



GEOPORTALS

@UNECA

Definition

- Web based gateway to geospatial resources
- Resources – metadata, web services, feeds
- It enables to discover, search, access, visualise and update geospatial information and services
- Resources can be made discoverable, viewable, and accessible to others as well.

Importance

- Geoportal applications are the front end part of the geoportal architecture, the one that the user will see, use and be able to gain access to the data they need through OGC services.

Geo Portal Generators

- Open Source
 - Open Layer
 - Geo Extension,
 - Leaflets
- Proprietary Software
 - ESRI ArcGIS Online
 - ERDAS Apollo

Architecture

- Spatial database - stores the data that will be delivered via OGC services within the geoportal. Example – Vector and Raster data
- **Geospatial Web Services** – provide data to the user via geoportal
- **Geospatial Metadata Catalogue** - provides the metadata of the data being provided through the geoportal. This is achieved by implementing appropriate standards to metadata provided in the spatial database



Geoportal Server

Suite of software modules that together allow an organization to build a custom geoportal that meet its style, resource needs, and use objectives

Provides seamless communication with data services that use a wide range of communication protocols, and also supports searching, publishing, and managing standards-based resources.

Server Software Modules

- Web application for publishing, administering, and searching resources
- A live data previewer map
- Data extraction service customization for downloading data
- Search results exposed through the REST API so resources can be easily shared among applications and users
- CSW Client, enable searching geoportal catalogs

Architecture Continued....

- **Gazetteer Service** - Gazetteer services offer the potential to search for geographic locations or places covered by a geoportal. The gazetteer is an extension of the WFS OGC standard which uses a location based feature dataset
- **Geoportal Application** - The geoportal application is the 'front-end' interface that the user can gain access to the OGC services providing the data stored in the spatial database. The geoportal application should have the ability to view, search and access geospatial data and/or metadata – should be compatible with different platforms

Architecture Continued....

- **Gazetteer Service** - Gazetteer services offer the potential to search for geographic locations or places covered by a geoportal. The gazetteer is an extension of the WFS OGC standard which uses a location based feature dataset
- **Geoportal Application** - The geoportal application is the 'front-end' interface that the user can gain access to the OGC services providing the data stored in the spatial database. The geoportal application should have the ability to view, search and access geospatial data and/or metadata – should be compatible with different platforms



ArcGIS online

Introduction

- ArcGIS Online is a complete, cloud-based mapping platform. Make and share beautiful maps, and do everything in between. It's possible only with ArcGIS Online, a scalable and secure software-as-a-service hosted by Esri.

Requirements

- Internet Connection
- Standard browser – Preferably chrome or Firefox
- Active ArcGIS online account
- Maps/Data Sources

Advantages

- Can be bundled with a default geoportal interface
- Out of the box solution
- Relatively easy to set up
- With appropriate training, easy and quick to us

Disadvantages

- Costs money
- Lacks customization options as compared to open source

Key Features

- Apps for Everyone
- Quality Content is Readily Available
- Visualization
- Analytics
- Geocoding

Implementation



Interface - General

The screenshot displays the UNECA interface with a navigation bar at the top containing links for Home, Gallery, Map, Scene, Groups, Content, and Organization. The user profile 'Pete' is visible in the top right corner. Below the navigation bar is a blue header with the UNECA logo and name. A row of management actions includes EDIT SETTINGS, INVITE MEMBERS, VIEW STATUS, VIEW SYSTEM HEALTH, and MANAGE LICENSES. The 'Members' section features a dropdown menu set to 'Current Members' and a search box labeled 'Search for Name...'. Below these elements is a table header with columns for Name, Username, Last Login, Level, Role, and Action.

Home Gallery Map Scene Groups Content Organization

Pete

United Nations Economic Commission for Africa

EDIT SETTINGS INVITE MEMBERS VIEW STATUS VIEW SYSTEM HEALTH MANAGE LICENSES

Members

Viewing:

▲ Name	Username	Last Login	Level	Role	Action
--------	----------	------------	-------	------	--------

Interface - Settings


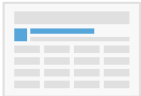
SAVING CANCEL

- General
- Home Page
- Gallery
- Map
- Items
- Groups
- Utility Services
- Roles
- Marketplace
- Credits
- Security
- Open Data

General

Represent and describe your organization. You can also set the default language for ArcGIS Online's user interface and the default basemaps and units that users see.

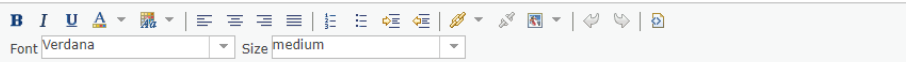
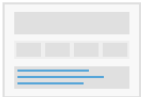
Organization Logo and Name



Click to change thumbnail

Organization Name


Organization Description



Font Verdana Size medium

Show description toward bottom of Home Page


Organization Summary



Enter a brief summary to describe your organization on the sign in page associated with its custom apps and sites. This summary has a maximum of 310 characters.

310 characters left.

Language



Please choose the default language for members of your organization. The choice of language determines the language in which the user interface is presented as well as the way time, date, and numerical values appear. Individual members will be able to customize this choice by visiting their profile page. If you choose Browser Default (and you allow anonymous access), anonymous users will see ArcGIS Online in the locale of their browser. Signed-in users who have configured their language in their profile will display in that language.

Interface - Content

Home Gallery Map Scene Groups Content Organization Peter

Content

My Content My Favorites My Groups My Organization Living Atlas

+ Add Item

Folders

- All My Content
- PeterNjagi
- ICT-Stats
- Images
- Survey-Census Survey

> Categories

> Item Type

> Date Modified

> Date Created

> Shared

> Status

Search All My Content

1 - 16 of 49 in All My Content Sort by: Date Modified

<input type="checkbox"/>	Title			Modified
<input type="checkbox"/>	TweetsECA	Web Mapping Application		Jan 9, 2017
<input type="checkbox"/>	WebMap	Web Mapping Application		Jan 9, 2017
<input type="checkbox"/>	3d Test	Web Mapping Application		Dec 1, 2016
<input type="checkbox"/>	Addis Notes	Web Map		Nov 2, 2016
<input type="checkbox"/>	Addis Ababa Collector	Feature Layer (hosted)		Nov 2, 2016
<input type="checkbox"/>	ECA Staff	Web Mapping Application		Nov 2, 2016
<input type="checkbox"/>	Crowd Source	Web Map		Nov 2, 2016
<input type="checkbox"/>	crowdSource	Feature Layer (hosted)		Nov 2, 2016
<input type="checkbox"/>	Map tools	Web Mapping Application		Nov 2, 2016
<input type="checkbox"/>	ICT	Web Scene		Nov 2, 2016
<input type="checkbox"/>	Visualisation	Web Mapping Application		Nov 2, 2016
<input type="checkbox"/>	ECA Tweets	Web Mapping Application		Oct 19, 2016
<input type="checkbox"/>	Africa Tweets	Web Map		Oct 19, 2016
<input type="checkbox"/>	UNECA Statistical Indicators - African Centre for Statistics	Web Mapping Application		Oct 11, 2016



REFERENCES



THANK YOU