CES Steering Group on Climate Change-Related Statistics -Adaptation Subgroup

**Measuring Climate Change Adaptation - Case studies**

*This template has been prepared to collect practical examples of measuring climate change adaptation in form of short case studies. The purpose is to collect data-driven approaches applicable in specific circumstances to share experience and enable mutual learning.* ***We would very much appreciate receiving your case study before 13 August so it could be available before the Expert Forum.***

*The focus should depend on what is relevant in your country. The case studies can include indicators and (meta) data, but also the context, qualitative information and analysis. It can relate to one or more hazards, address exposure or vulnerability of population or territory. It can focus on specific geomorphological territories such as coastal or mountain areas or areas with different level of urbanization (urban/rural).*

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| --- | --- |
| **Country** |  |
| **Title of the work** |  |
| **Short description** |  |

# Description of the example

**Please describe your statistical activity related to climate change adaptation:**

* *What was the output of your activity?*
* *Why was it relevant in the context of climate change adaptation in your country?*
* *What were the conclusions?*
* *What is the plan for the way forward?*

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What stakeholders or partners were involved in the work?

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If you can please provide below an example from your statistical output e.g. an estimate, a table, a figure, a map or other.

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# More details

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| **Data sources used** |  |
| **Is it a regular or one time activity?** |  |
| **Coverage (national/subnational)** |  |
| **Links where the results and more information about your work can be found** |  |
| **References to methodology you followed or other bibliography** |  |

# Keywords

*Please highlight the keywords from each category (if possible) which describe your example, if relevant. You can also add your own keywords in the last box.*

*Climate change adaptation is highly country-, context-, locality- specific. The keywords will help others to find examples relevant for their circumstances and will help understand and systematize statistical activities related to measuring climate change adaptation.*

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| **Thematic area** | **Characteristics of the reference area** |
| * Agriculture, forestry and fishery
* Energy
* Financial services sector
* Health
* Human settlements and housing
* Land cover, ecosystems and biodiversity
* Land use
* Living conditions, poverty, social issues
* Mining, manufacturing and construction
* Science, technology and innovation
* Political and other community activities
* Production and consumption patterns
* Population and migration
* Tourism
* Trade
* Transport
* Water resources
* Other:
 | * Mountain
* Coastal
* Urban
* Rural
* Other:
 |
| **Type of statistical product or activity** |
| * Indicator(s)
* Linking data from several sources
* Data analysis
* Providing data for risk assessments
* Modelling impact
* Scenarios assessment
* Assessment of data needs
* Interlinkages between phenomena
* Other:
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| **Adaptation approaches[[1]](#footnote-2)** |
| * **“Grey” adaptation** – technological and engineering solutions
* “**Green” adaptation** – nature-based or ecosystem-based solutions
* **“Blue” adaptation** – solutions including water elements, like rivers, canals, ponds, wetlands, floodplains, water treatment facilities
* **“Soft” adaptation** – policy, legal, social, management and financial measures
* Other:
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| **Concepts covered/measured[[2]](#footnote-3)** |
| * **EXPOSURE to hazard** (*The situation of people, infrastructure, housing, production capacities and other tangible human assets located in hazard-prone areas, e.g. number of people or types of assets in an area)*
* **VULNERABILITY** *(The conditions determined by physical, social, economic and environmental factors or processes which increase the susceptibility of an individual, a community, assets or systems to the impacts of hazards.)*
* **ADAPTATION MEASURES**
* **EXPENDITURE ON ADAPTATION**
* **IMPACTS**
* Other
 |
| **Hazard type covered****[[3]](#footnote-4)** |
| * **Multiple hazards**
* **METEOROLOGICAL and HYDROLOGICAL**
	+ Thunderstorms
	+ Coastal flood
	+ Fluvial (riverine flood)
	+ Snowmelt flood
	+ Dust storm or Sandstorm
	+ Ocean acidification
	+ Sea water intrusion
	+ Drought
	+ Hail
	+ Snow storm
	+ Cold wave
	+ Heatwave
	+ Avalanche
	+ Mud flow
	+ Rock slide
	+ Gale (strong gale)
	+ Tornado
	+ Wind
	+ Other meteorological and hydrological hazards:
 | * **ENVIRONMENTAL**
	+ Biodiversity loss
	+ Deforestation
	+ Forest declines and diebacks
	+ Forest disturbances
	+ Forest invasive species
	+ Wildfires
	+ Desertification
	+ Wetland loss/degradation
	+ Sea-level rise
	+ Other environmental hazard
* **BIOLOGICAL**
	+ Algal bloom
	+ Insect pest infestation
	+ Invasive weeds
	+ Invasive species
	+ Foodborne diseases
	+ Waterborne diseases
	+ Vector borne diseases
	+ Other biological:

**Other:3** |
| **Additional keywords** |
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# Your contact information

1. Name \*

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1. Country \*

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1. E-mail address \*

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1. Name of the organization \*

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1. Definitions of adaptation options from EU Climate ADAPT: [Adaptation options — Climate-ADAPT (europa.eu)](https://climate-adapt.eea.europa.eu/knowledge/adaptation-information/adaptation-measures) [↑](#footnote-ref-2)
2. Definitions of exposure and vulnerability from the [Report of the Open-ended Intergovernmental Expert Working Group on indicators and terminology relating to disaster risk reduction](https://www.undrr.org/publication/report-open-ended-intergovernmental-expert-working-group-indicators-and-terminology). [↑](#footnote-ref-3)
3. Hazards selected from the initial hazard list from [UNDRR/ISC Hazard definition and classification review](https://www.undrr.org/publication/hazard-definition-and-classification-review), where the full list of meteorological and hydrological, environmental, and biological hazards can be found in the document. When adding other hazards please use the hazards from the list if possible. [↑](#footnote-ref-4)