**Web GIS for Natural Disaster Mitigation Management and Rehabilitation**

Contents
1. What is Web GIS
2. Web GIS for Natural Disaster
   - Mitigation
   - Management and
   - Rehabilitation
3. How to set up a Web GIS

Geoportals (Management, Rehabilitation)

Geoportals also referred to as a spatial portal, is a web site that provides a single point of access to geospatial data, web services, and other geospatially related resources.

Put more simply, a geoportal is a web site where geospatial resources can be discovered

Geoportal Architecture
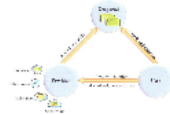
Geoportal Uses

Essential Information to put on a Geoportal
 - Geodetic control
 - Ortho-imagery
 - Elevation
 - Transportation
 - Hydrography
 - Governmental Units
 - Cadastral Information

Geoportal Examples

How to setup a Geoportal

Geospatial Mashups

The mashup, a hallmark of web 2.0, is a genre of interactive web applications that seamlessly integrate content retrieved from diverse web based resource to create innovative applications
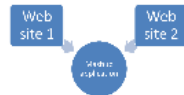
A geomashup is a mashup where at least one of contents or functions is geo-referenced

Geomashup Example

PPGIS - Public Participation GIS
Urban Sensing
Crowd Sourcing

Geocollaboration

Geocollaboration or collaborative GIS means a group of people using GIS technology to create a collaborative working environment to complete the same task
 - Spatially the collaborators can be either colocated or remotely located
 - Temporally, the collaboration can happen synchronously (in real time) or asynchronously (at different times)

Geocollaboration Example

Sensor Networks

A sensor network is a spatially distributed autonomous sensors to monitor physical or environmental conditions

How to setup a Web GIS

Q & A

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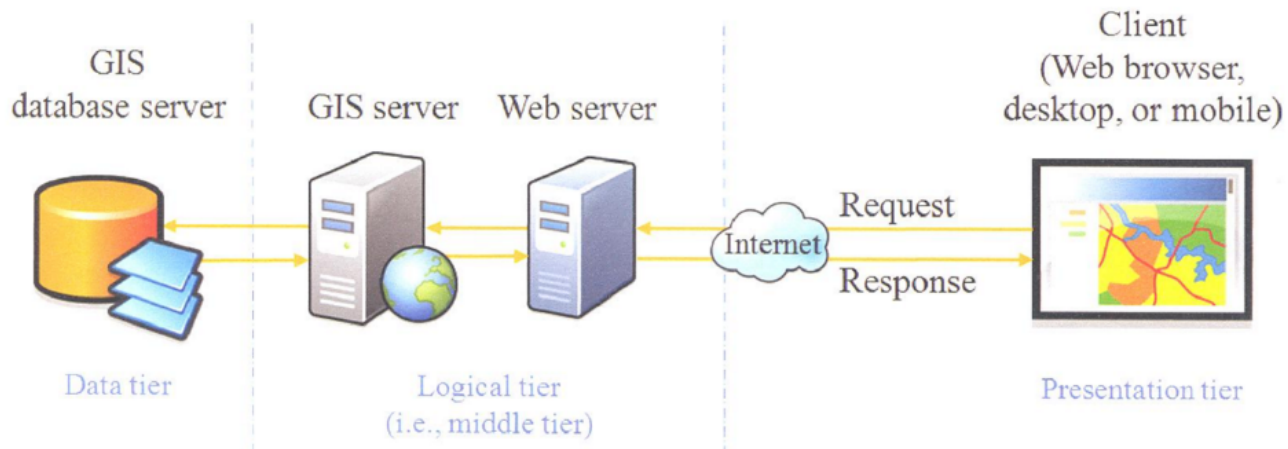
3. How to set up a Web GIS

Web GIS is any GIS that uses Web technology to communicate between components
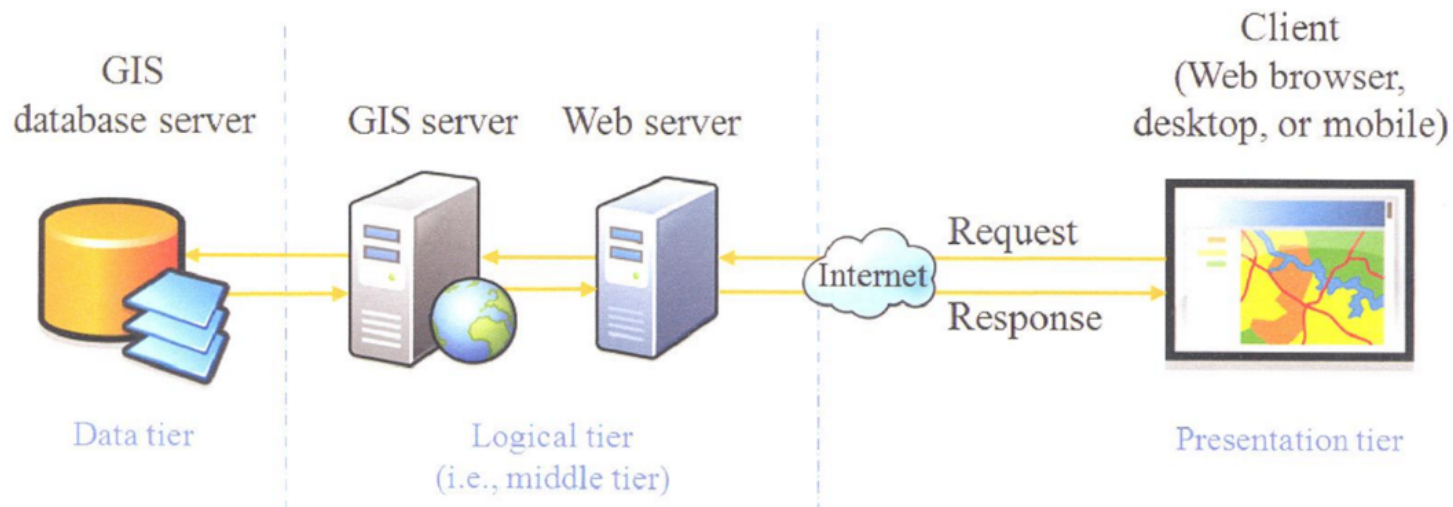
Thin Client Web GIS Systems

Thick Client Web GIS Systems

Traditional applications of Web GIS for NDMMR

Introduction to new Web GIS technologies

- **Geoportals**
- **Geomashups**
- **PPGIS / VGI**
- **Sensor Networks**

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