Implementation of
Geonode for IGAD Program and Projects

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Scenario and requirements

IGAD Geoportal – Scenario and Requirements

- **Intergovernmental Authority on Drought and Development and Biodiversity**

- *"An integrated geoportal for IGAD's and Biodiversity Development Program resources"*

- **Thematic Data and Document catalog**
    - Thematic areas categorization
    - Data management by country and cross border areas
    - Harvesting and remote services hub

- **GeoNode Custom Application**
    - Custom template and models
    - Extended remote services (WMS, GeoNode, ArcGIS REST)
    - Metadata harvesting from GeoNode remote instances

IGAD Geoportal: A GeoNode Custom Project

- **GeoNode** cannot address all use cases
    - Avoid reinventing the wheel
    - Avoid implicit/explicit forks
- → **Custom GeoNode Applications** to the rescue!
- **A proper "GeoNode Project":**
    - It extends the "**vanilla**" GeoNode
    - It provides a **custom Django app**
    - It addresses specific use cases
- You develop something of general interest?
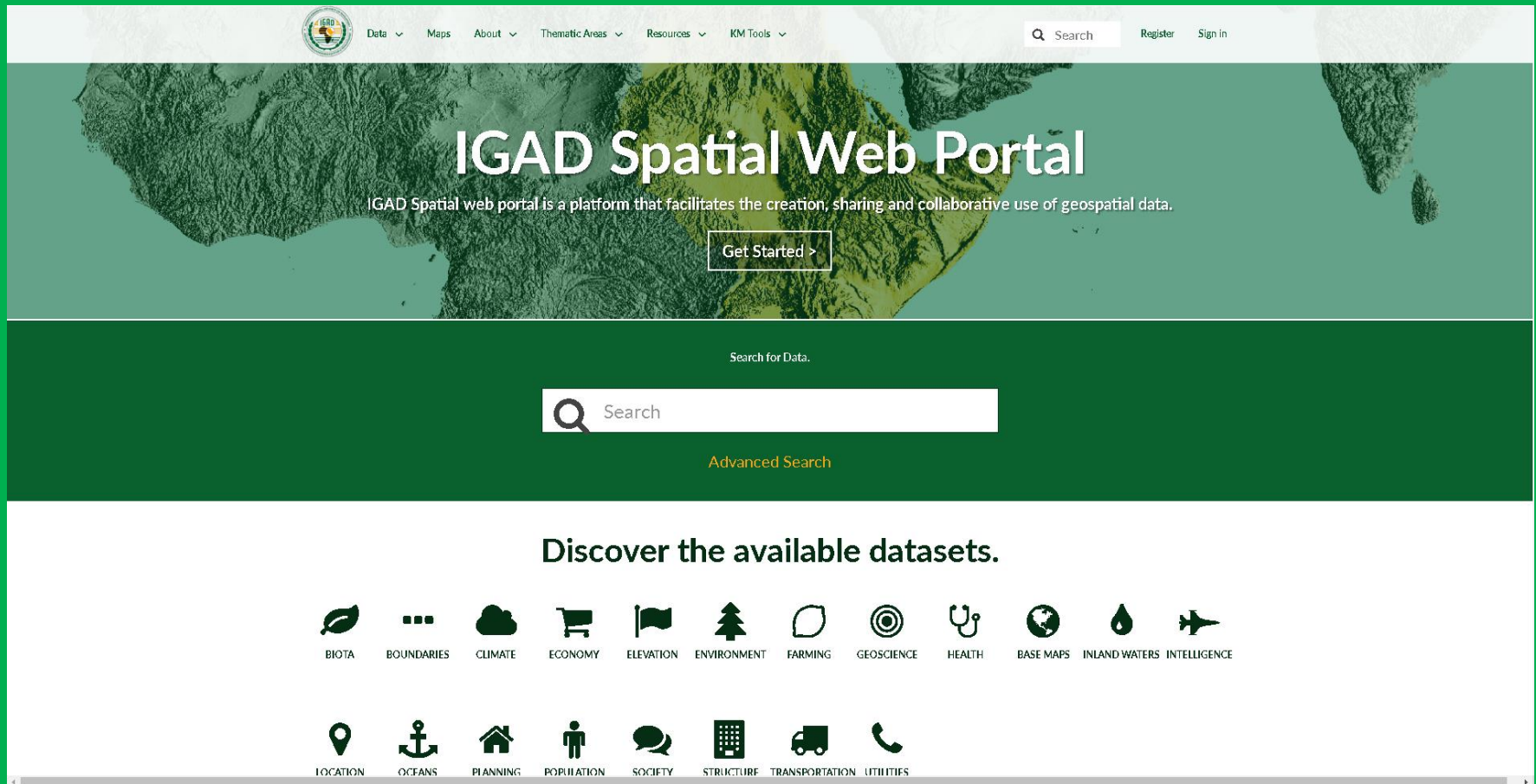   - Donate back to Core GeoNode!

GeoNode Most New Functionalities and Showcase

IGAD Geoportal – New Functionalities

http://igad.geonode.int

IGAD Geoportal – New Functionalities

http://igad.geonode.int

- ## Different types of Geospatial information, like:

  - ### Local Layers

  - ### Remote Services

  - ### Documents (e.g.: PDFs, plain images…)

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- **Each Entity has been enriched with further Metadata**

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- **Thematic Areas and Top Menus (e.g.: Biodiversity)**

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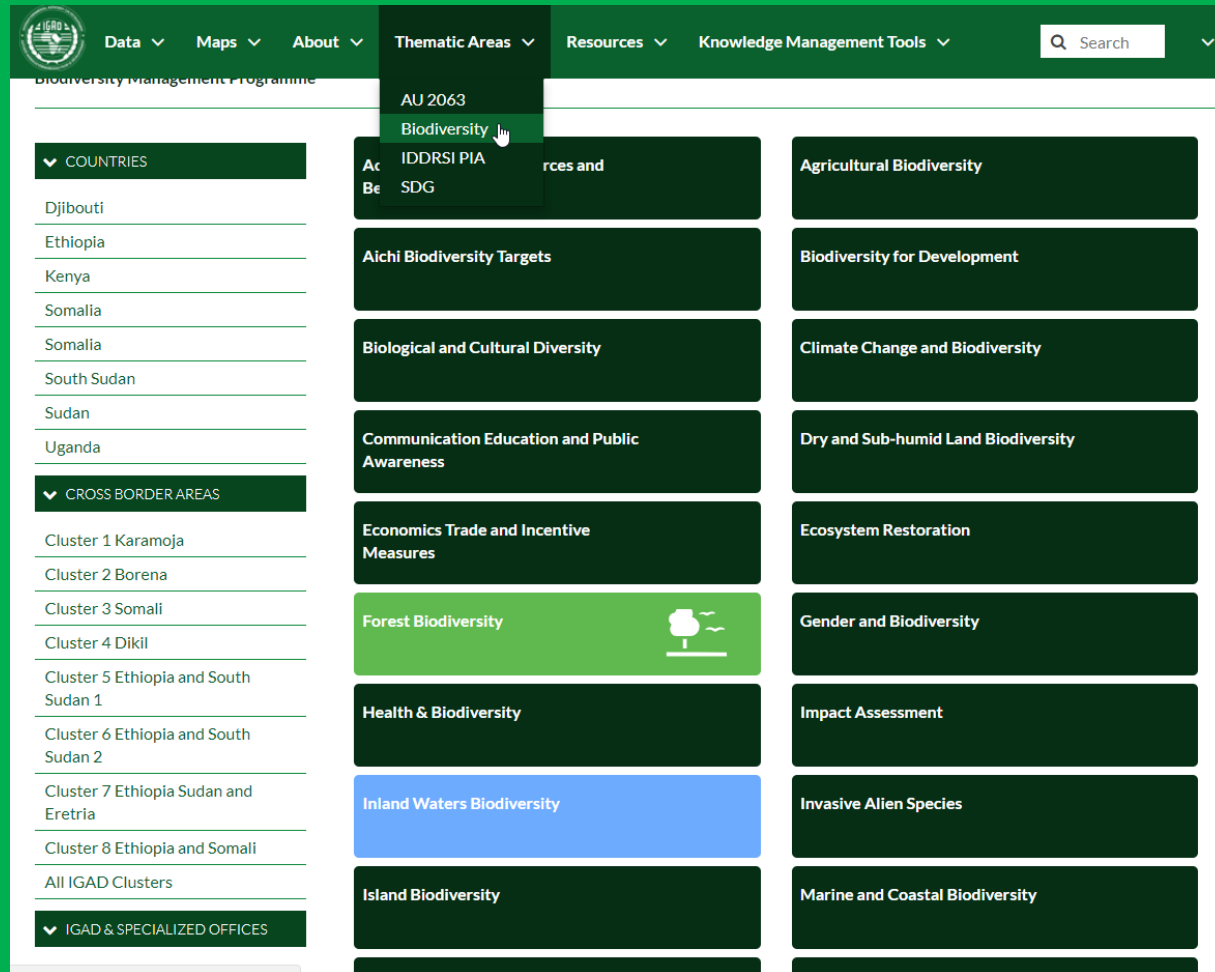
- ## Side Menus (e.g.: Cross Border Areas)

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- ## Fully Customizable Menus and Menu Items

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- ## You can Filter Data Either by Group…

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- **… and Hierarchical Keywords**

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- ## Filter by ISO Category and other Metadata Fields

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- ## MapStore Integration!

IGAD Geoportal – New Functionalities

- **MapStore Integration!**
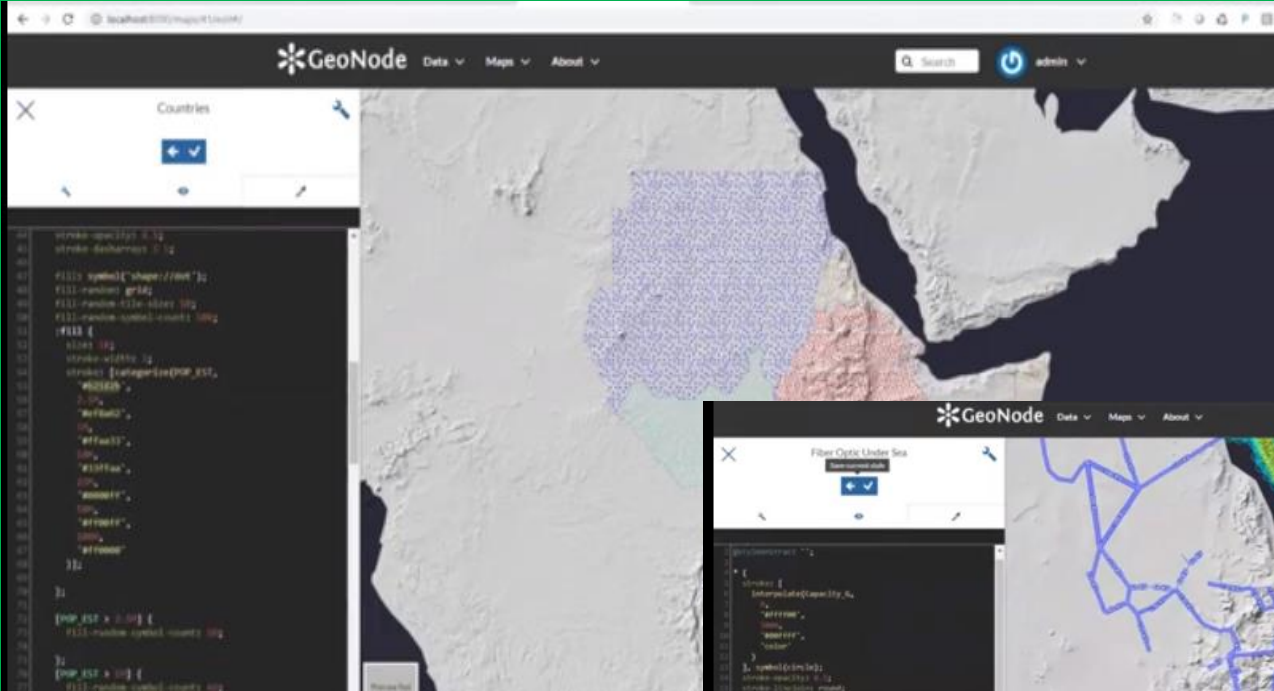
Advanced Styling using GeoCSS

IGAD Geoportal – New Functionalities

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- ## MapStore Integration!
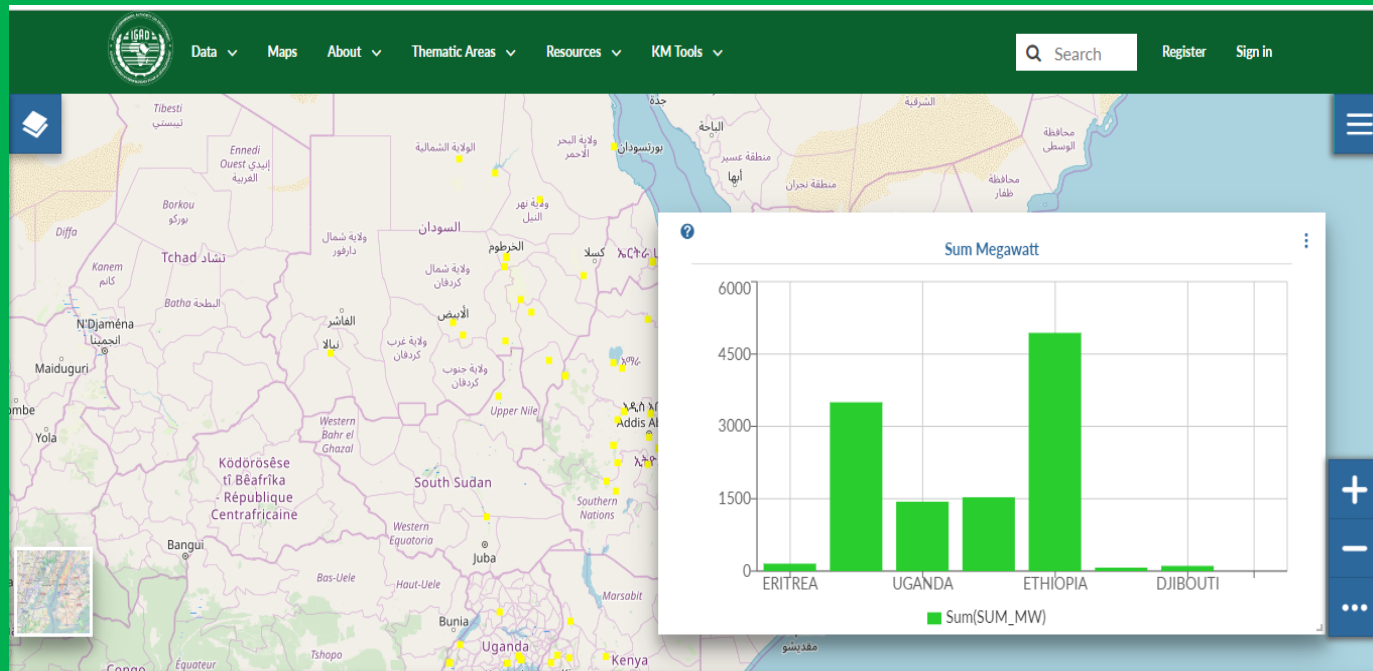
**Widgets to
create dynamic charts**

IGAD Geoportal – New Functionalities

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Improved Support for Remote Services

IGAD Geoportal – New Functionalities

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Time Series import from CSV

IGAD Geoportal – Deployment

http://igad.geonode.int
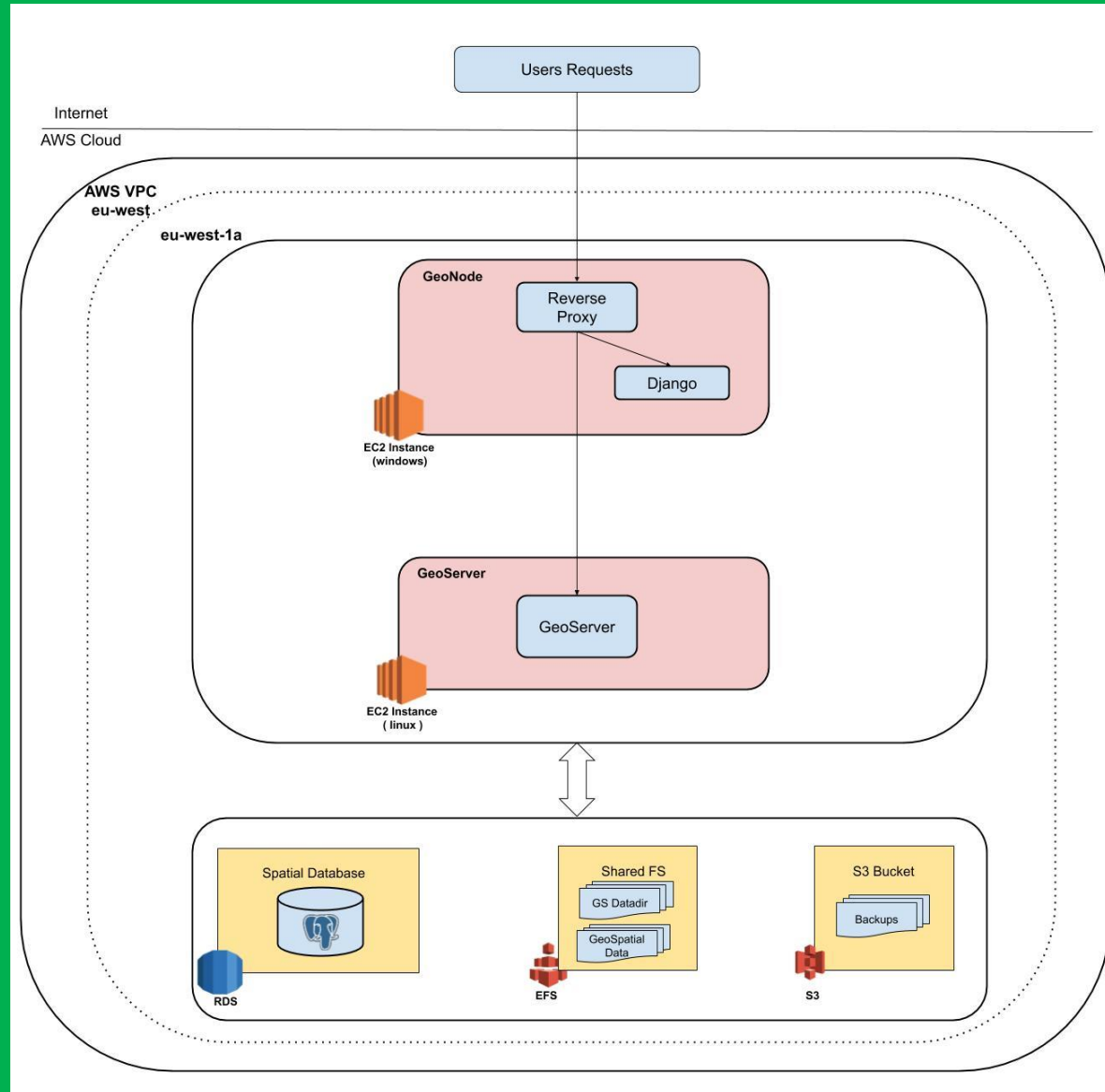
Challenges

What are the challenges?

- **Slow internet connection as the system requires strong connectivity**

- **Each uploaded information needs to be validated before publish to public**

- **Limited technical knowledge on the newly migrated Hosting platform (AWS)**

- **The GIS Working group is not active who suppose to contribute new maps / relevant information**

- **Working in silos within the IGAD institutions.**

What are the challenges?

- **Conducting QGIS training and linking it to geonode use when possible**

- **Organize a training on the new revised portal to GIS and KM working group**

- **Organize a training on various IGAD Cluster offices /projects**

- **Using the existing maps for spatial planning in selected areas**

- **Continue to upload relevant Maps on the platform**

Thank you!

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