

# GIS and what's cool about it from app dev perspective

Esri CodeCamp 1  
Ulla Järvinen  
2012

# Geographic Information System (GIS)

- A GIS is a system for managing, analyzing, and using geographically referenced information.
- GIS allows us to view, understand, interpret, and visualize data in many ways, e.g. in the form of maps, reports, and charts.
- GIS helps us to answer questions and solve problems by looking at data in a way that is quickly understood and easily shared.
- GIS technology can be integrated into any enterprise information system framework.



80%

# Tremendous GIS opportunities...



Aeronautical

Retail

Land Records

Telecommunication

Coastal Protection & Marine

Defense

Agriculture

Port Security

Education

Parks & Recreation

Hospital

Museum

Rescue

Economic Development

Government

Electric/Gas

Banking

Security

Facility Management

Tourism

Refuse Collection

Lighting

Landscape Planning

Public Works

Sign Inventory



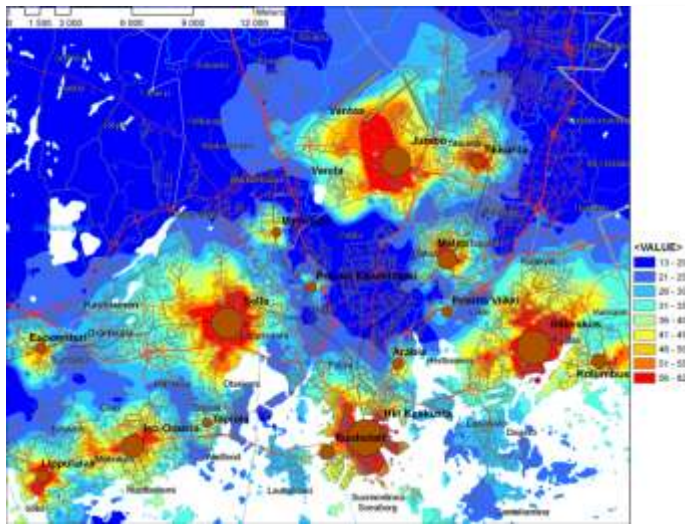
# Innovative, growing business area

- Can develop innovative solutions in cooperation with customers, dev team and partners.
- Only small parts of the business opportunities are already implemented.
- The work is versatile and previous knowledge can be used.
- Can work with different customers and partners.
- Can do money with GIS.



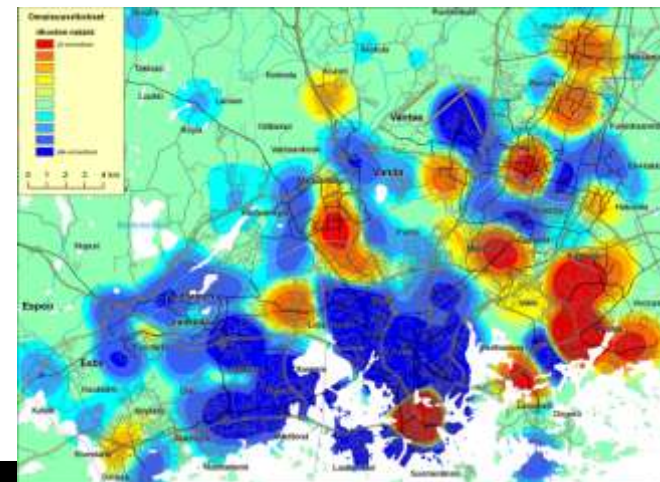
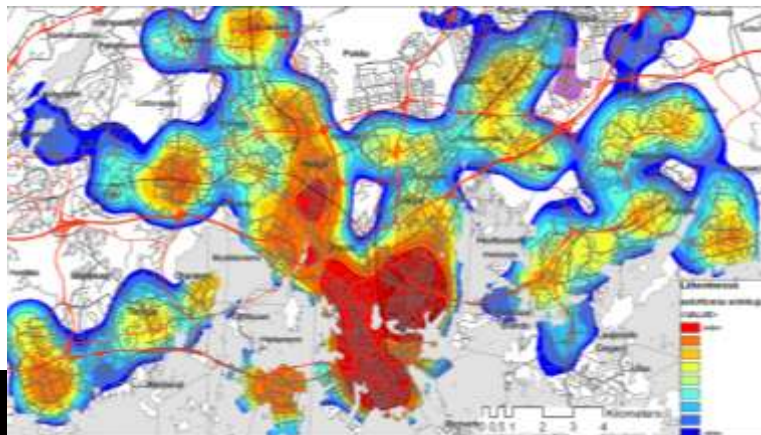
# GIS is illustrative

Shopping centers' gravity areas



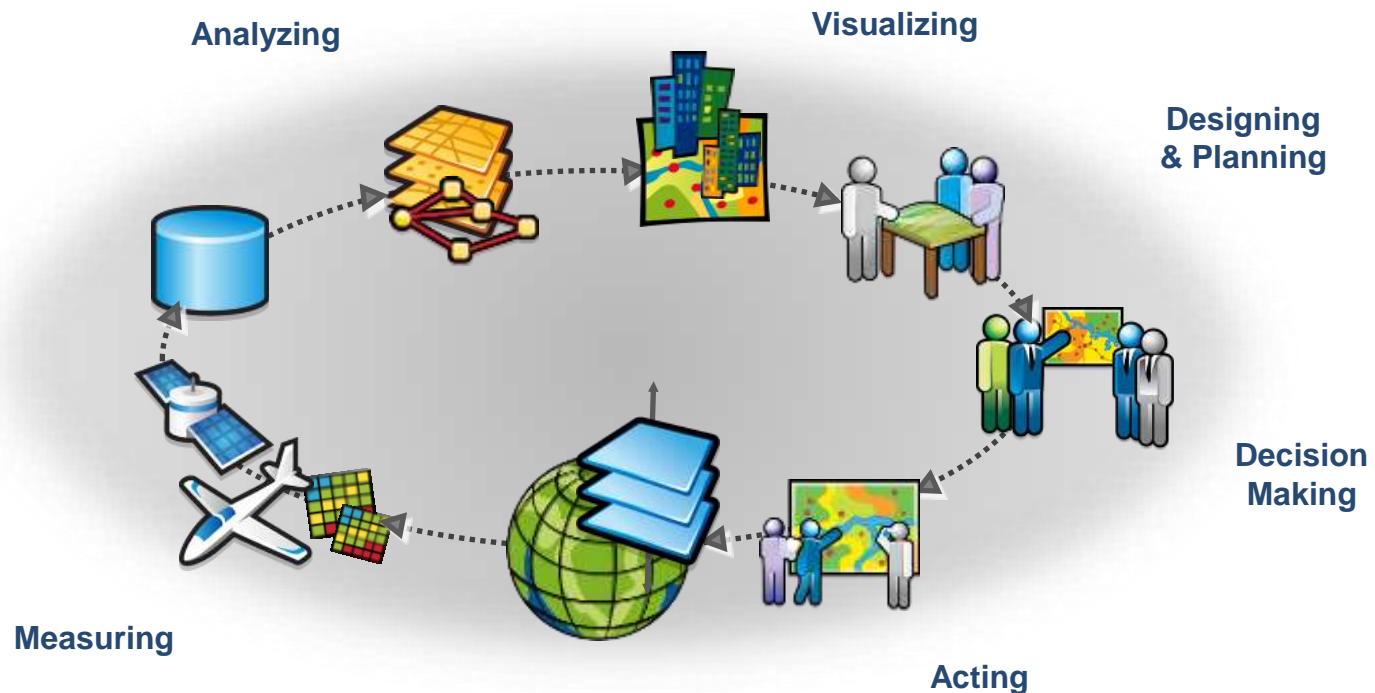
Library bus stops' location optimization

Crime cases per population density



Dynamic volume  
"estottomat sinkut"

# GIS makes complex things easier to manage

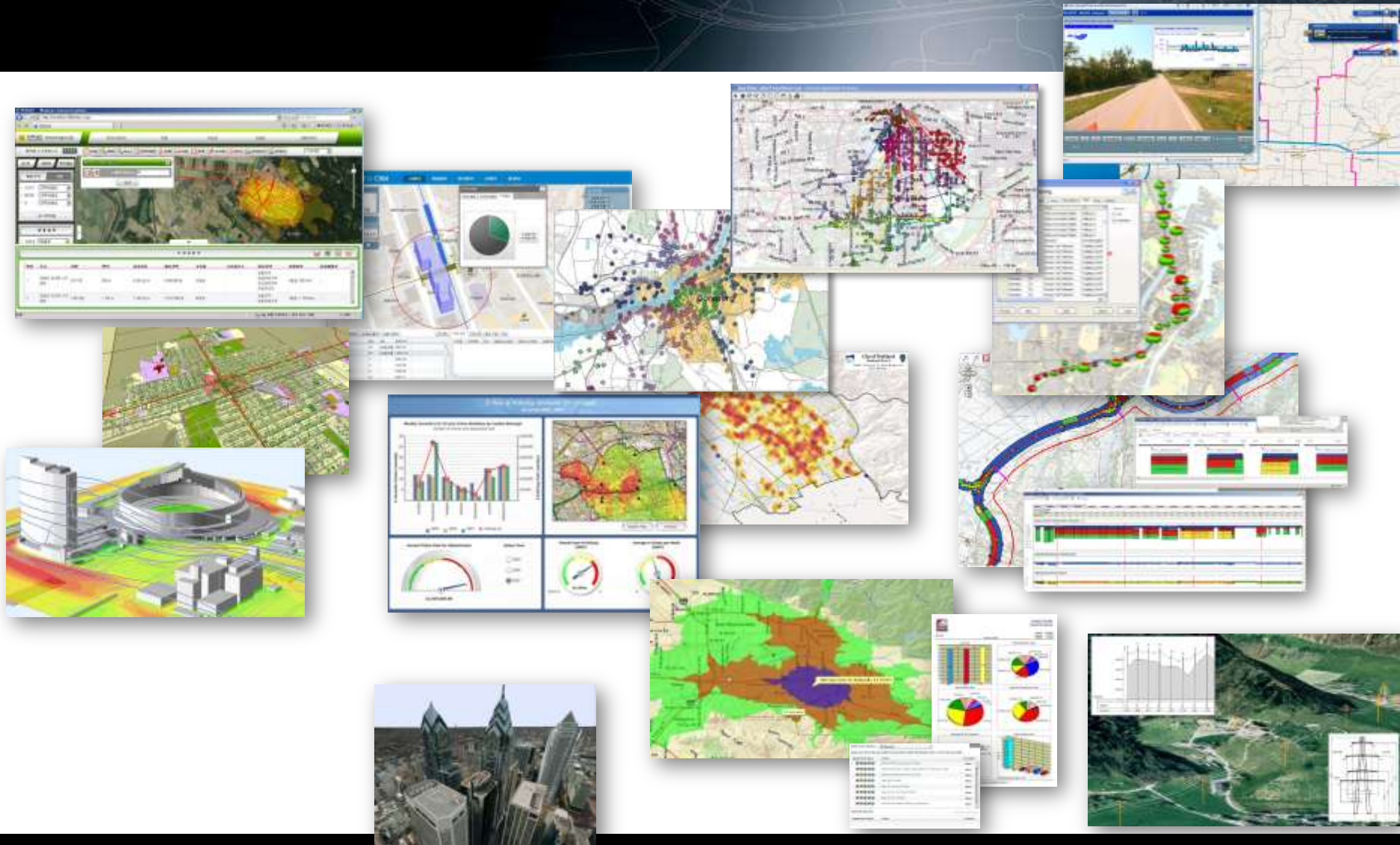


*A Science Based Approach*

*... And ... How We Act*



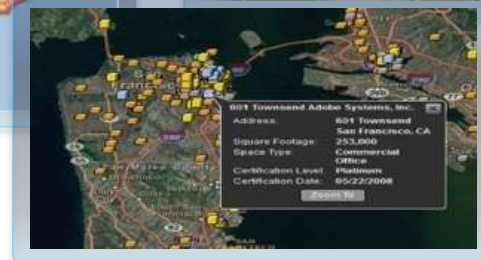
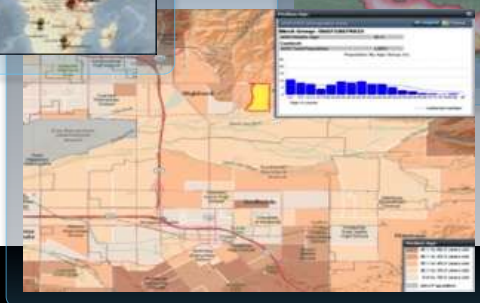
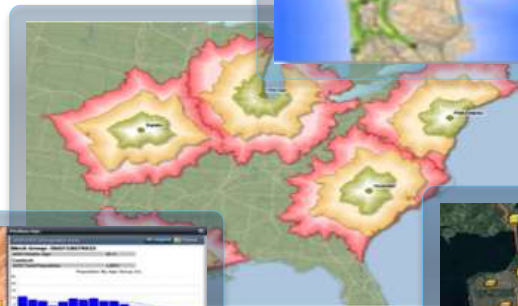
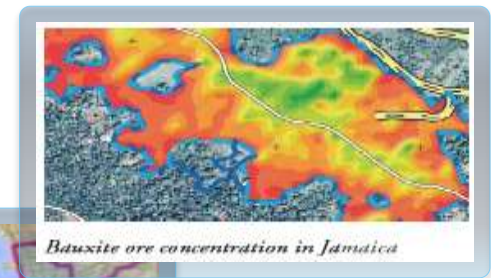
# A touch of scifi in your daily work?





# Some GIS apps are fast & fun to Implement

Many beneficial  
GIS Services and Apps  
Are Easily Created  
and Shared



# An example: Storm affects management

## Tapani-myrskyn korvaukset voivat nousta kymmeneen miljooniin

27.12.2011 19:38

1 kommenttia



*Tapaninpäivän myrskyn kaatamia puita Lohjalla. Tapaninpäivän myrsky on aiheuttanut metsänhoitoyhdistysten mukaan laajoja tuhoja ainakin Varsinais-Suomen, Satakunnan ja Länsi-Uudenmaan metsissä. Kuva: Lehtikuva*

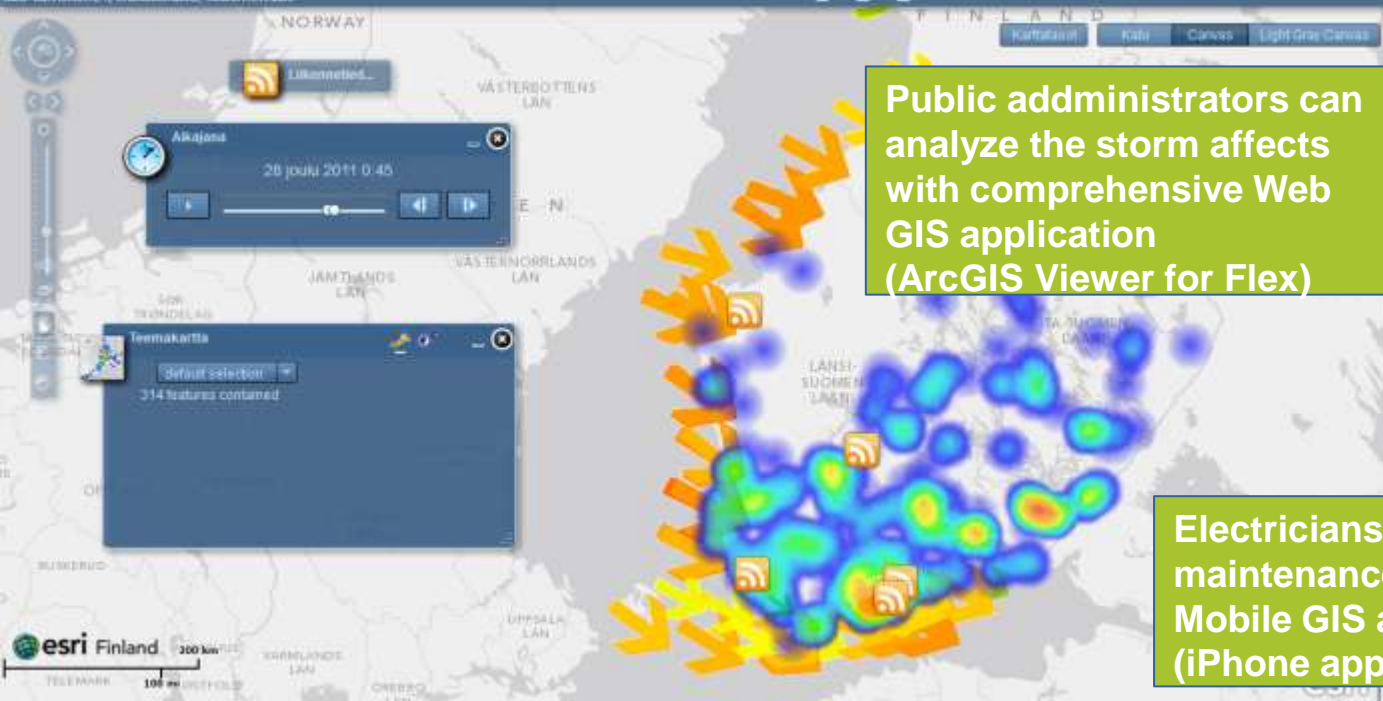
Päivitetty 31.12.2011 15:14, julkaistu 28.12.2011 12:43

## Myrskyn jälkeen: varo sähkölinjoja ja 0-vian iskua

Kyllikki Ala-Lehtimäki-Jääskeläinen Lähetä palautetta toimittajalle Kuva: Marita Toljander







Insurance Company can analyze the damages with aerial photos

Ilmakuvia myrskyn jälkeen



Ilmakuvia myrskyn jälkeen  
Web Map by aaho  
★★★★★ (0 reviews)  
Facebook Twitter

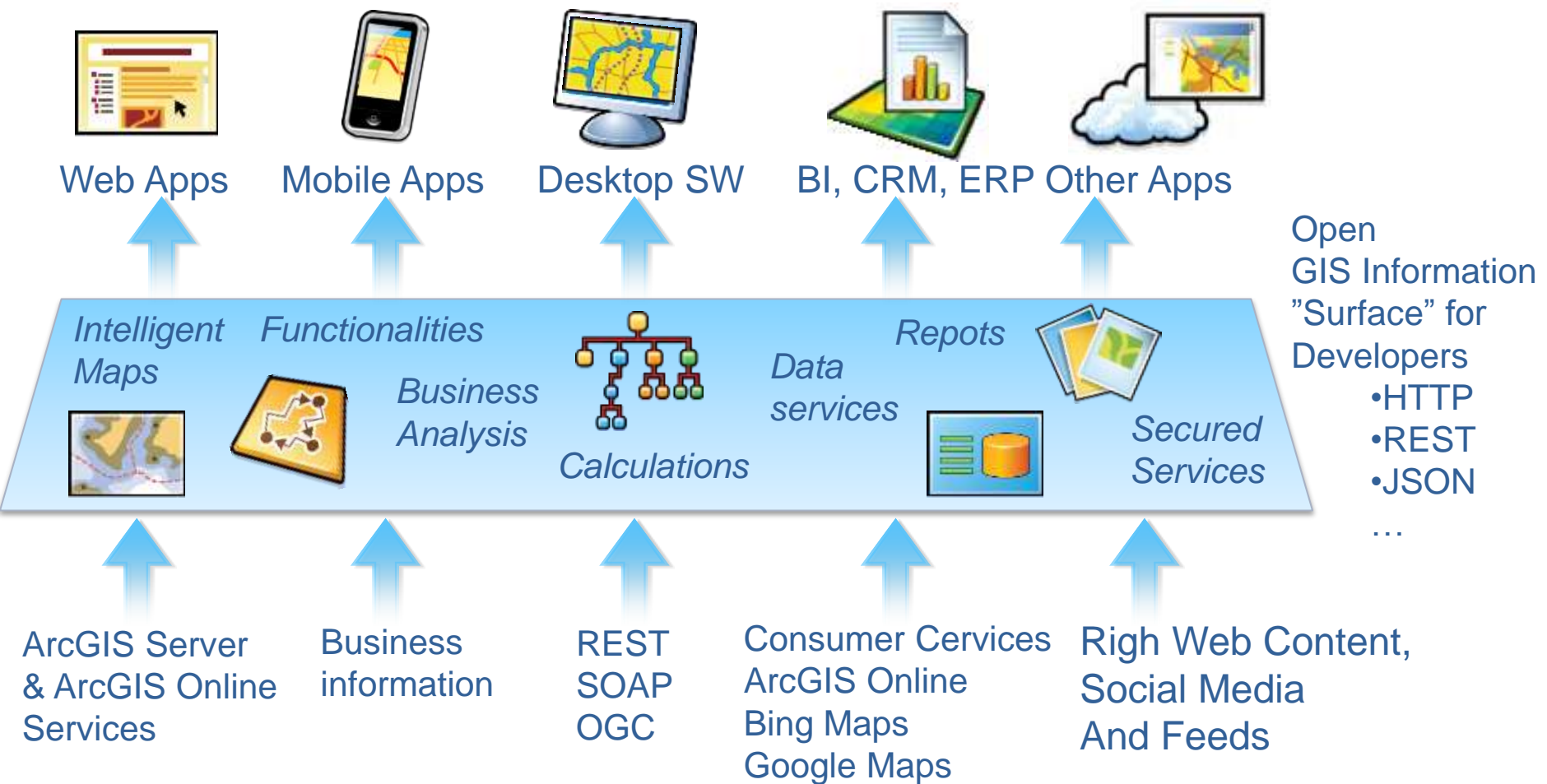
Open Share Edit Delete

Citizens can see what's happening with Twitter feeds on Map App (JavaScript app using Ready made application template from ArcGIS.com)

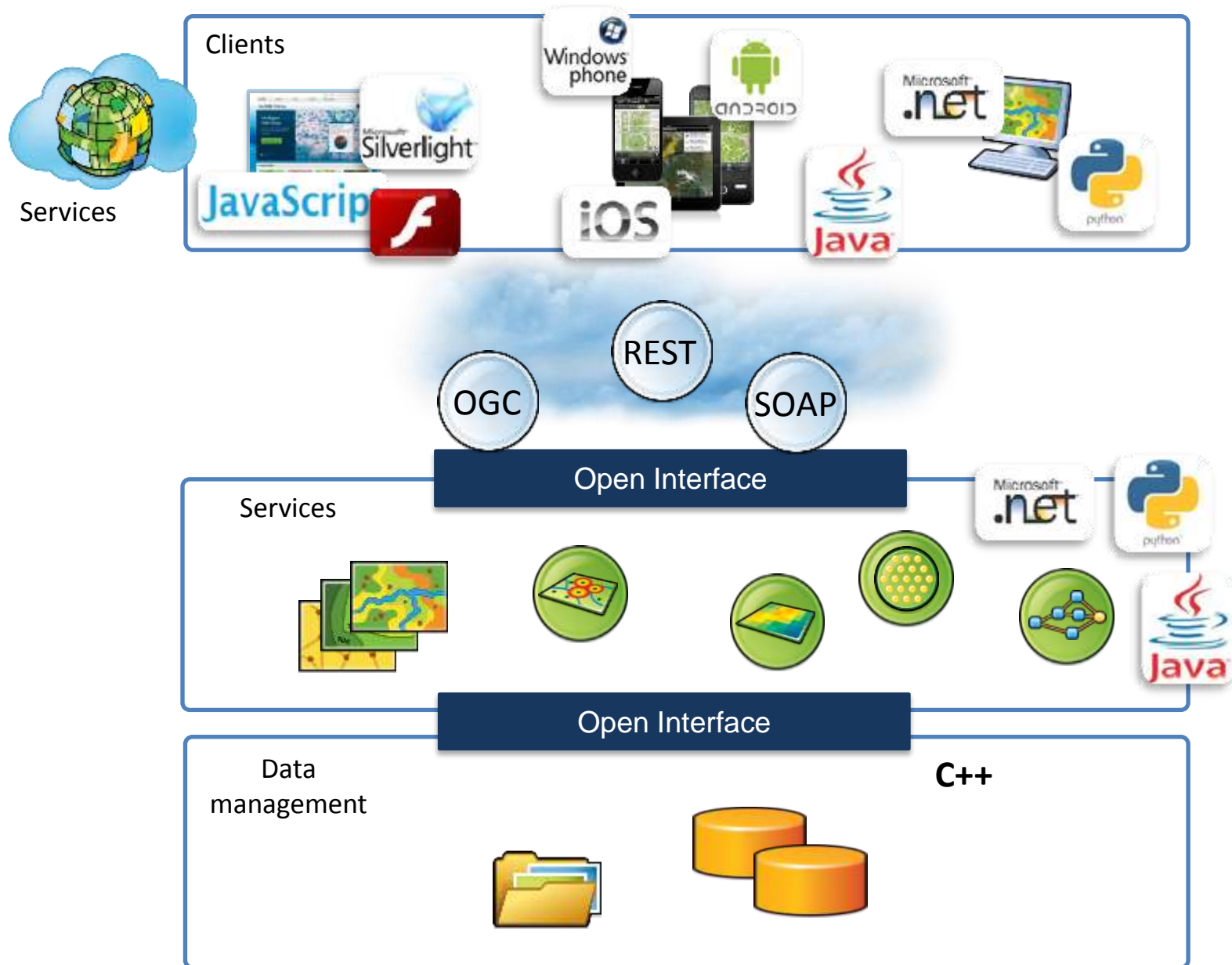
The managers can see the status information of how maintenance is going with Web GIS app (A Silverlight App)



# ArcGIS is Esri's technology and software product family and complete, highly interoperable system



# Develop GIS apps with common used technologies



# Implementing a map service

Any Device

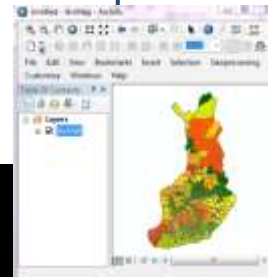


Use  
One Map

Serve



Author



1. Make a nice map with ArcMap (desktop GIS software)
2. Publish a map service to ArcGIS Server
3. Use map document with different clients



# Effective development & information sharing with ArcGIS Online



# Links

## Application examples

- <http://storymaps.esri.com>
- <http://www.arcgis.com/home/gallery.html>
- <http://maps.esri.fi>
- <http://www.esri.fi>
- <http://www.arcgis.com>

## Development

- <http://www.esri.com/getting-started/developers>
- <http://resources.arcgis.com/en/home>

## Esri Finland

- <http://www.esri.fi>
- [myynti@esri.fi](mailto:myynti@esri.fi)
- [tuki@esri.fi](mailto:tuki@esri.fi)

## ArcGIS Resources

ArcGIS Online

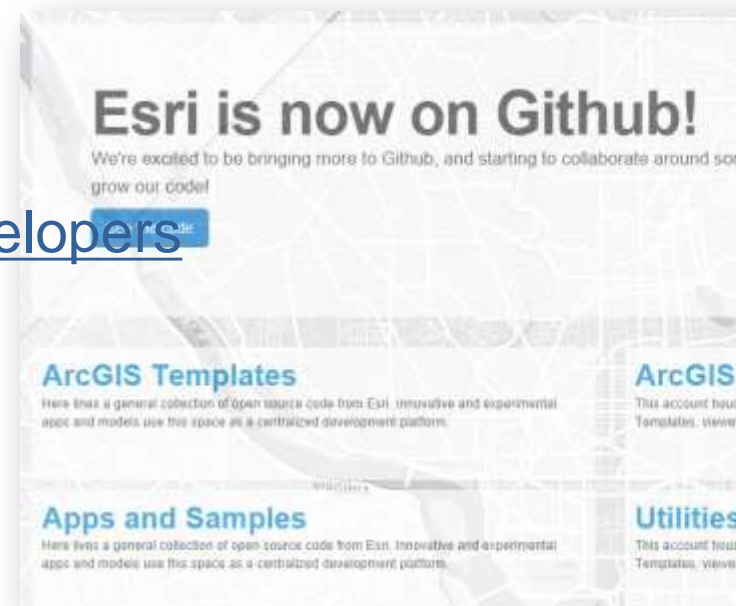
Home Communities Help Blog Forums Videos

### What is ArcGIS?

A comprehensive system for working with maps and geographic information.

[Learn more](#)

[View this map](#)



**Esri is now on Github!**

We're excited to be bringing more to Github, and starting to collaborate around some of our open source code.

[View our code](#)

**ArcGIS Templates**

Here lives a general collection of open source code from Esri. Innovative and experimental apps and models use this space as a centralized development platform.

**ArcGIS**

This account hosts Esri's ArcGIS Templates. View

**Apps and Samples**

Here lives a general collection of open source code from Esri. Innovative and experimental apps and models use this space as a centralized development platform.

**Utilities**

This account hosts Esri's Utilities. View

# Find us from different medias

