

BIODIVERSITY DATA MANAGEMENT AT THE ALEXANDER von HUMBOLDT INSTITUTE

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Kew Gardens, UK
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Instituto de Investigación de Recursos Biológicos Alexander von Humboldt



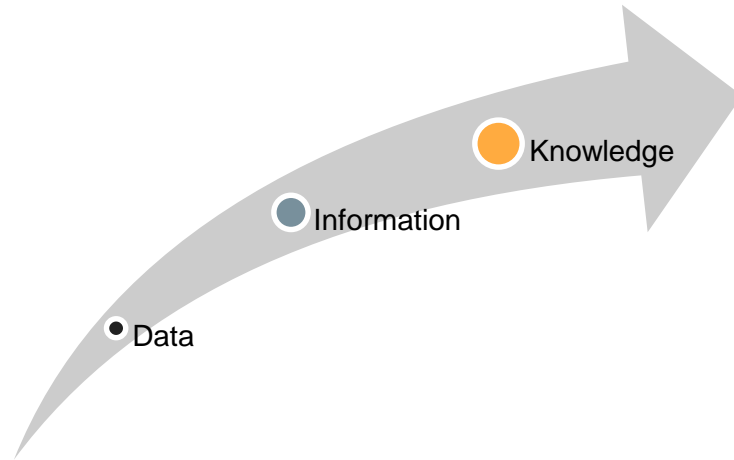
Agenda

- The Institute
- Data and Information at the Institute
- Institutional Data and Information Infrastructure
- Data and information at the Infrastructure
- Biological data standardization and publication
- Support documents
- Available data
- What's coming

OUR INSTITUTE

Institute Mission

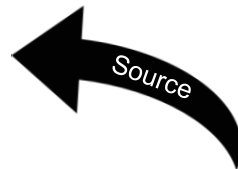
To promote, coordinate and carry out research that contributes to the conservation and sustainable use of the biological biodiversity in Colombia.



DATA AND INFORMATION AT THE INSTITUTE

Types

- Geographic data and information
- Species occurrences
- Socioeconomic data
- Species checklists
- Monitoring data
- Reports
- Bibliografic products
- Response to requirements
- Videos
- Sounds
- Camera Trapping
- Images
- Species distribution models
- Indicators



Primary
Secondary
Synthesis

DATA AND INFORMATION AT THE INSTITUTE

INSTITUTIONAL DATA AND INFORMATION INFRASTRUCTURE

INSTITUTIONAL DOCUMENTS REPOSITORY

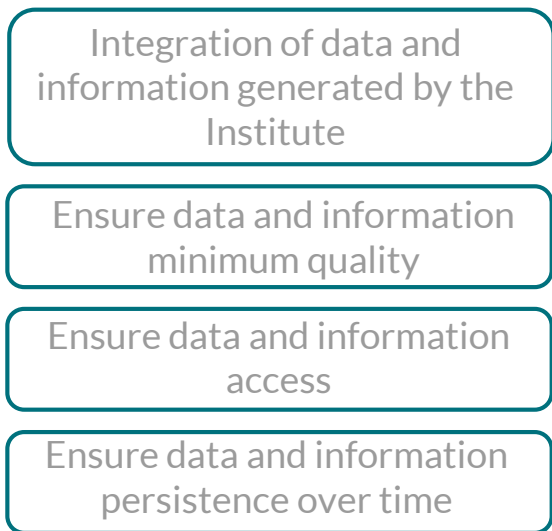
ENVIRONMENTAL IMAGES BANK

BIOLOGICAL COLLECTIONS



INSTITUTIONAL DATA AND INFORMATION INFRASTRUCTURE

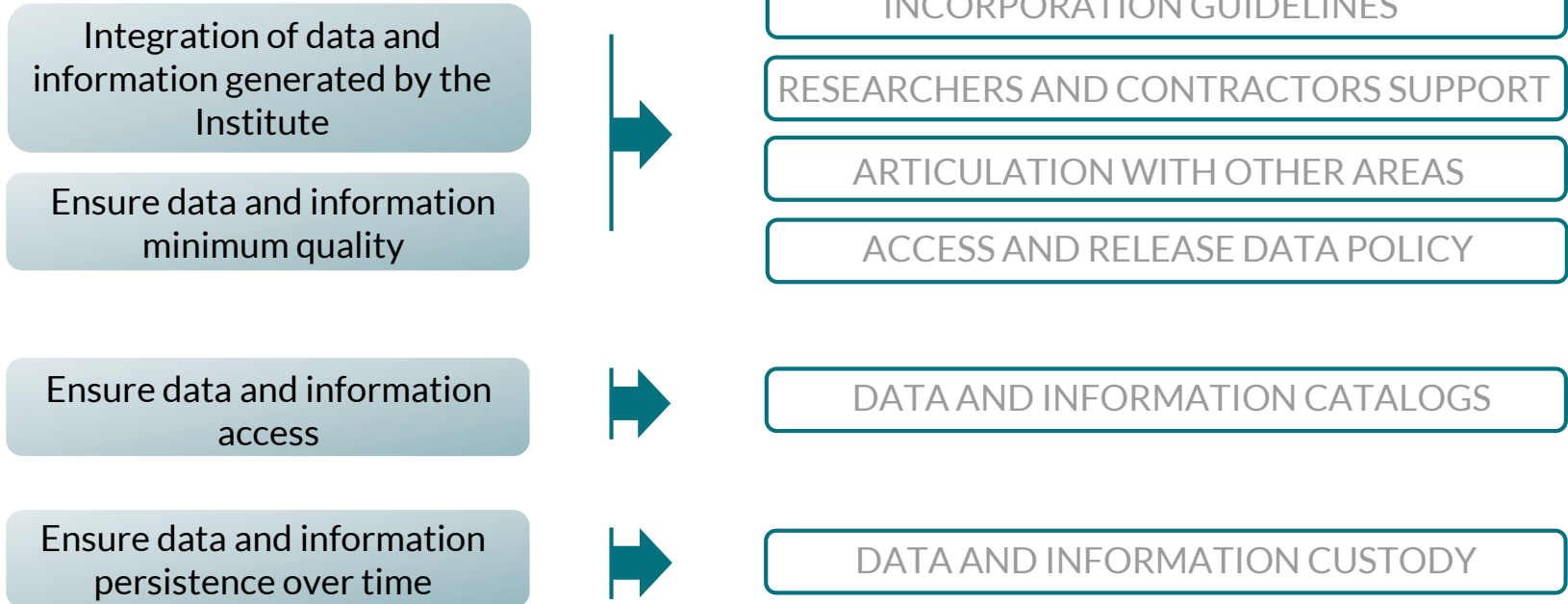
Access gateway to the data and information generated in the fulfillment of the mission of the Institute



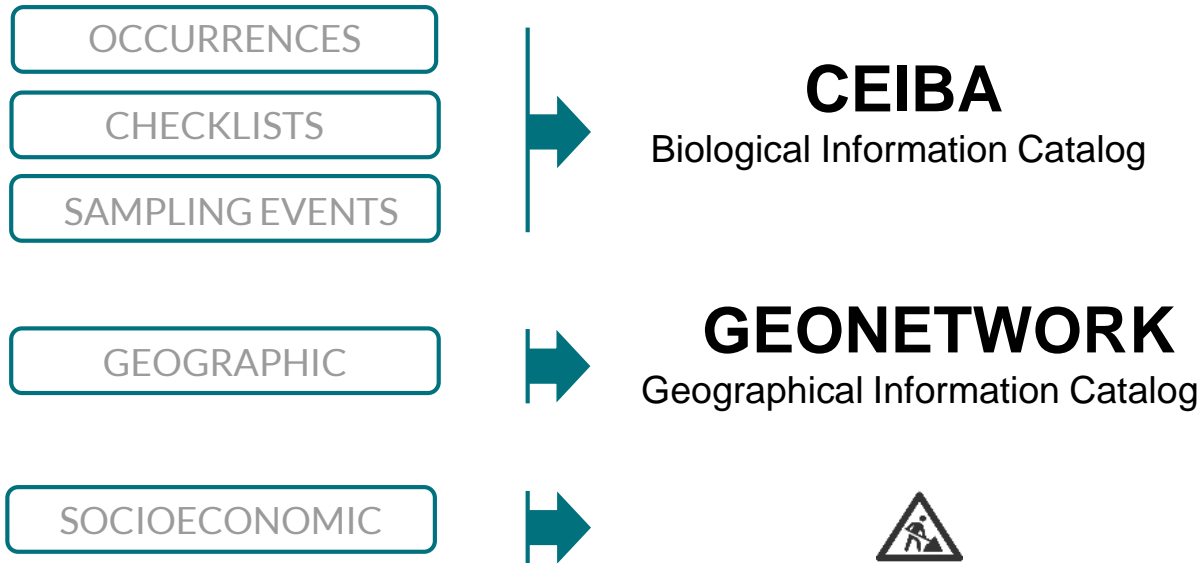
Data and information to be consulted and used in knowledge construction processes to contribute in the conservation and sustainable use of biodiversity in Colombia



INSTITUTIONAL DATA AND INFORMATION INFRASTRUCTURE



DATA AND INFORMATION AT THE INFRASTRUCTURE



BIOLOGICAL DATA

OCCURRENCES

Preserved specimens
Human observations
Machine observations

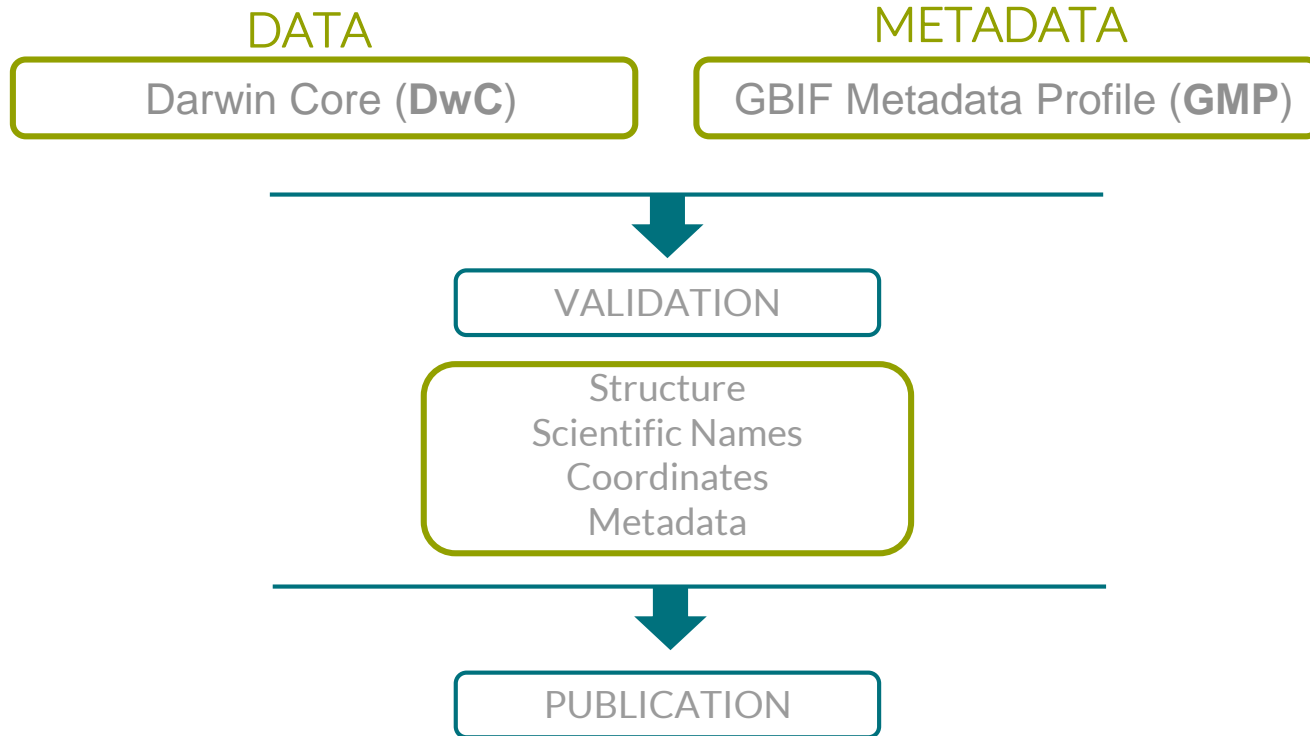
CHECKLISTS

Thematic inventories
Regional inventories
Derived from occurrences

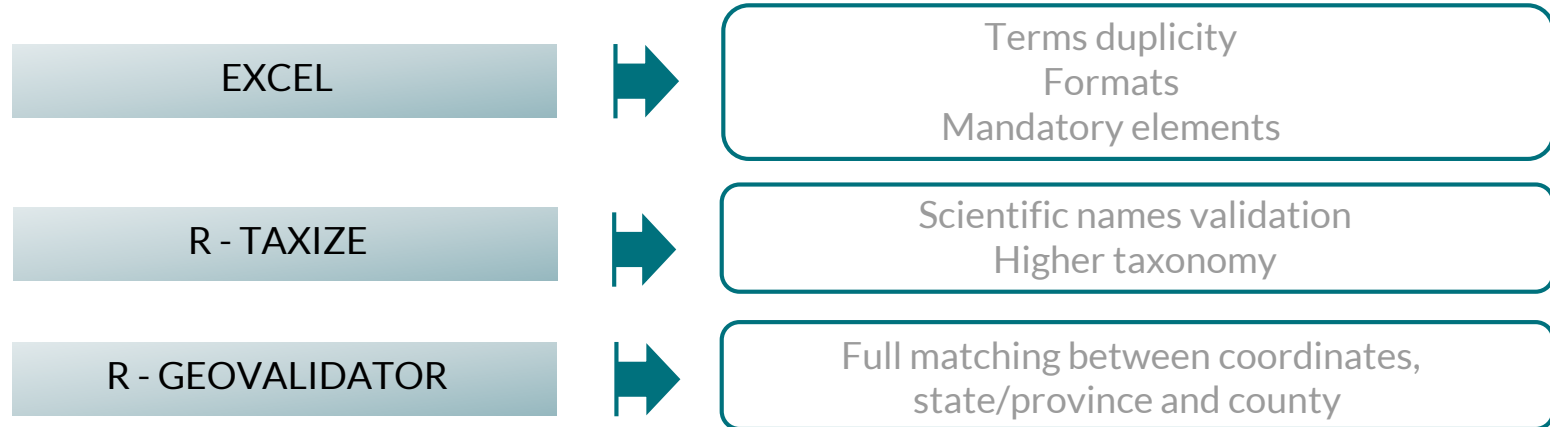
SAMPLING EVENTS

Soundscapes
Long-term monitoring plots

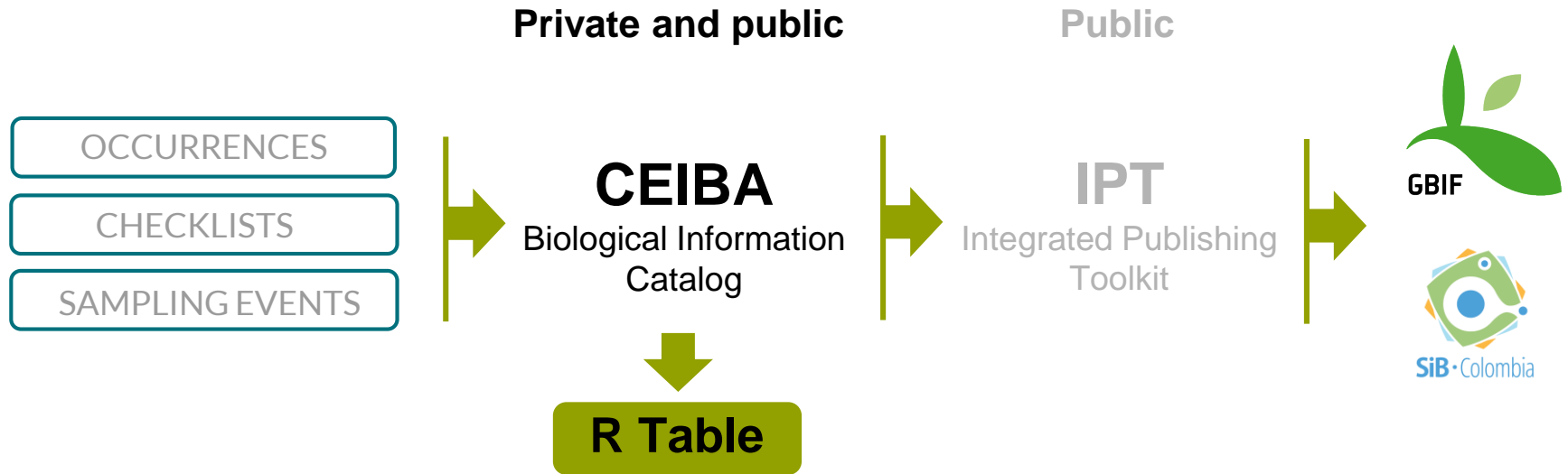
BIOLOGICAL DATA STANDARIZATION



BIOLOGICAL DATA STANDARIZATION



BIOLOGICAL DATA PUBLICATION

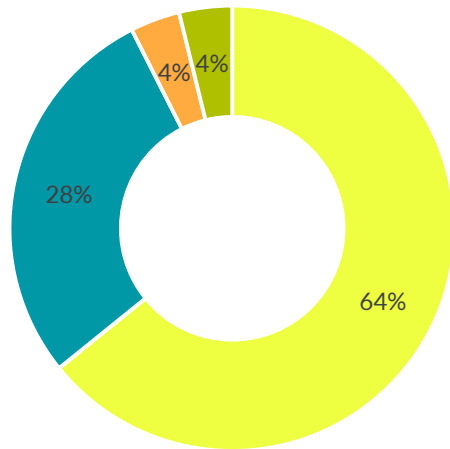


SUPPORT DOCUMENTS

Docs

- Incorporation Guidelines
- Occurrences templates – DwC
- Checklists templates – DwC
- Sampling event templates – DwC
- Darwin Core profile (IAvH adaptation)
- Biological metadata profile (IAvH adaptation)
- Monitoring data publication document – event core (DwC)

AVAILABLE DATA



416

- Occurrences - 267
- Checklists - 118
- Sampling event - 15
- Others - 16



1.168.037

Primary: 1.102.037

Secondary: 66.000

Resource = Metadata + Dataset

AVAILABLE DATA

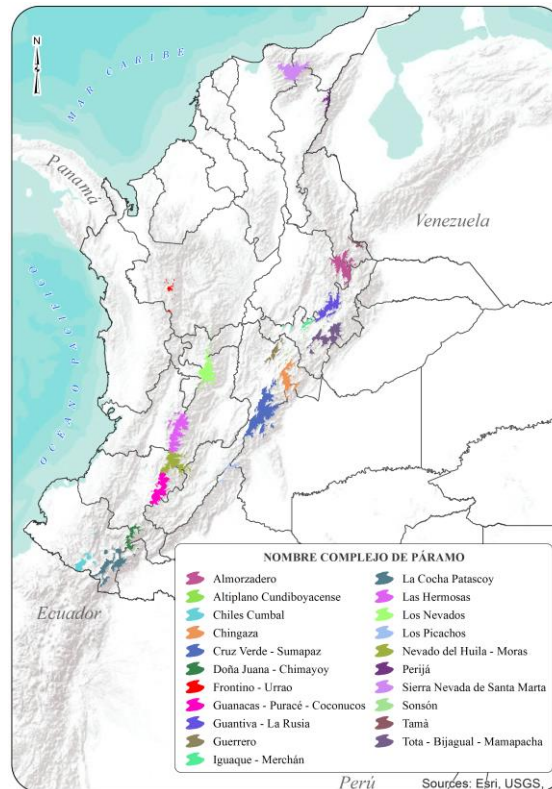
FONDO DE ADAPTACION PROJECT Available resources and occurrences

60 PARAMOS AND WETLANDS

15 Checklists

45 Occurrences

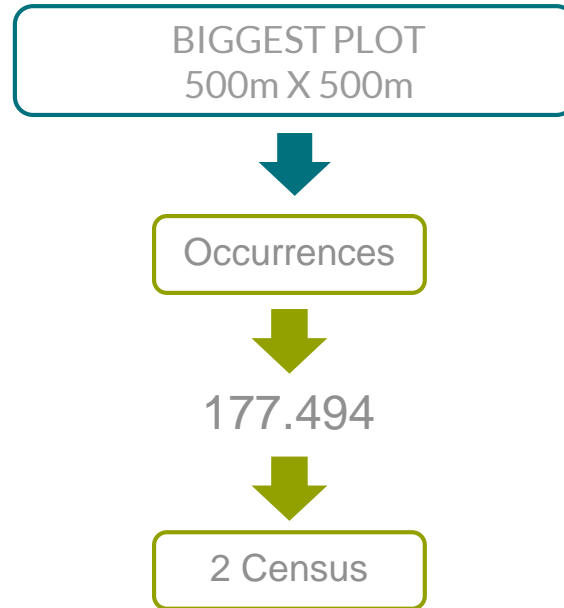
➔ 128.580



AVAILABLE DATA

LA PLANADA PROJECT

Available resources and occurrences



AVAILABLE DATA

22

LONG-TERM PLOTS

Available resources and occurrences

OCCURRENCES



37.619

Tropical dry forest

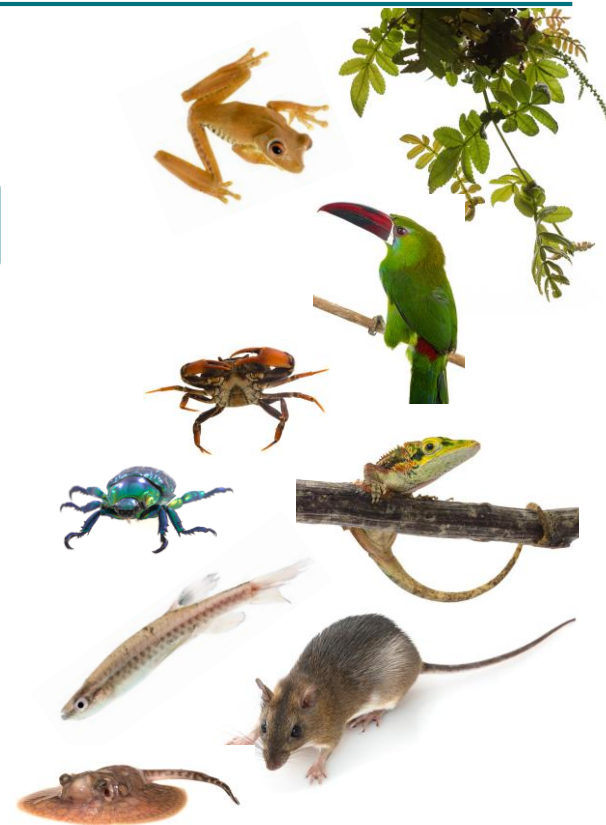
Tropical rainforest



AVAILABLE DATA

COLOMBIA BIO PROJECT

Available resources and occurrences



AVAILABLE DATA



CUNDINAMARCA ORCHIDS

SANTANDER BIO

BOYACÁ BIO

INSTITUTIONAL DATA AND INFORMATION INFRASTRUCTURE

GEOGRAPHIC DATA

GEODATABASES

SHAPES

RASTER

WEB SERVICES



GEOGRAPHIC DATA STANDARDIZATION

METADATA

ISO 19115

ISO 19139

ISO 19113

↓

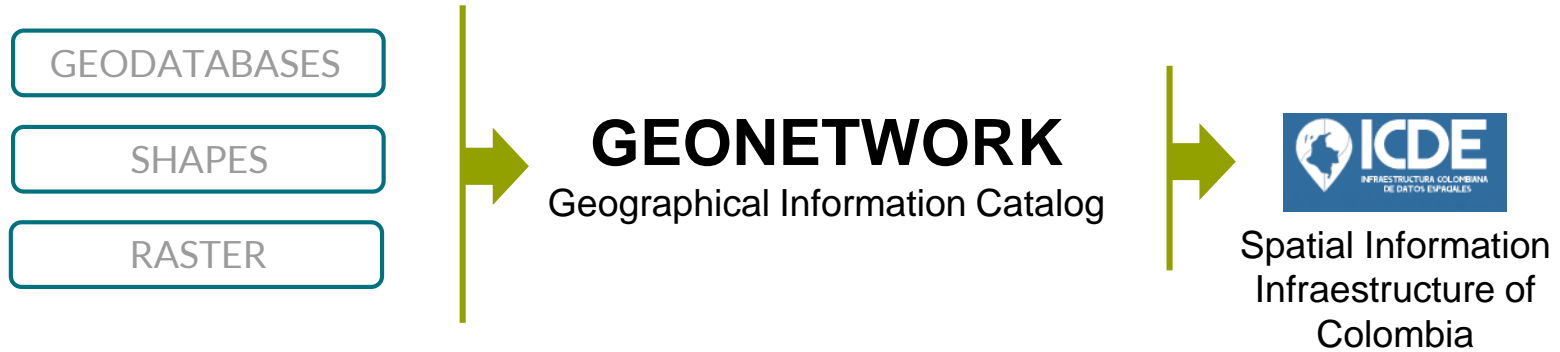
VALIDATION

Metadata
Quantitative information

↓

PUBLICATION

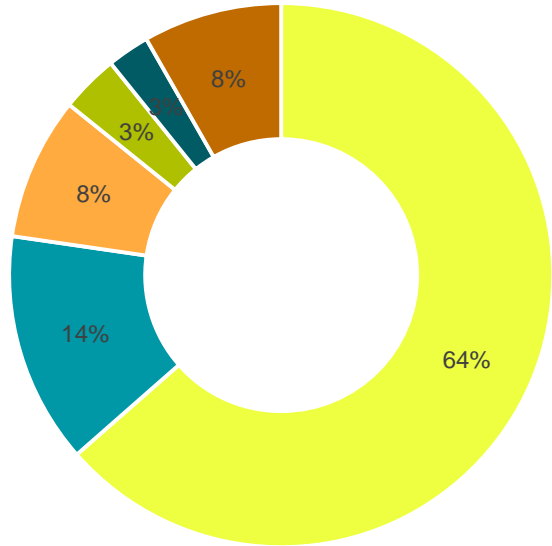
GEOGRAPHIC DATA PUBLICATION



Docs

- Geographic metadata profile
- Construction of a geographic data model – Methodological proposal
- Quality parameters for geographic data – Proposal
- Remote sensors management – Proposal

AVAILABLE DATA



436

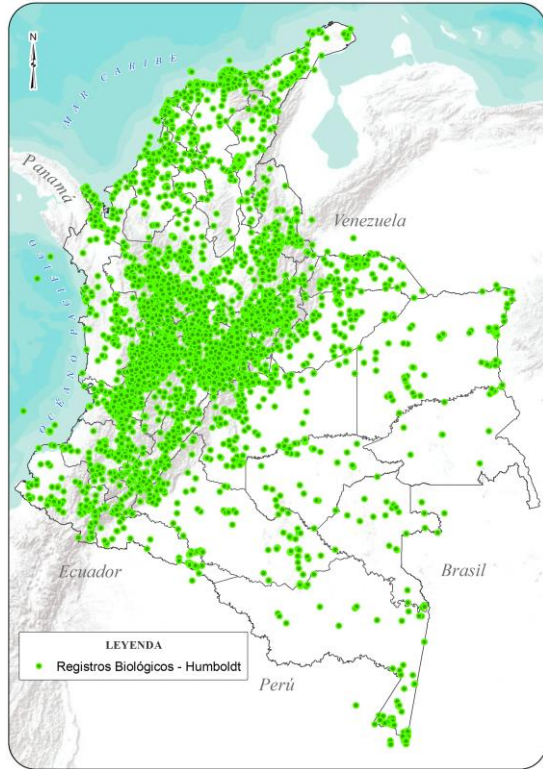
- Geoscientific information
- Inland waters
- Environmental
- Land cover with basic maps
- Localization
- Others



58 Web Services
WMS - WFS

Resource = Metadata + Dataset

AVAILABLE DATA



HUMBOLDT INSTITUTE OCCURRENCES

Georeferenced occurrences
generated by the Institute and
available online

AVAILABLE DATA

STRATEGIC ECOSYSTEMS DELIMITATION AND MANAGEMENT

Provide support information to the environmental authorities for the Colombian ecosystems identification, delimitation and management process

Colombian Paramos

1:100.000

Insular and continental wetland

1:100.000

21 Colombian Paramos

1:25.000

Wetland and Paramo's land cover

1:25.000

AVAILABLE DATA

Biogeographic, ecological and strategic planning approach in the operational Ecopetrol areas.

10 layers

Biomass

Total collapse

Hidrology

Conservation goals



AVAILABLE DATA

Environmental variables in the oil palm crops planning and agroecological practices that protects biodiversity . This project was focused in two sub regions (north and east).

26 layers

Species richness

1:100.000

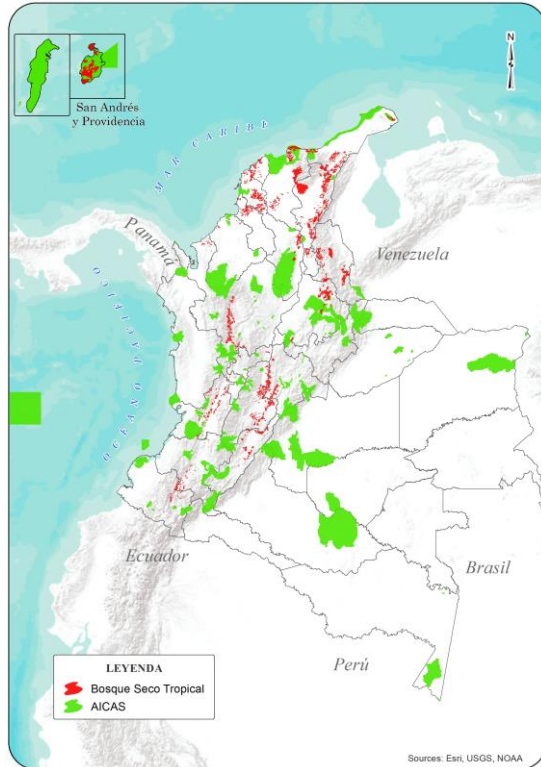
Coverage

1:25.000

Shrub Forest

1:25.000

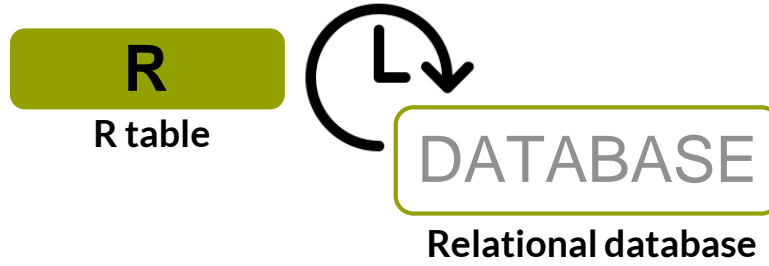
AVAILABLE DATA



Important Bird Areas (IBAs)

Tropical dry forest
1:100.000

WHAT'S COMING



WHAT'S COMING

