EARTH OBSERVATION TOOLKIT

USER GUIDE

IsDB البنك الإسلامي للتنمية Islamic Development Bank

مدينة إكسبو دبي EXPO CITY DUBAI

ICBA المركز الدولي للزراعة الملحية INTERNATIONAL CENTER FOR BIOSALINE AGRICULTURE

Terra

INTRODUCTION

The EO Toolkit is a web-based platform designed to support development projects by integrating Earth Observation (EO) data, AI-powered tools, and interactive mapping. It helps users across agriculture, water, and infrastructure portfolios make informed decisions at various stages of the project lifecycle. By providing streamlined access to spatial datasets, analytical tools, and training resources, the tool empowers stakeholders—including project teams, and implementing agencies—to make data-driven, location-specific decisions.

EO Toolkit serves as:

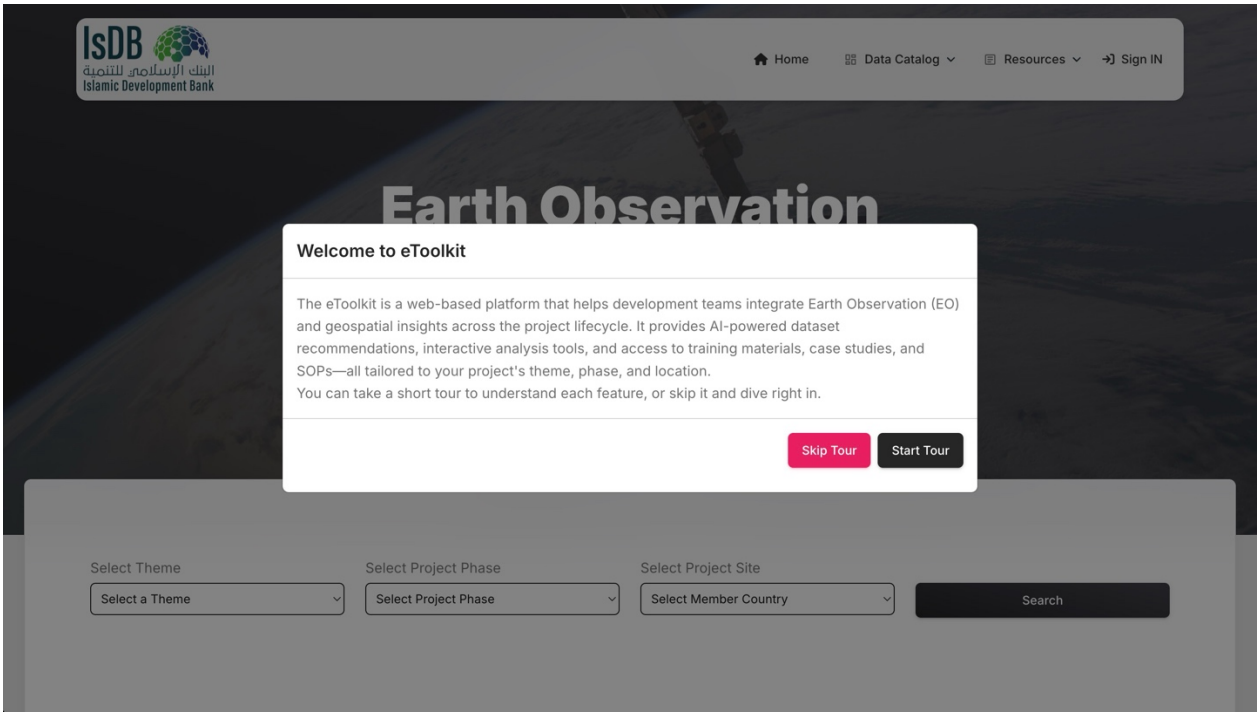
- A Web-based GIS platform showcasing the application of EO technologies across multiple sectors in IsDB projects.
- A knowledge hub summarizing past and ongoing EO-based initiatives in agriculture, water management, climate resilience, and infrastructure development.
- A resource center offering EO datasets, methodologies, case studies, learning materials, tools, SOPs, and best practices to facilitate the integration of Earth Observation across various stages of the IsDB project lifecycle.

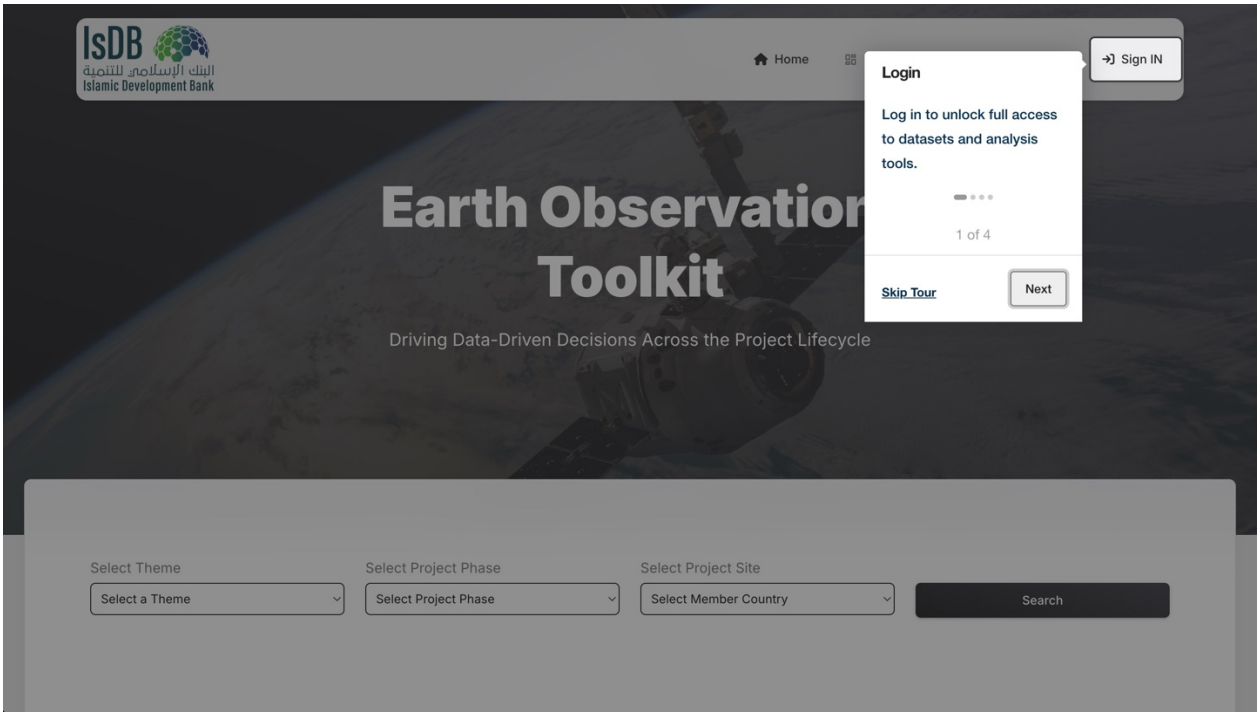
Key Features:

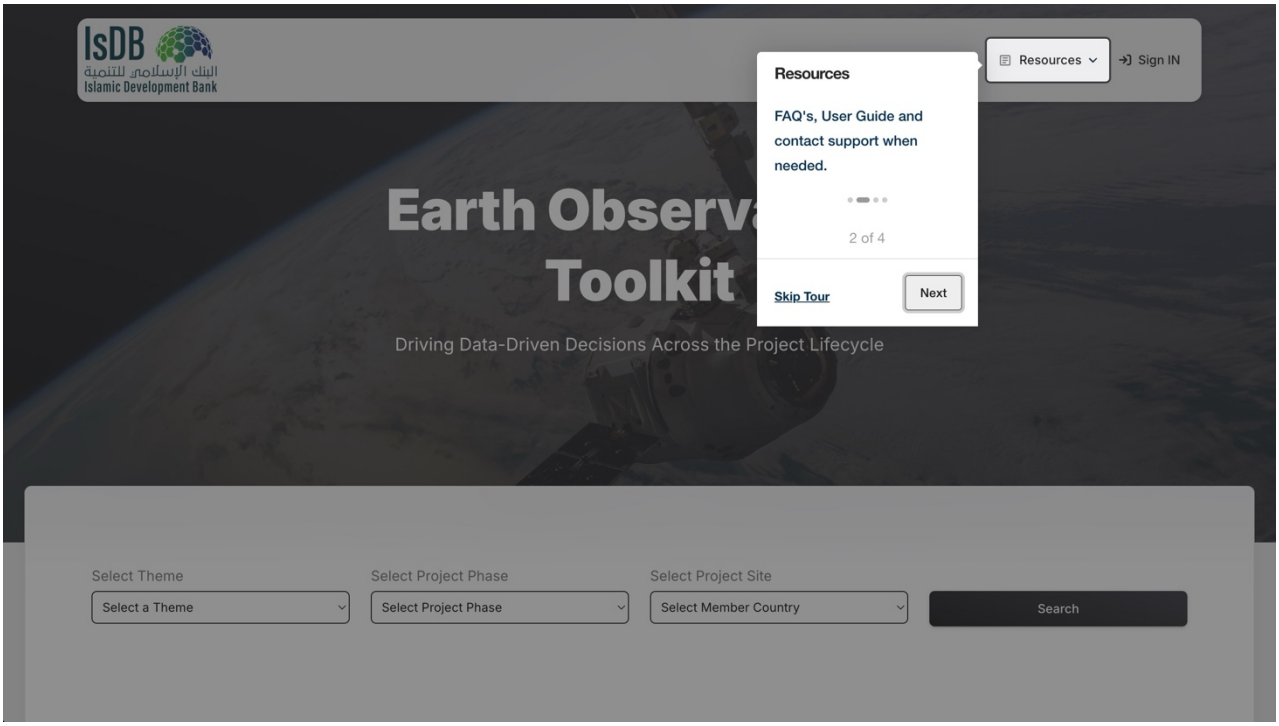
- Thematic Data Catalog
  - Curated collection of EO datasets relevant to IsDB sectors such as water, agriculture, climate, disaster risk, and infrastructure.
- Training Course Catalog
  - A comprehensive repository of learning materials, video tutorials, and guides.
  - Covers topics like crop mapping, water accounting, remote sensing, machine learning, and climate resilience.
- Case Studies Catalog
  - Real-world examples of EO applications across IsDB member countries.
  - Highlights successful use of geospatial analysis in planning, monitoring, and evaluating development interventions.
- Interactive Filters and Search
  - Users can filter content by theme, region, phase, and source.
  - Keyword-based search for intuitive exploration.
- Web-based Visualization
  - Interactive maps to explore geospatial layers, and statistics.
- AI-powered recommendations
  - Context-aware suggestions based on user actions and selected AOIs, powered by OpenAI integration.

GETTING STARTED

When you open EO Toolkit for the first time, you'll be guided through a quick walkthrough that introduces you to the platform's key features. This interactive tour helps you get familiar with how to explore data, use tools, and generate insights.






IsDB
البنك الإسلامي للتنمية
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Resources
Sign IN
Resources
FAQ's, User Guide and contact support when needed.
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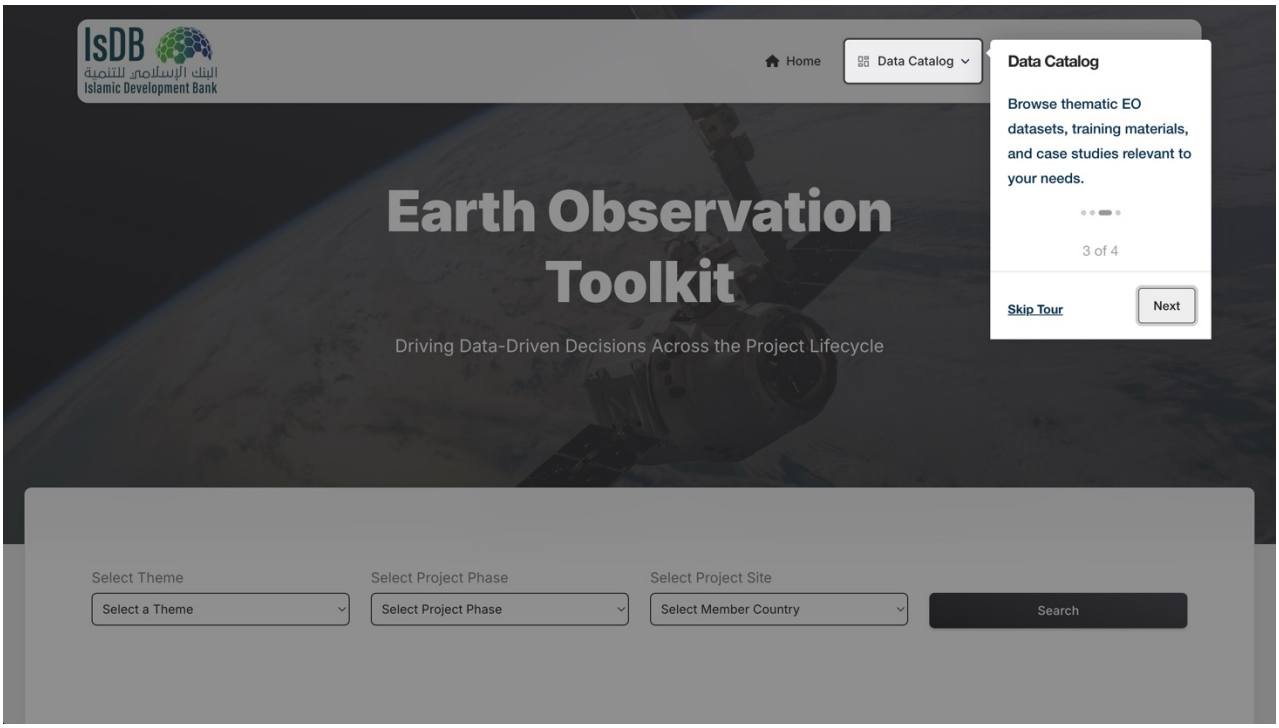
Skip Tour
Next
Earth Observa
Toolkit
Driving Data-Driven Decisions Across the Project Lifecycle
Select Theme
Select a Theme
Select Project Phase
Select Project Phase
Select Project Site
Select Member Country
Search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Data Catalog
Data Catalog
Browse thematic EO datasets, training materials, and case studies relevant to your needs.
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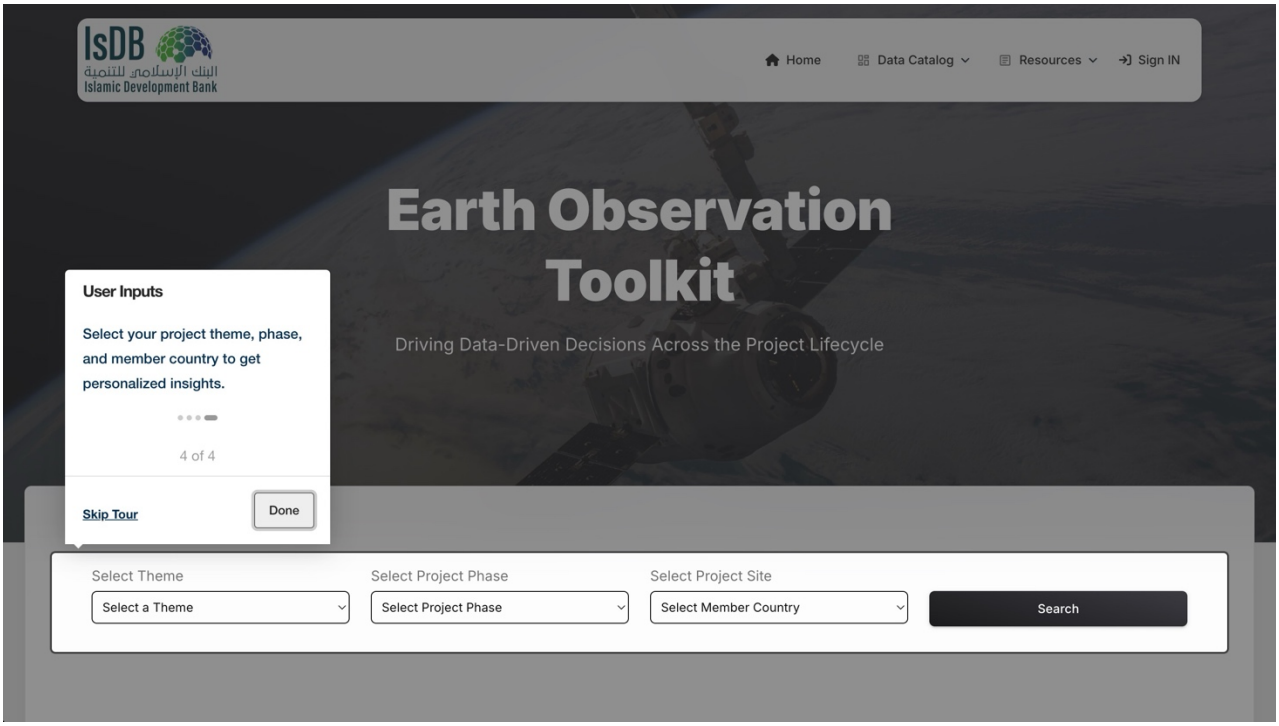
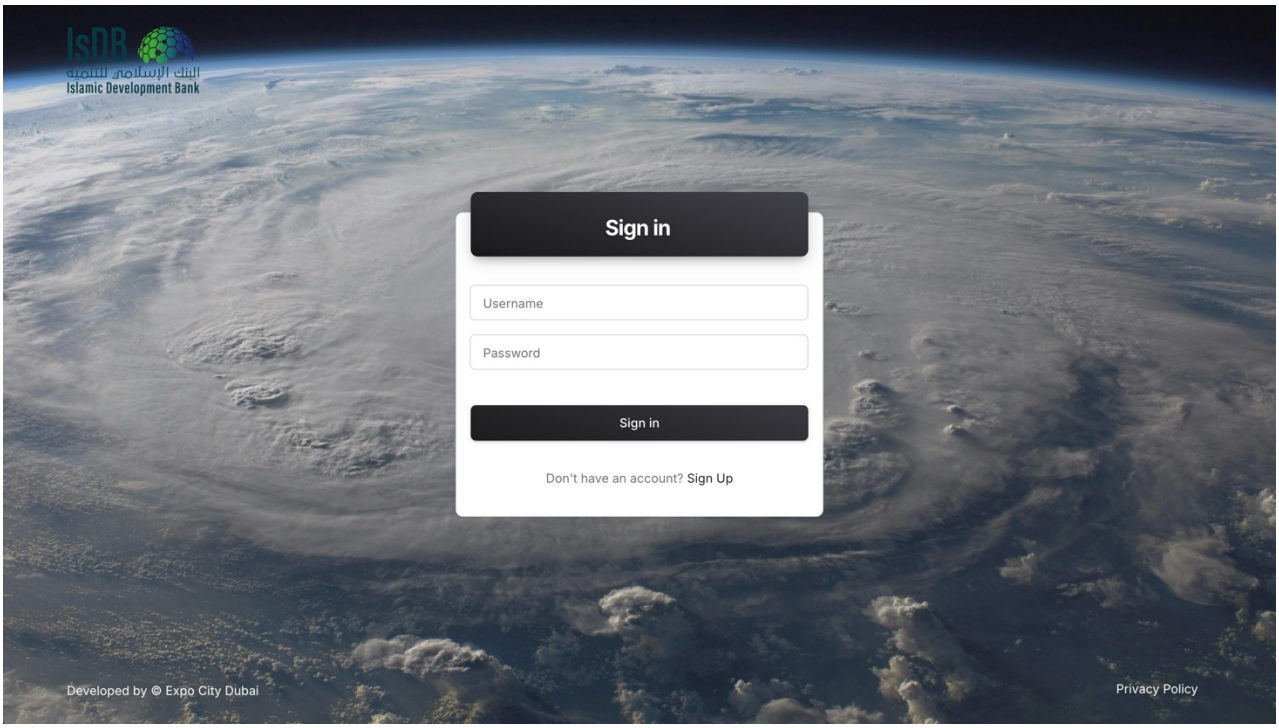
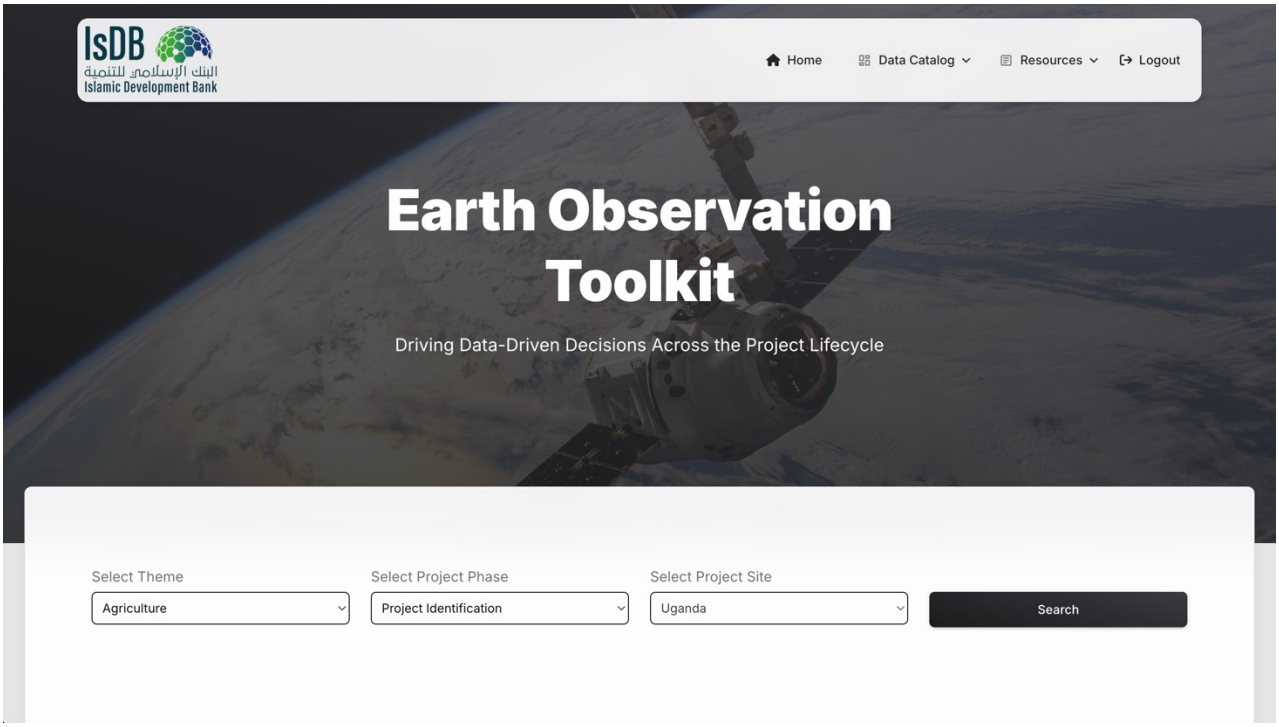
Next
Earth Observation
Toolkit
Driving Data-Driven Decisions Across the Project Lifecycle
Select Theme
Select a Theme
Select Project Phase
Select Project Phase
Select Project Site
Select Member Country
Search



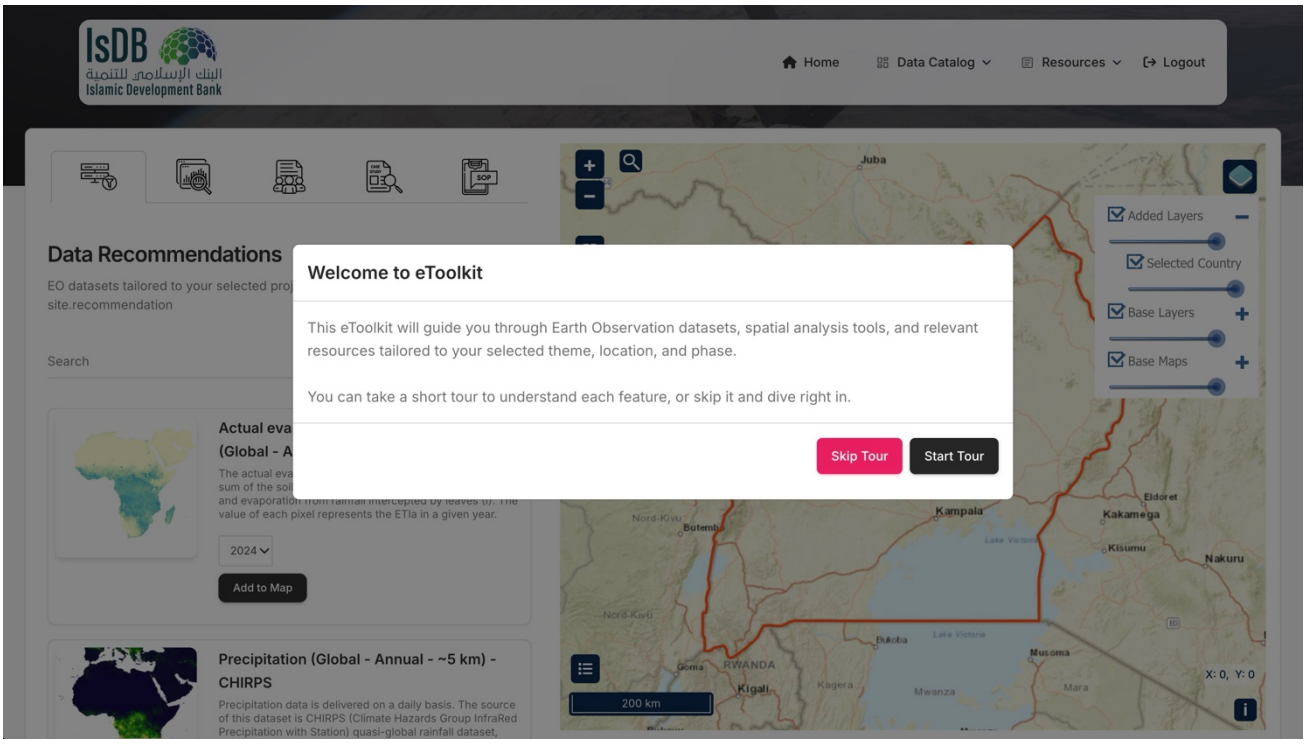
To access the full dashboard and datasets, please **log in using your credentials**.

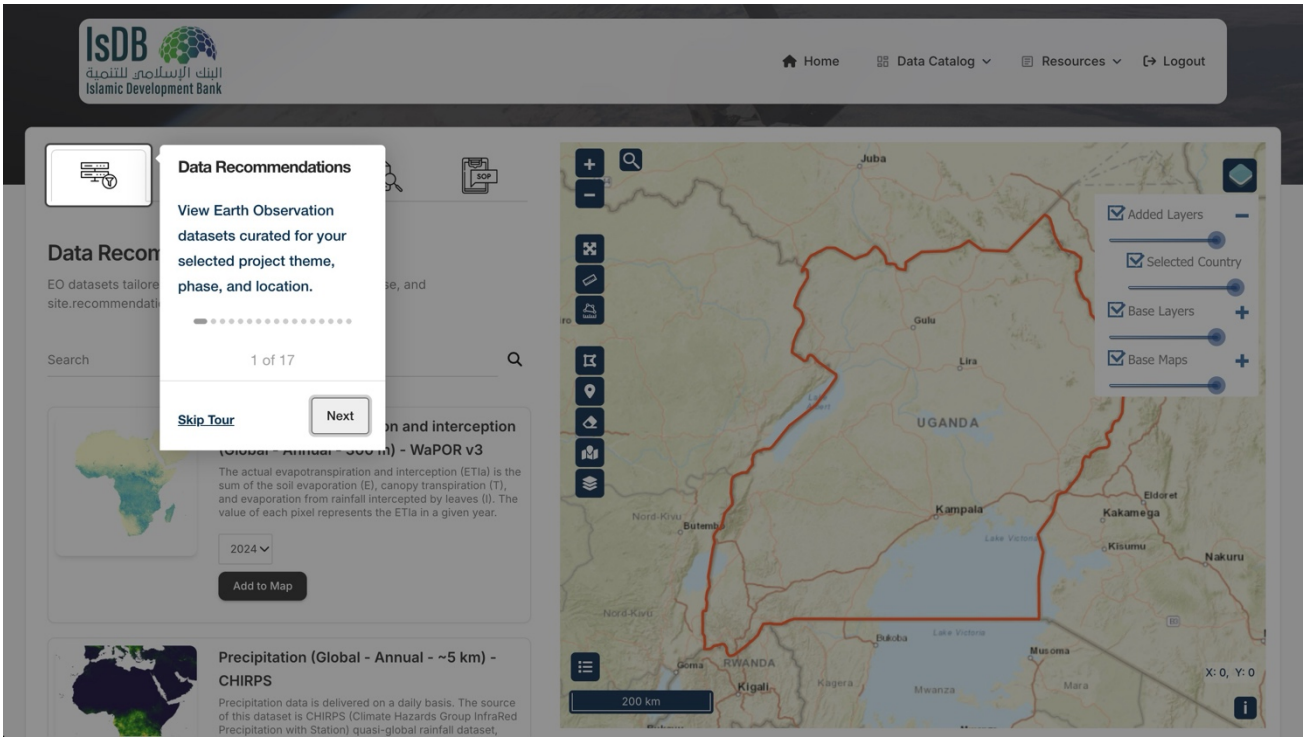


Theme, Phase, and Country Selection: Begin by selecting your project's sector, lifecycle phase, and geographic region. This drives relevant data filtering.



Take a tour to get familiar with the platform's mapping features like: Zoom controls, Location search, Distance and area measurement, Drawing tools to mark your Area of Interest (AOI) etc.

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Data Recommendations
View Earth Observation datasets curated for your selected project theme, phase, and location.
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Search
Precipitation (Global - Annual - ~5 km) - CHIRPS
Precipitation data is delivered on a daily basis. The source of this dataset is CHIRPS (Climate Hazards Group InfraRed Precipitation with Station) quasi-global rainfall dataset,
Added Layers
Selected Country
Base Layers
Base Maps
Juba
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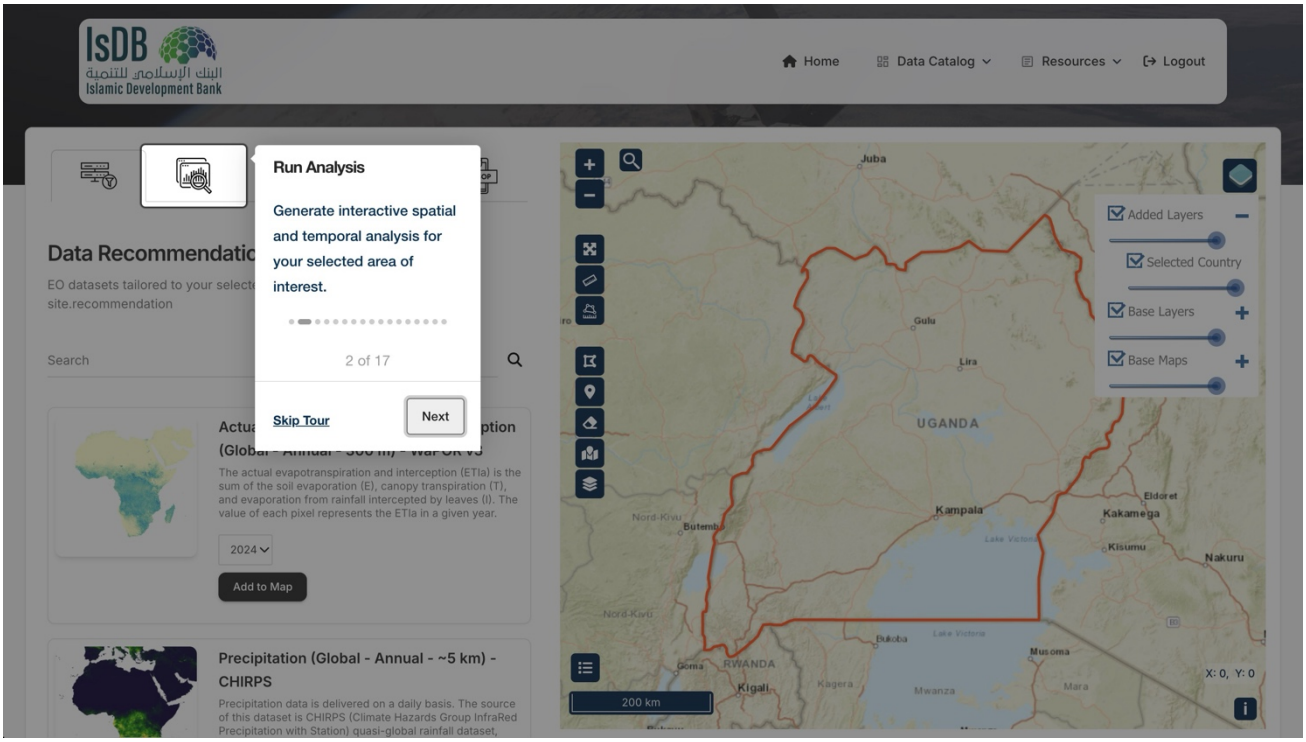
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Run Analysis
Generate interactive spatial and temporal analysis for your selected area of interest.
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Precipitation (Global - Annual - ~5 km) - CHIRPS
Precipitation data is delivered on a daily basis. The source of this dataset is CHIRPS (Climate Hazards Group InfraRed Precipitation with Station) quasi-global rainfall dataset,
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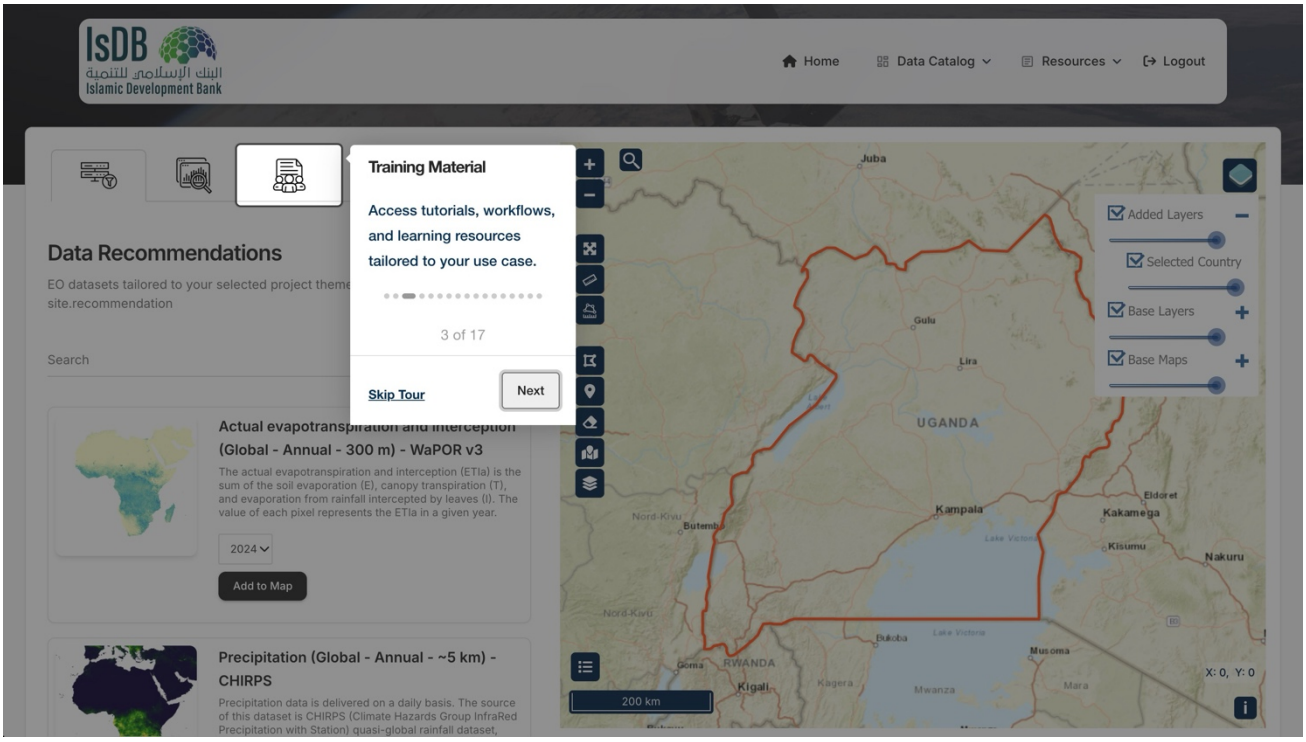
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Training Material
Access tutorials, workflows, and learning resources tailored to your use case.
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EO datasets tailored to your selected project theme
site.recommendation
Search
Actual evapotranspiration and interception (Global - Annual - 300 m) - WaPOR v3
The actual evapotranspiration and interception (ETIa) is the sum of the soil evaporation (E), canopy transpiration (T), and evaporation from rainfall intercepted by leaves (I). The value of each pixel represents the ETIa in a given year.
2024
Add to Map
Precipitation (Global - Annual - ~5 km) - CHIRPS
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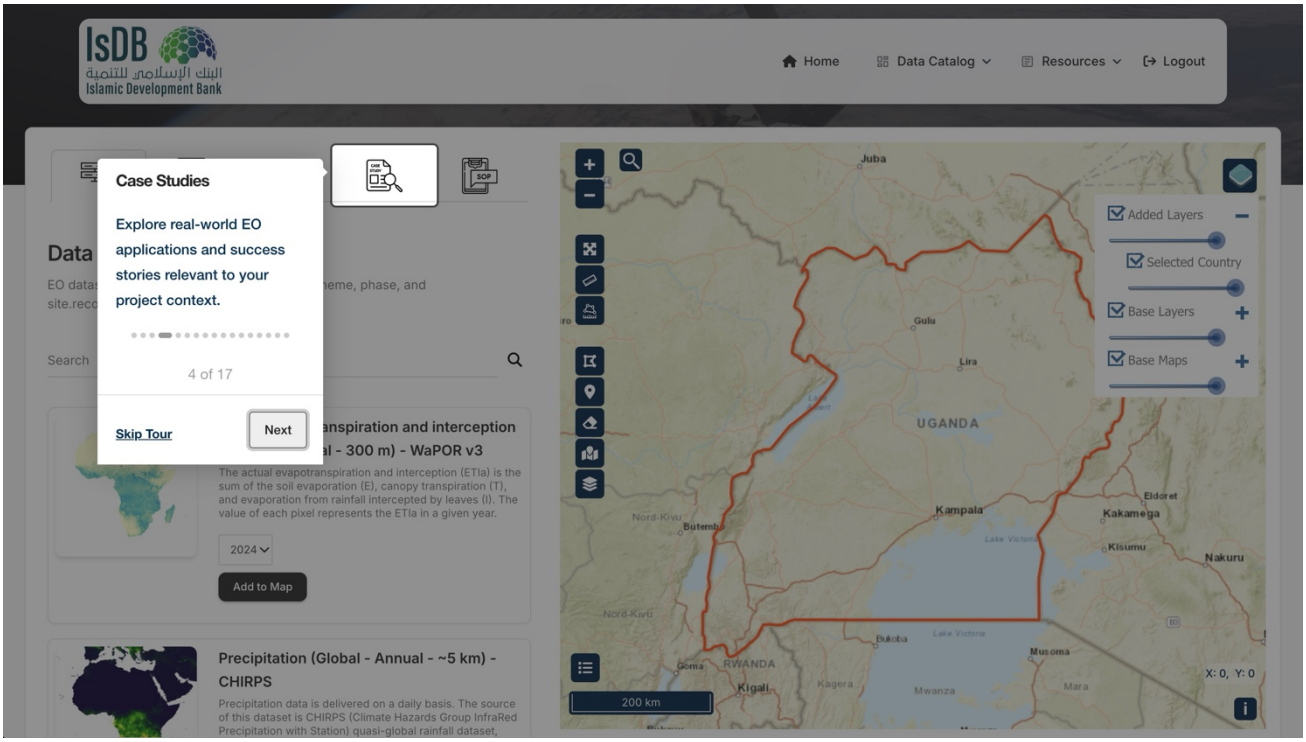
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Case Studies
Explore real-world EO applications and success stories relevant to your project context.
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Add to Map
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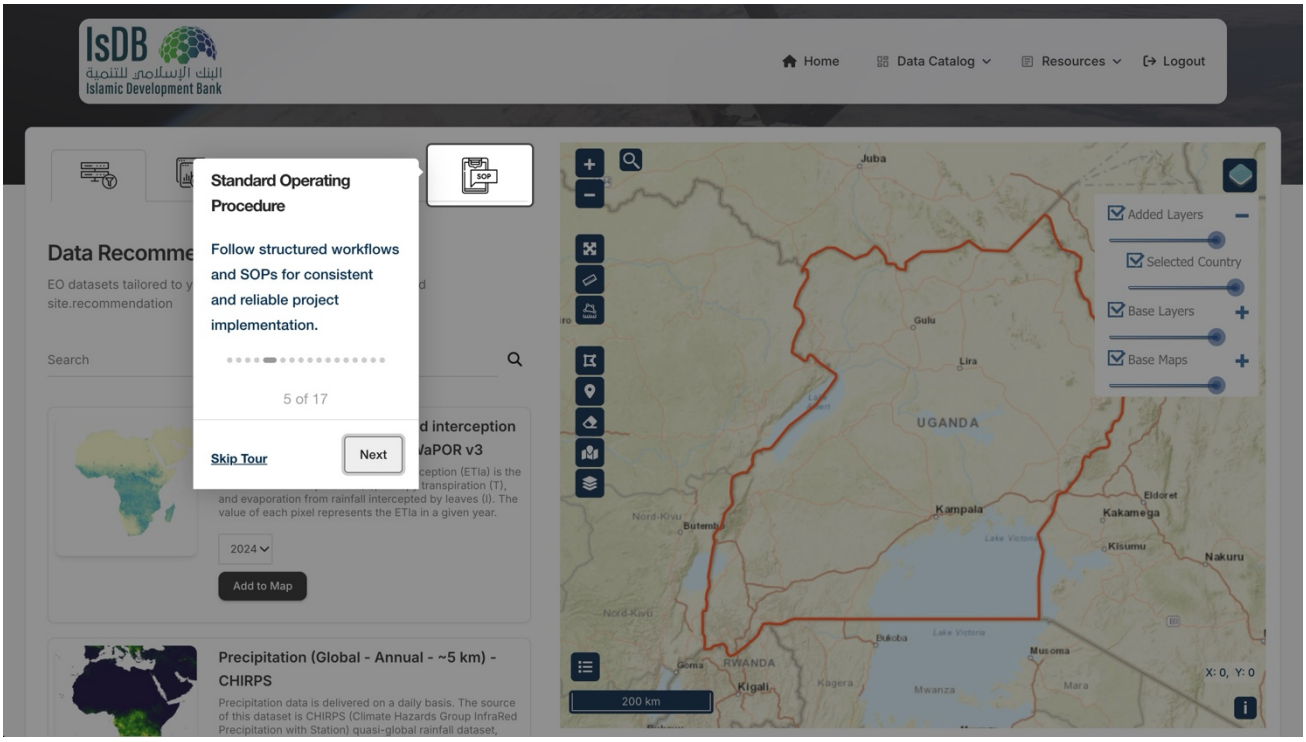
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Standard Operating Procedure
Follow structured workflows and SOPs for consistent and reliable project implementation.
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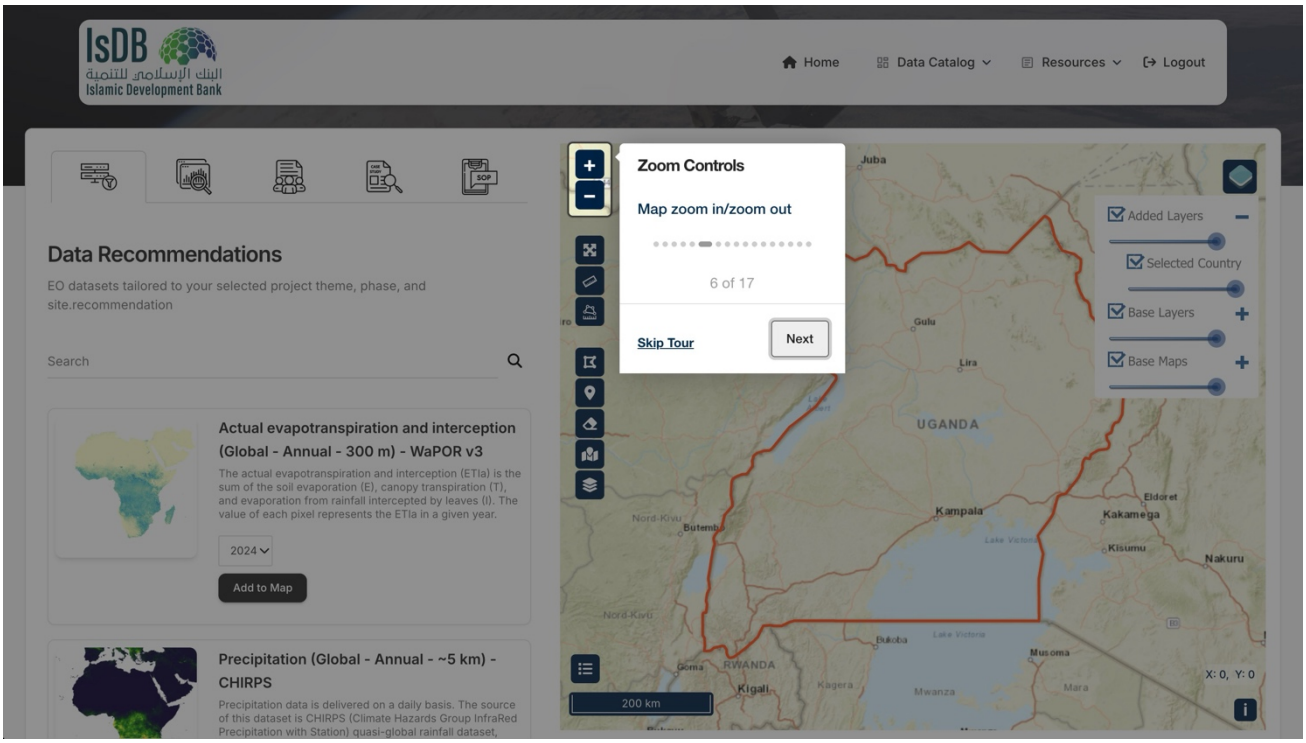
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Map zoom in/zoom out
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Actual evapotranspiration and interception (Global - Annual - 300 m) - WaPOR v3
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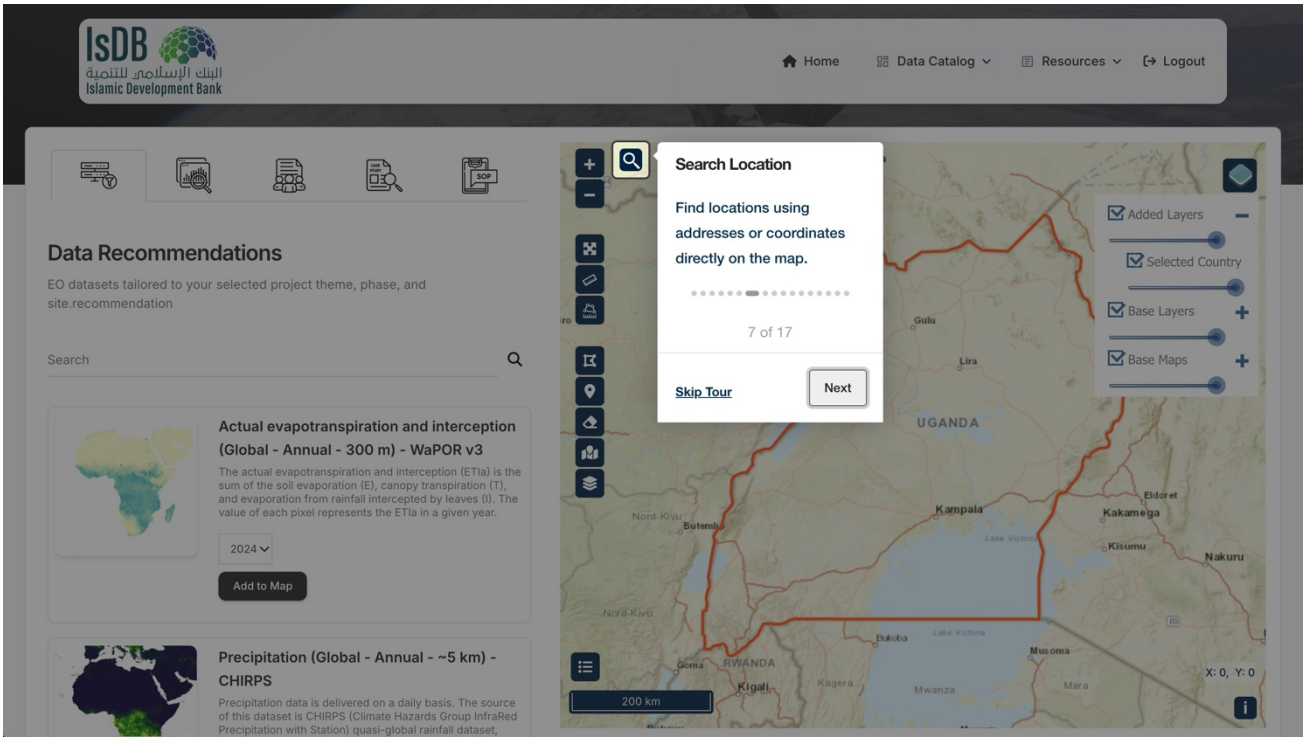
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Search Location
Find locations using addresses or coordinates directly on the map.
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Next
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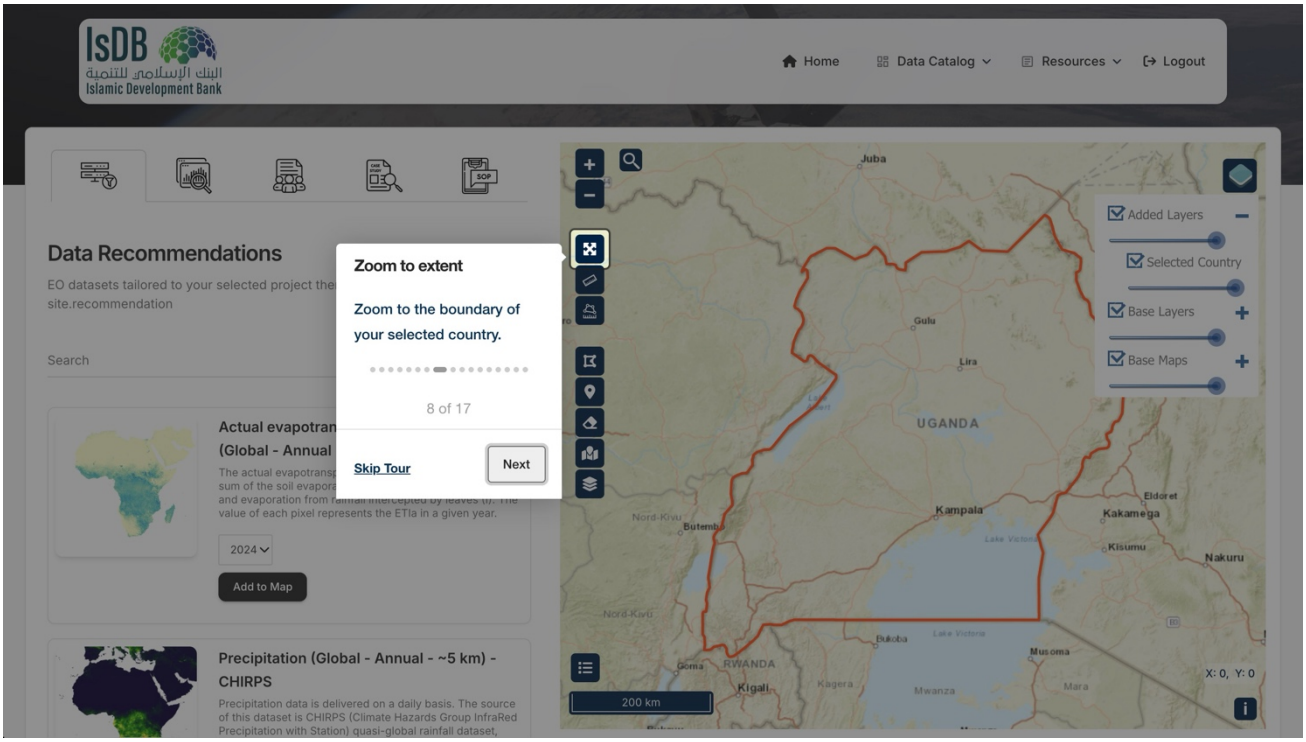
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Zoom to extent
Zoom to the boundary of your selected country.
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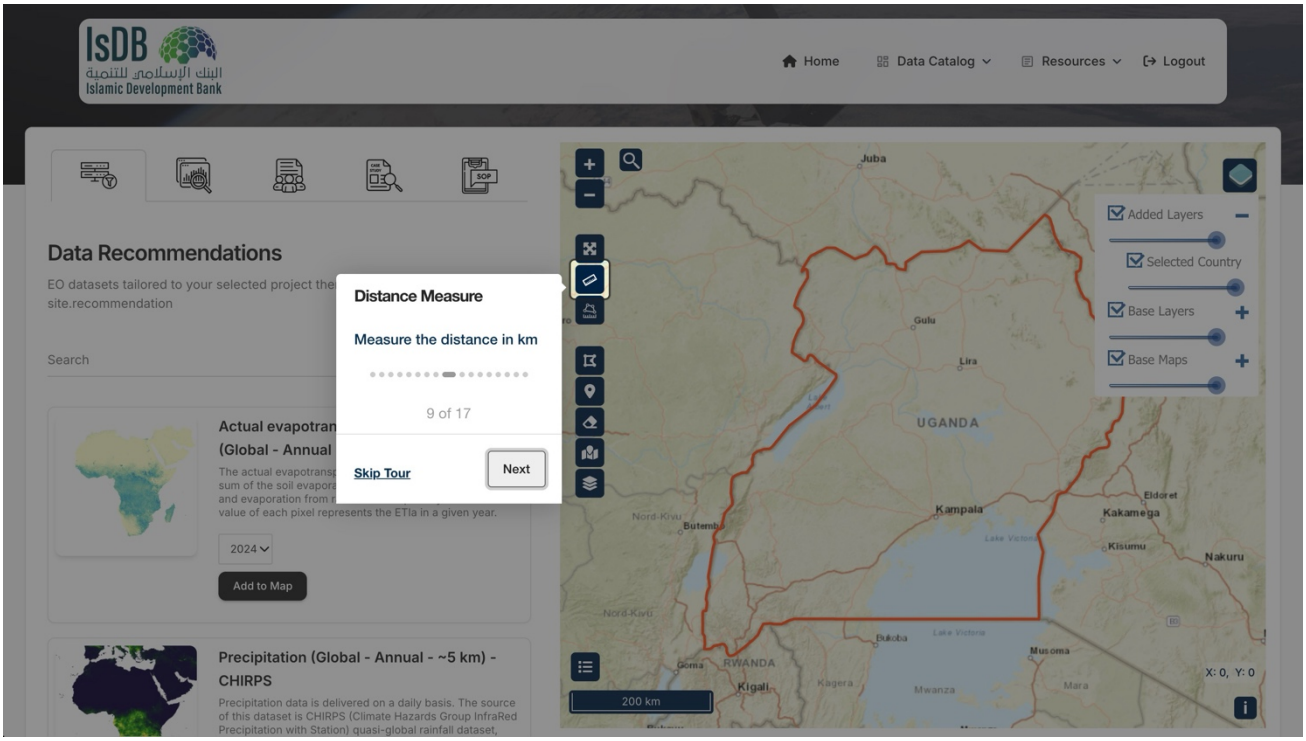
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Distance Measure
Measure the distance in km
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Actual evapotran
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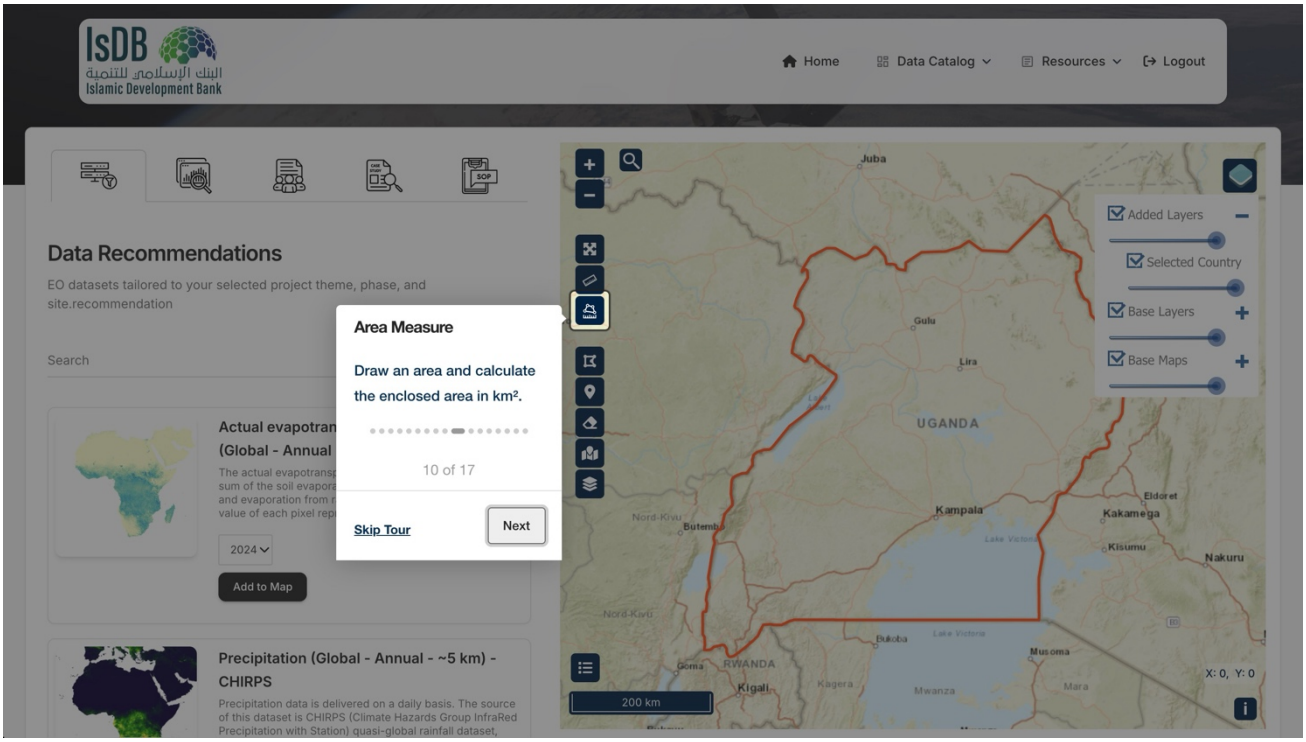
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Area Measure
Draw an area and calculate the enclosed area in km².
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Actual evapotran
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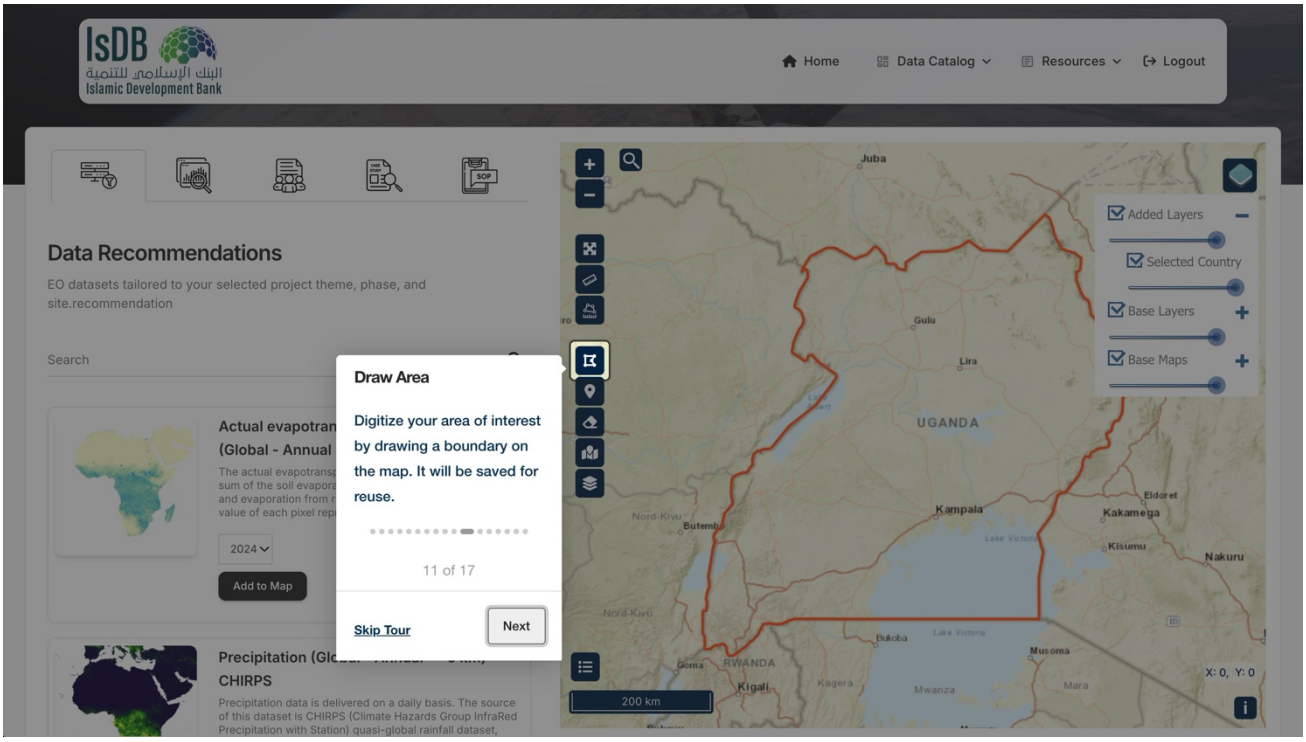
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Search
Draw Area
Digitize your area of interest by drawing a boundary on the map. It will be saved for reuse.
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Actual evapotran
(Global - Annual
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Add to Map
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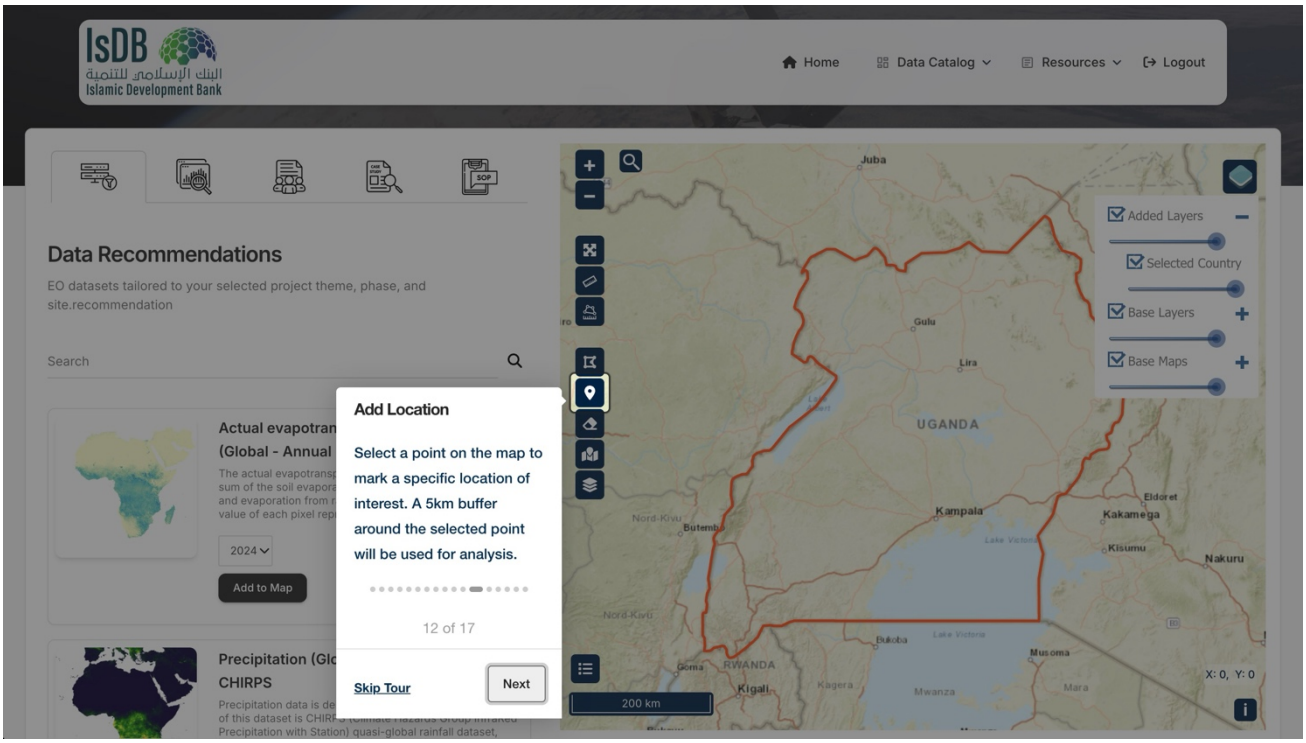
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Search
Add Location
Select a point on the map to mark a specific location of interest. A 5km buffer around the selected point will be used for analysis.
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Actual evapotran
(Global - Annual
2024
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Precipitation (Gl
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Added Layers
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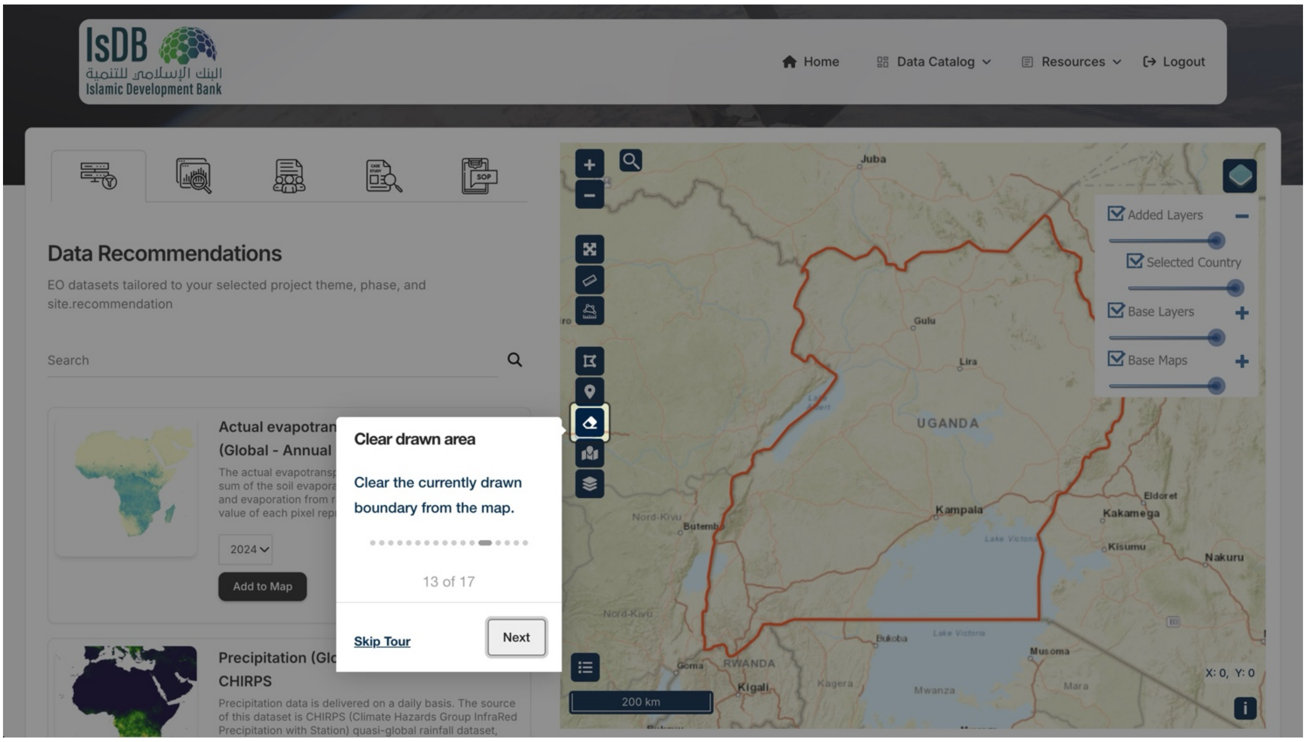
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Search
Clear drawn area
Clear the currently drawn boundary from the map.
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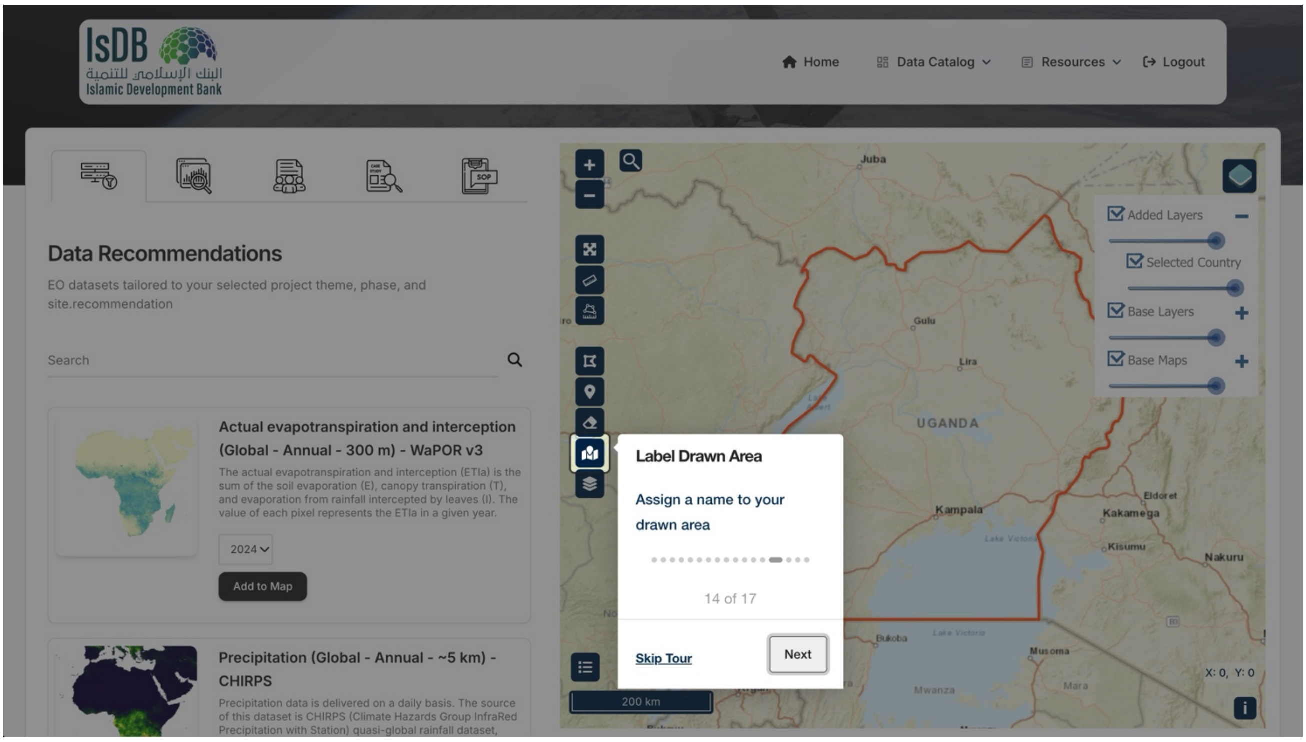
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EO datasets tailored to your selected project theme, phase, and site.recommendation
Search
Actual evapotranspiration and interception (Global - Annual - 300 m) - WaPOR v3
The actual evapotranspiration and interception (ETIa) is the sum of the soil evaporation (E), canopy transpiration (T), and evaporation from rainfall intercepted by leaves (I). The value of each pixel represents the ETIa in a given year.
2024
Add to Map
Precipitation (Global - Annual - ~5 km) - CHIRPS
Precipitation data is delivered on a daily basis. The source of this dataset is CHIRPS (Climate Hazards Group InfraRed Precipitation with Station) quasi-global rainfall dataset,
Label Drawn Area
Assign a name to your drawn area
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Added Layers
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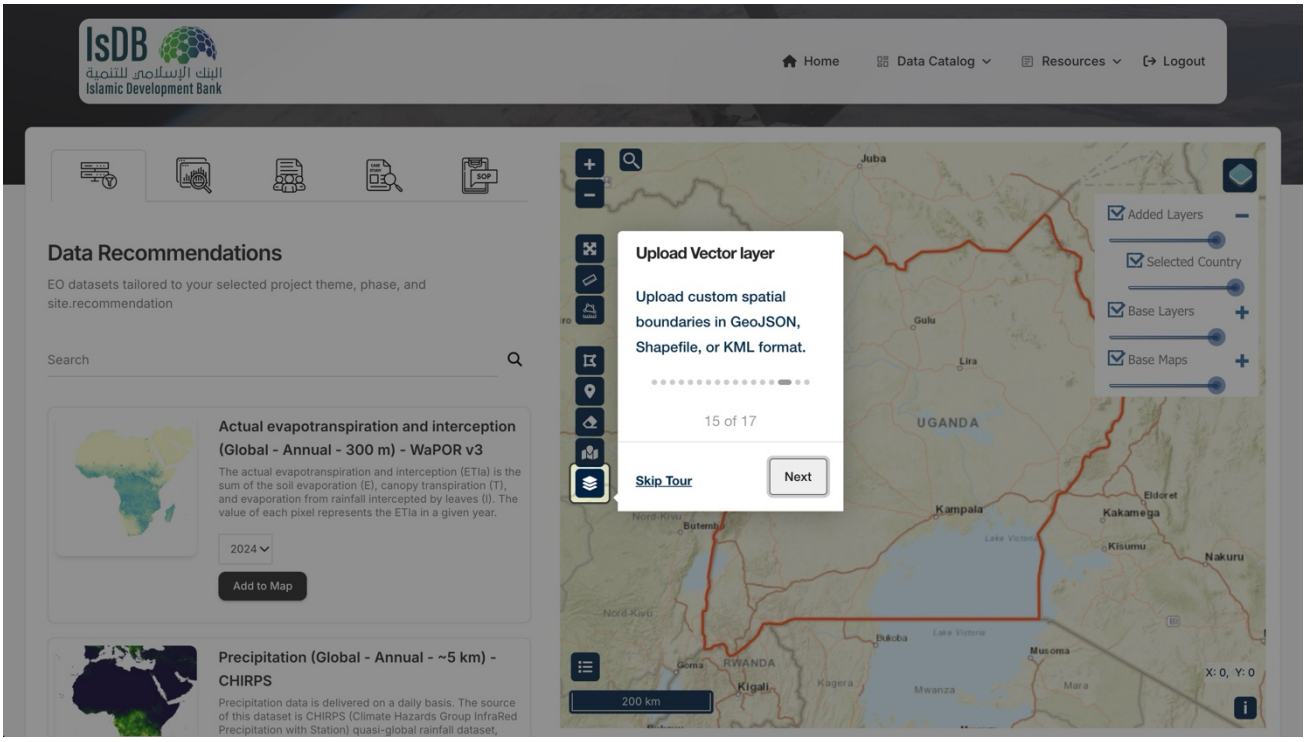
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Search
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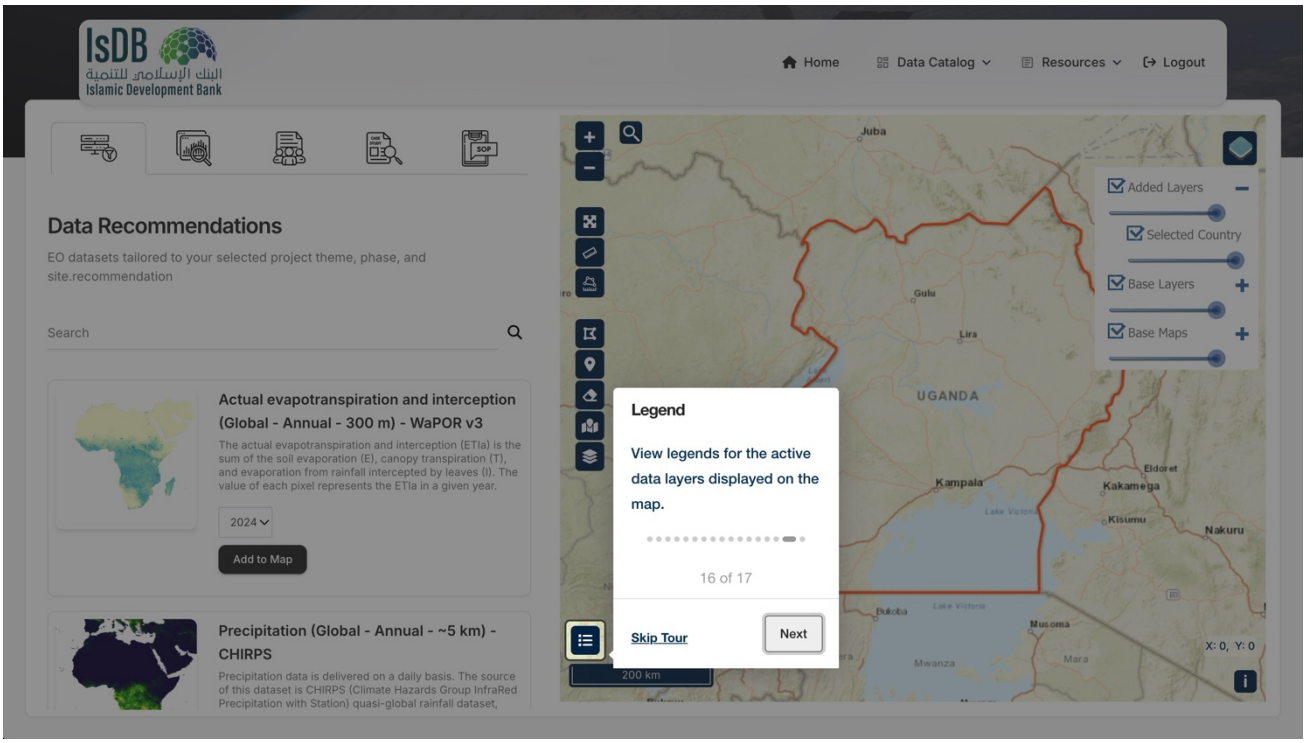
The actual evapotranspiration and interception (ETIa) is the sum of the soil evaporation (E), canopy transpiration (T), and evaporation from rainfall intercepted by leaves (I). The value of each pixel represents the ETIa in a given year.
2024
Add to Map
Precipitation (Global - Annual - ~5 km) - CHIRPS
Precipitation data is delivered on a daily basis. The source of this dataset is CHIRPS (Climate Hazards Group InfraRed Precipitation with Station) quasi-global rainfall dataset,
Upload Vector layer
Upload custom spatial boundaries in GeoJSON, Shapefile, or KML format.
15 of 17
Skip Tour
Next
Added Layers
Selected Country
Base Layers
Base Maps
Juba
Gulu
Lira
UGANDA
Kampala
Eldoret
Kakamega
Kisumu
Nakuru
Bukoba
Musoma
RWANDA
Kigali
Kagera
Mwanza
Mara
200 km
X: 0, Y: 0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Legend
View legends for the active data layers displayed on the map.
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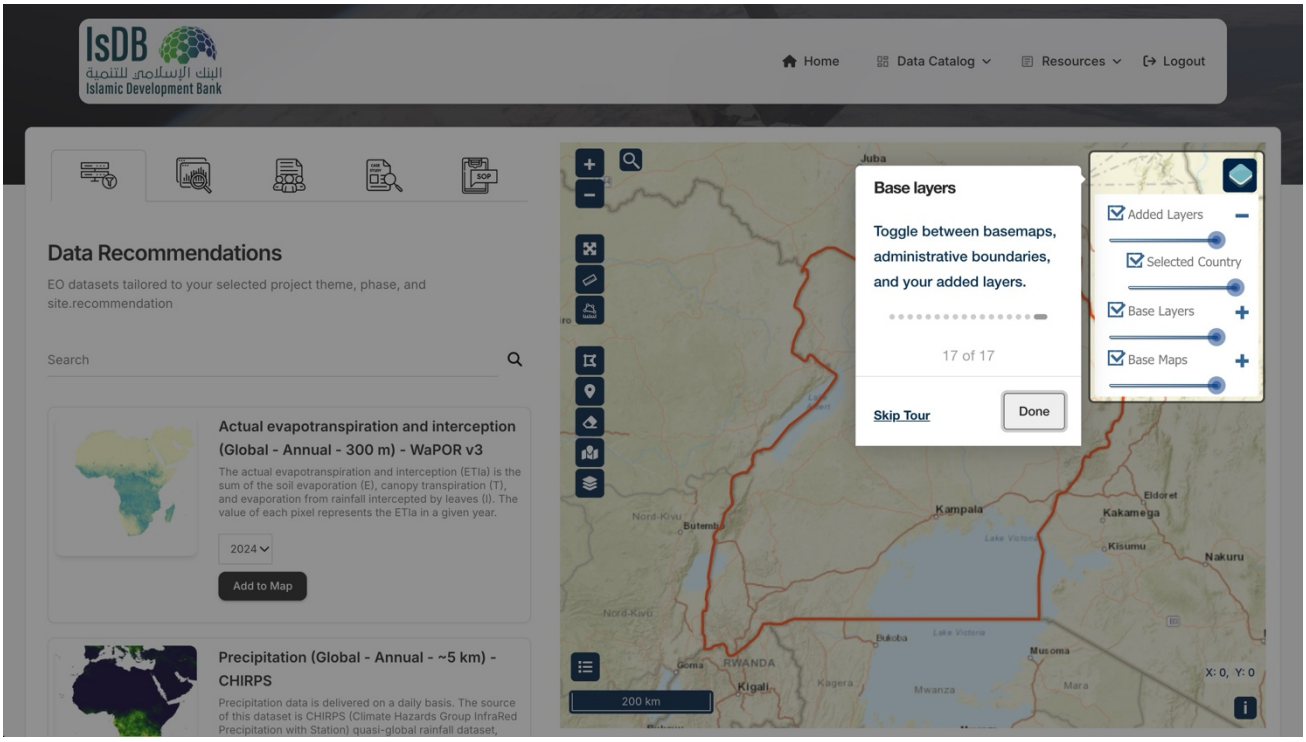
Next
Added Layers
Selected Country
Base Layers
Base Maps
Juba
Gulu
Lira
UGANDA
Kampala
Eldoret
Kakamega
Kisumu
Nakuru
Bukoba
Musoma
Mwanza
Mara
200 km
X: 0, Y: 0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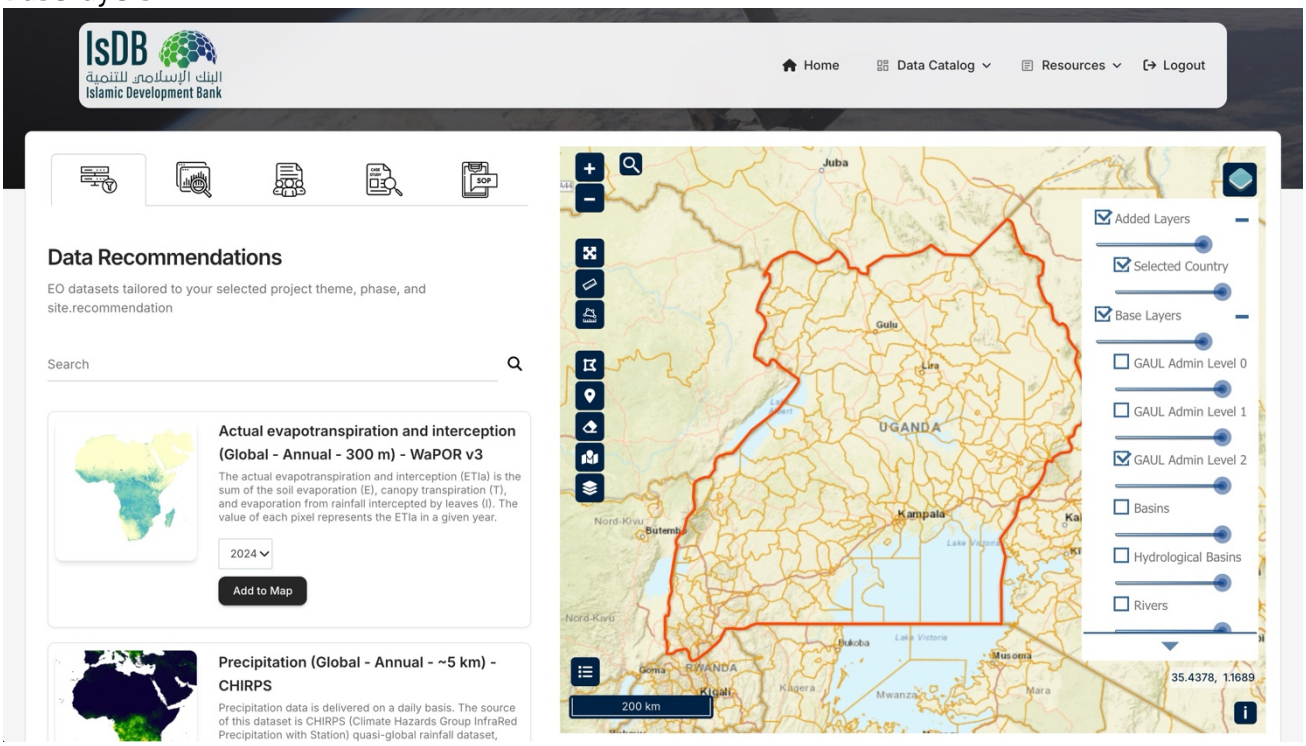
Precipitation data is delivered on a daily basis. The source of this dataset is CHIRPS (Climate Hazards Group InfraRed Precipitation with Station) quasi-global rainfall dataset,
Base layers
Toggle between basemaps, administrative boundaries, and your added layers.
17 of 17
Skip Tour
Done
Added Layers
Selected Country
Base Layers
Base Maps
Juba
Kampala
Eldoret
Kakamega
Kisumu
Nakuru
Nord-Kivu
Butembo
Bukoba
Lake Victoria
Musoma
Goma
RWANDA
Kigali
Kagera
Mwanza
Mara
200 km
X: 0, Y: 0

Base layers: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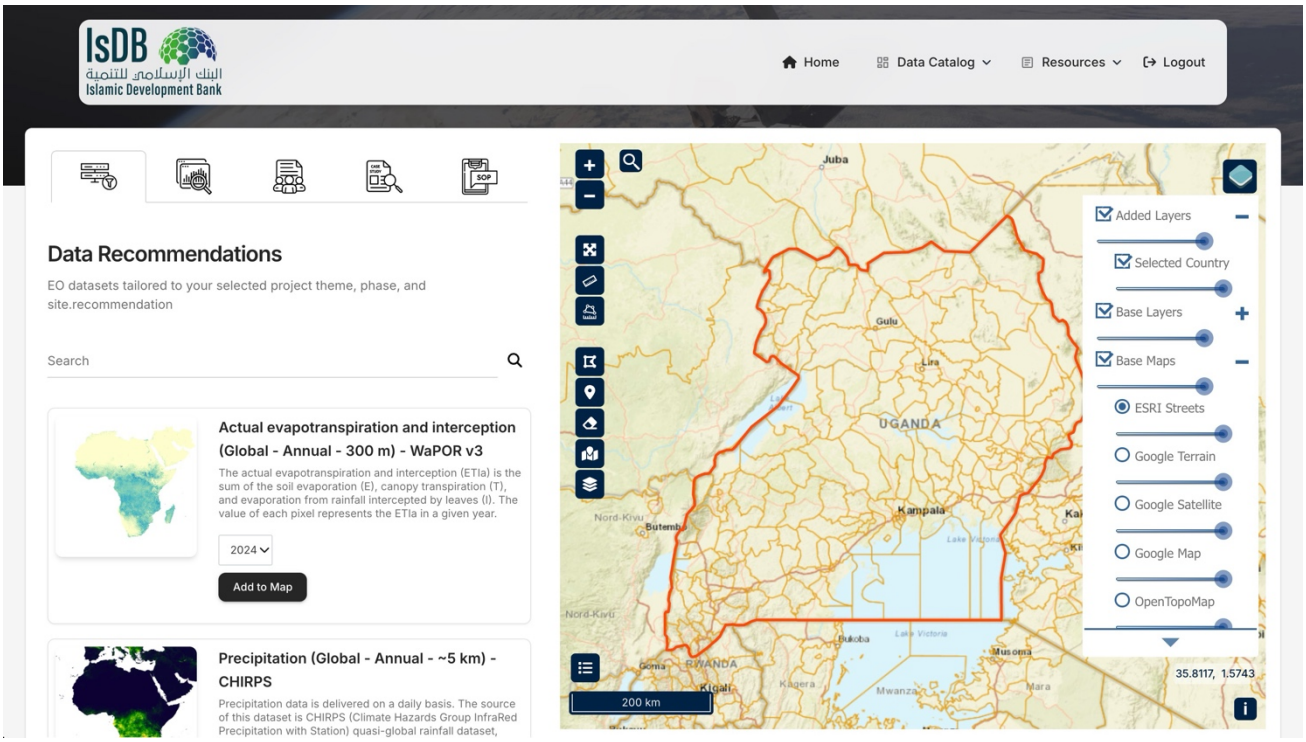
Added Layers
Selected Country
Base Layers
GAUL Admin Level 0
GAUL Admin Level 1
GAUL Admin Level 2
Basins
Hydrological Basins
Rivers
Juba
Gulu
Lira
UGANDA
Kampala
Nord-Kivu
Butembo
Bukoba
Lake Victoria
Musoma
Goma
RWANDA
Kigali
Kagera
Mwanza
Mara
200 km
35.4378, 1.1689

Base maps: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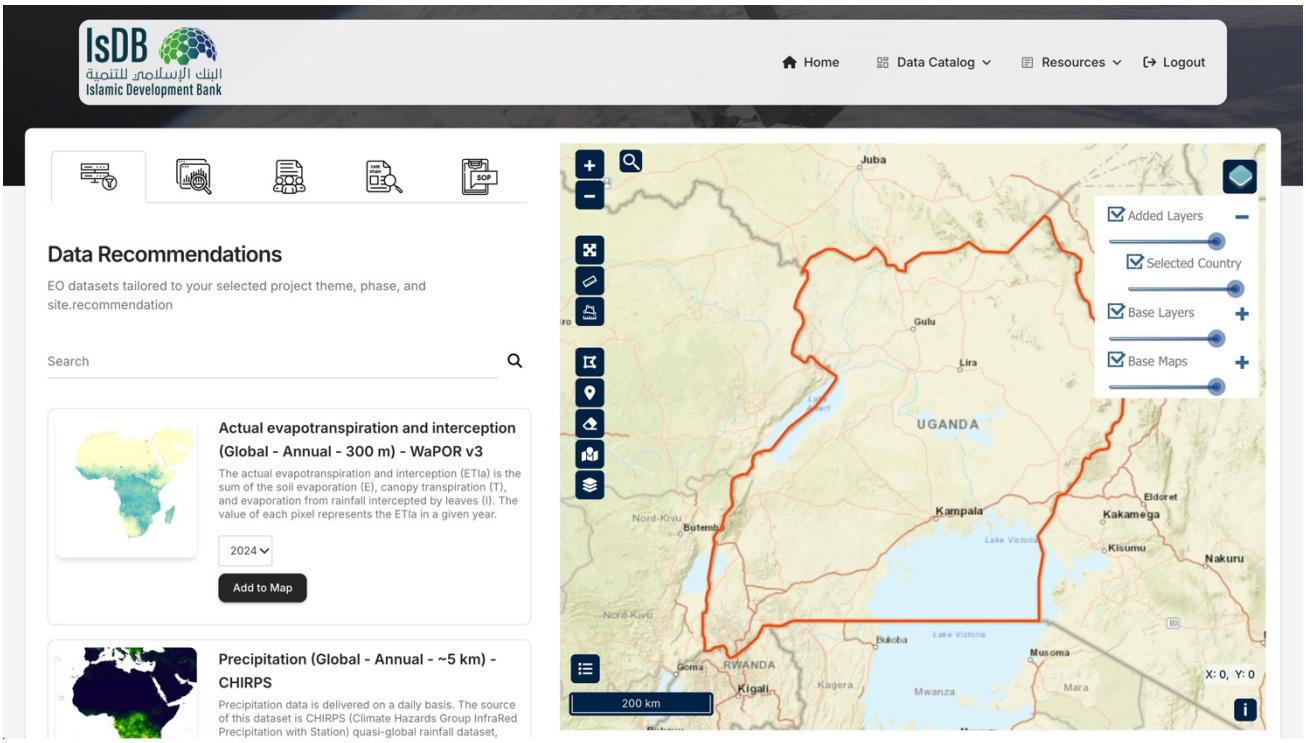
Juba
Gulu
Lira
UGANDA
Kampala
Nord-Kivu
Butembo
Lake Victoria
Bukoba
Musoma
Goma
RWANDA
Kigali
Kagera
Mwanza
Mara
200 km
35.8117, 1.5743
Added Layers
Selected Country
Base Layers
Base Maps
ESRI Streets
Google Terrain
Google Satellite
Google Map
OpenTopoMap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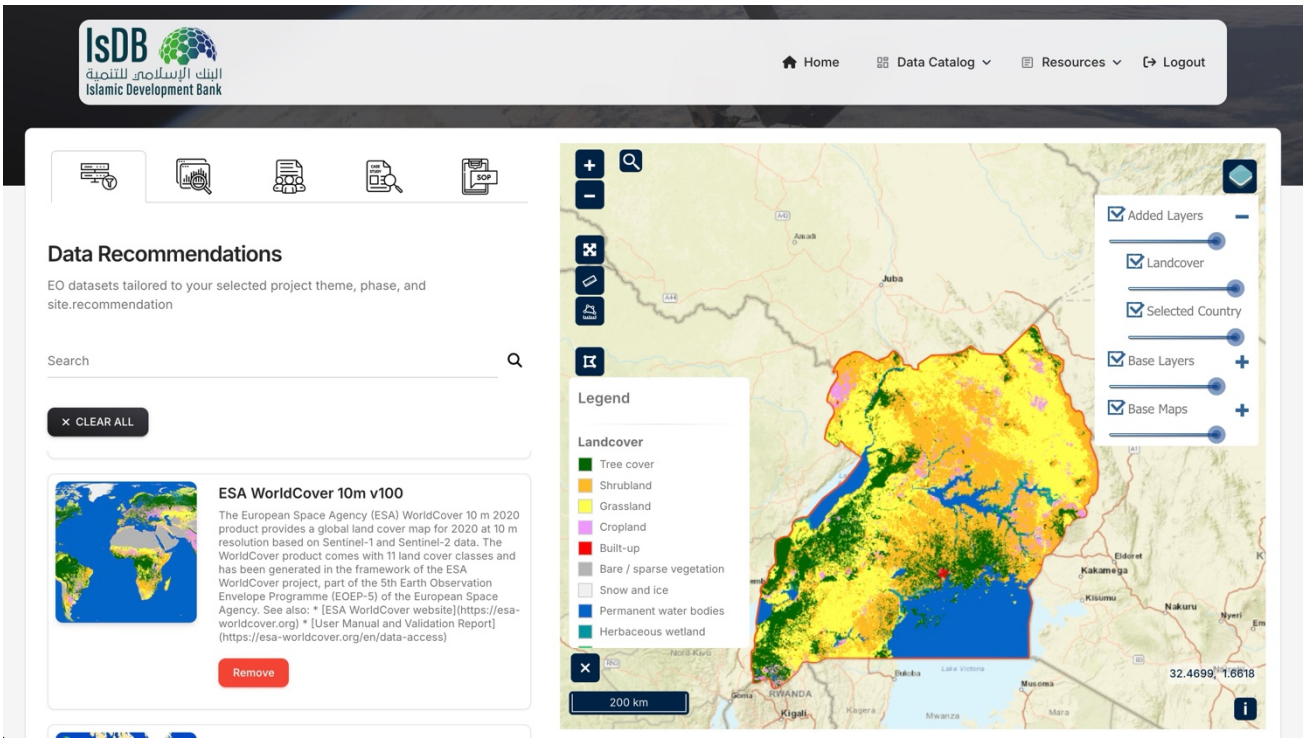
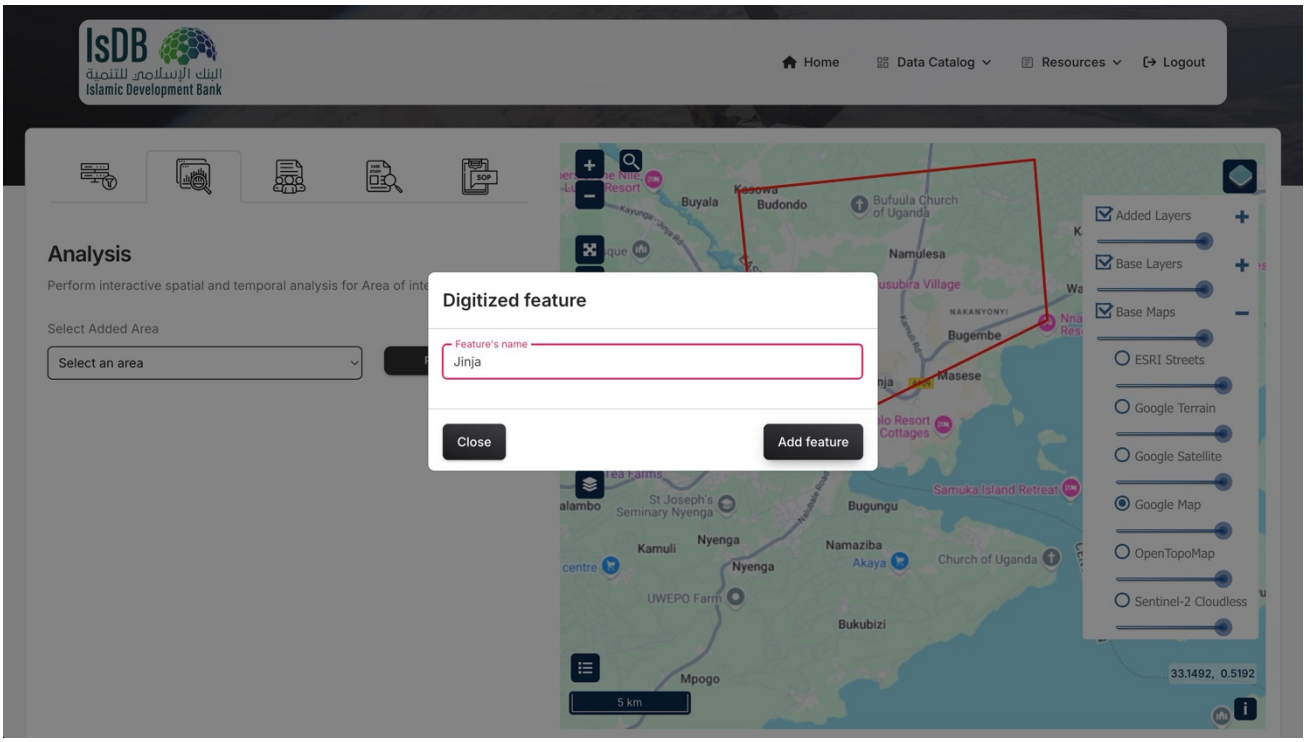
Gulu
Lira
UGANDA
Kampala
Eldoret
Kakamega
Kisumu
Nakuru
Nord-Kivu
Butembo
Lake Victoria
Bukoba
Musoma
Goma
RWANDA
Kigali
Kagera
Mwanza
Mara
200 km
X: 0, Y: 0
Added Layers
Selected Country
Base Layers
Base Maps

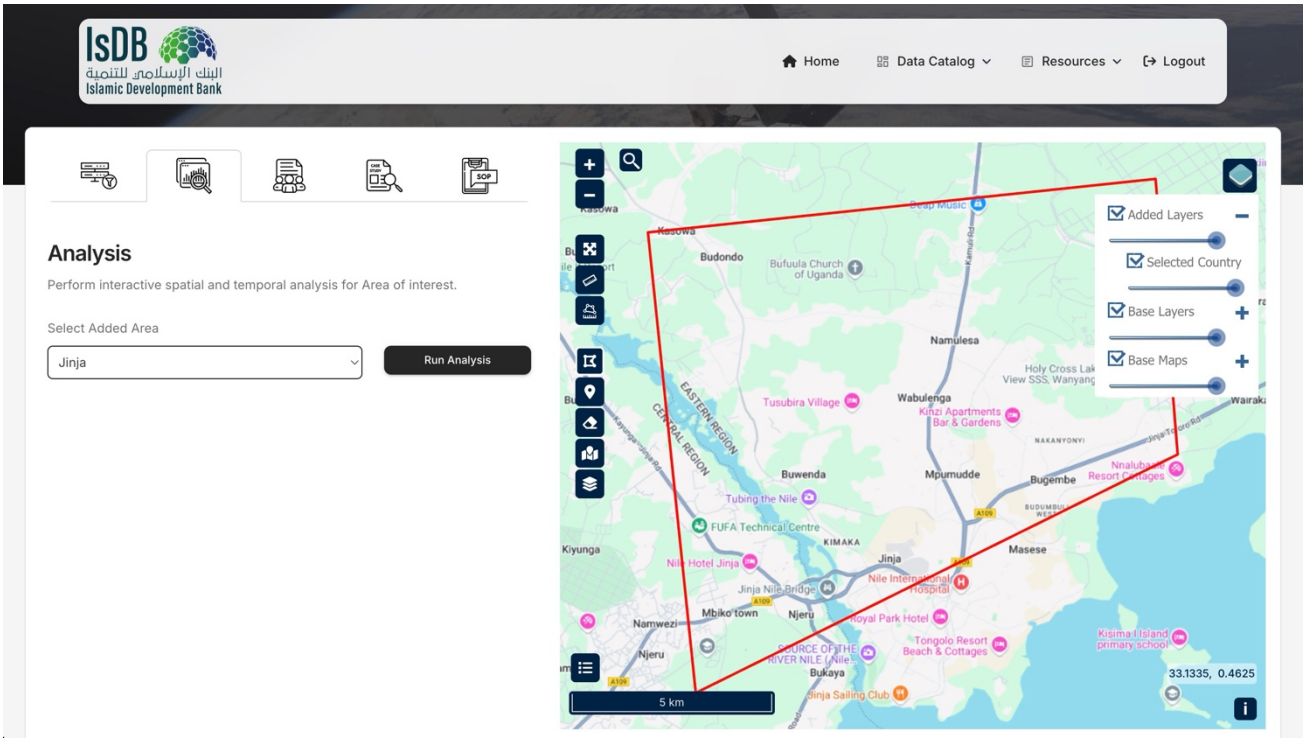
Add recommendation data to the map.

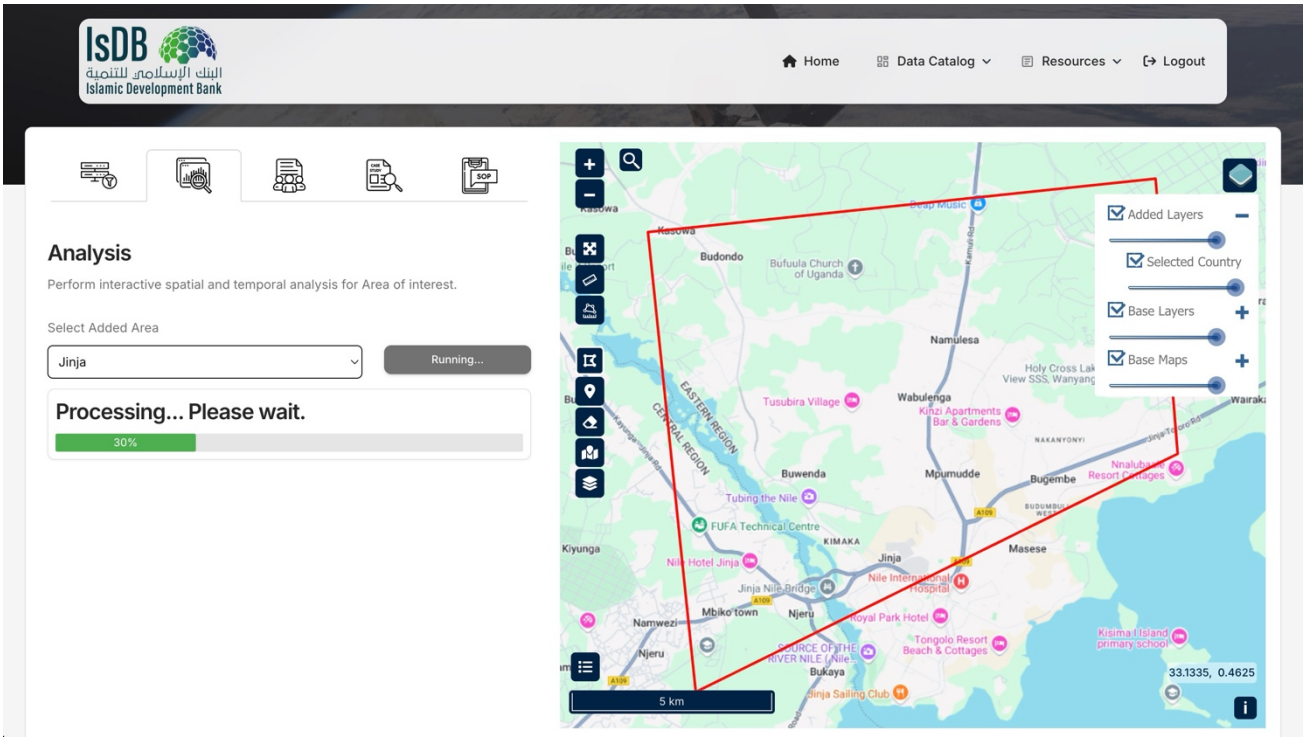


Draw your Area of Interest (AOI) and save:

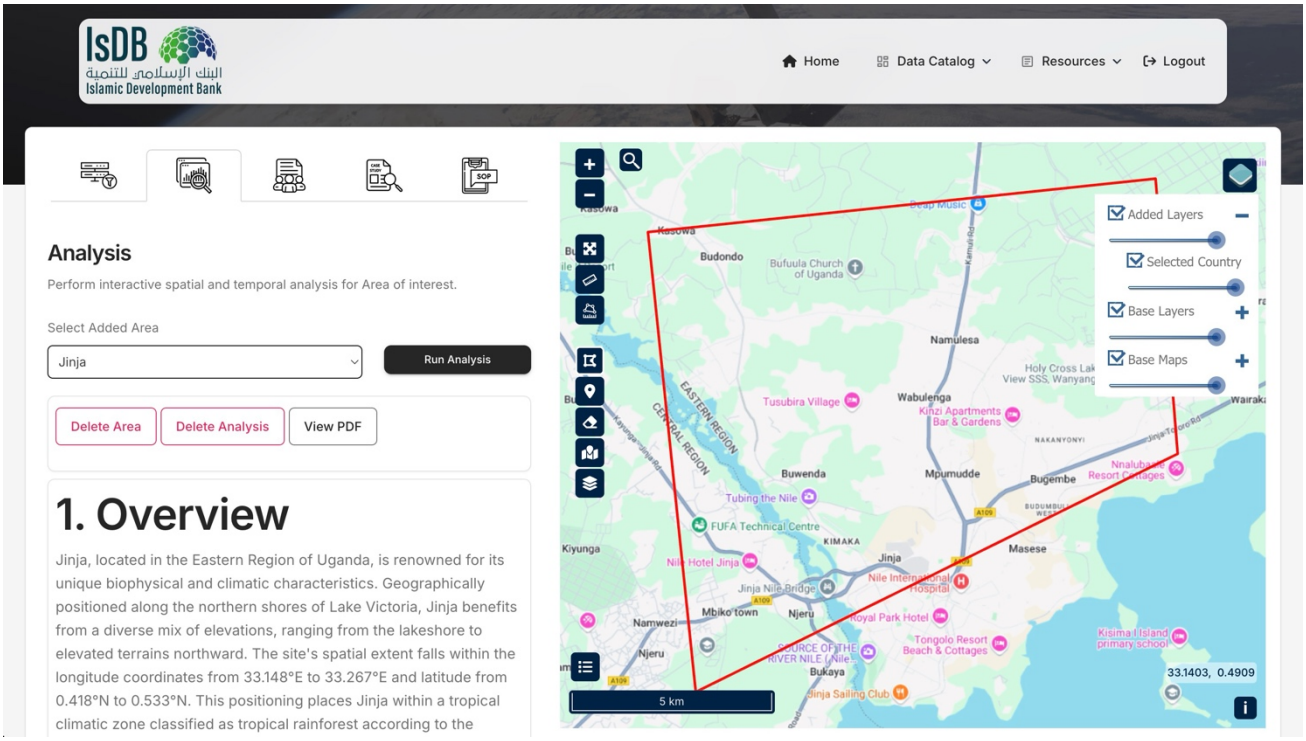


Select your area of Interest and generate the analysis. The analysis may take some time to complete, depending on the size of your selected area.





The analysis includes an overview and a summary of key insights, covering Land Use/Land Cover (LULC), precipitation and evapotranspiration trends, future climate change projections (rainfall and temperature), and AI-powered recommendations. You can export the full analysis as a downloadable PDF report.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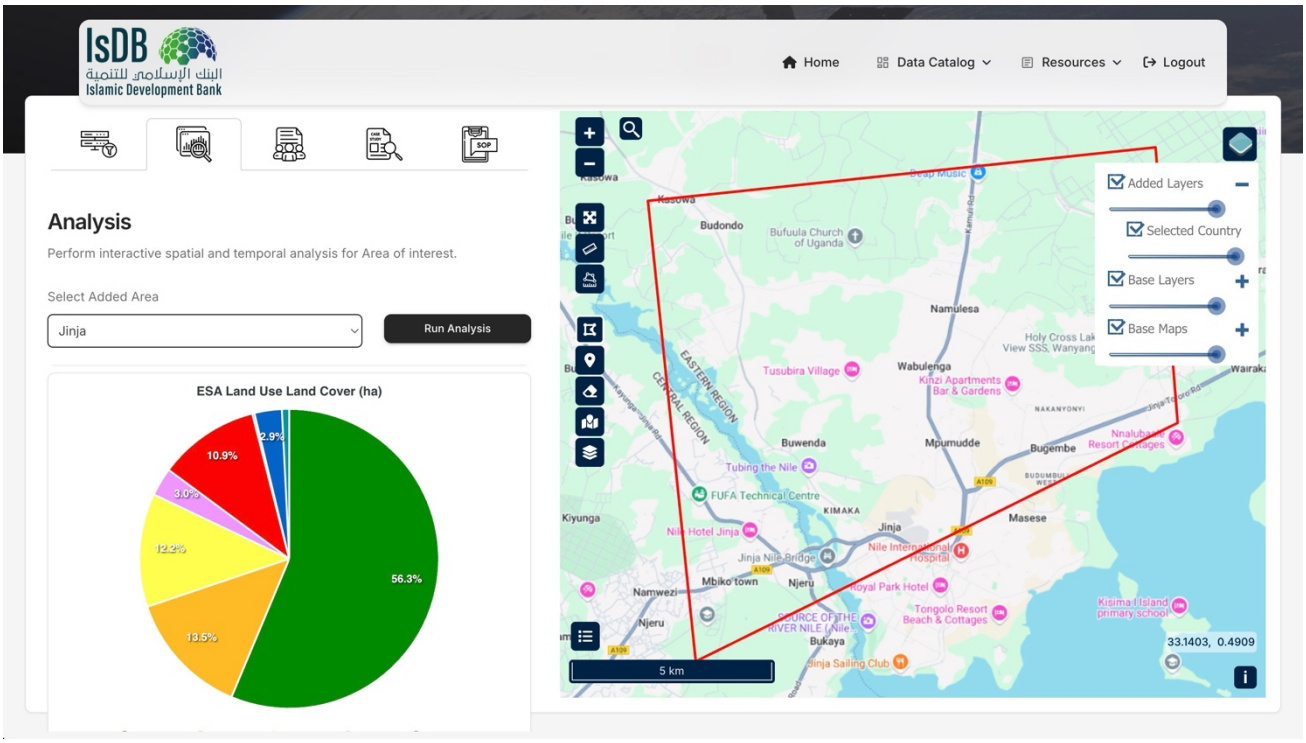
Analysis
Perform interactive spatial and temporal analysis for Area of interest.
Select Added Area
Jinja
Run Analysis
Delete Area
Delete Analysis
View PDF
1. Overview
Jinja, located in the Eastern Region of Uganda, is renowned for its unique biophysical and climatic characteristics. Geographically positioned along the northern shores of Lake Victoria, Jinja benefits from a diverse mix of elevations, ranging from the lakeshore to elevated terrains northward. The site's spatial extent falls within the longitude coordinates from 33.148°E to 33.267°E and latitude from 0.418°N to 0.533°N. This positioning places Jinja within a tropical climatic zone classified as tropical rainforest according to the
Added Layers
Selected Country
Base Layers
Base Maps
Kasowa
Budondo
Bufuula Church of Uganda
Namulesa
Tusubira Village
Wabulenga
Kinzi Apartments Bar & Gardens
EASTERN REGION
CENTRAL REGION
Buwenda
Mpumudde
Bugembe
Tubing the Nile
FUFA Technical Centre
KIMAKA
Kiyunga
Masese
Nile Hotel Jinja
Jinja
Nile International Hospital
Jinja Nile Bridge
Mbiko town
Njeru
Namwezi
Royal Park Hotel
Tongolo Resort Beach & Cottages
Bukaya
Jinja Sailing Club
5 km
33.1403, 0.4909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Analysis
Perform interactive spatial and temporal analysis for Area of interest.
Select Added Area
Jinja
Run Analysis
ESA Land Use Land Cover (ha)
2.9%
10.9%
3.0%
12.2%
56.3%
13.5%
Added Layers
Selected Country
Base Layers
Base Maps
Kasowa
Budondo
Bufuula Church of Uganda
Namulesa
Tusubira Village
Wabulenga
Kinzi Apartments Bar & Gardens
EASTERN REGION
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Namwezi
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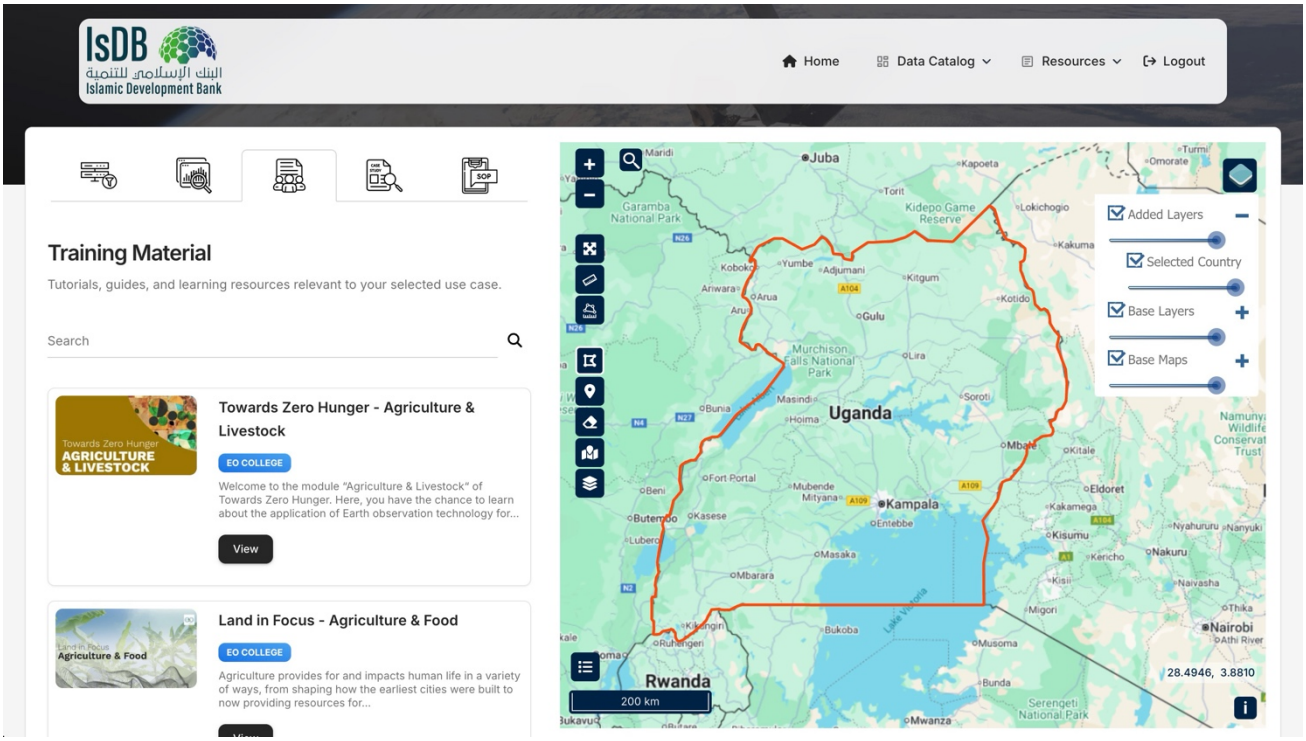
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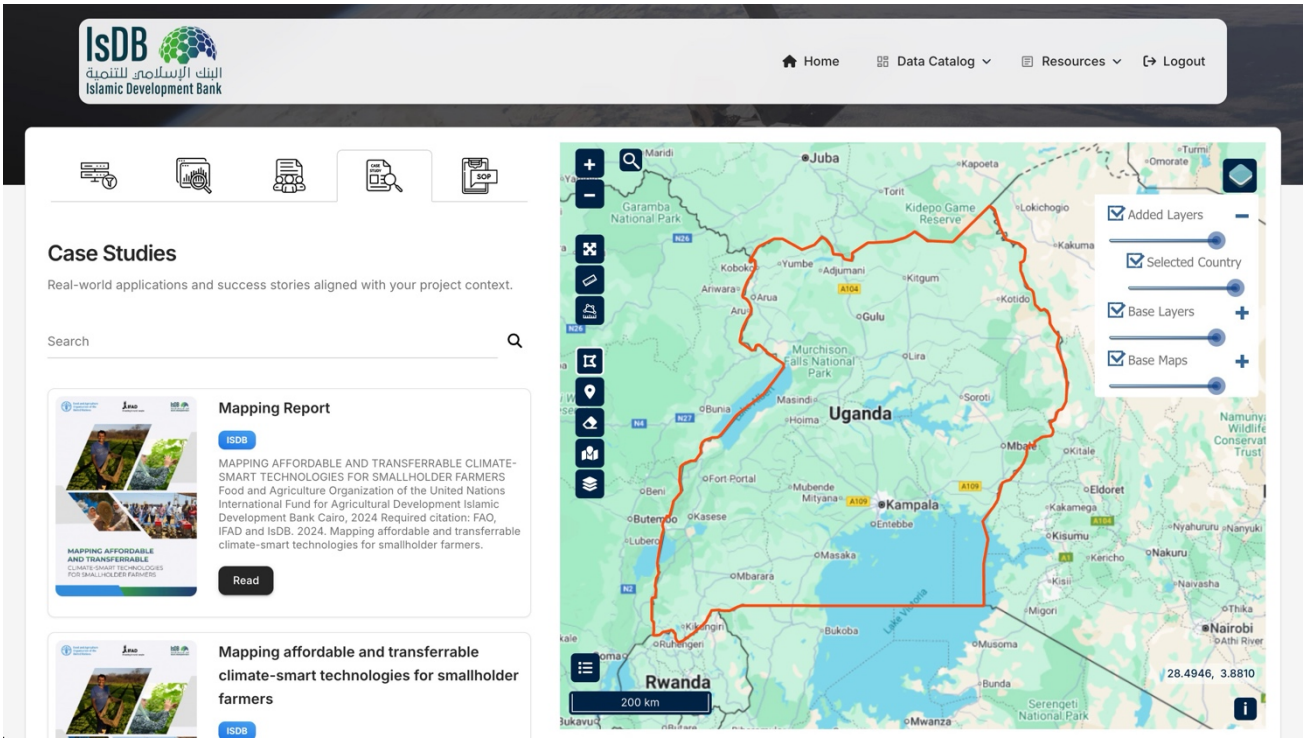
View
Land in Focus - Agriculture & Food
EO COLLEGE
Agriculture provides for and impacts human life in a variety of ways, from shaping how the earliest cities were built to now providing resources for...
Added Layers
Selected Country
Base Layers
Base Maps
Uganda
Rwanda
Kampala
Juba
Nairobi
200 km
28.4946, 3.8810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MAPPING AFFORDABLE AND TRANSFERRABLE CLIMATE-SMART TECHNOLOGIES FOR SMALLHOLDER FARMERS Food and Agriculture Organization of the United Nations International Fund for Agricultural Development Islamic Development Bank Cairo, 2024 Required citation: FAO, IFAD and IsDB. 2024. Mapping affordable and transferrable climate-smart technologies for smallholder farmers.
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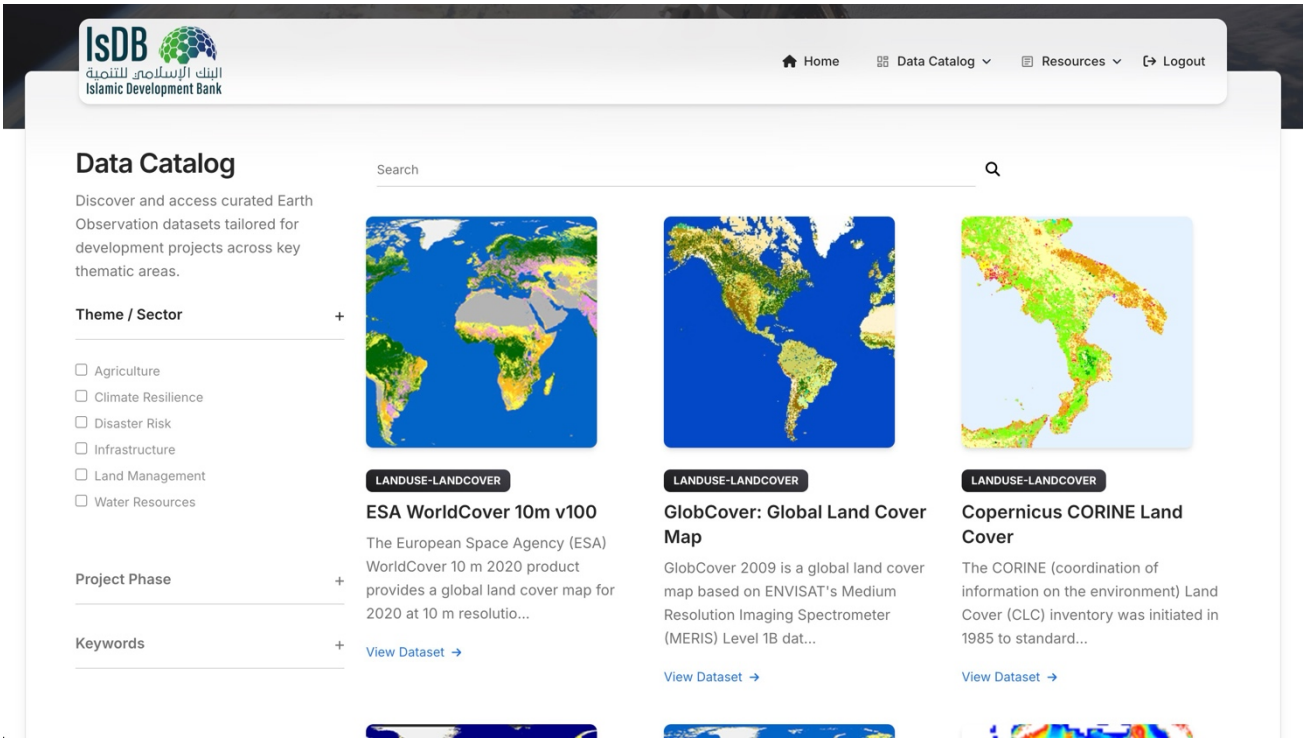
Mapping affordable and transferrable climate-smart technologies for smallholder farmers
ISDB
Added Layers
Selected Country
Base Layers
Base Maps
Uganda
Rwanda
Kampala
Juba
Nairobi
200 km
28.4946, 3.8810

Thematic Data Catalog:



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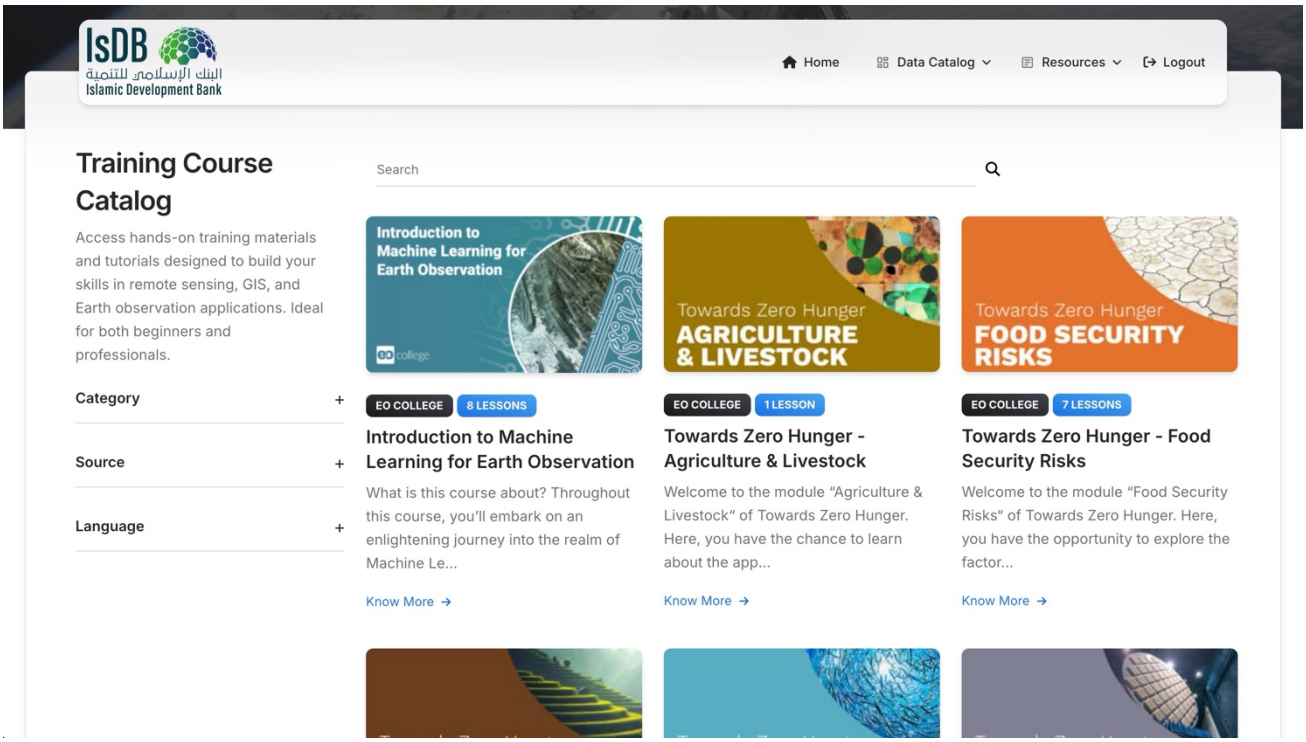

Case Studies Catalog: