

## **WEB** MAPPING

Web has changed every aspect of our life from our daily activities to our professional activities. Among these changes, GIS has been affected by the evolving web technology leading to Web or Internet GIS.

Today, majority of Internet users are using the web technology whether from desktop or mobile devices e.g. to finding hotels and addresses in an unfamiliar city using online web maps, to locate your location using your phone GPS system or finding your path.

### Objectives

Web mapping is the process of using maps delivered by geographical information systems (GIS) on the internet through client- server architecture.

Web mapping usually involves a web browser to consume services. These services include serving interactive maps, GIS data and location based services.



The goal of this training course is to introduce users to the concept of web mapping.

It will focus on Web Mapping Technology, its architecture, application and tools.

Participants will learn how prepare and share geographic information so that it can effectively be used by colleagues, decision-makers, and non-GIS audiences.

### Audience

The expected participants are GIS professionals, cartographers or other technical personnel who have background in computer applications and the internet.

# Course Outline

This course will cover the following topics

## Day One

Web GIS Basics  
Basics of Web GIS Architecture  
Web Services and Mashups  
An introduction / Review of ArcGIS Online



## Day Two

Basics of Web programming and development:  
HTML, JavaScript and CSS.

## Day Three

Spatial Databases: Postgres-Postgis spatial  
database

## Day Four

Publishing map services on Geoserver

## Day Five

Consuming map services and sharing data:  
Introduction to open source and proprietary  
web mapping API's and scripting environments.

## Software/Applications to be used

Text editor / Notepad++  
Qgis v 2.8+  
Postgres  
Tomcat  
Geoserver  
ArcGIS (Desktop & Server where applicable)

***NB: The training will be delivered through presentations,  
live demos and practical sessions.***