



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**

Climate Change and Biodiversity

Ms. María Jesús Rodríguez de Sancho

Director-General for Biodiversity, Forests and Desertification, Spain

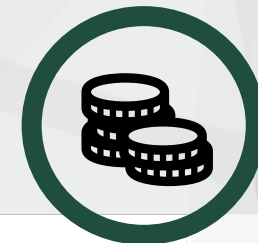




The DGBBD's commitment to decision-making based on the best available knowledge

Measures to achieve this objective

- Provide it with a regulatory framework
- Economic investments
- Technological Platform -(re)use
- Data Governance



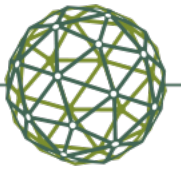
Future challenges:

- Synergize and re-use monitoring with other sectors



Spanish Inventory of Natural Heritage And Biodiversity

Law 42/2007, de 13 de december
Royal Decree 556/2011



iepnb

Strategic plan for natural heritage and biodiversity to 2030.
Target 1.1, 1.2, 1.3

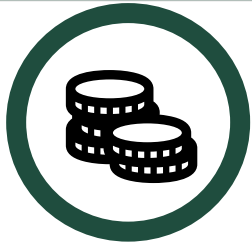
Spanish Forest Plan 2022-2032.
Target 4

Strategic Wetlands Plan to 2030
Line 1

National strategy to combat desertification
Target 3

Biodiversity and Science Strategy (2023-2027)

The need to have the best
knowledge was reflected in
the 2022 plans



DGBBD Investments in hábitat, forest and species monitoring (marine + terrestrial) 103 M€

Plan de Recuperación, Transformación y Resiliencia



36 M€

MARINE BIODIVERSITY

19,7 M€

TERRESTRIAL HABITAT

19 M€

WILDLIFE (Threatened)

4 M€

THREATENED FLORA

3 M€

POLLINATORS

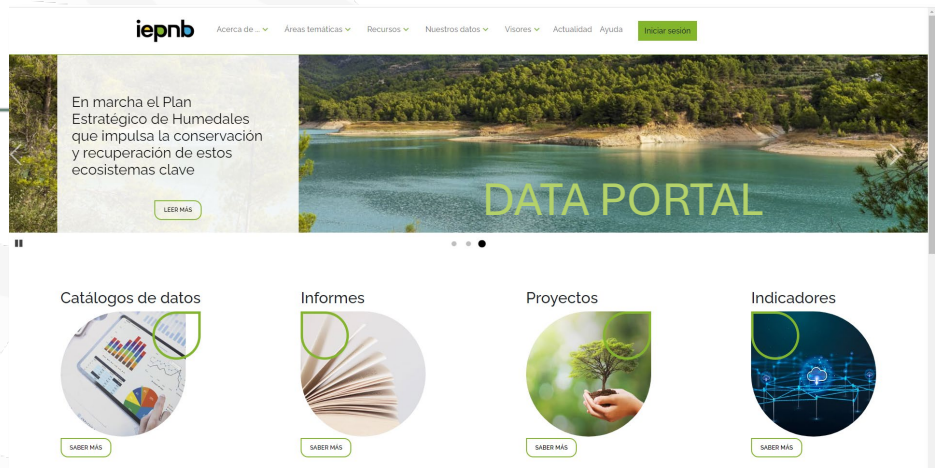
2,5 M€

FOREST DISSEMINATION

15 M€

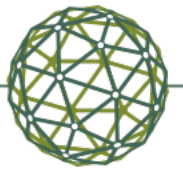
iepnb
Inventario Español de Patrimonio Natural y de la Biodiversidad

Digital platform
EDITABLE STROKE



Reporting commitments





...through a new **Technological Platform** as an essential lever for organizing information, providing quality and reliability throughout the process...



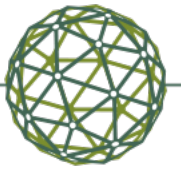
- Terrestrial biodiversity
- Marine Biodiversity
- Forest and Desertification
- Biodiversity Foundation
- ...

- DGBBD
- MITECO: eg LULUCF
- Spanish Regions: CCAA
- Citizens
- International organizations

- Web/Intranet MITECO
- New Data portal IEPNB
- Analytical Dashboards
- Mobile Map app: *Naturaleza de España*

- Unified Information model
- Information Standardization
- Supporting national reporting commitments
- Secure data exchange access and transit

Findable, accessible, Interoperable, Reusable quality data (FAIR-principles)



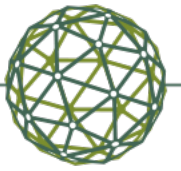
Data Governance on biodiversity and natural heritage; General Directorate of Biodiversity, Forests and Desertification

Real Decreto 503/2024, de 21 de mayo, por el que se desarrolla la estructura orgánica básica del Ministerio para la Transición Ecológica y el Reto Demográfico, y se modifica el Real Decreto 1009/2023, de 5 de diciembre, por el que se establece la estructura orgánica básica de los departamentos ministeriales.

New Deputy Directorate for the Integrated Biodiversity
Information System

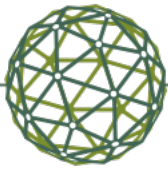
An Information System with a Data governance means setting internal standards—data policies—that apply to how data is gathered, stored, processed, and disposed of.

With the collaboration of the regions, science and Spanish
companies (new)



Future challenges:

- Synergize and re-use monitoring with other sectors
- Coordination & collaboration
- Increase trust in **data sharing**, strengthen mechanisms to increase data availability and **overcome technical obstacles** to the reuse of data
- Take advantage of digital tools -(re)use of **geographical data and remote sensing to standardize and reduce monitoring costs**
- Data sharing across sectors, involving both **private and public** players
- **Supporting management and national reporting obligations:** Indicators for monitoring the Millennium Development Goals
- Projections and simulations in different **climate scenarios**



Responding to needs

Compliance with the
Nature Directives

**Forest
Monitoring**

**Ecosystem and Forest
Accounts**

**Nature Restoration
Law**
to restore ecosystems for people,
the climate and the planet



**European
Green Deal**

General Directorate
of Biodiversity,
Forests and
Desertification
NEEDS

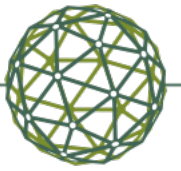
Regulation on Land
Use, Land Use
Change and
Forestry (**LULUCF**)

SEA-EIA

Green-infrastructure



CITIZENS NEEDS



THANK YOU FOR YOUR ATTENTION

**The best decisions are made thanks to the availability
of the best knowledge.**