APPLICATION OF GIS ANALYZES WITH CLOUD COMPUTING

Sevket BEDIROGLU, Volkan YILDIRIM and Selcuk ERBAS  
(Turkey)  
Karadeniz Technical University Geographic Information Systems Laboratuary  
GisLab

WHAT IS CLOUD COMPUTING (CC)?

Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction (NIST).
Cloud computing is a term used to refer to a model of network computing where a program or application runs on a connected server or servers rather than on a local computing device such as a PC, tablet or smartphone. (Otey, M., 2011)

The difference with cloud computing is that the computing process may run on one or many connected computers at the same time, utilizing the concept of **virtualization**.

With virtualization, one or more physical servers can be configured and partitioned into multiple independent "virtual" servers, all functioning independently and appearing to the user to be a single physical device. (EMA, 2013)
ADVANTAGES, DISADVANTAGES...

What is Cloud Computing?
Are you ready for GIS in the Cloud?

Geographic Features

Graphic and Tabular GIS Datasets
WHAT IS SPATIAL CLOUD COMPUTING (CLOUD GIS)?

* Working interoperable
* Easy access, fast update
* Access to huge datasets
* Easy applicable, enjoyable
  ex: buffering grandmom
WORLD CUP 2014-BRAZIL

TORNADO DASHBOARD FOR DECADES
TERRESTRIAL ECO REGION MAPS

APPLICATION....
Creating Datasets In Desktop or Cloud
TURKEY SPATIAL DATASET ON CLOUD

XXV International Federation of Surveyors Congress, Kuala Lumpur, Malaysia, 16 – 21 June 2014

ATTRIBUTE QUERY ON CLOUD

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PERFORMING ANALYZE

GIS ANALYZE ON CLOUD

XV International Federation of Surveyors Congress, Kuala Lumpur, Malaysia, 16 – 21 June 2014
RESULT OF ANALYZE

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CLOUD PROJECTS DONE BY KTU GISLAB

- I- Ancient Silk Way and Caravan Way Presentation Project with CC
  Funder: Turkey Nature and Habitat Group
  www.gislab.com.tr/kervan2

- II- Presentation of Agriculture Events in Giresun/Eynesil, with CC
  Funder: Giresun Local Administrative
  www.gislab.com.tr/eynesil

- III- Detection and Presentation of Tourism Events with CC Technology
  http://www.gislab.ktu.edu.tr/trb/

- IV- Natural Gas Pipeline Detection Project (just presentation of final layers)
  http://www.gislab.ktu.edu.tr/tubitakraster/index.html
  Funder: Turkey Scientific and Technics Research Organization
References

- www.javatpoint.com
- www.thoughtsoncloud.com
- http://www.critigen.com/solutions/arcgis-online-fasttrack
- http://www.esri.com/
- GrazziInteractive
- www.stat.ucla.edu

THANKS…

FIRSTLY TO ALL AUDIENCE IN THIS SESSION

KTU GISLAB RESEARCHERS IN TURKEY

Research Assistant Şevket Bediroğlu/2014
WITH THE HOPE OF MEETING AT TURKEY FOR FIG 2018