

8th International
Conference on
BIG DATA
& Data Science for Official Statistics

BILBAO 2024

Informing Climate Change and
Sustainable Development Policies
with Integrated Data

BILBAO. SPAIN | **10-14 JUNE 2024** | **#UNBigData2024**

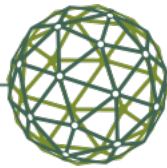
Data for Nature: **Enviromental** Statistic Production

Dominican Republic

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DEMAND OF STATISTICAL INFORMATION

National Planning System



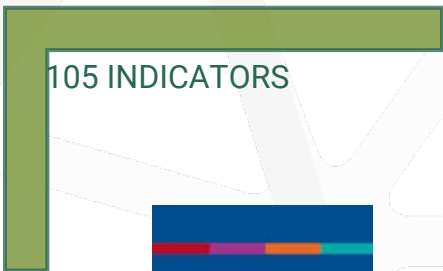
NATIONAL DEVELOPMENT STRATEGY



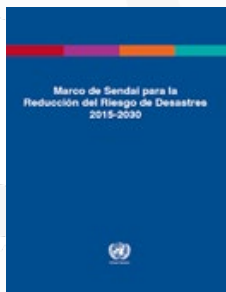
6 INDICATOR



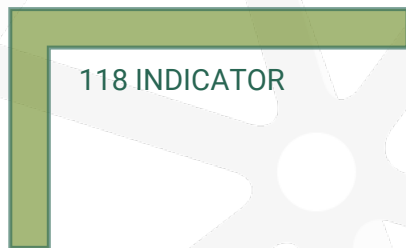
SUSTAINABLE DEVELOPMENT GOALS



105 INDICATORS



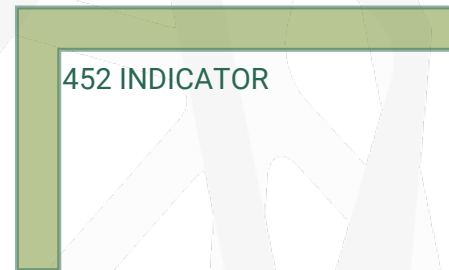
PNPSP 2021-2024



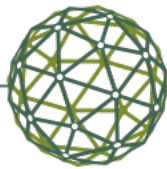
118 INDICATOR



National Statistical Plan



452 INDICATOR

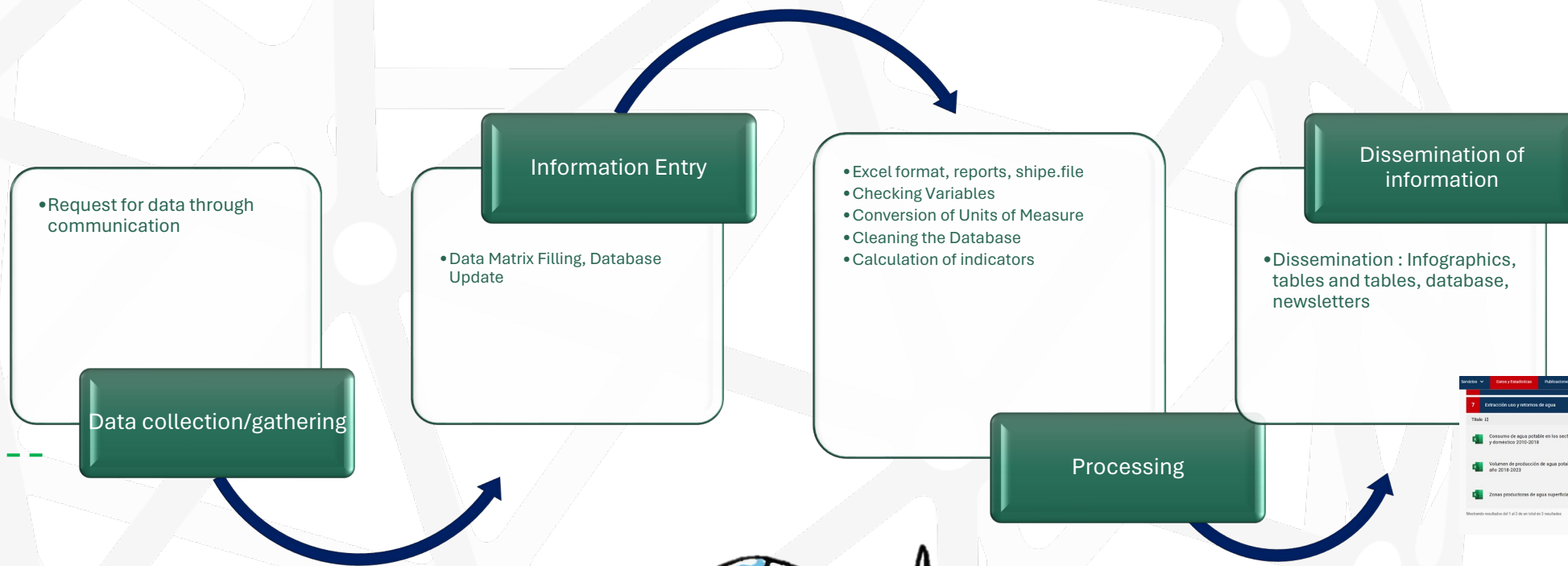


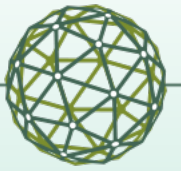
PROCESS FLOW

THE PRODUCTION OF INFORMATION

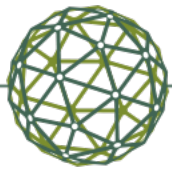


Producing
Institutions



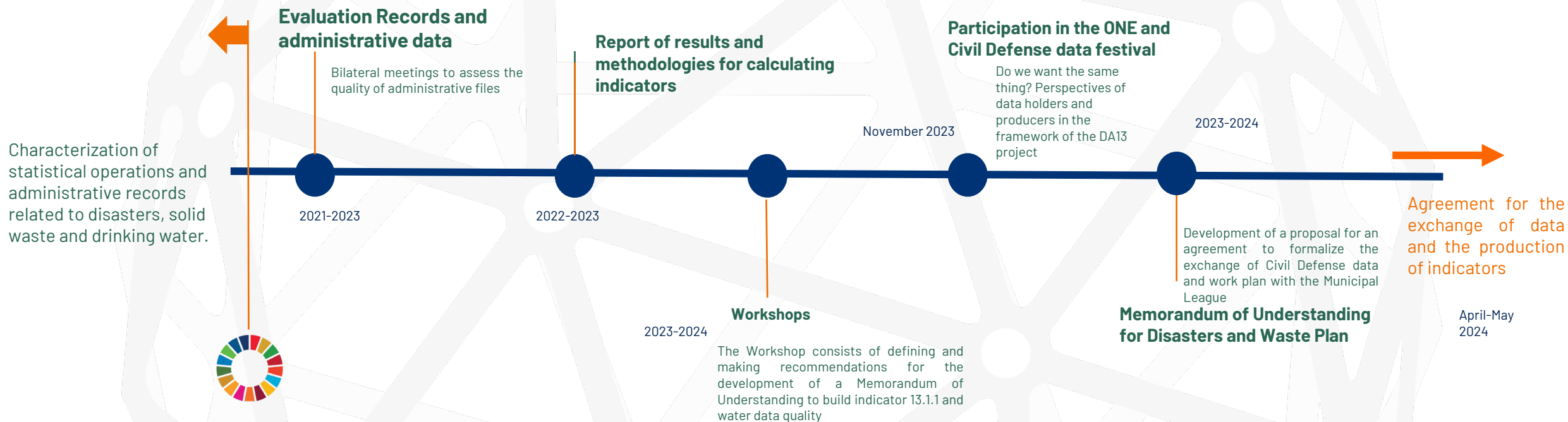


USING ADMINISTRATIVE DATA SOURCE

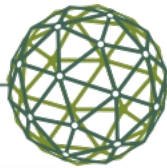


Statistical production

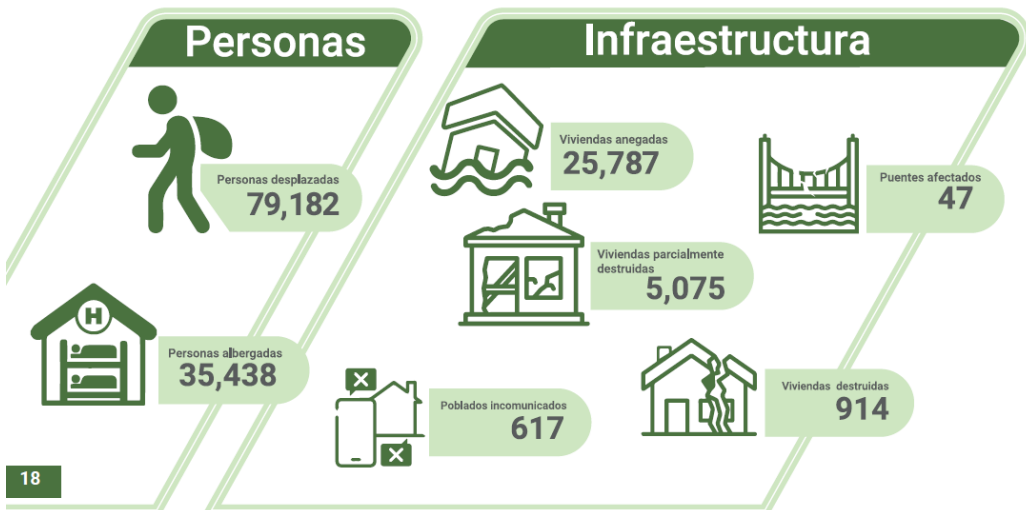
Project DA13 on Administrative Data for Disaggregated Indicators of the Sustainable Development Goals, Project on Solid Waste and Drinking Water



Support ONE in the work of calculating the indicators SDG 15.1/11.5.1 /13.1.1 "Number of deaths, missing and directly affected persons attributed to disasters per 100,000 inhabitants" using data from the Damage Assessment and Needs Analysis Form (EDAN) of the Emergency Operations Center (COE) and indicators on solid waste and drinking water.



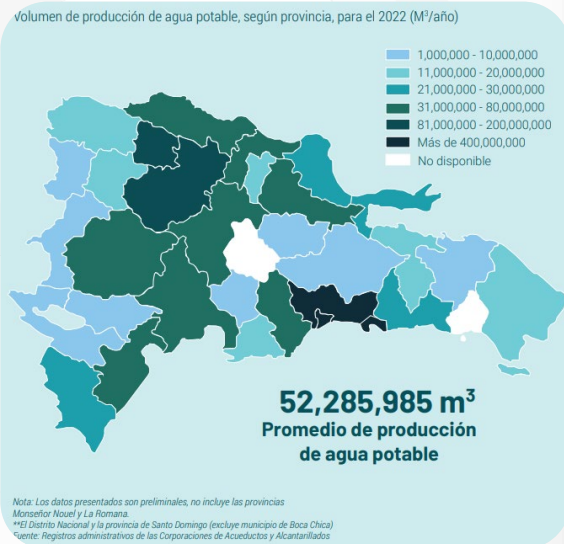
Infografía 1. REPÚBLICA DOMINICANA: Daños reportados por Defensa Civil según sucesos, 2017-2022



Fuente: Informe Estadístico de novedades Defensa Civil
Elaboración: Oficina Nacional de Estadística (ONE)

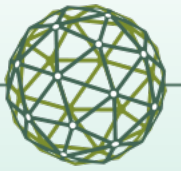
18

DRINKING WATER AND SANITATION

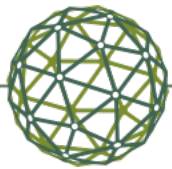



SOLID WASTE PILOT ADVANCES



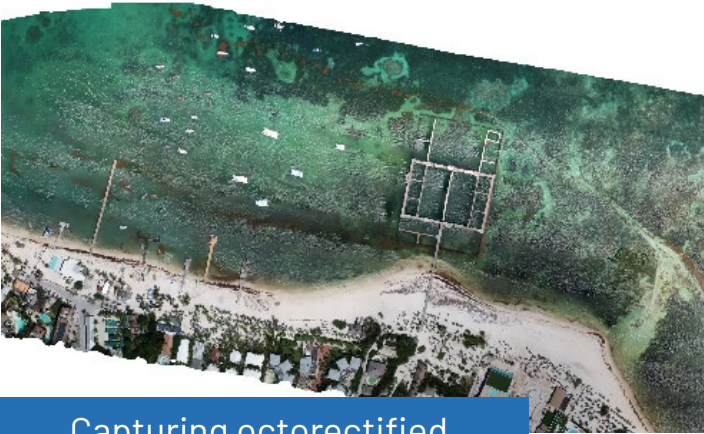


USING NO TRADITIONAL SOURCES

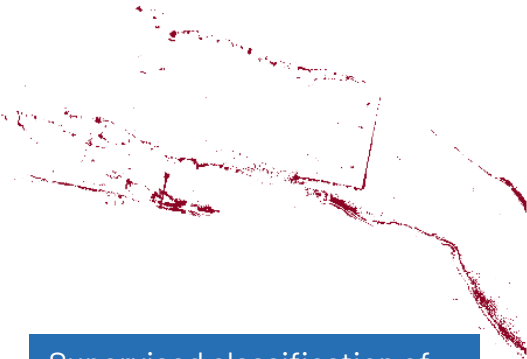


GOOD PRACTICES IMPLEMENTED IN THE DOMINICAN REPUBLIC

PROCESSING PATH



Capturing octorectified images



Supervised classification of areas with the presence of waste in coastal and marine areas.

| ID | Categories | Área m ² |
|----|------------|---------------------|
| 1 | Other | 3.00206064 |
| 2 | Sargassum | 2.00137357 |
| 3 | Sargassum | 49.033662 |
| 4 | Other | 2.00137335 |
| 5 | Other | 18.0123636 |
| 6 | Otros | 26.0178592 |

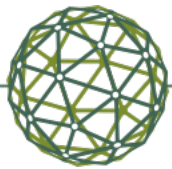
Vectorization of images

| Categories | Área Km ² |
|------------|----------------------|
| Other | 0.333412580 |
| Sargassum | 0.009519526 |
| Total | 0.342932106 |

Formulation of summary tables

Calculation of the percentage of the area occupied by sargassum

$$x = \frac{\text{Área ocupada por sargazo}}{\text{Área total}} \times 100$$



INDICATORS OBTAINED FROM BIG DATA



1

Ground cover

2

Vegetation Index in Protected Areas.

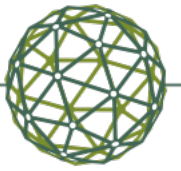
3

Permanence of freshwater bodies over time.

4

11.7.1 Average share of the built-up area of cities that is open space for public use for all, by sex, age and persons with disabilities

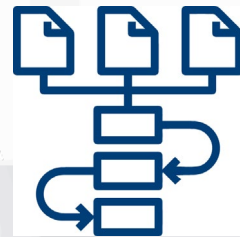




WHAT HAS ALLOWED US TO MOVE FORWARD?



Create a specialized unit for environmental statistics.



Define statistical processes according to the demand for existing information.



Establish coordination spaces with data producers.



Analyze all types of data sources and include innovations in the production of statistics

THANKS!



#UNBigData2024