

# Sendai Framework Monitor



**UNDRR**

UN Office for Disaster Risk Reduction



**SENDAI FRAMEWORK**

FOR DISASTER RISK REDUCTION 2015-2030

# Sendai Framework Monitoring at a glance: 7 Global Targets

## Global Target A:

Substantially reduce global disaster mortality by 2030

## Global Target B:

Substantially reduce the number of affected people globally by 2030

## Global Target C:

Reduce direct disaster economic loss in relation to global GDP

## Global Target D:

Substantially reduce disaster damage to critical infrastructure and disruption of basic services

## Global Target E:

Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020

## Global Target F:

Substantially enhance international cooperation to developing countries

## Global Target G:

Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030.

# Sendai Framework | 2030 Agenda for Sustainable Development

## *Collaborative manner to develop indicators*



- **Open-ended Intergovernmental Expert Working Group on Indicators and Terminology (OIEWG)** met in 3 Sessions in 2015-2016
- **UN General Assembly endorsed** the recommendations of the OIEWG contained in its report A/71/644, February 2017  
[http://dev.preventionweb.net/files/50683\\_oiewgreportenglish.pdf](http://dev.preventionweb.net/files/50683_oiewgreportenglish.pdf)
- **IAEG-SDGs** recognized the OIEWG, and identified UNDRR as **custodian agency** of DRR related Indicators, December 2015
- **UN Statistical Commission, 48<sup>th</sup> Session, March 2017:** endorsed Report of the IAEG-SDGs | Note by the SG - E/CN.3/2017/2\* proposing the recommended indicators of the OIEWG

**11 SDGs indicators (SDG 1, 11, 13) = 5 SFDRR Target indicators (Target A-E)**

<https://unstats.un.org/unsd/statcom/48th-session/documents/2017-2-IAEG-SDGs-E.pdf>

# Articulation between SDG & Sendai indicators

# SDG indicator	Indicator	# Sendai Framework indicators
<b>Goal 1. Ending poverty in all its forms and around the world</b>		
1.5.1	Number of casualties, people disappeared and directly affected attributed to disasters per 100,000 inhabitants	A1 and B1
1.5.2	Direct economic losses attributed to disasters in relation to the world gross domestic product (GDP)	C1.
1.5.3	Number of countries adopting and implementing national strategies for disaster risk reduction in line with the 2015-2030 Sendai Framework for Disaster Risk Reduction	E1.
1.5.4	Proportion of local governments adopting and implementing disaster risk reduction local strategies in line with the national disaster risk reduction strategies	E2.
<b>Goal 11. Make cities and human settlements inclusive, safe, resilient, and sustainable</b>		
11.5.1	Number of casualties, people disappeared and directly affected attributed to disasters per 100,000 inhabitants	A1 and B1
11.5.2	Direct economic losses relative to global GDP; damage to essential infrastructure and the number of disruptions to basic services attributed to disasters	C1, D1, D5
11.b.1	Number of countries adopting and implementing national strategies for disaster risk reduction in line with the 2015-2030 Sendai Framework for Disaster Risk Reduction	E1.
11.b.2	Proportion of local governments adopting and implementing disaster risk reduction local strategies in line with the national disaster risk reduction strategies	E2.
<b>Goal 13. Take urgent measures to combat climate change and its effects</b>		
13.1.1	Number of casualties, people disappeared and directly affected attributed to disasters per 100,000 inhabitants	A1 and B1
13.1.2	Number of countries adopting and implementing national strategies for disaster risk reduction in line with the 2015-2030 Sendai Framework for Disaster Risk Reduction	E1
13.1.3	Proportion of local governments adopting and implementing disaster risk reduction local strategies in line with the national disaster risk reduction strategies	E2

# UNDRR Technical Work

The OIEWG called on UNDRR to undertake **technical work** and **provide technical guidance** - in cooperation with the international statistical community - to **operationalize SFDRR** and **the SDGs**.

## UNDRR:

- Undertook **Data readiness review** for the indicators – **No country produces/can access all required data**
- Produced **Technical Guidance Notes (TGN)** in the six UN languages:  
<https://www.undrr.org/publication/technical-guidance-monitoring-and-reporting-progress-achieving-global-targets-sendai>  
TGN: Set methodologies for measuring indicators (FAO, WB, WHO, UNDRR, etc.) and minimum and recommended data for entry by countries.
- Developed **Sendai Framework Monitor Tool** (<https://sendaimonitor.undrr.org/>) and **SFM Training Environment** (<https://sendaimonitortraining.undrr.org/>)

- Produced **E-learning Course on SFM in English:**

# Global Reporting Cycle

## I. Every 31 March of the year:

**Data required:** Reporting on data for Targets A, B, C, D, E for previous year

This information is required for reporting to the **UN-DESA** for input into the Annual SDG Report, which is presented at the **HLPF** on Sustainable Development in **July**. The data reported will be submitted by UNDRR for reporting on the following SDG indicators:

- SDG 1 (Indicators 1.5.1, 1.5.2, 1.5.3, and 1.5.4);
- SDG 11 (Indicators 11.5.1, 11.5.2, 11.b.1, and 11.b.2,) and
- SDG 13 (Indicators 13.1.1, 13.1.2, and 13.1.3).

## II. Every 1 October of the year:

**Data required:** Reporting on data for Targets A to G for previous year.

This data informs the Annual Technical Forums on Sendai Framework Monitoring that takes place towards the end of the year in Bonn, Germany and, thereafter, a snapshot report on SFM.

# Sendai Framework Monitor (SFM) - Why?

**An administrative tool designed to help countries:**

- 1. Assess trends and patterns** of natural and man-made hazards at the national, regional and global levels (Global Assessment Report).
- 2. Develop disaster risk reduction strategies (Target E)**
- 3. Make policy decisions based on an understanding of risk** and, thus,
- 4. Allocate the necessary material and financial resources** to prevent the emergence of new disasters and reduce the risks of existing disasters
- 5. Track the country's progress in disaster risk reduction**

# SFM - The Tool

## SFM consists of three major modules:

1. **Global Targets:** 7 targets and 38 indicators
2. **Custom Targets and indicators:** Free to choose from over 250 indicators or add.
3. **Analysis:** Maps produced based on data entered.

## Access Types:

1. **National Coordinator: (up to 2 persons)** - a. sets up the system by giving access to institutions and persons and assigning roles, targets and indicators to users, b. coordinates data entry process, c. sole access to enter metadata annually.
2. **Contributor:** Enters data against assigned targets and indicators by national coordinator.
3. **Validator:** Verifies that the data entered is accurate and can return the data for further modification. No data entry allowed (now being phased out)
4. **Observer:** Checks the data entered and gives comments. No data entry allowed.

# SFM - The Tool

## SFM key enabler:

### UNDRR advocates the importance of having in place:

1. A **National DRR Platform/Committee** that assigns technical focal points from representative institutions / ministries to form a team for SFM reporting
2. A **National Disaster Loss and Damage Database** (using DesInventar Sendai tool as option, new system prototype under development)

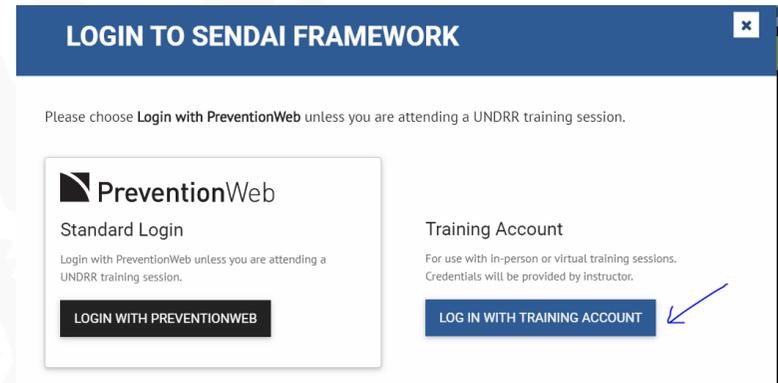
### Team of technical focal points to:

3. Map where the data needed for each indicator is kept at national level
4. Determine the owner and contributors for each target or indicator in SFM
5. Agree on timeline for setting up institutional arrangements on SFM and for periodic reporting on SFM
6. Agree on the level of disaggregation of data available or aspired to help analysis and inform policy and decision-making

# Accessing SFM Training Environment

## SFM training website

<https://sendaimonitortraining.undrr.org/>



To access the training environment of the Sendai Framework monitor:

**Username: {any country ISO code (3 digits)}@sendai.com**

**Password: 123456**

e.g.: For Trinidad & Tobago, username is: tto@sendai.com

or for Suriname: sur@sendai.com

Information on the ISO codes (3 digit) for all countries is available here

<https://unstats.un.org/unsd/trade/b/knowledgebase/country-code>

# DesInventar Sendai

## SFM subsystem for national loss & damage databases



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FOR DISASTER RISK REDUCTION

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WELCOME to DesInventar, a free, open source Disaster Information Management System

Please select the region database to query:

Country/Region	Period	Institution
<b>Albania</b> <a href="#">Query</a> <a href="#">Map</a>	1851 - 2022	<a href="#">Profile</a>
<b>Angola</b> <a href="#">Query</a> <a href="#">Map</a>	1917 - 2021	<a href="#">Profile</a>
<b>Antigua and Barbuda</b> <a href="#">Query</a> <a href="#">Map</a>	1950 - 2014	<a href="#">Profile</a>
<b>Argentina</b> <a href="#">Query</a> <a href="#">Map</a>	1970 - 2015	<a href="#">Profile</a>
<b>Barbados</b> <a href="#">Query</a> <a href="#">Map</a>	1099 - 2017	<a href="#">Profile</a>
<b>Belize</b> <a href="#">Query</a> <a href="#">Map</a>	1931 - 2011	<a href="#">Profile</a>
<b>Bhutan</b> <a href="#">Query</a> <a href="#">Map</a>	2009 - 2015	<a href="#">Profile</a>
<b>Bolivia</b> <a href="#">Query</a> <a href="#">Map</a>	1970 - 2015	<a href="#">Profile</a>
<b>Burkina Faso</b> <a href="#">Query</a> <a href="#">Map</a>	1974 - 2016	<a href="#">Profile</a>
<b>Cambodia</b> <a href="#">Query</a> <a href="#">Map</a>	1996 - 2020	<a href="#">Profile</a>
<b>Chile</b> <a href="#">Query</a> <a href="#">Map</a>	1970 - 2014	<a href="#">Profile</a>
<b>Colombia</b> <a href="#">Query</a> <a href="#">Map</a>	1914 - 2018	<a href="#">Profile</a>
<b>Comoros</b> <a href="#">Query</a> <a href="#">Map</a>	1808 - 2014	<a href="#">Profile</a>
<b>Costa Rica</b> <a href="#">Query</a> <a href="#">Map</a>	1968 - 2019	<a href="#">Profile</a>
<b>Djibouti</b> <a href="#">Query</a> <a href="#">Map</a>	1944 - 2012	<a href="#">Profile</a>
<b>Dominica</b> <a href="#">Query</a> <a href="#">Map</a>	1951 - 2014	<a href="#">Profile</a>
<b>Dominican Republic</b> <a href="#">Query</a> <a href="#">Map</a>	1944 - 2012	<a href="#">Profile</a>

# 2022-2023 DRR WG SCA/ECLAC

## PRODUCT CONTENT

**Regional diagnosis on the state of progress in the measurement of Sendai Framework indicators**

Document that presents the state of advancement, with considerations on gender as well as sex, age and disability disaggregated data

**Interactive matrix**

Self-assessment tool available to each country

**Web portal**

Experiences and good practices  
Tools and reference materials  
Related events, courses and links

# Technical workshop: Validation of the prototype for the new hazardous events and disaster losses and damages tracking system

(3-4 May, 2023)



## Application

- Document and demonstrate use cases
- Need for more awareness and capacity

## Scoping

- Events/Incident vs disasters
- Hazard-event-impact continuum (also identify data gaps)
- System features vs capacity/maturity
- Level of disaggregation

## Standards

- Taxonomy: Hazards and impacts
- Methodologies
- Need to better engage the statistical community

## Governance

- Global coordination
- National coordination – horizontal and vertical
- Coordination with partners

# Early Warnings for All: Structure & Objectives

A global initiative to ensure that everyone on Earth is protected by early warnings by 2027



## Disaster risk knowledge

Systematically collect data and undertake risk assessments

- Are the hazards and the vulnerabilities well known by the communities?
- What are the patterns and trends in these factors?
- Are risk maps and data widely available?



## Detection, observations, monitoring, analysis and forecasting of hazards

Develop hazard monitoring and early warning services

- Are the right parameters being monitored?
- Is there a sound scientific basis for making forecasts?
- Can accurate and timely warnings be generated?



## Preparedness and response capabilities

Build national and community response capabilities

- Are response plans up to date and tested?
- Are local capacities and knowledge made use of?
- Are people prepared and ready to react to warnings?



## Warning dissemination and communication

Communicate risk information and early warnings

- Do warnings reach all of those at risk?
- Are the risks and warnings understood?
- Is the warning information clear and usable?

# References & materials

## Metadata:

- Population data: <https://population.un.org/wpp/Download/Standard/Population/>
- GDP: <https://data.worldbank.org/indicator/NY.GDP.MKTP.CN>
- Exchange rate: <https://data.worldbank.org/indicator/PA.NUS.FCRF>
- Number of households: <https://population.un.org/Household/index.html#/countries/840>

## SFM training website: <https://sendaimonitortraining.undrr.org/>

Login with Training Account (right hand side) / Username: {any country ISO code (3 digits)}@sendai.com / Password: 123456

(Example: For Trinidad & Tobago, the username is tto@sendai.com or for Suriname: sur@sendai.com, etc.)

ISO codes (3 digit) for all countries: <https://unstats.un.org/unsd/tradekb/knowledgebase/country-code>

## UNDRR SFM technical guidance:

<https://www.undrr.org/publication/technical-guidance-monitoring-and-reporting-progress-achieving-global-targets-sendai>

## Online SFM self-paced SFM course:

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

## DRR-WG SCA/ECLAC - Institutional and methodological recommendations for the measurement of indicators for the disaster-related SDGs and the Sendai Framework:

<https://repositorio.cepal.org/handle/11362/48167>

## FAO methodology for damage and loss assessment e-course

- Introduction to the methodology for FAO damage and loss assessment: <https://elearning.fao.org/course/view.php?id=656>
- How to use the FAO methodology to calculate damages and losses: <https://elearning.fao.org/course/view.php?id=657>

## WHO technical guidance notes on Sendai framework reporting for ministries of health:

<https://www.who.int/publications/i/item/9789240003712>

# Thank you

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**United Nations Office for Disaster Risk Reduction (UNDRR)**  
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