Development of an Integrated Information Platform for Rural Regeneration Using WebGIS and Web Services

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May 7, 2012

www.gis.tw

Outlines

- Rural Regeneration
- Problem Statements
- System Architecture
- System Demo
- Conclusion & Future Work

Rural Regeneration

- City
  - More Job Opportunities
  - More Facilities and Convenience for Life
  - Highly Populated

- Countryside
  - Most people are elders and children
  - Labor Shortage
  - Tardy Development

Rural Village Regeneration

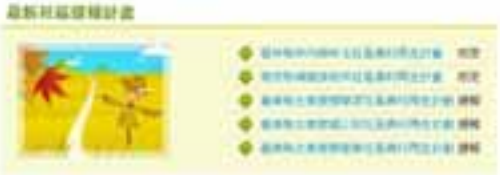
- Rural Regeneration Act
  - Passed in 2010
  - Infrastructure Rehabilitation
  - Village Feature Finding & Creation
- Our Project
  - Sponsor: Soil and Water Conservation Bureau, Taiwan
  - Goal: To Establish an Integrated Information Platform
  - Users: All Village Regeneration Planners supported by the Act
  - Solution: ArcGIS Server & Web Services

Problem Statements

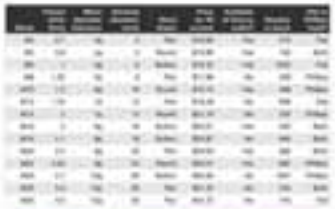
- Too many different Systems

Surf to System A on Browser →

Surf to System B on Browser →



Surf to System C on Browser →



Surf to the Spatial Data Warehouse to apply the map and download the map →

Problem Statements

- The legacy Systems

I am System A,
I'm two years old.
I am developed by
PHP and MySQL

I am system B, I'm
five years old. I am
developed by ASP
and MSSQL

I am System C, I'm
seven years old. I
am developed by
ASP and Oracle

I am system D, I'm
one year old.I am
developed by .NET
and MSSQL

- Spatial Data but non-spatial Display

Our Origin, Our Hometow

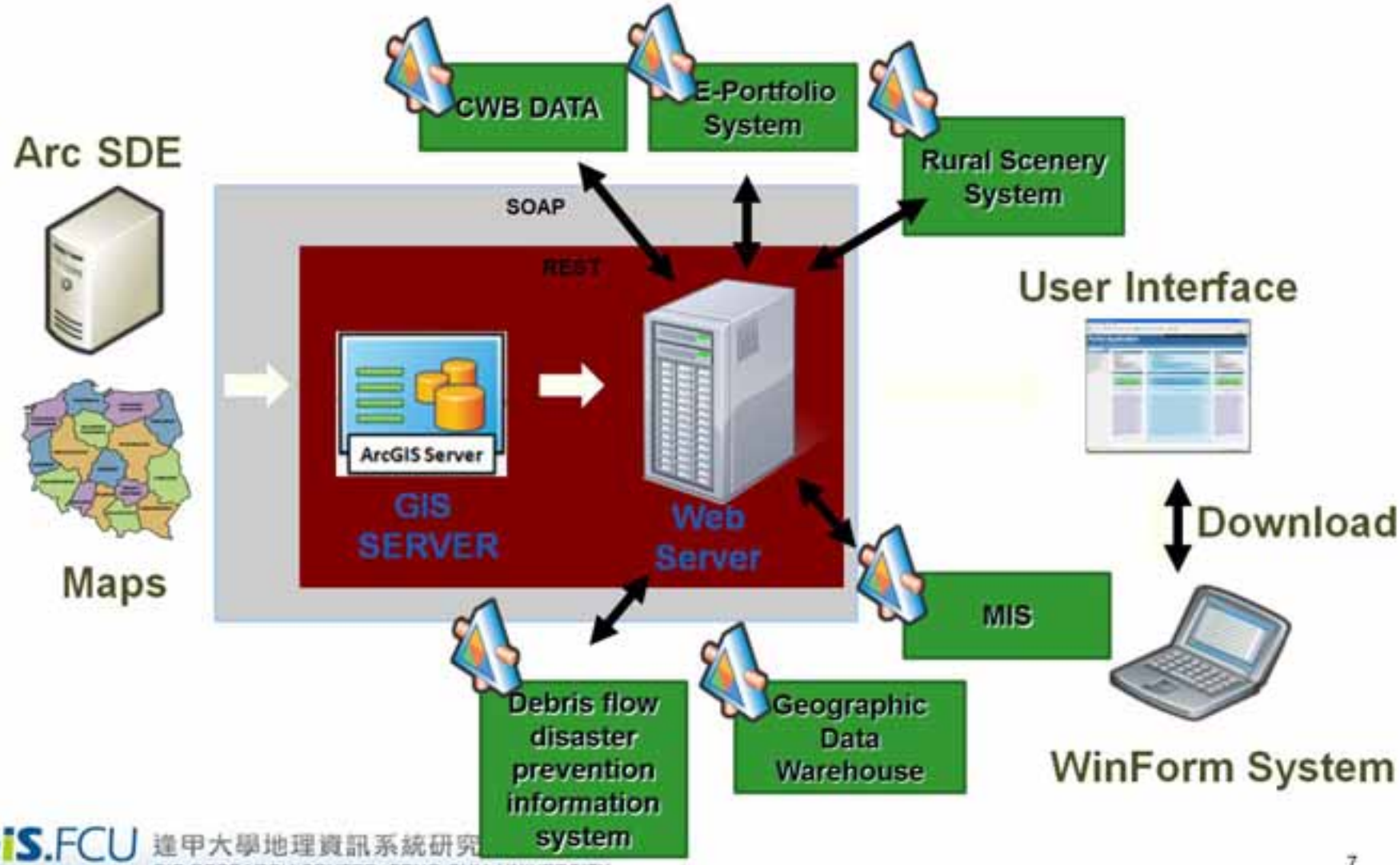
Huashan Village, GuKeng Township,
Yunlin County

Where it is?

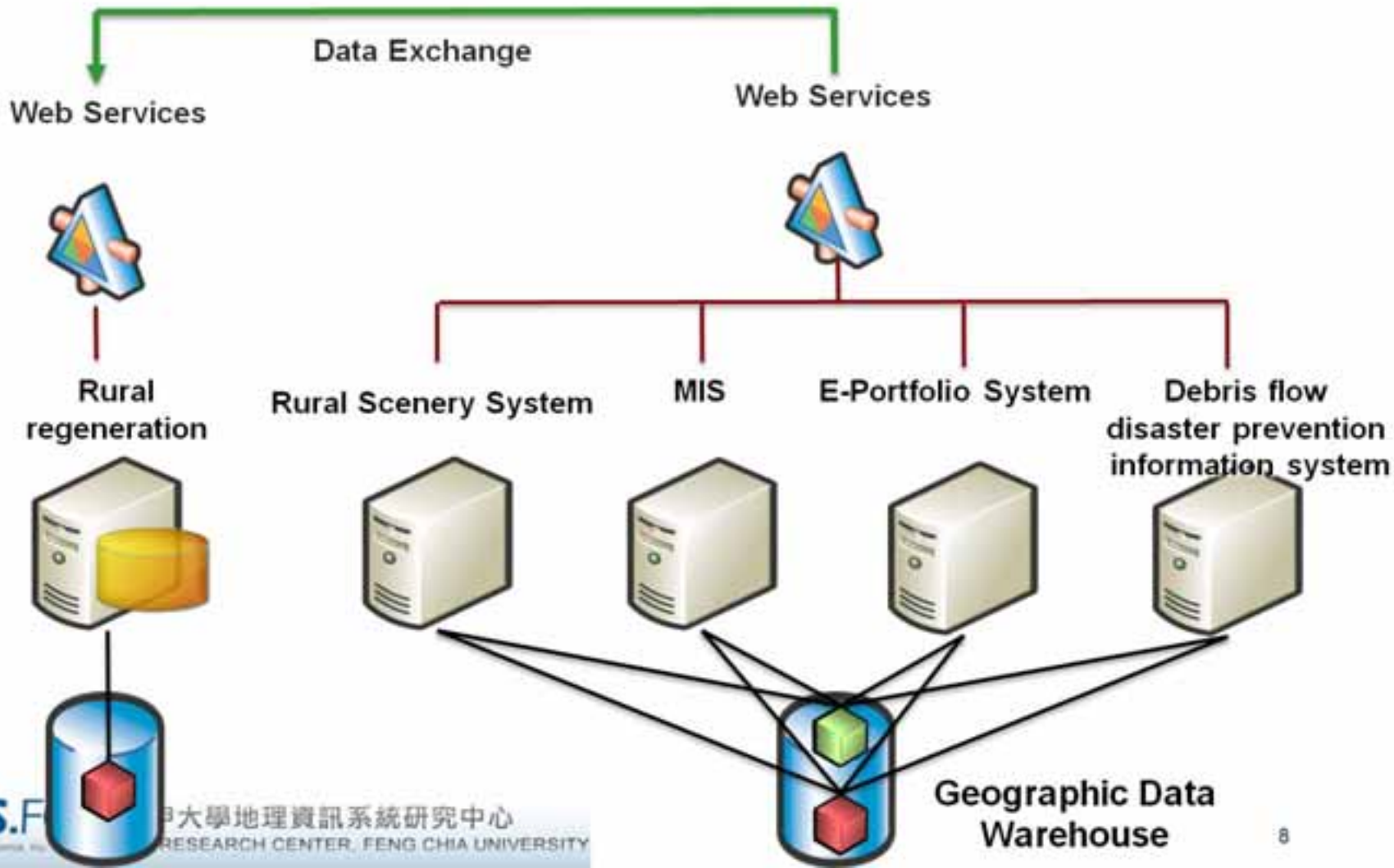
Yep , it's over there.

Data exchange

System Architecture



System Architecture

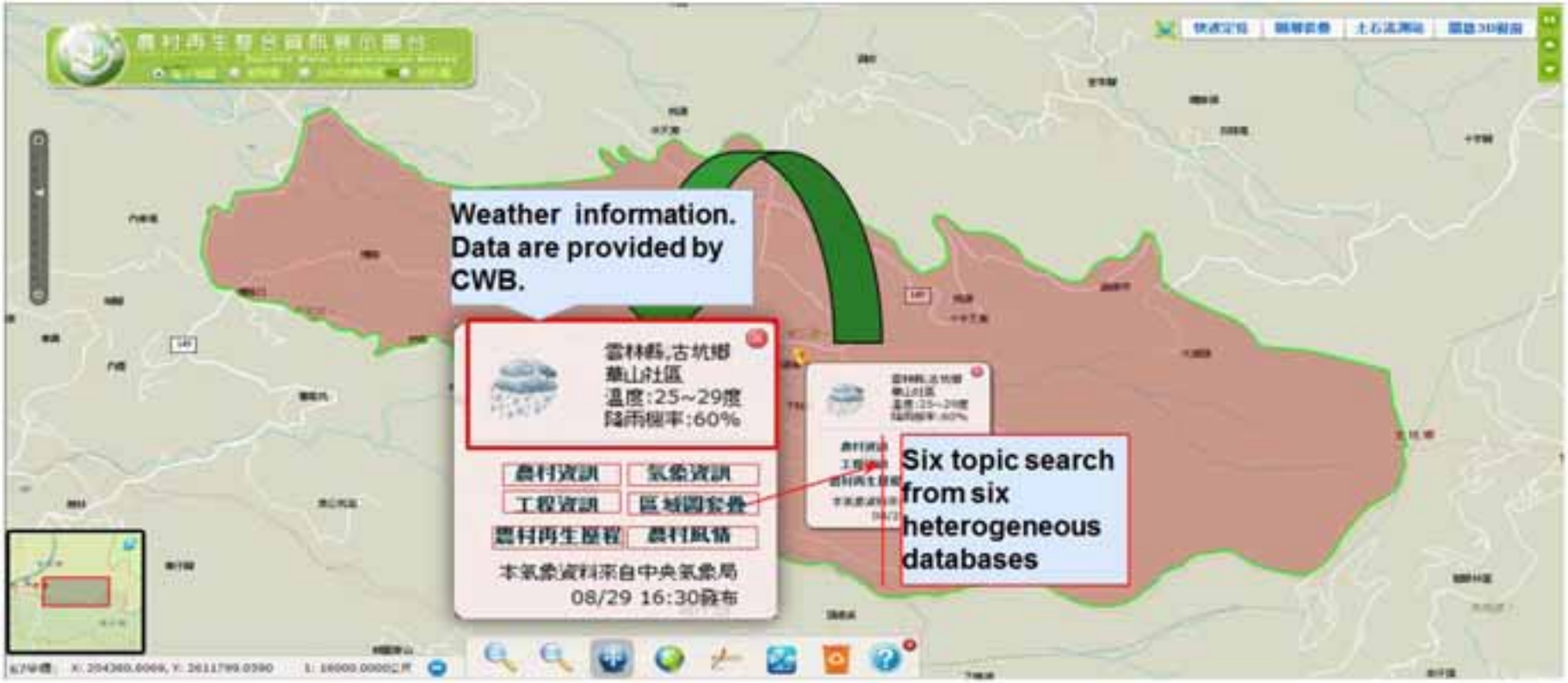


System Demo

- Zoom to Community

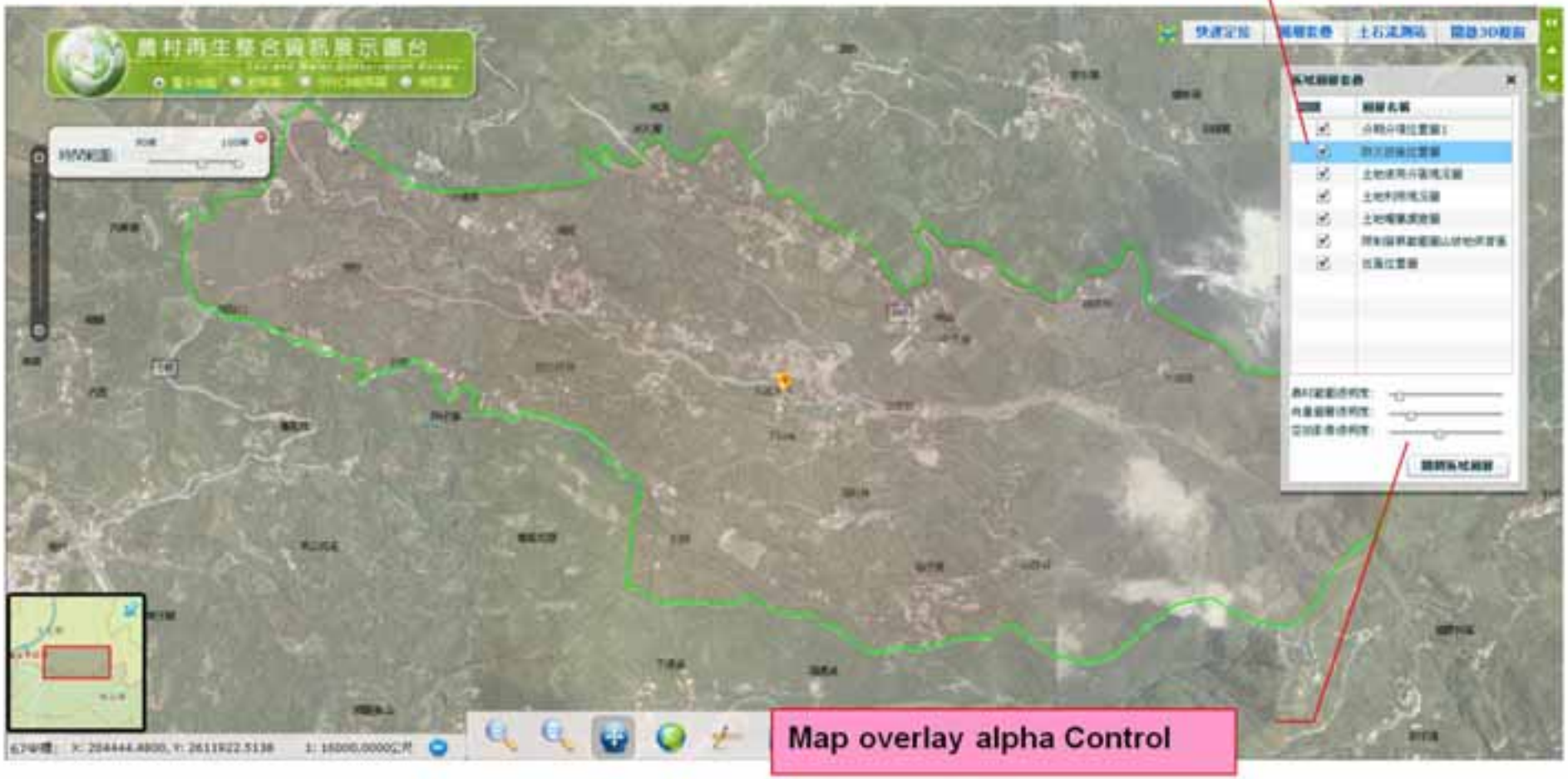
System Demo

- Integrated search interface



System Demo

- Map overlay Online



System Demo

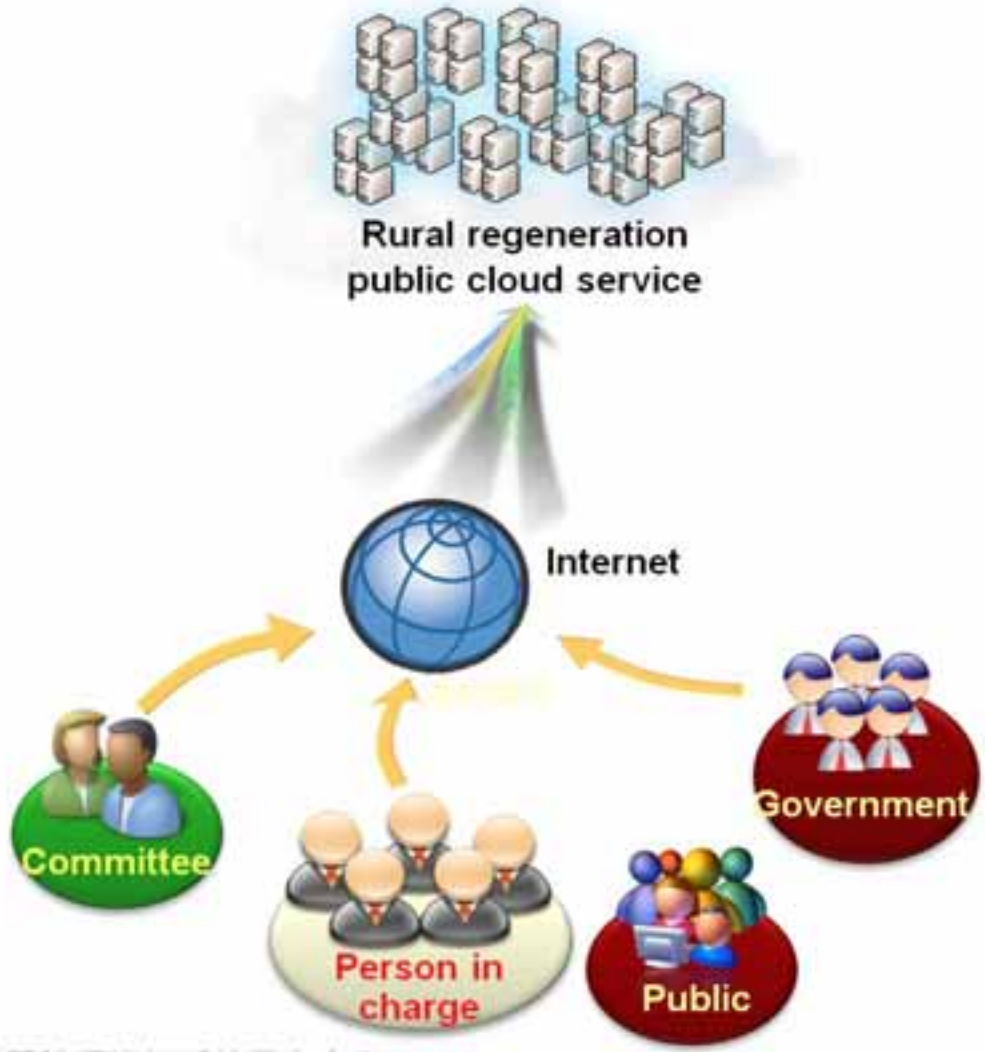
- 2D / 3D together, ArcGis Server With Google earth

System Demo

Conclusion

- Rich Internet Application
  - Highly interactive user interface and low learning curve
  - Use webpages as windows form
- Integrated Search
  - Where the data was not important

Future Work


Rural regeneration
public cloud service
Internet
Committee
Person in
charge
Public
Government

THANK YOU