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 use
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

A System for Managing and Applying Geographic Information

Deployable On-Premises, Online and Hybrid

Services Based

Open
### 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**

![Logo](image)

**Organization Name**

Test

**Organization Description**

```
Font: Verdana  Size: Medium

Click to change thumbnail
```

- 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.

![Language](image)
REFERENCES
THANK YOU