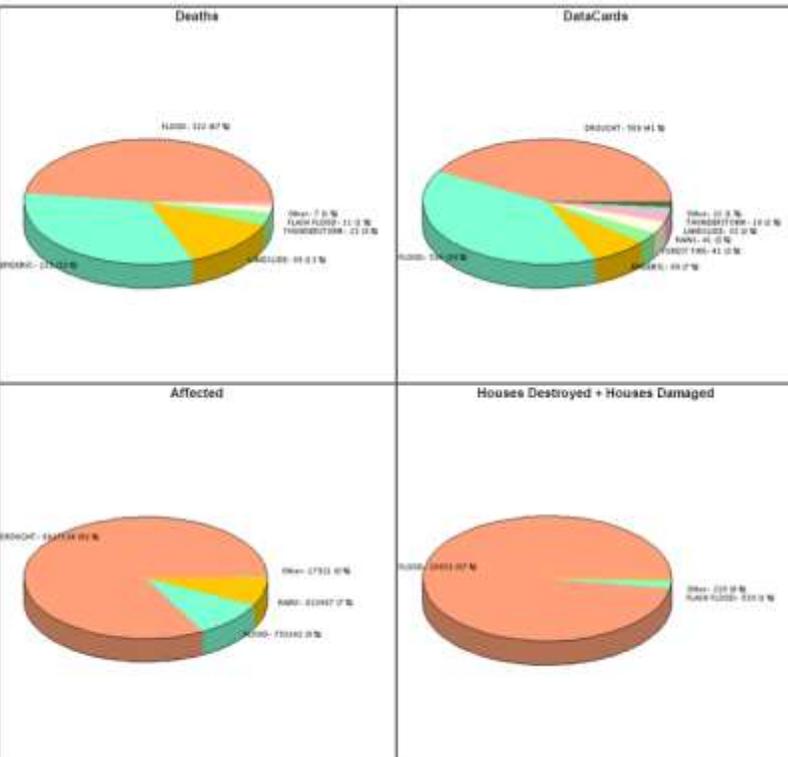
Do analysis and statistics

Make maps

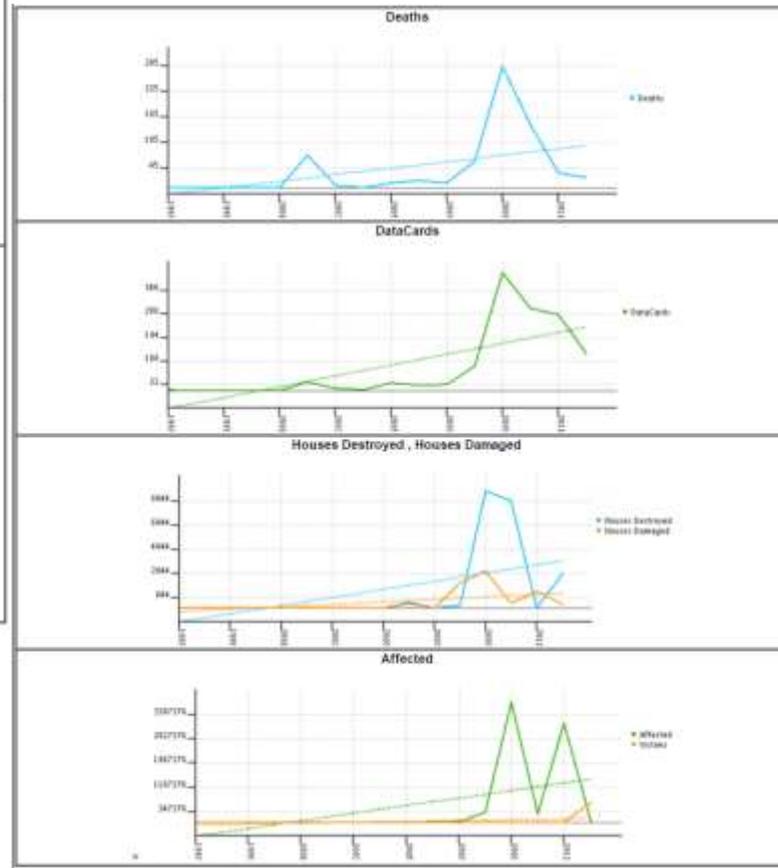
Profile tab

➤ Country and province data at a glance

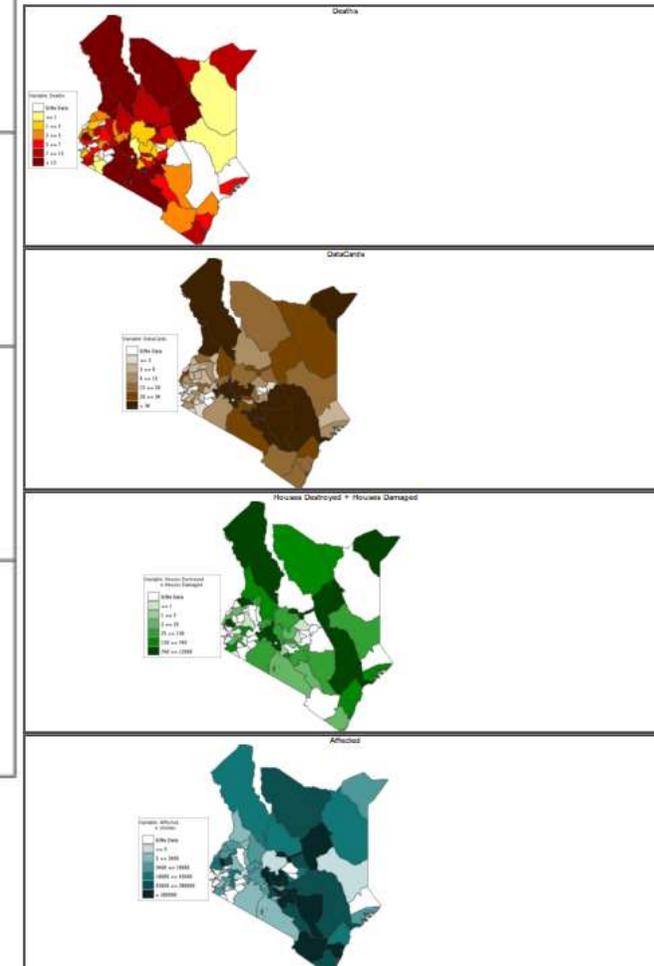
Loss and damage by hazard



Loss and damage in time



Loss and damage in space



Only four indicators are provided, to give an **overview** of disaster impacts in the country or province.

Thematic tab

➤ Build thematic maps

Choose the colors, and the ranges (classes)



Region: Ethiopia - [eth] Thematic Map Generator

Upper Limit	Color	Legend
31		<input type="checkbox"/>
61		<input type="checkbox"/>
100		<input type="checkbox"/>
150		<input type="checkbox"/>
300		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

Color: Gradient Gradient-2 Gradient-3 Normal Calculate: Iso-frequency Equal ranges Logarithmic Round

Variable to be plotted:

- # DataCards
- Deaths
- Injured
- Missing
- Houses Destroyed
- Houses Damaged
- Victims
- Affected
- Relocated
- Evacuated
- Losses \$USD
- Losses \$Local

Variable: DataCards

- 0/No Data
- <= 31
- 31 <= 61
- 61 <= 100
- 100 <= 150
- 150 <= 300
- > 300

Generate Map Dynamic Map Google VirtualEarth KML KML-Vector SVG

Type of Area ID

- No Id shown
- Show codes
- Show names

Legend type

- Fill areas
- Discs
- Bars
- Show Values

Output level

- Region
- Zone
- Wereda
- Artificial Disaggregation

Selection level

- Region
- Zone

Map Features

Generate Map Width: 1000 Height: 600 Dynamic Map Transparency: 0.4

Title: _____

Subtitle: _____

Choose the variables to be plotted in your map

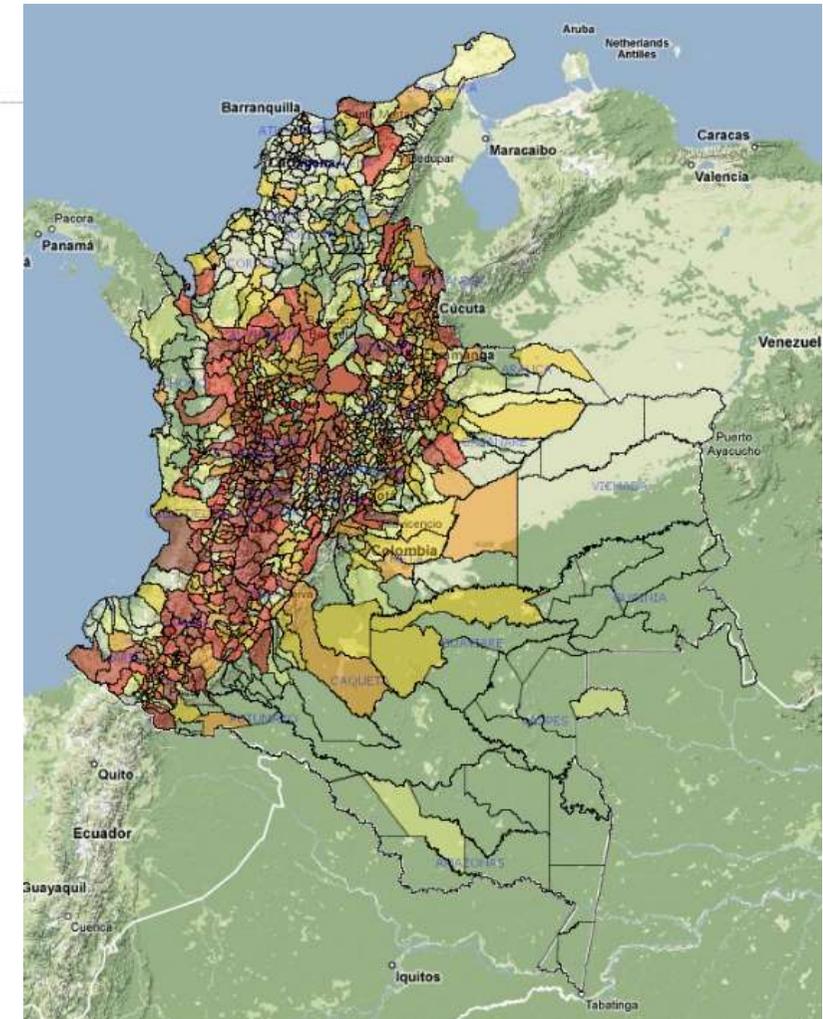
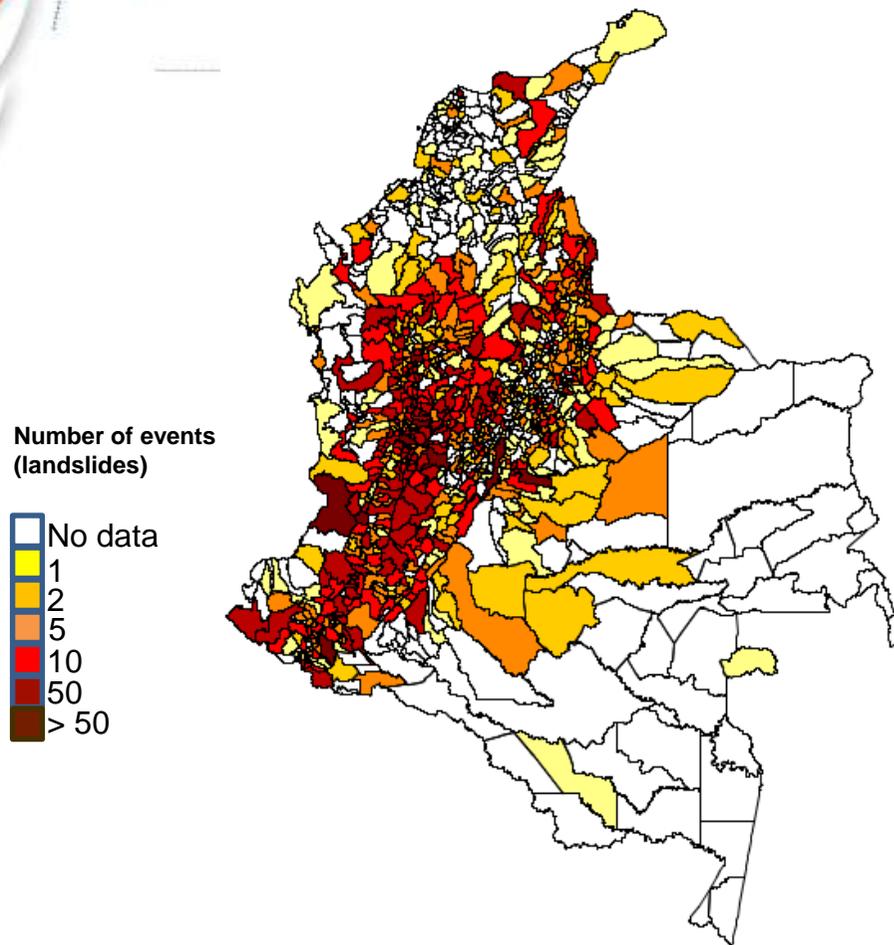


Choose additional display options



Thematic tab

➤ Spatial Analysis (patterns): distribution of losses over space

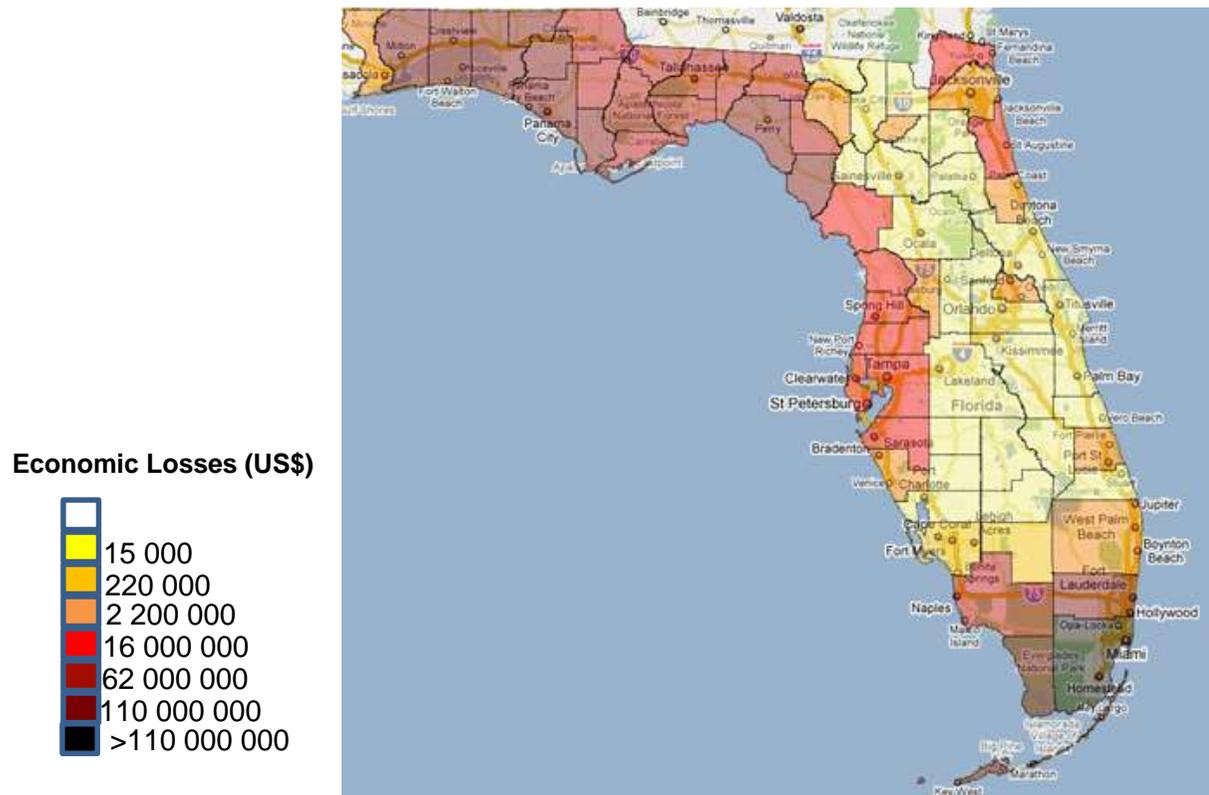


Spatial distribution of landslides in Colombia

Most of the events have taken place in the mountain regions of the Andes cordillera, that are more landslide-prone than the flat regions.

Thematic tab

➤ Spatial Analysis (patterns): distribution of losses over space



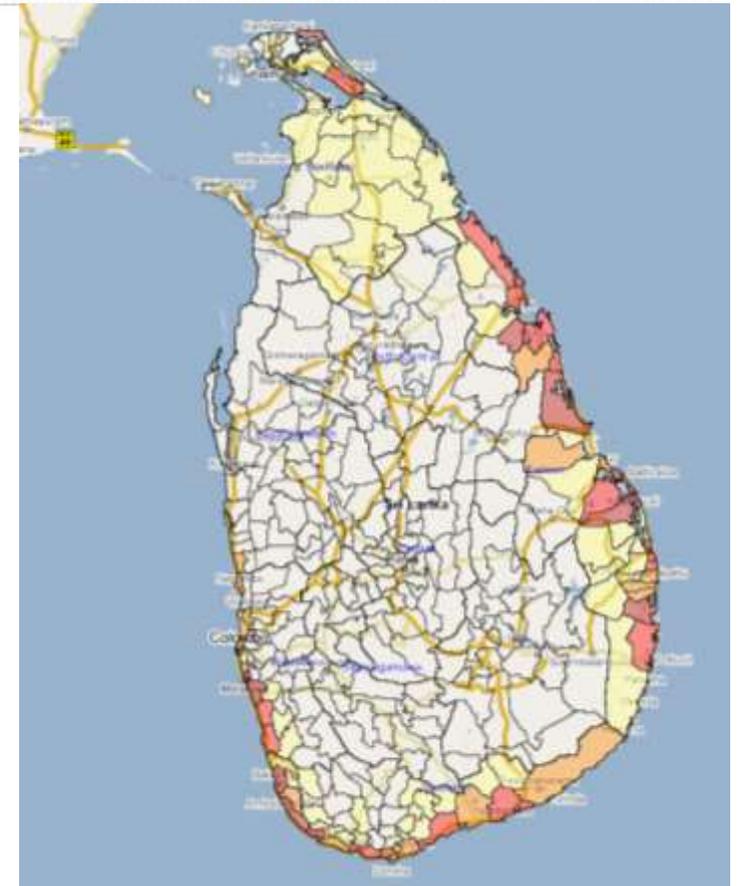
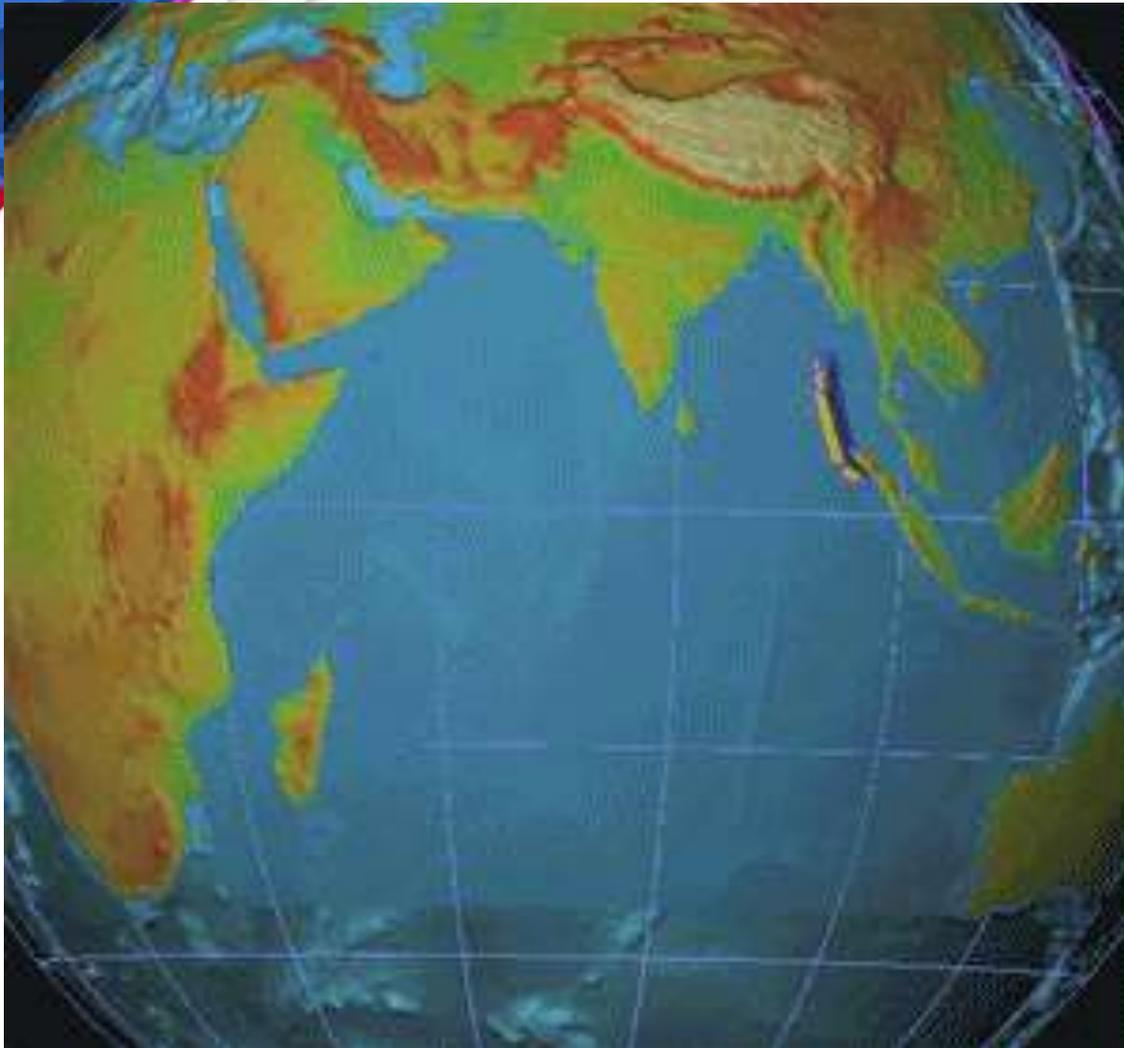
Spatial distribution of Economic losses by hurricanes in Florida, USA

Counties situated in the hurricane paths have been more affected. Coastal counties in the Gulf Coast have more economic losses also due to the impact of storm surges.

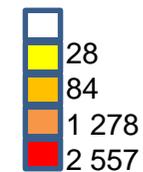
Thematic tab

➤ Spatial Analysis (patterns): distribution of losses over space

Spatial distribution of houses destroyed in Sri Lanka after the 2004 Indian Ocean Tsunami.



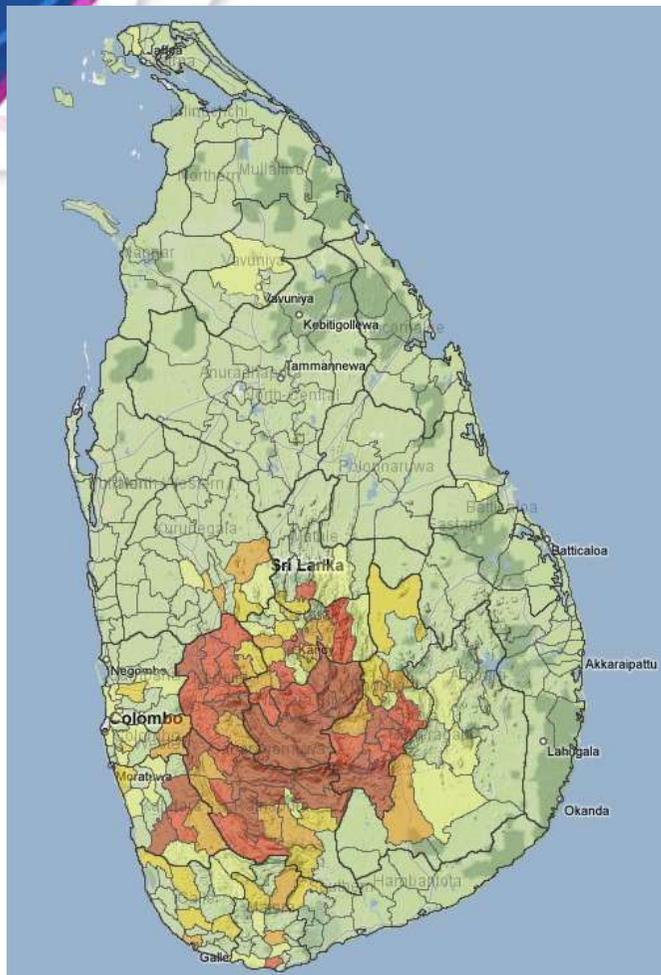
Number of houses destroyed



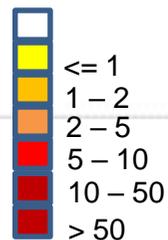
Thematic tab

➤ Spatial Analysis (patterns): distribution of losses over space

Spatial distribution of Landslides in Sri Lanka (1970-2007).



Number of landslides



Statistics Tab

➤ Build statistical reports

Profile Query View data View map Charts **Statistics** Reports Thematic Crosstab English Data

Region: *Ethiopia* - [eth]

Statistics Generator:

Select the columns you want to appear in your report:

Available

- Losses \$USD
- Losses \$Local
- Education centers
- Hospitals
- Damages in crops Ha.
- Lost Cattle
- Damages in roads Mts
- Duration (d)
- With Deaths
- With Injured
- With Missing
- With Houses Destroyed

Variables Available

Add >>
Remove <<

Selected

- # DataCards
- Deaths
- Injured
- Missing
- Houses Destroyed
- Houses Damaged
- Victims
- Affected
- Relocated
- Evacuated

Variables selected

Up Down Top Bottom

Use Ctrl-Click and/or Shift-Click to deselect or for multiple selections.
At least two columns must be selected.

Please define Statistic Functions to produce:

- Sum Average Maximum Variance Standard Deviation

Please define your aggregation levels:

First level of totalization:	Second level:	Third level:
Event Region Zone Wereda Date Data to be plotted by...(1)	Event Region Zone Wereda Date Data to be plotted by...(2)	Event Region Zone Wereda Date Data to be plotted by...(3)

Don't use

Don't use

Continue Report format

Please note that only levels that make sense should be selected. For example, makes no sense to choose Zone as first level and Region as second level. You can select one, two or all three levels of totalization. The more levels you choose, the more detailed is your statistic.

Using statistics for decision making

Houses damaged by floods in Dakar city, Senegal



1. Query the database



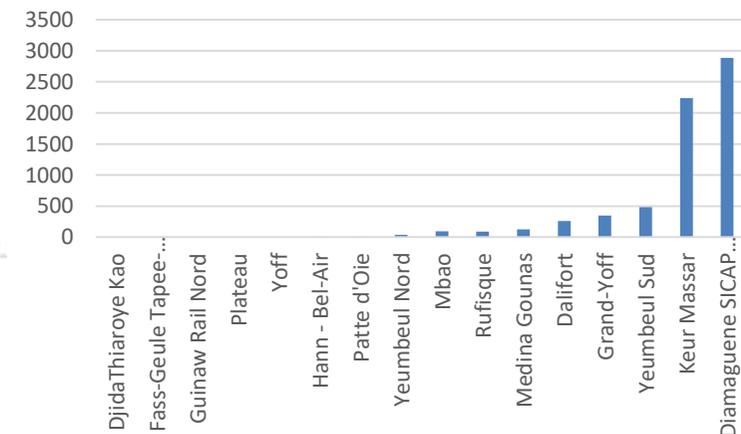
2. Extract and organize the data



Urban district	Houses Damaged
DjidaThiaroye Kao	0
Fass-Geule Tapee-Colobane	0
Guinaw Rail Nord	0
Plateau	0
Yoff	0
Hann - Bel-Air	1
Patte d'Oie	3
Yeumbeul Nord	37
Mbao	95
Rufisque	92
Medina Gounas	126
Dalifort	259
Grand-Yoff	350
Yeumbeul Sud	482
Keur Massar	2241
Diamaguene SICAP	2884
Mbao	2884
Others	62393
TOTAL	68963

3. Analyze data and build reports which will enable decision making

This tool allows to build statistics based on nationally-sustained and reliable data, which will enable to take decisions by sector, location and priority.





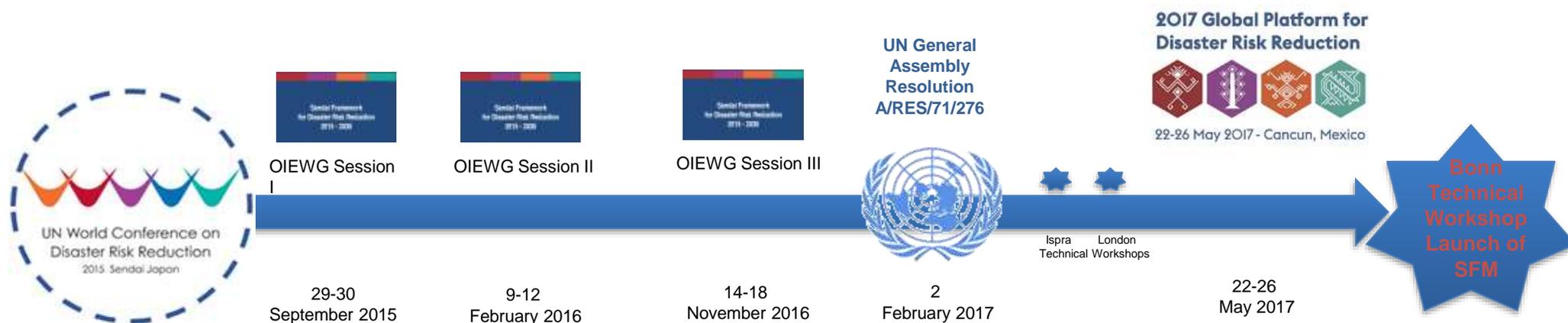
UNISDR

United Nations Office for Disaster Risk Reduction

Day 2 / Session 3:
Hands-on Session
Targets and Indicators

UNISDR/DPPI SEE SFM Training, 5-6 March 2019

Sendai Framework monitoring system development



Through the consultation process:

- Three sessions of the OIEWG
 - UNGA Resolution
 - Technical workshops
 - Consultations at GP 2017
- ## ... Technical Guidance Notes

Technical Guidance Notes

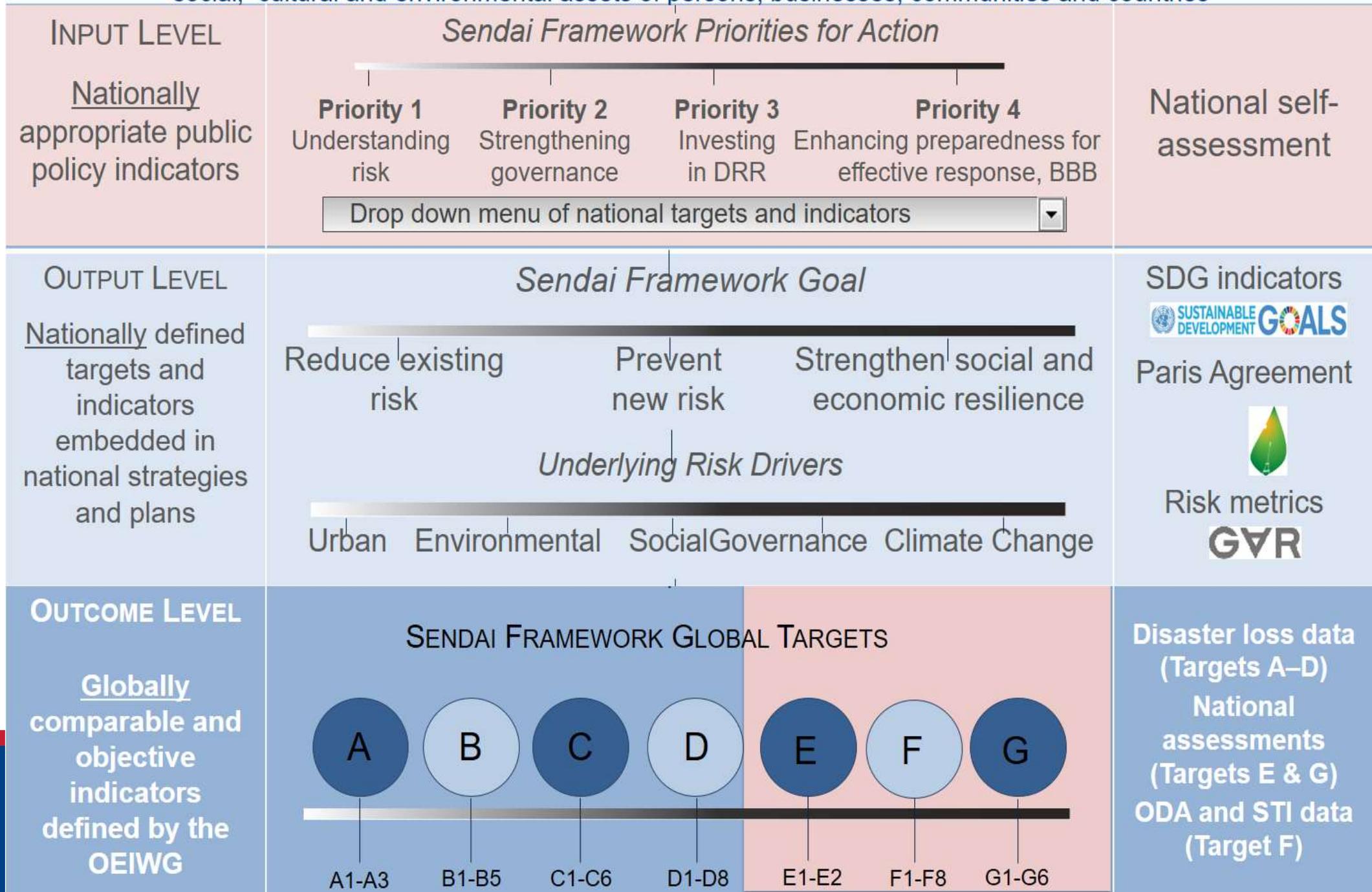
- *For each Target and Indicator indicate:*
 - Minimum data set required
 - Recommended optimal dataset (including disaggregation)
 - Challenges, temporal considerations, etc.
 - Computation methodology (minimal to recommended datasets)
 - Metadata: contents, methodology and other topics (coverage, representativeness, quality)

<http://www.preventionweb.net/publications/view/54970>

Architecture of the Sendai Framework Monitoring System

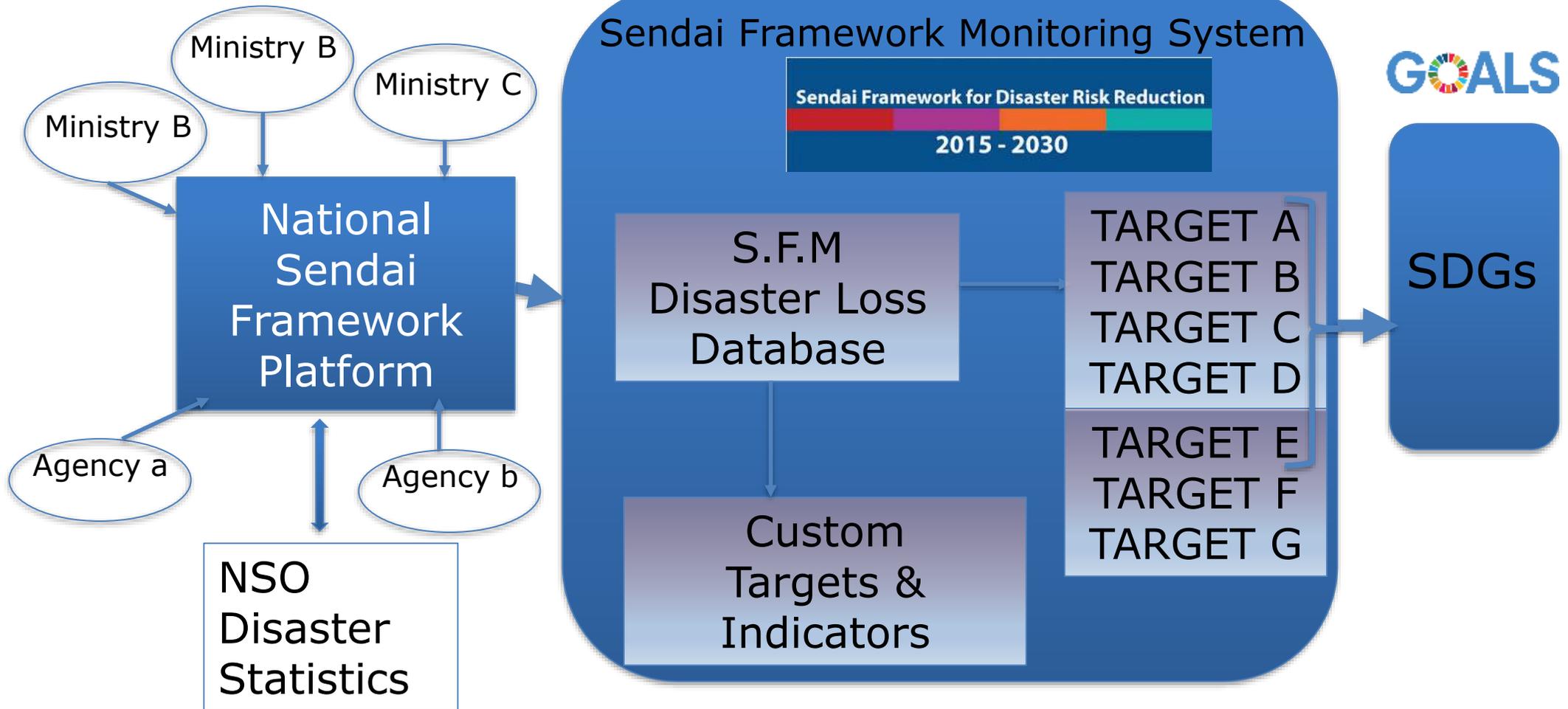
Sendai Framework Outcome

The substantial reduction of disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries



Overall Sendai Framework Monitor structure: Multi-Purpose Data & Integrated Monitoring & Reporting

Country X:



Training Environment link

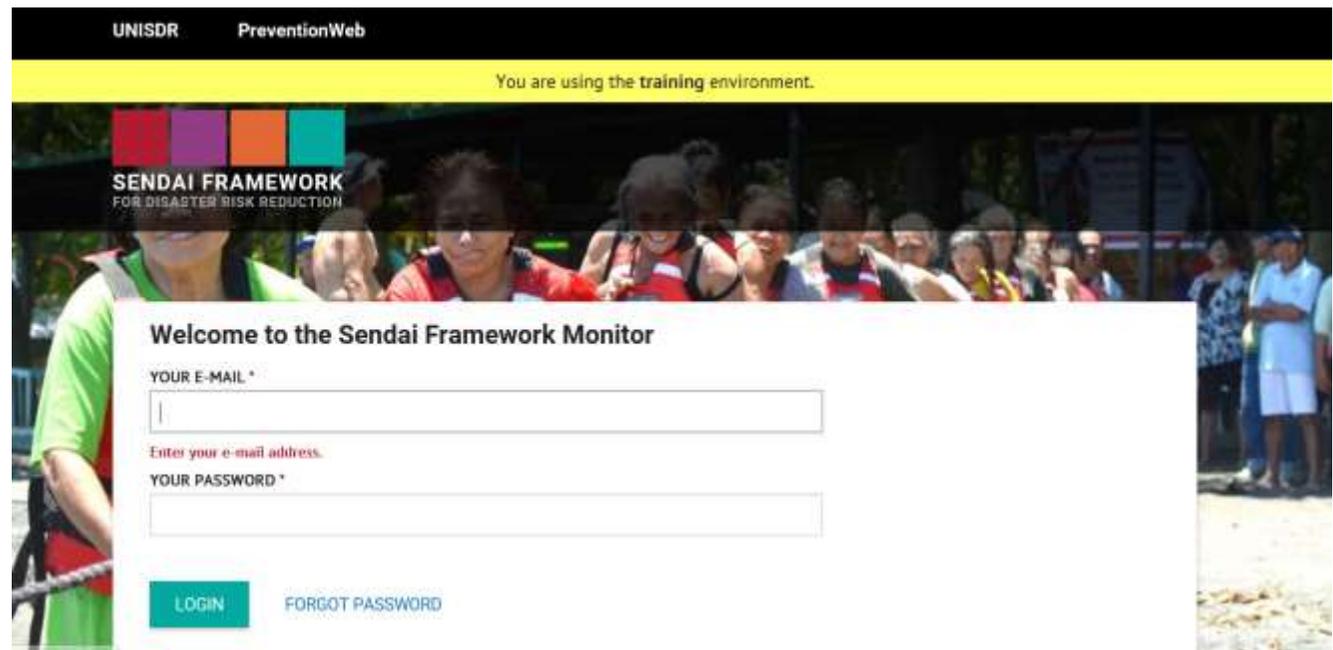
<https://sendaimonitortraining.unisdr.org/login>

XXX@sendai.com...

XXX: ISO code

Password:
123456

WIFI:



The screenshot shows the login interface for the Sendai Framework Monitor. At the top, it says "UNISDR PreventionWeb" and a yellow banner indicates "You are using the training environment." Below this is a banner for the "SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION" featuring a group of people. The main content area is a white box titled "Welcome to the Sendai Framework Monitor" containing two input fields: "YOUR E-MAIL *" and "YOUR PASSWORD *". A red error message "Enter your e-mail address." is visible below the email field. At the bottom of the form are "LOGIN" and "FORGOT PASSWORD" buttons.

Training Environment

🔗 | <https://sendaimonitortraining.unisdr.org/country/coordinator>

UNISDR PreventionWeb English TC TUAN - VIETNAM Coord

You are using the training environment.

SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION

HOME GLOBAL TARGETS CUSTOM TARGETS ANALYTICS ADMIN

MEASURING IMPLEMENTATION OF THE SENDAI FRAMEWORK

ANNOUNCEMENT

Sendai Monitor Training Server

This is the training system for the Sendai Framework Monitor.

Create a new user

USER PROFILE



TITLE *

Select a title... ▼

FIRST NAME *

LAST NAME *

E-MAIL *

ROLE(S) *

- Coordinator
- Contributor
- Validator
- Observer

COUNTRY *

Afghanistan ▼

INSTITUTION *

Select an institution... ▼

 SAVE

 CLOSE

Institutional Arrangement at National Level

1. Nomination of National Sendai Framework Focal Point

2.



Sets up the national monitor:
adds users, institutions, configures metadata, creates
national custom reporting



Enter data for their assigned indicators



Validates report once data entry is complete



Have read-only access and are optional

Definition of roles & responsibilities of users within nominated Institutions



GLOBAL TARGETS: Setup



Responsible Institutions

Please assign one or several responsible institutions to each global indicator listed below. You will identify an owner able to enter the data, as well as additional contributors who are optional.

+ METADATA ✓

- TARGET A: MORTALITY ✓

BY TARGET BY INDICATOR

INDICATOR	OWNER *	ADDITIONAL CONTRIBUTORS
A-1 Number of deaths and missing persons attributed to disasters, per 100,000 population	Select an institution...	Select institution(s)...
A-2 Number of deaths attributed to disasters, per 100,000 population	Select an institution...	Select institution(s)...
A-3 Number of missing persons attributed to disasters, per 100,000 population	Select an institution...	Select institution(s)...

GLOBAL TARGETS: Setup



Responsible Institutions

Please assign one or several responsible institutions to each global indicator. Identify an owner able to enter the data, as well as additional contributors who are optional.

+ METADATA

- TARGET A: MORTALITY

BY TARGET BY INDICATOR

Owner *
Select an institution...

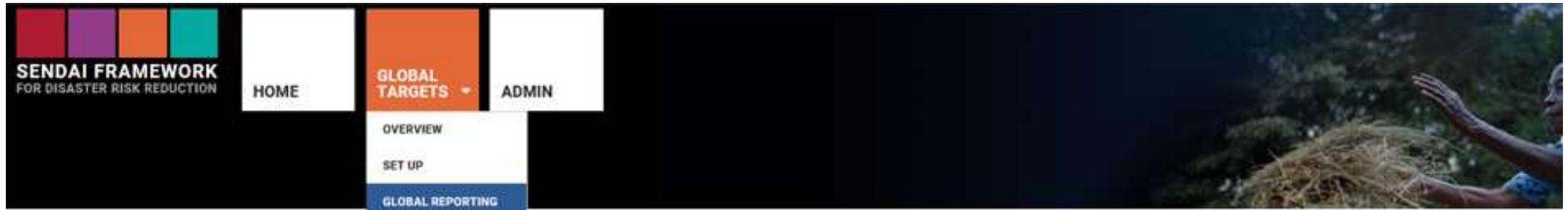
Additional contributors
Select institution(s)...

Owner: Institution that will provide data for and validate the data of a target or indicators

Overview of the home page menu

The screenshot shows the top navigation bar of the UNISDR PreventionWeb portal. It includes the UNISDR logo, the text 'PreventionWeb', a language dropdown set to 'English', a flag icon, a user profile for 'TUAN - VIETNAM Coordinator' with a notification badge, and a hamburger menu icon. A yellow banner below the navigation bar states 'You are using the training environment.' The main content area features a navigation menu with 'HOME', 'GLOBAL TARGETS' (with a dropdown arrow), and 'ADMIN'. The 'GLOBAL TARGETS' dropdown is open, showing 'OVERVIEW', 'SET UP', and 'GLOBAL REPORTING'. To the left of the menu is the 'SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION' logo. The background of the main area is a photograph of a woman in a blue patterned shirt and white shawl, working with a large pile of straw. A semi-transparent dark box in the foreground contains an announcement: 'ANNOUNCEMENT Sendai Monitor Training Server. This is the training system for the Sendai Framework Monitor.'

Metadata Set-up



Reporting year: 2017

GLOBAL TARGETS: Reporting



- A Mortality
- B People affected
- C Economic loss
- D Critical infrastructure & services
- E Disaster risk reduction strategies
- F International cooperation
- G Early warning and risk information

Metadata

The country coordinator needs to fill in the following metadata, which is needed to calculate some of the global indicators.

- + Currency
- + Exchange rate
- + Nominal GDP
- + Number of Households
- + Percentage of road network paved
- + Population
- + Population age 0-14

Disaggregation Metadata



GLOBAL TARGETS: Setup

RESPONSIBLE INSTITUTIONS

DISAGGREGATION

- Hazards
- Geography
- Agricultural Crops (C-2C)
- Livestock (C-2L)
- Forestry (C-2FO)
- Fisheries (C-2FI)
- Aquaculture (C-2A)
- Agricultural Assets (C-2LA)
- Agricultural Stock (C-2LB)
- Productive Assets (C-3)
- Housing Sector (C-4)
- Other Critical Infrastructure (C-5)
- Health Facilities (D-2)
- Education Facilities (D-3)

Disaggregation metadata: Hazards

Please select the hazards your country faces. These will be used to disaggregate the data for Targets A - D. Note that the same hazards should be tracked over the entire period of the Sendai Framework.

SELECTED HAZARDS	
Animal Incidents	<input type="checkbox"/>
Cyclonic rain	<input type="checkbox"/>
Cyclonic wind	<input type="checkbox"/>
Drought	<input type="checkbox"/>
Flash flood	<input type="checkbox"/>
Flood	<input type="checkbox"/>
Landslide	<input type="checkbox"/>
Lightning	<input type="checkbox"/>
Snow	<input type="checkbox"/>
Tropical Depression	<input type="checkbox"/>

+ ADD MORE

SELECT HAZARDS

DONE

Reporting: Target A (disaggregation)

Disaggregation (optional)

— Hazards

HAZARDS	2017	2016
Animal Incidents	<input type="text"/>	
Cyclonic rain	<input type="text"/>	
Cyclonic wind	<input type="text"/>	
Drought	<input type="text"/>	
Flash flood	<input type="text"/>	
Flood	<input type="text"/>	
Landslide	<input type="text"/>	
Lightning	<input type="text"/>	
Snow	<input type="text"/>	
Tropical Depression	<input type="text"/>	

— Geography

GEOGRAPHY	2017	2016
Mi?n núi phía B?c (Northern Mountainous)	<input type="text"/>	

— Sex

SEX	2017	2016
Men	<input type="text"/>	
Women	<input type="text"/>	

Reporting: Target A



Reporting year: 2017

GLOBAL TARGETS: Reporting

- Metadata
- A** Mortality
- B People affected
- C Economic loss
- D Critical infrastructure & services
- E Disaster risk reduction strategies
- F International cooperation
- G Early warning and risk

Target A STATUS: In progress

Substantially reduce global disaster mortality by 2030, aiming to lower average per 100,000 global mortality between 2015-30 compared to 2005-2015.

A-1 Number of deaths and missing persons attributed to disasters, per 100,000 population

2016	2017	BASELINE: 2005-2015
	6533.3333	N/A

CALCULATE COMPOUND INDICATOR A-1

+ A-2 Number of deaths attributed to disasters, per 100,000 population

In progress

+ A-3 Number of missing persons attributed to disasters, per 100,000 population

In progress

Reporting: Target A (cont.)

A-2 Number of deaths attributed to disasters, per 100,000 population



In progress

To be imported from National Disaster Loss Database

YES NO

SUBMIT INDICATOR A-2

Number of deaths per 100 000 (calculated indicator)

YEAR	NUMBER	SOURCE
2017	6533.3333	
2016		

A-2a Number of deaths attributed to disasters

Number of deaths

YEAR	NUMBER	SOURCE
2017	98000	
2016		

Disaggregation (optional)

+ Hazards

+ Geography

+ Sex

+ Age

+ Income

+ Disability

Target A Indicator disaggregation (loss database)

UNISDR DesInventar Sendai



UNISDR | English | ? | ↻

HOME ANALYSIS DOWNLOAD ABOUT

Region Geography Events Causes Extension Query Edit Data Data Entry Admin Sendai Security English Data

Region **Serbia** - [srb]

<< < > >> Find serial: Save Upload media Done

Serial: Date (YMD): Duration (d): Source: Status:

Municipality: n/a:

Event: Location: GLIDENumber:

Cause: Description of Cause:

Please locate approximately the centroid of the disaster. Right-click to position disaster. Double-click to zoom in, and drag controls to zoom in/out.



Latitude: Longitude:

EFFECTS

Sendai Framework Target A

Please record in this section human losses (in number of people) needed for Target A, Number of deaths and missing persons attributed to disaster. These fields will be used to compute Indicators A2, A3, B2, B5 and others. If possible, enter disaggregated figures and use the Σ button to calculate the sum of each subgroup, and then the Σ button of the overall category to obtain to total of the group

Number of deaths (A-2)

Total of Deaths (Sub-indicator A-2a): Σ

By sex:

Female:

Male:

By Age:

Children:

Adult:

Elder:

Other disaggregation:

With disabilities:

Below Poverty Line:

Number of missing (A-3)

Total missing (Sub-indicator A-3a): Σ

By sex:

Female:

Male:

By Age:

Children:

Adult:

Elder:

Other disaggregation:

With disabilities:

Below Poverty Line:

Exercise 0 (10 minutes)

- *The National DRR Report states disaster impacts in 2015.*
- *You as a coordinator/contributor report the following data in SFM.*
 - *100 people died and 20 missing.*
 - *70 seniors (over 65 years old) died among of them.*
 - *Out of these, 80 died in floods and 20 in a drought.*
 - *60 of the death persons were men and 40 women.*
 - *200 people were injured and 50 ill*
 - *According to the Census, population is 100,000*
- *Data have to be validated by validator.*

Target c - Definitions

Important annotations:

Direct economic losses usually happen during the event or within the first few hours after the event and are often assessed soon after the event to estimate recovery cost and claim insurance payments. These are tangible and relatively easy to measure.

Indirect economic loss includes micro-economic impacts (e.g. revenue declines owing to business interruption, impacts on natural assets, loss of revenue or income due to missing assets, interruptions to transportation networks, supply chains or temporary unemployment) and macroeconomic impacts (e.g. price increases, increases in government debt, negative impact on stock market prices, and decline in GDP). Indirect losses can occur inside or outside of the hazard area and often with a time lag. As a result they may be intangible or difficult to measure.

Target c – Methodology

- Member States have freedom to choose between nationally defined methodologies or the methodologies proposed by the Secretariat by which **direct** economic loss to damaged or destroyed productive assets attributed to disasters is determined.

The following major groups of methods are developed in the Technical Guidance to be used when estimating direct economic losses:

- C-1 compound indicator is expressed as a simple sum of Indicators C-2 to C-6 in relation to GDP.
- Estimation of Agricultural Sector losses (C-2): Jointly developed by FAO and UNISDR (for example, to assess economic loss on crops).
- Assessment of built environment losses (C-3, C-4, C-5): Developed by UNISDR, based on ECLAC/DALA (for example, to assess economic loss on houses).
- Assessment based on replacement value and unit prices (for example, to assess economic loss on vehicles or vessels)

- C-3 Direct economic loss to all other damaged or destroyed productive assets attributed to disasters.
- Productive assets would be disaggregated by economic sector, including services, according to standard international classifications. Countries would report against those economic sectors relevant to their economies. This would be described in the associated metadata.*
- C-4 Direct economic loss in the housing sector attributed to disasters.
- Data would be disaggregated according to damaged and destroyed dwellings.*
- C-5 Direct economic loss resulting from damaged or destroyed critical infrastructure attributed to disasters.
- The decision regarding those elements of critical infrastructure to be included in the calculation will be left to the Member States and described in the accompanying metadata. Protective infrastructure and green infrastructure should be included where relevant.*

Reporting: Target C (cont.)

- D** Critical infrastructure & services
- E** Disaster risk reduction strategies
- F** International cooperation
- G** Early warning and risk information

- C-2 Direct agricultural loss attributed to disasters

  Not started

Data entry options

SUBMIT INDICATOR C-2

- Enter monetary value & hectares manually
- Enter hectares manually & monetary value to be calculated
- Both values to be imported from National Disaster Loss Database

Agricultural loss

YEAR	MONETARY VALUE (LCU)	SOURCE
2017	<input type="text"/>	<input type="text"/>
2016	<input type="text"/>	<input type="text"/>

C-2C Loss of crops damaged or destroyed attributed to disasters



Loss of crops

YEAR	MONETARY VALUE (LCU)	HECTARES			SOURCE
		TOTAL	DAMAGED	DESTROYED	
2017	<input type="text"/>				
2016	<input type="text"/>				

Disaggregation (optional)

- Agricultural Crops

#	AGRICULTURAL CROPS	YEAR	MONETARY VALUE (LCU)	HECTARES			UNIT PRICE
				TOTAL	DAMAGED	DESTROYED	
1	Wheat	2017	<input type="text"/>				
		2016	<input type="text"/>				
2	Barley	2017	<input type="text"/>				
		2016	<input type="text"/>				
		2017	<input type="text"/>				

Reporting: Target C-2 DesInventar

Sendai Framework Targets C and D

In this section please register damages to productive assets, critical infrastructure and disruption to basic services.

Damages and losses in Agriculture (C-2)

Agricultural Crop Loss (C-2C)

Economic Loss and Physical Damage to Crops (C-2Ca):			
Economic loss from crops affected:	Total Hectares of crops affected:	Hectares damaged:	Hectares destroyed:
<input type="text" value="Number"/>	<input type="text" value="Number"/> Σ	<input type="text" value="Number"/>	<input type="text" value="Number"/>

Disaggregation:				
Wheat	Economic loss:	Total Affected (Area) [Ha]:	Damaged (Area) [Ha]:	Destroyed (Area) [Ha]:
	<input type="text" value="Number"/>	<input type="text" value="Number"/> Σ	<input type="text" value="Number"/>	<input type="text" value="Number"/>
Barley	Economic loss:	Total Affected (Area) [Ha]:	Damaged (Area) [Ha]:	Destroyed (Area) [Ha]:
	<input type="text" value="Number"/>	<input type="text" value="Number"/> Σ	<input type="text" value="Number"/>	<input type="text" value="Number"/>
Maize	Economic loss:	Total Affected (Area) [Ha]:	Damaged (Area) [Ha]:	Destroyed (Area) [Ha]:
	<input type="text" value="Number"/>	<input type="text" value="Number"/> Σ	<input type="text" value="Number"/>	<input type="text" value="Number"/>
Sorghum	Economic loss:	Total Affected (Area) [Ha]:	Damaged (Area) [Ha]:	Destroyed (Area) [Ha]:
	<input type="text" value="Number"/>	<input type="text" value="Number"/> Σ	<input type="text" value="Number"/>	<input type="text" value="Number"/>
Cereals, nes	Economic loss:	Total Affected (Area) [Ha]:	Damaged (Area) [Ha]:	Destroyed (Area) [Ha]:
	<input type="text" value="Number"/>	<input type="text" value="Number"/> Σ	<input type="text" value="Number"/>	<input type="text" value="Number"/>
Coffee, green	Economic loss:	Total Affected (Area) [Ha]:	Damaged (Area) [Ha]:	Destroyed (Area) [Ha]:
	<input type="text" value="Number"/>	<input type="text" value="Number"/> Σ	<input type="text" value="Number"/>	<input type="text" value="Number"/>

Add crops

Agricultural Livestock Loss (C-2L)

Physical Damage to Livestock (C-2La):			
Total loss from crops affected:	Number of livestock affected or lost:	Number of livestock affected:	Number of livestock lost:
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Exercise 1 (20 minutes)

- *The national DRR platform met report on Sendai Implementation for 2016.*
- *They convene to report:*
 - *275 people died and 15 were officially reported missing. Out of these, 123 died in floods, 52 in a drought and 100 in an earthquake. It is reported that 110 of the death persons were men and 165 women.*
 - *500 people were injured*
 - *150 ha. of crops were lost (100 of bananas and 50 of beans)*
 - *150 pieces of cattle died and 80 were injured.*
 - *The production of 40 ha of crops stored were lost and 20 agricultural trucks were damaged.*
 - *70 houses were damaged and 30 were destroyed*

Target D – Methodology

- Indicators **D-2, D-3, and D-4** directly monitor the elements of “**damage to critical infrastructure**” by measuring the **number of facilities and number of infrastructure units** which are damaged or destroyed. This is the same number that is required for Target C (Indicator C-5)
- Indicators **D-6, D-7 and D-8** directly monitor the elements of “**disruption to basic services**” of Target D by counting the **number of times** the provision of basic services are **disrupted as a consequence of a disaster**.

Target D – Terminology

“**disruption**” includes :

interruptions, either single or multiple, short or long, of the services, damage to the facilities or networks that provide the service, or a measurable/noticeable reduction in the quality of the service, or reduction in the population covered by the service.

Target D on a combination of all the above

Example 1 : During and after floods, the water supply was affected in a province. Water was not of the purity required, and because many sources of water were damaged, it had to be rationed to 6 hours per day during 1 month. This means that under this methodology, water service was disrupted by one disaster (**one disruption**).

Target D – Indicators D-7 and D-8 data

Disruptions to Basic Services (D-6)

Public services disrupted:

- Health (D-6)
- Education (D-7)
- Transportation (D-8)
- Power and Energy (D-8)
- Communications (D-8)
- Water supply (D-8)
- Relief (D-8)
- Sewerage (D-8)
- Administrative sector (D-8)
- Agriculture/Food (D-8)
- Industrial/Services (D-8)
- Other services (D-8)



Disruptions of services in one disaster (loss database)

Note: a service can be disrupted once (yes or no) in a given disaster. The accumulation of these disruptions in multiple disasters is the number of disruptions to be reported

D-7 Number of disruptions to health services attributed to disasters 👤 🗨️ ⓘ ✓

To be imported from National Disaster Loss Database

Health services disrupted

YEAR	NUMBER	SOURCE
2021		National Disaster Loss Database
2022		

Disaggregation (optional)

> HAZARD ⌵

> GEOGRAPHY ⌵

D-8 Number of disruptions to basic services attributed to disasters 👤 🗨️ ⓘ ✓

To be imported from National Disaster Loss Database

Number of disruptions to basic services

TYPE	2021	2022	SOURCE
Transport system	<input type="text"/>		National Disaster Loss Database
Water supply	<input type="text"/>		National Disaster Loss Database
Information and Communication Technology (ITC) system	<input type="text"/>		National Disaster Loss Database
Emergency response	<input type="text"/>		National Disaster Loss Database
Protective infrastructure	<input type="text"/>		National Disaster Loss Database
Green infrastructure	<input type="text"/>		National Disaster Loss Database

Exercise 2 (20 minutes)

- *According to the national Information source, other reported loss and damage includes;*
- *1 Inland port destroyed (1 million LCU)*
- *2 Water Pump station destroyed (each 1 million LCU), which caused interruptions of water supply for 3 days*
- *3 Government buildings destroyed (av. 400 m² floor, 10,000 LCU)*
- *1 high school with 3000 m² floor destroyed (10,000 LCU)*
- *2 elementary schools damaged (each had 1000 m² floor, 5,000 LCU)*
- *3 small hospitals destroyed (each 100,000 LCU)*
- *4 Health centers destroyed (each 10,000 LCU)*
- *There was no damage in the power station but 1,000 households had blackout for 3 hours*

Target E - Terminology

Disaster risk reduction strategies and policies:

Define goals and objectives across different timescales and with concrete **targets, indicators and time frames**. In line with the Sendai Framework for Disaster Risk Reduction 2015-2030, these should be aimed at **preventing the creation of disaster risk**, the **reduction of existing risk** and the **strengthening** of economic, social, health and environmental **resilience**.

Local Government:

Form of sub-national public administration with responsibility for DRR – to be determined by countries for the purposes of monitoring Target E

How to measure the alignment



10 Key Elements from the Sendai Framework

- i. Have different timescales, with targets, indicators and time frames
- ii. Have aims at preventing the creation of risk
- iii. Have aims at reducing existing risk
- iv. Have aims at strengthening economic, social, health and environmental resilience

• (cont.)

10 Key Elements from the Sendai Framework (cont.)

- *v. Address the recommendations of **Priority 1, Understanding disaster risk**:*
- *vi. Address the recommendations of **Priority 2, Strengthening disaster risk governance to manage disaster risk**:*
- *vii. Address the recommendations of **Priority 3, Investing in disaster risk reduction for resilience**:*
- *viii. Address the recommendations of **Priority 4, Enhancing disaster preparedness for effective response and to “Build Back Better”** in recovery, rehabilitation and reconstruction:*
- *ix. Promote **policy coherence** relevant to disaster risk reduction such as sustainable development, poverty eradication, and climate change, notably with the SDGs the Paris Agreement*
- *x. Have mechanisms to **follow-up, periodically assess and publicly report on progress.***

How to measure the alignment



5 levels of implementation in each element

- *Comprehensive implementation (full score):* **1.0**
- *Substantial implementation, additional progress required:* **0.75**
- *Moderate implementation, neither comprehensive nor substantial:* **0.50**
- *Limited implementation:* **0.25**
- *No implementation or no existence,* **0**

⇒ **Country score = average score of sub-indicators**

Exercise 3 (10 minutes)

- *Please take an example of your national DRR strategies and report ratings/scores of 10 sub indicators in the system (Please also refer to the Technical Guidance Notes.*

<https://www.preventionweb.net/publications/view/54970>

Exercise 4 (5 minutes)

- *Your country has 200 local governments with responsibility for DRR.*
- *Among them only 80 local governments that adopted and implemented local DRR strategies in line with the national one.*

Target F – Definitions / Key Terms

International cooperation:

concerns Official Development Finance (ODF) which is used by the OECD DAC to measure the inflow of resources to recipient countries, and includes:

- a. [bilateral ODA](#),
- b. [grants](#) and concessional and non-concessional development lending by multilateral financial institutions, and
- c. [Other Official Flows](#) (OOF) for development purposes (including refinancing [loans](#)) which have too low a [grant element](#) to qualify as ODA.

Official development assistance (ODA): ODA is defined as flows of official financing (essentially grants or concessional loans) to countries and territories on the DAC List of ODA Recipients (developing countries) and to [multilateral agencies](#).

Target F – Definitions / Key Terms (cont.)

Other official flows (OOF):

other official flows (excluding officially supported export credits) are defined as transactions by the official sector which do not meet the conditions for eligibility as ODA, either because they are not primarily aimed at development, or because they are not sufficiently concessional.

Capacity building: is the process by which individuals, organizations, institutions and societies develop abilities to perform functions, solve problems and set and achieve objectives for disaster risk reduction. It needs to be addressed at two inter-related levels: individual and institutional. (Simplified adaptation of the definition of ECOSOC).

Transfer and exchange of science, technology and innovation (STI) in disaster risk reduction: processes and activities that help the transmission of disaster risk reduction-related knowledge and technology that is developed and held in developed and developing countries, to developing countries.

Target F

F-1	Total official international support, (ODA plus other official flows), for national DRR actions.
F-2	Total official international support (ODA plus other official flows) for national DRR actions provided by <i>multilateral</i> agencies.
F-3	Total official international support (ODA plus other official flows) for national DRR actions provided <i>bilaterally</i> .
F-4	Total official international support (ODA plus other official flows) for the <i>transfer and exchange of DRR related technology</i> .
F-5	Number of international, regional and bilateral programmes and initiatives for the transfer and exchange of science, technology and innovation in disaster risk reduction for developing countries.
F-6	Total official international support (ODA plus other official flows) for disaster risk reduction <i>capacity building</i> .
F-7	Number of international, regional and bilateral programmes and initiatives for DRR related capacity building in developing countries.
F-8	Number of developing countries supported by international, regional, bilateral initiatives to strengthen their <i>DRR related statistical capacity</i> .

Target G - Definitions

Early warning system:

an integrated system of hazard monitoring, forecasting and prediction, disaster risk assessment, communication and preparedness activities systems and processes that enables individuals, communities, governments, businesses and others to take timely action to reduce disaster risks in advance of hazardous events.

Annotations: Effective “end-to-end” and “people-centred” early warning systems may include four interrelated key elements: (1) disaster risk knowledge based on the systematic collection of data and disaster risk assessments; (2) detection, monitoring, analysis and forecasting of the hazards and possible consequences; (3) dissemination and communication, by an official source, of authoritative, timely, accurate and actionable warnings and associated information on likelihood and impact; and (4) preparedness at all levels to respond to the warnings received. These four interrelated components need to be coordinated within and across sectors and multiple levels for the system to work effectively and to include a feedback mechanism for continuous improvement. Failure in one component or a lack of coordination across them could lead to the failure of the whole system.

Target G - Definitions

Disaster risk assessment:

a qualitative or quantitative approach to determine the nature and extent of disaster risk by analysing potential hazards and evaluating existing conditions of exposure and vulnerability that together could harm people, property, services, livelihoods and the environment on which they depend.

Annotation: Disaster risk assessments include: the identification of hazards; a review of the technical characteristics of hazards such as their location, intensity, frequency and probability; the analysis of exposure and vulnerability, including the physical, social, health, environmental and economic dimensions; and the evaluation of the effectiveness of prevailing and alternative coping capacities with respect to likely risk scenarios.

Disaster risk information: comprehensive information on all dimensions of disaster risk, including hazards, exposure, vulnerability and capacity, related to persons, communities, organizations and countries and their assets.

Annotation: Disaster risk information includes all studies, information and mapping required to understand the disaster risk drivers and underlying risk factors.

Evacuation: moving people and assets temporarily to safer places before, during or after the occurrence of a hazardous event in order to protect them.

Target G - Definitions

Multi-hazard early warning systems (MHEWS)

address several hazards and/or impacts of similar or different type in contexts where hazardous events may occur alone, simultaneously, cascadingly or cumulatively over time, and taking into account the potential interrelated effects. A multi-hazard early warning system with the ability to warn of one or more hazards increases the efficiency and consistency of warnings through coordinated and compatible mechanisms and capacities, involving multiple disciplines for updated and accurate hazards identification and monitoring for multiple hazards.

Multi-hazard:

means (1) the selection of multiple major hazards that the country faces, and (2) the specific contexts where hazardous events may occur simultaneously, cascadingly or cumulatively over time, and taking into account the potential interrelated effects.

Multi-hazard

- Member States should **define the major hazards** to be included in MHEWS and **each weight** based on the following approaches:
 - (i) Potential impacts** on human or natural hazard risk of a certain level of frequency and intensity/severity of each hazard
 - (ii) Historical records** on impacts
 - (for example, using a baseline data for the Target A and Target B, i.e. number of deaths, missing persons and directly affected)
 - (iii) If countries wish, and especially when data is not available, weights could be based on expert criteria.**
 - (iv) If countries wish, it is also advisable to make weights according to their own objectives or targets.**

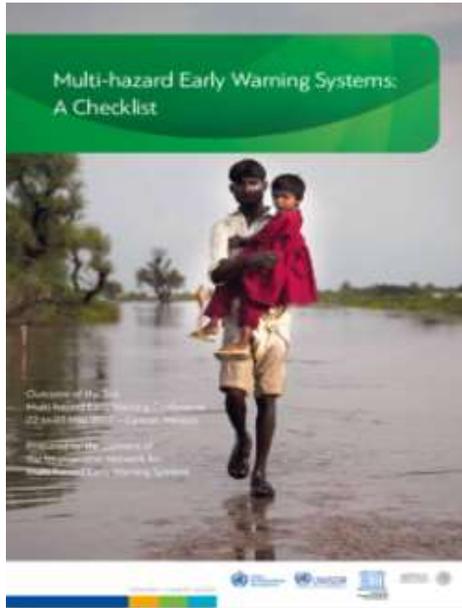
Target G

- G-1 (compound G2-G5) Number of countries that have multi-hazard early warning systems.
- G-2 Number of countries that have multi-hazard monitoring and forecasting systems.
- G-3 Number of people per 100,000 that are covered by early warning information through local governments or through national dissemination mechanisms.
- G-4 Percentage of local governments having a plan to act on early warnings.
- G-5 Number of countries that have accessible, understandable, usable and relevant disaster risk information and assessment available to the people at the national and local levels.
- G-6 Percentage of population exposed to or at risk from disasters protected through pre-emptive evacuation following early warning.

4 Key Elements of MHEWS

Member States in a position to do so are encouraged to provide information on the number of evacuated people.

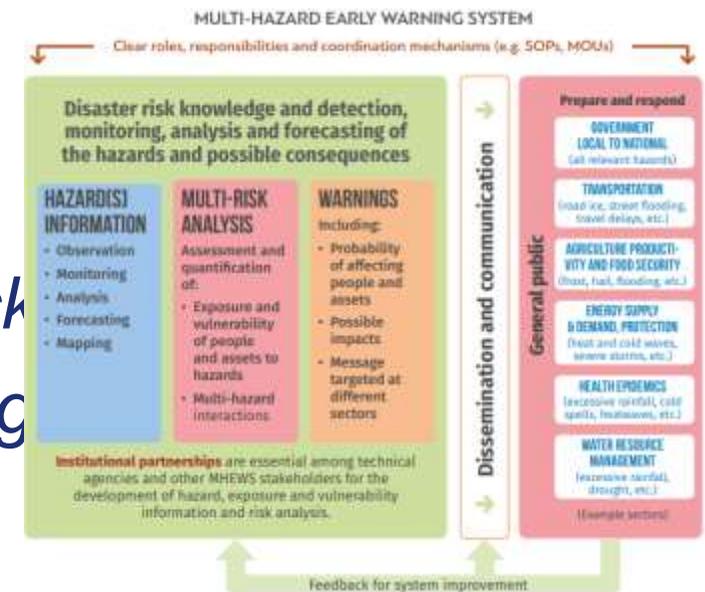
Multi-Hazard Early Warning Systems: A Checklist



- **Living document**
- **Developed through inter-agency process**
- **Discussed at the First Multi-hazard Early Warning Conference (MHEWC) in 2017**

- **Updated the original**
- **Early Warning Systems Checklist**
- **(First widely agreed and recognized guidance for EWCIII in 2006)**

• <https://public.wmo.int/en/resources/world-meteorological-day/wmd-2018/multi-hazard>



Reporting: Target G (G-2 Mimimum)

- D services
- E Disaster risk reduction strategies
- F International cooperation
- G Early warning and risk information**

G-2 Number of countries that have multi-hazard monitoring and forecasting systems

In progress

Data entry options

SUBMIT INDICATOR G-2

- Minimum:** Indicate whether your country has a multi-hazard early warning system, by hazard (yes or no)
- Recommended:** Rate the quality of your country's multi-hazard early warning system

Multi-hazard monitoring and forecasting systems

	2017	SCORE
Score of the multi-hazard early warning systems	0	0.8

Quality of multi-hazard monitoring and forecasting systems

HAZARDS	2017	EXISTS	SCORE	WEIGHT
Animal Incidents	2017	<input type="radio"/> NO <input type="radio"/> YES	0	<input type="text" value="0"/>
Cyclonic rain	2017	<input type="radio"/> NO <input checked="" type="radio"/> YES	1	<input type="text" value="20"/>
Cyclonic wind	2017	<input type="radio"/> NO <input checked="" type="radio"/> YES	1	<input type="text" value="10"/>
Drought	2017	<input type="radio"/> NO <input type="radio"/> YES	0	<input type="text" value="0"/>
Flash flood	2017	<input type="radio"/> NO <input type="radio"/> YES	0	<input type="text" value="0"/>
Flood	2017	<input type="radio"/> NO <input checked="" type="radio"/> YES	1	<input type="text" value="50"/>
Landslide	2017	<input type="radio"/> NO <input type="radio"/> YES	0	<input type="text" value="20"/>
Lightning	2017	<input type="radio"/> NO <input type="radio"/> YES	0	<input type="text" value="0"/>
Snow	2017	<input type="radio"/> NO <input type="radio"/> YES	0	<input type="text" value="0"/>
Tropical Depression	2017	<input type="radio"/> NO <input type="radio"/> YES	0	<input type="text" value="0"/>

- 0.00 = No hazard information / assessment available
- 0.25 = Limited achievement
- 0.50 = Moderate achievement, neither comprehensive nor substantial
- 0.75 = Substantial achievement, additional progress required
- 1.00 = Comprehensive achievement (full score)

Reporting: Target G (G-2 Recommended; TG)

Each Sub-indicator to be reported by **5 levels (0 – 1.00)**

- i. Monitoring data** available through established network with observed by well-trained staff
- ii. Forecasting** through data analysis and processing, modelling, and prediction based on accepted scientific and technical methodologies and disseminated within international standards and protocols
- iii. Warning messages** which include risk/impact information with clear emergency preparedness to trigger response reactions generated and disseminated in a timely and consistent manner
- iv. Standardized process, and roles and responsibilities** of all organizations generating and issuing warnings established **mandated** by legislation or other authoritative instrument.

Reporting: Target G (G-2 Recommended)

- D** services
- E** Disaster risk reduction strategies
- F** International cooperation
- G** Early warning and risk information

G-2 Number of countries that have multi-hazard monitoring and forecasting systems

In progress

Data entry options

SUBMIT INDICATOR G-2

- Minimum: Indicate whether your country has a multi-hazard early warning system, by hazard (yes or no)
- Recommended: Rate the quality of your country's multi-hazard early warning system

Multi-hazard monitoring and forecasting systems

	2017	SCORE
Score of the multi-hazard early warning systems	0	0.793

Quality of multi-hazard monitoring and forecasting systems

HAZARDS	2017	SCORE	WEIGHT	MONITOR	FORECAST	MESSAGES	PROCESS
Animal Incidents	2017	0	0	0 ▾	0 ▾	0 ▾	0 ▾
Cyclonic rain	2017	1	20	1 ▾	1 ▾	1 ▾	1 ▾
Cyclonic wind	2017	1	10	1 ▾	1 ▾	1 ▾	1 ▾
Drought	2017	0	0	0 ▾	0 ▾	0 ▾	0 ▾
Flash flood	2017	0	0	0 ▾	0 ▾	0 ▾	0 ▾
Flood	2017	0.81	50	0.75 ▾	0.75 ▾	0.75 ▾	1 ▾
Landslide	2017	0.44	20	0.5 ▾	0 ▾	0.75 ▾	0.5 ▾
Lightning	2017	0	0	0 ▾	0 ▾	0 ▾	0 ▾
Snow	2017	0	0	0 ▾	0 ▾	0 ▾	0 ▾
Tropical Depression	2017	0	0	0 ▾	0 ▾	0 ▾	0 ▾

0.00 = No hazard information / assessment available
 0.25 = Limited achievement
 0.50 = Moderate achievement, neither comprehensive nor substantial
 0.75 = Substantial achievement, additional progress required
 1.00 = Comprehensive achievement (full score)

Reporting: Target G (G-5 Recommended; TG)

- **Define the major hazards and each weight**
- **Rate of accessibility and availability (%)**
- **Quality of** (increment measurement)

Each Sub-indicator to be reported by **5 levels (0 – 1.00)**

i. Be based on the most scientific approach possible (ideally probabilistic where feasible);

ii. the product of a national consultation, shared, coordinated, and used by national institutions;

iii. with clear responsibilities for decision making, planning, and storing data and information.

Reporting: Target G (G-5)

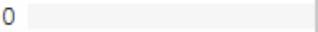
- **G-5** Number of countries that have accessible, understandable, usable and relevant disaster risk information and assessment available to the people at the national and local levels



In progress

SUBMIT INDICATOR G-5

Disaster risk information and assessments

	2017	SCORE
Score of existence of accessible, understandable, usable and relevant disaster risk information and assessment available to the people at the national and local levels	0  1.00	81

Quality of Disaster risk information and assessments

HAZARDS	2017	SCORE	WEIGHT	ACCESSIBILITY RATE (%)	SCIENTIFIC	CONSULTED	RESPONSIBILITY
Animal Incidents	2017	0	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/> ▾	<input type="text" value="0"/> ▾	<input type="text" value="0"/> ▾
Cyclonic rain	2017	1	<input type="text" value="20"/>	<input type="text" value="90"/>	<input type="text" value="1"/> ▾	<input type="text" value="1"/> ▾	<input type="text" value="1"/> ▾
Cyclonic wind	2017	1	<input type="text" value="10"/>	<input type="text" value="90"/>	<input type="text" value="1"/> ▾	<input type="text" value="1"/> ▾	<input type="text" value="1"/> ▾
Drought	2017	0	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/> ▾	<input type="text" value="0"/> ▾	<input type="text" value="0"/> ▾
Flash flood	2017	0	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/> ▾	<input type="text" value="0"/> ▾	<input type="text" value="0"/> ▾
Flood	2017	1	<input type="text" value="50"/>	<input type="text" value="90"/>	<input type="text" value="1"/> ▾	<input type="text" value="1"/> ▾	<input type="text" value="1"/> ▾
Landslide	2017	0.5	<input type="text" value="20"/>	<input type="text" value="90"/>	<input type="text" value="0.5"/> ▾	<input type="text" value="0.5"/> ▾	<input type="text" value="0.5"/> ▾
			<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Exercise 5 (10 minutes)

- *Floods, earthquakes, and drought are major hazards in your country. Considering losses and damage, you decide weight*
- *Flood: earthquake: drought = 6:3:1.*
- *You have to review your MHEWS in 2017 and report to UNISDR by 1 October 2018.*
- *You have **monitoring and forecasting systems** for floods and drought but not for earthquakes.*
- *90% of population is **covered** by MHEWS and can access to early warning info*
- *50 **local governments have a plan to act** on early warnings among 200 local governments.*
- ***Disaster risk information and assessment** on any hazards is under development and doesn't exist yet.*

<Optional> Exercise 5+ (10 minutes)

- ***Disaster risk information and assessment of flood*** has been finally developed in 2018.
- *Flood risk information and assessment is shared with all households by flyers and available on the web.*
- *Flood risk assessment, a product of national consultation, has been done by deterministic and probabilistic approach with experts involved.*
- *National institutions are currently discussing who will take a lead in revising their national DRR strategies based on risk assessment.*
- *(Other conditions and status remain the same)*



UNISDR

United Nations Office for Disaster Risk Reduction

Day 2 / Session 4: Custom Indicators

UNISDR/DPPI SEE SFM Training, 5-6 March 2019

Custom Targets and Indicators

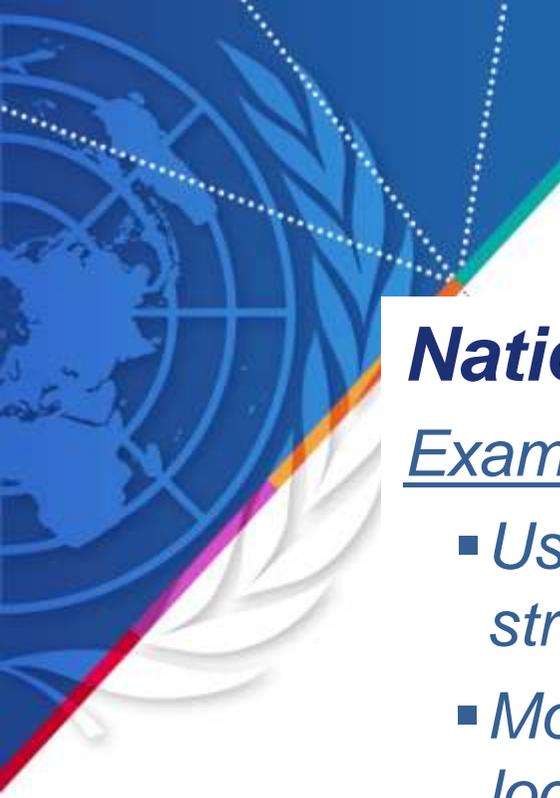


- *For indicators:*
 - *Developed as **new** by respective countries (or regional entities)*
 - *Selected from a menu of **pre-defined** indicators in SFM*
- *For answers:*
 - *Selected from a menu of wide variety e.g.*



Key benefits of the Custom Target and Indicator

- **Monitoring** of the implementation of DRR Strategies and policies select 1 or 2 years for a monitoring cycle (starting month)
- **Nationally appropriate self-assessment** : Member States can select relevant indicators from wide array proposed as menu (142 pre-defined indicators with sub-indicators available across the Sendai Framework 4 Priorities and a full set of MCR local indicators) to measure progress toward self-defined targets, and
- **Dashboard**: Each indicator family could be presented graphically highlighting progress towards targets
- **Peer review**: This can be undertaken on a voluntary process by groups of countries with similar challenges



Potential applications

National & Local Reporting

Example:

- *Used for in-country review of national or local DRR strategies.*
- *Monitoring at local level: National government can involve local governments in measuring local progress by common indicators reported by local governments*

Regional Framework Reporting

Examples:

- *Programme of Action for the Implementation of the Sendai Framework in Africa: defined 5(+7) targets and 13 indicators, 1-2 year*
- *Asia Roadmap for Implementation of the Sendai Framework:
- measured every 2 years.*

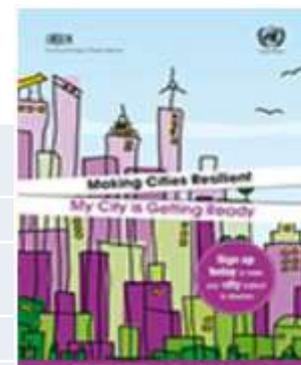
Custom indicators: Select from Pre-defined Indicators

Priority 1



Priority 3 & 4

1-1. Disaster loss and impact assessment	3-1. DRR in public finance
1-2. Risk assessment	3-2. Investment Planning
1-3. Data and information management	3-3. Disaster preparedness for effective response
1-4. DRR research and development	3-4. Recovery and reconstruction
1-5. DRR education, awareness raising and capacity building	3-5. Foreign Affairs
	3-6. Public Works or infrastructure sector
	3-7. Telecom sector
	3-8. Energy sector
	3-9. Housing and urban development sector
	3-10. Economy and finance sector (including trade and investment)
	3-11. Environment sector
	3-12. Agriculture and rural development sector
	3-13. Social welfare sector (including employment)
	3-14. Education Sector
	3-15. Health sector
	3-16. Cultural sector
	3-17. Tourism



Local indicators

Ten Essentials for Making Cities Resilient (MCR)



SDG Indicators related to DRR

Sample pre-defined indicators

Priority 1: Understanding disaster risk

1. Disaster loss and impact assessment

I-2: Disaster Loss Database

I-2.1 Does the country have a policy requiring local and the national government to systematically record disaster loss and damage due to both small-scale and large-scale disasters?

(Answered by 5 levels of achievement)

I-2.2 If Yes, is there a national disaster loss database? (Answered by 5 levels of achievement)

I-2.3 Is the database consistent with an international standard promoted by UNISDR? (Answered by 5 levels of achievement)

I-2.4 Is disaster loss linked to the National Statistical System? (Answered by 5 levels of achievement)

I-2.5 Is the database accessible to the public? (Answered by 5 levels of achievement)

I-2.6 How is the disaster loss data used? Select one or more from the following: (Answered by multiple choice <(a) national DRR strategy; (b) local DRR strategy; (c) spatial & land use planning; (d) building design criteria; (e) structural standards of infrastructure; (f) national contingency plan; (g) local contingency plan; (h) DRR plan monitoring and assessment; (i) economic planning; (j) environment policy; (k) others >)

Sample pre-defined indicators (cont.)

Priority 2: Strengthening disaster risk governance to manage disaster risk

2-3. Local level Implementation

II-11: Risk consideration in Local plan making

To what extent are risk factors considered within the National/local/City Vision / Strategic Plan?

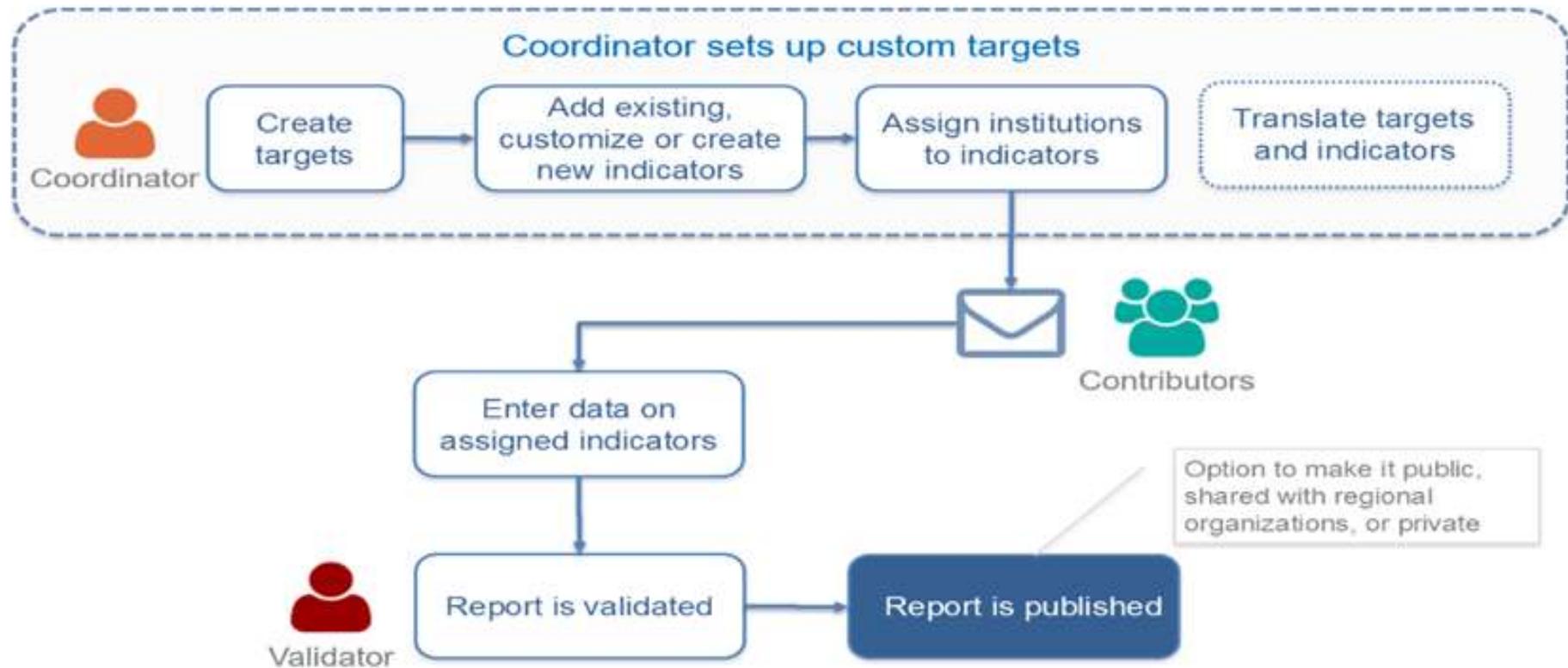
(Answered by single choice

- <5 – The plan includes a range of actions / priorities (e.g. urban growth and infrastructure projects) that directly respond to current and anticipated future risks;
- 4 – The plan includes a range of actions / priorities (e.g. urban growth and infrastructure projects) that directly respond to current identified risks;
- 3 – The plan context is framed around clear presentation of the city risk factors;
- 2 – A robust risk assessment methodology is integral to the city plan;
- 1 – There is evidence within the plan that risks (hazards x likelihood) is broadly understood within the City planning team;
- 0 – Risks are not considered in the plan;>)

Local Indicator 1.1.1 of the Ten Essentials for Making Cities Resilient

To what extent are risk factors considered within the City Vision / Strategic Plan?

Custom targets and Indicators: Work flow



Custom Targets: SET UP

SENDAI FRAMEWORK
FOR DISASTER RISK REDUCTION

HOME

GLOBAL TARGETS

CUSTOM TARGETS

ADMIN

SET UP

CUSTOM TARGETS: SET UP

GENERAL SETTINGS

DEFINE STRATEGY AND TARGETS

TARGET 1
RETROFITTING OF ALL PUBLIC
INFRASTRUCTURE TO BE
RESILIENT

TARGET 2
MAKE A DRR LAW WITH CURRENT
SOP'S AND OTHER PASS BY
CONGRESS

RESPONSIBLE INSTITUTIONS

General settings

For the custom reporting, you can define your own reporting period and define your own languages besides one of the official UN languages.

REPORTING CYCLES

Repeat Yearly
 Every two years

Start Starting month

BASELINE

Include baseline from 2005 - 2015

If you include the baseline from 2005 - 2015, you will be able to report data on your custom targets as early as 2005/2006 instead of 2015/2016

NOTIFICATIONS

Send notification to alert users

before period ends

DEFAULT & ADDITIONAL LANGUAGES

You have the possibility to translate the content of the indicators into additional languages.

LANGUAGE	DEFAULT
Français	<input checked="" type="radio"/>

+ ADD MORE

SAVE

Custom Targets: SET UP (cont.)

CUSTOM TARGETS: SET UP

Français 

GENERAL SETTINGS

DEFINE STRATEGY AND TARGETS

TARGET 1
RETROFITTING OF ALL PUBLIC
INFRASTRUCTURE TO BE
RESILIENT

TARGET 2
MAKE A DRR LAW WITH CURRENT
SOP'S AND OTHER PASS BY
CONGRESS

RESPONSIBLE INSTITUTIONS

Define strategy and targets for the custom reporting

Specify your DRR strategy and define your own targets for custom reporting.

STRATEGY

Description

Description of the strategy..

maximum 1000 characters

Supporting documentation(s)

 UPLOAD

 Development System_FAQ_31 May.pdf 

TARGET

TARGET	USE	EDIT	
Target 1: Retrofitting of all public infrastructure to be resilient Retrofit infrastructure against floods	For national and local		
Target 2: Make a DRR law with current SOP's and other pass by congress	For national and local		

 ADD TARGET

Custom Targets: SET UP (cont.)

The screenshot shows the 'ADD TARGET' dialog box in the Sendai Framework for Disaster Risk Reduction interface. The dialog is titled 'ADD TARGET' and has a close button (X) in the top right corner. It contains the following fields and options:

- Target title ***: A text input field with a maximum character limit of 100.
- Use ***: Two radio button options: 'For national and local' (selected) and 'For local only'.
- Description ***: A text input field with a maximum character limit of 1000.
- Related Global Target**: A dropdown menu with the placeholder text 'Select a global target...'.
- Help text**: A text input field with a maximum character limit of 700.

At the bottom of the dialog, there are two buttons: 'SAVE' and 'CANCEL'. The background interface shows the 'SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION' header, a navigation menu with 'GLOBAL' and 'CUSTOM' tabs, and a sidebar with 'CUSTOM TARGETS' and 'GENERAL SETTINGS' sections. A 'TARGET 1' entry is visible in the sidebar, and an 'ADD TARGET' button is at the bottom of the page.

Custom indicators: SET UP own indicators

SENDAI FRAMEWORK
FOR DISASTER RISK REDUCTION

HOME

GLOBAL
TARGETS ▾

CUSTOM
TARGETS ▾

ADMIN

CUSTOM TARGETS: SET UP

English ▾

GENERAL SETTINGS

DEFINE STRATEGY AND TARGETS

TARGET 1

Retrofitting of all public infrastructure ...

RESPONSIBLE INSTITUTIONS

TARGET 1

Retrofitting of all public infrastructure to be resilient

- TARGET INFORMATION ℹ

Description

Related Global Target

Target D: Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030.

INDICATOR	2018	2017
D-5-Number of disruptions to basic services attributed to disasters (compound indicator)		N/A
D-1-Damage to critical infrastructure attributed to disasters		N/A

Use: For national and local

- INDICATORS

+ 1.1 Indicator.

Select Option ▾

Select Option

Sendai Framework Priorities

10 Essentials for Local Governments

+ ADD INDICATOR

Custom indicators: SET UP own indicators

CUSTOM TARGET

GENERAL SETTINGS

DEFINE STRATEGY AND TARGETS

TARGET 1
Retrofitting of all public infrastructure

RESPONSIBLE INSTITUTION

English

ADD INDICATOR

1.1 * Indicator:

Help text (optional)

Main question *

Question

maximum 1000 characters

Yes/No <input checked="" type="radio"/> YES <input type="radio"/> NO	Multiple choice (multiple answer) <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c	Multiple choice (single answer) <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c
Short text (30 characters) <input type="text"/>	Free text <input type="text"/>	Number <input type="text" value="500"/>
Amount <input type="text" value="10.00"/>	Percentage <input type="text" value="10%"/>	Rating (5 levels) <input type="range" value="0.5"/> 0 1.00

Attach document(s) Link(s)

Select Option

Pre-defined Custom Indicators: SET-UP

The screenshot shows the UNISDR Prevention portal with a 'SELECT INDICATORS' dialog box open. The dialog has a blue header with a close button (X). Below the header, there are two dropdown menus for filtering: 'Understanding disaster risk' and 'Disaster loss and impact assessment'. A search bar with the placeholder 'Search for indicators...' and a magnifying glass icon is present. Below the search bar, the text 'Search result(s)' is displayed above a table of indicators. The table has a header row for 'PREDEFINED INDICATORS' and several rows of indicators, each with a checkbox and a description. The 'Disaster Loss Database' indicator is checked. At the bottom of the dialog, there are two buttons: 'SELECT' and 'CLOSE'.

UNISDR Prevention

SELECT INDICATORS

Filter by

Understanding disaster risk Disaster loss and impact assessment

Search for indicators...

Search result(s)

<input type="checkbox"/>	PREDEFINED INDICATORS
<input type="checkbox"/>	Loss Assessment Does the country have a nationally authorized loss and damage assessment guideline/methodology?
<input checked="" type="checkbox"/>	Disaster Loss Database Does the country have a policy requiring local and the national government to systematically record disaster loss and damage due to both small-scale and large-scale disasters?
<input type="checkbox"/>	Post-disaster impact assessments Does the country have nationally authorized guideline/methodology for measuring impacts from disasters?
<input type="checkbox"/>	Post-disaster review Does the country have a policy or strategy to carry out post-disaster evaluations using an agreed methodology/guideline to review disaster causality, occurrence and response/recovery based on evidence?
<input type="checkbox"/>	Effort taken to learn from what other cities, states and countries (and companies) do to increase resilience Is there any evidence that lessons learned from events abroad and changes in international agreements are reflected in domestic DRR policy?

SELECT **CLOSE**

Pre-defined Custom Indicators: SET-UP (cont.)

DEFINE STRATEGY AND TARGETS

TARGET 1
Retrofit all public infrastructure to be r...

RESPONSIBLE INSTITUTIONS

Retrofit all public infrastructure to be resilient

+ TARGET INFORMATION ⓘ

- INDICATORS

- 1.1 Disaster Loss Database

Main question ⓘ

Does the country have a policy requiring local and the national government to systematically record disaster loss and damage due to both small-scale and large-scale disasters?

Rating (5 levels)
0 1.00

Additional question 1 ⓘ

If Yes, is there a national disaster loss database?

Rating (5 levels)
0 1.00

Additional question 2 ⓘ

Is the database consistent with an international standard promoted by UNISDR?

Rating (5 levels)
0 1.00

Additional question 3 ⓘ

Is disaster loss linked to the National Statistical System?

Rating (5 levels)
0 1.00

Additional question 4 ⓘ

Is the database accessible to the public?

Rating (5 levels)
0 1.00

Additional question 5 ⓘ

How is the disaster loss data used? Select one or more from the following:

- national DRR strategy
- local DRR strategy
- spatial & land use planning
- building design criteria
- structural standards of infrastructure
- national contingency plan
- local contingency plan
- DRR plan monitoring and assessment
- economic planning
- environment policy
- other

+ ADD ADDITIONAL QUESTION

SELECT INDICATORS ▼ **+ ADD INDICATOR**

Pre-defined Custom Indicators: SET-UP (cont.)

Retrofit all public infrastructure to be resilient

DEFINE STRATEGY AND TARGETS

TARGET 1
Retrofit all public infrastructure to be resilient

RESPONSIBLE INSTITUTION

ADD ADDITIONAL QUESTION

Additional question *

If Yes, is there a national disaster loss database?

maximum 1000 characters

Yes/No <input type="radio"/> YES <input type="radio"/> NO	Multiple choice (multiple answer) <input type="checkbox"/> a <input type="checkbox"/> b <input type="checkbox"/> c	Multiple choice (single answer) <input type="radio"/> a <input type="radio"/> b <input type="radio"/> c
Short text (30 characters) <input type="text"/>	Free text <input type="text"/>	Number <input type="text" value="500"/>
Amount <input type="text" value="10.00"/>	Percentage <input type="text" value="10%"/>	Rating (5 levels) <input type="range" value="0.5"/> 0 1.00
Attach document(s) 	Link(s) 	

Additional question 4

Is the database accessible to the public?

Rating (5 levels)

0 1.00



UNISDR

United Nations Office for Disaster Risk Reduction

Day 2 / Session 5: Supporting Tools

UNISDR/DPPI SEE SFM Training, 5-6 March 2019

E-Learning Tool

- *Co-developed by UNISDR and ADPC and launched in January 2019*
- *Aiming to train government officials and relevant stakeholders involved in reporting national progress using SFM.*
- *Comprised of video lectures, online Monitor tutorials, discussion boards, and short assessments.*
- *A self-paced course, allowing to choose relevant modules, or complete all modules*
- *Assessments to receive a Certificate of Completion at the end of this course.*

E-Learning Tool

Regional DRR
e-learning platform

REGISTER

SIGN IN



An orientation to using the online Sendai Framework Monitor



Learn to use the online Sendai Framework Monitor to report on global and national implementation progress of the Sendai Framework for Disaster Risk Reduction 2015-2030.

ENROLL NOW

<https://courses.adpc.net/courses/course-v1:UNISDR+SFM001+2019Y1/about>

Analytics Module



Compare by

- *Reporting year*
- *Country / Region*
- *Global Target and Indicators*

With a map

With graph and table

with previous year and baseline 2005-2014 (decade)

Key benefits of Analytics

- **Monitoring** of the implementation of the Sendai Framework by global indicators (now available) and Custom Indicators (under development), and any defined DRR strategies and policies under Custom Targets & Indicators
- **Producing maps, tables, and graphs** easily with a few clicks to compare by country / Region / World, and by indicator in time series

Validated data ONLY => need data validation

- **New function for Reporting** will be available soon
SFM allow to extract data and image in Excel or PDF format

ANALYTICS

Reporting year: 2017

Global Target: Target A

Country/Region: Europe

Indicator: Progress

TARGET A : MORTALITY

Analytics:
reporting
status



Legend: All indicators validated | Some indicators validated | Reports in-progress

ANALYTICS

Reporting year:

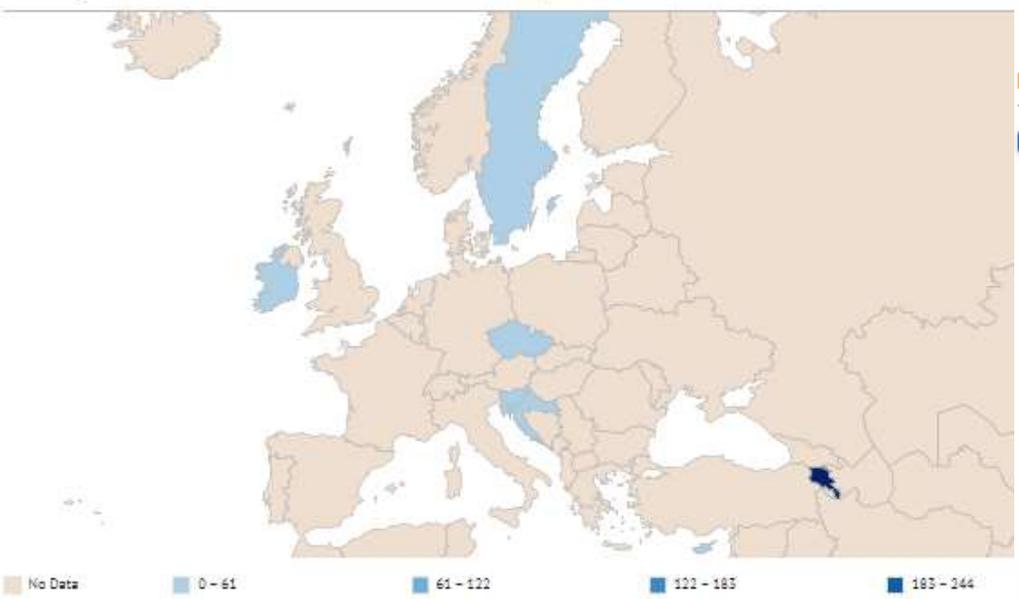
Country/Region:

Global Target:

Indicator:

INDICATOR A-2A: Number of deaths attributed to disasters

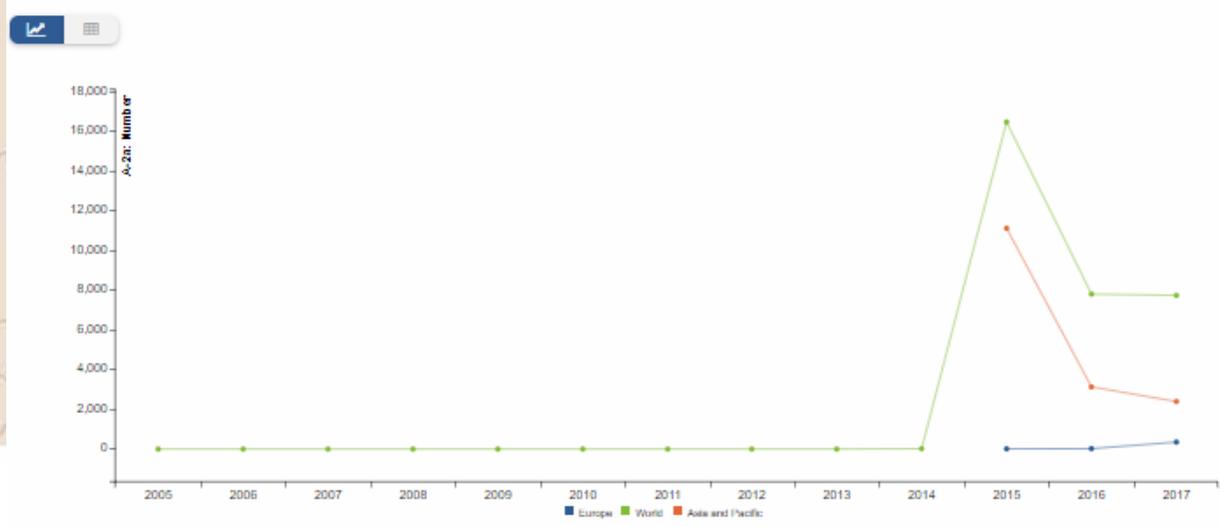
Displayed:



	Europe	World	Asia and Pacific
2017	352	7,737.4	2,395.4
2016	23	7,802	3,131
2015	13	16,467	11,116
2014		21	

Compare with: World Asia and Pacific

Evolution



Comparison

	BASELINE DECADE 2005/2014 2008/2017	PREVIOUS YEAR SELECTED YEAR 2016 2017
Europe	N/A	1,430.43%
World	152,411.43%	-0.83%
Asia and Pacific	N/A	-23.49%

**Analytics:
map, graph, and tables**



INDICATOR A-1: EVOLUTION & COMPARISON

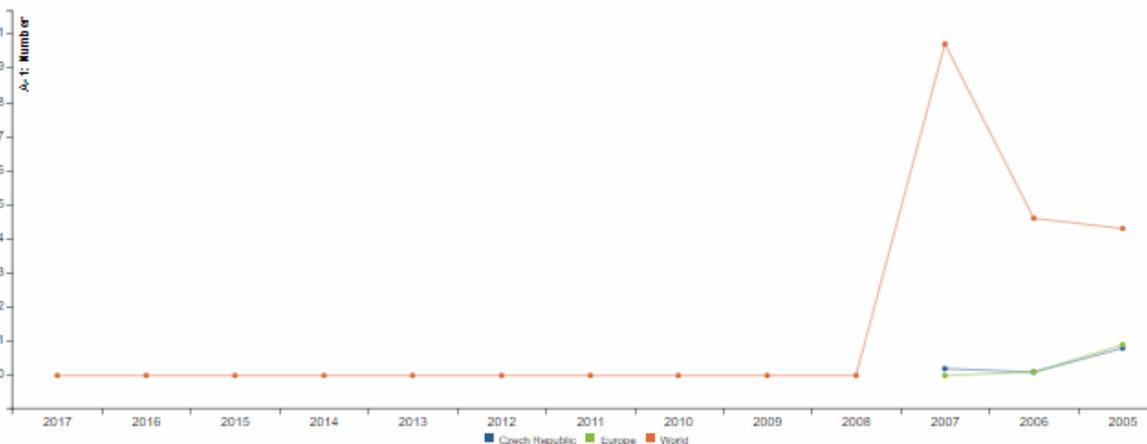
Selected country/region: Czech Republic

Selected indicator: A-1: Number of deaths and missing persons attributed to disasters, per 100,000 population

Compare by: COUNTRY/REGION INDICATOR

Compare with: Europe X World X Region, organization or country

Evolution



Comparison

	BASELINE DECADE 2005/2014 2008/2017	PREVIOUS YEAR SELECTED YEAR 2016 2017
● Czech Republic	⊕ N/A	⊕ 797.35%
● Europe	⊕ N/A	⊕ 1,007.99%
● World	⊕ N/A	⊕ -5.62%

Analytics:

Compare with region / world



INDICATOR A-1: EVOLUTION & COMPARISON

Selected country/region: Czech Republic

Selected indicator: A-1: Number of deaths and missing persons attributed to disasters, per 100,000 population

Compare by: COUNTRY/REGION INDICATOR

Compare with: Target B Indicator: B-1: Number of directly affected people attributed to d...

Evolution



Comparison

	BASELINE DECADE 2005/2014 2008/2017	PREVIOUS YEAR SELECTED YEAR 2016 2017
<p>● A-1: Number of deaths and missing persons attributed to disasters, per 100,000 population [Number]</p>	⊖ N/A	⊕ 797.35%
<p>● B-1: Number of directly affected people attributed to disasters, per 100,000 population [Number]</p>	⊖ N/A	⊖ N/A

Analytics:
Compare with indicators (graph)



Evolution



	● A-1: Number of deaths and missing persons attributed to disasters, per 100,000 population [Number]	● B-1: Number of directly affected people attributed to disasters, per 100,000 population [Number]
2017	0.08	292.19
2016	0.01	0
2015	0.02	0
2014		
2013		
2012		
2011		
2010		
2009		
2008		
2007		
2006		
2005		

Analytics:
Compare with indicators (tables)

Comparison

	BASELINE DECADE 2005/2014 2008/2017	PREVIOUS YEAR SELECTED YEAR 2016 2017
● A-1: Number of deaths and missing persons attributed to disasters, per 100,000 population [Number]	⊕ N/A	⊕ 797.95%
● B-1: Number of directly affected people attributed to disasters, per 100,000 population [Number]	⊕ N/A	⊕ N/A



UNISDR

United Nations Office for Disaster Risk Reduction

Day 2 / Session 6: Wrap-up & Next Steps

UNISDR/DPPI SEE SFM Training, 5-6 March 2019



Training objectives

- ✓ Understanding of the Sendai Framework Monitoring process;
 - ✓ Familiarity with the main concepts, methodologies and tools;
 - ✓ Awareness to link SFM with other initiatives and processes;
 - ✓ Capacity to use to SFM online system, and help colleagues back home.
-



Expectations

- Knowledge of the Sendai Framework
 - Practical information on the Sendai Framework Monitoring process
 - Understanding linkages of the SFM process with other initiatives / different levels of governance
 - Learn from / share national experiences
 - Broaden networks
-



Day 1 overview

- Introductions / expectations
 - Sendai Framework Monitoring updates
 - National experiences
 - SFM / DRR Strategies / Platforms
 - Coherence
 - Regional cooperation
-



Learning from others: strengths & opportunities

Legal frameworks

- Fitting SFM in current legislation
- Adapting legislative framework

Coordination / Governance – multi-stakeholder

- National Platform
- Matrix data ownership
- Regional cooperation

Local level engagement

- Channelling data into national reporting
- Promoting local level resilience

Disaster Loss Databases

- Use of DesInventar-Sendai
- Developing national DLD

DRR Strategies

- Integrating monitoring process
 - Self-assessing against SFM
-



Learning from others: challenges and risks

Reporting process

- (too) high expectations
- multiplication of exercises
- lack of capacity
- language

Technical hurdles

- engaging stakeholders: national / local
- thresholds
- validation
- offline / online: DesInventar

Sustainability

- (over)regulatory limitations
 - Institutional buy-in
 - Linking to SDG reporting process
-



Day 2 overview

Data collection

- Using DesInventar / national DLD
- Exporting data to SFM
- Making use of [training module](#)

SFM Hands on training

- Setting up administrative elements: users, institutions, roles
 - Setting up reporting rights per target
 - Starting with Metadata
 - Validating to release data
 - Importance of [technical guidance](#) note
 - Using the system is the best training!
-



Main observations

- **Potential in sharing national experiences**
 - **Understand the SFM process and its potential (policy/data)**
 - **Reinforce role of National Platform around SFM**
 - **Build on synergies between data collection, DLD and SFM**
 - **Link SFM with DRR strategy development**
 - **Be familiar with guidance and procedures**
 - **Test the system, and attribute reporting roles**
 - **There are no bad questions / no harm in trying**
-



Next steps

Main take away actions?

- 3-month review on progress made.

Follow-up actions:

- future DPPI trainings: follow up event 2020?
- other relevant for a (EU);
- multinational initiatives;
- bilateral engagement.

SDG Reporting – SFM milestones

Global Platform, 13-17 May in Geneva

- Key milestone events: political visibility.

Target E deadline – 2020

- report now and show progress.
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Well done and thank you!

**UN Office for DRR – available to
help and support**

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