



ELF EUROPEAN
LOCATION
FRAMEWORK

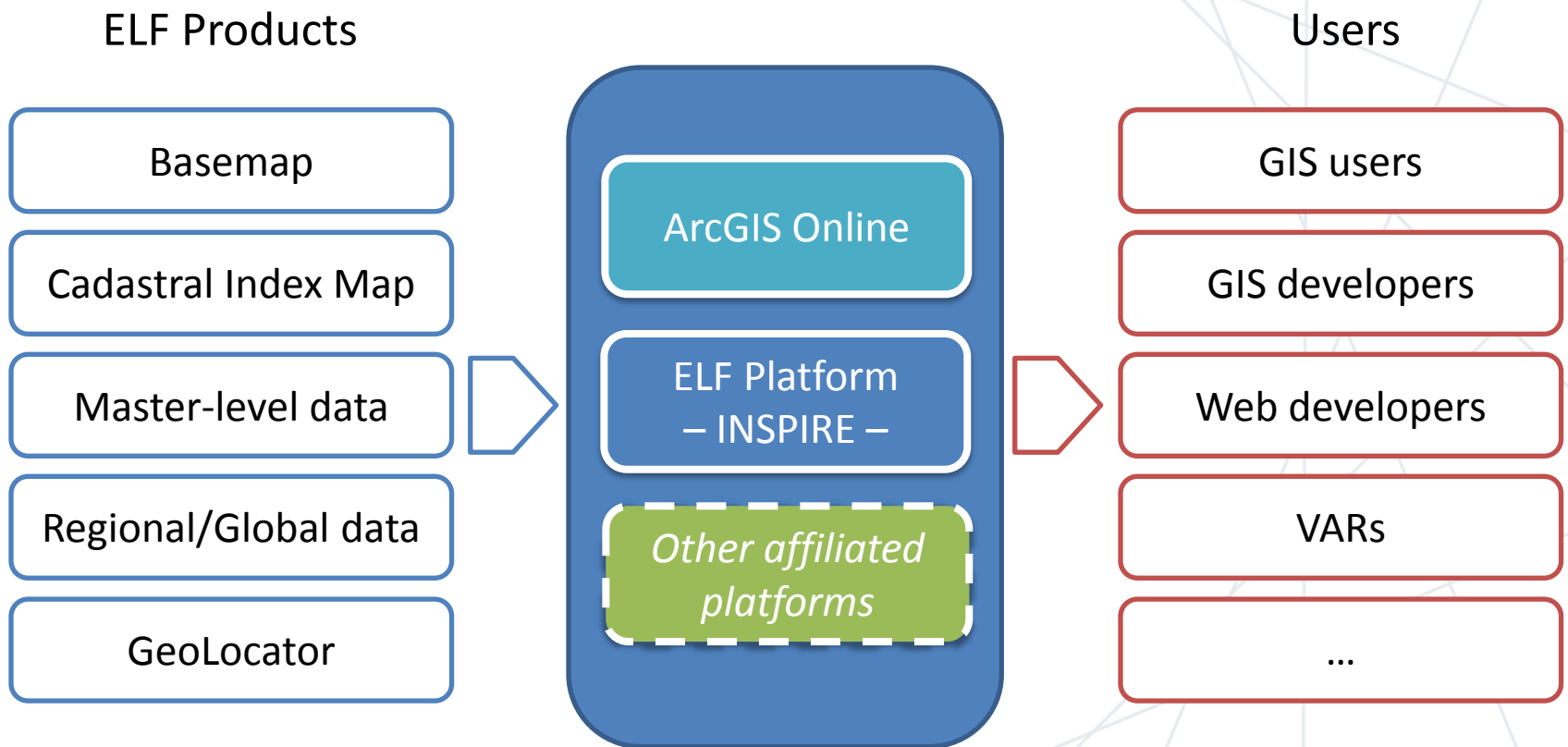
ArcGIS as an affiliated platform

Presentation to: EuroGeographics General Assembly 2016

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Date: 4 October 2016

Delivery of ELF products to users



How we consume and share digital information is changing

	Yesterday	Today
Music	CD	Streaming, on demand
Movies	DVD, Blu-ray	Streaming, on demand
Documents	Local hard drive, email	Cloud storage, on demand or synched
Software	CD, DVD	Downloads, App Stores
Geographic data	Shapefile	Web services, on demand
Devices	Computer	Handheld device

Common pattern: Web technologies

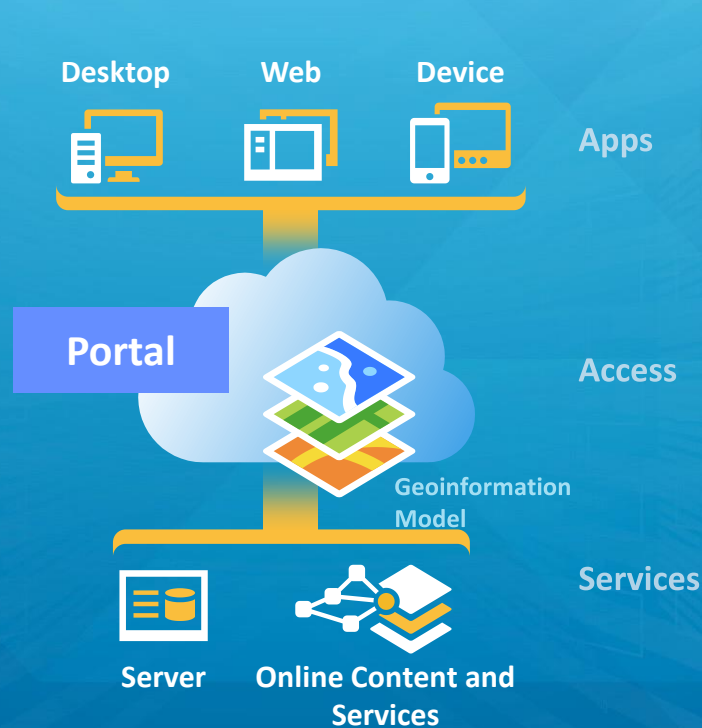
Sharing and consuming digital information increasingly
happens on the Web

ArcGIS

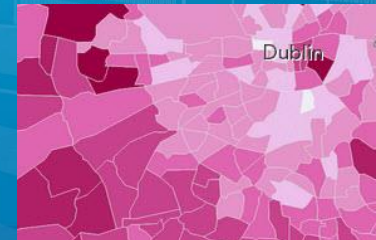
► An Integrated Web GIS Platform

Web GIS

Providing Mapping, Analysis, Data Management, and Collaboration



Living Atlas

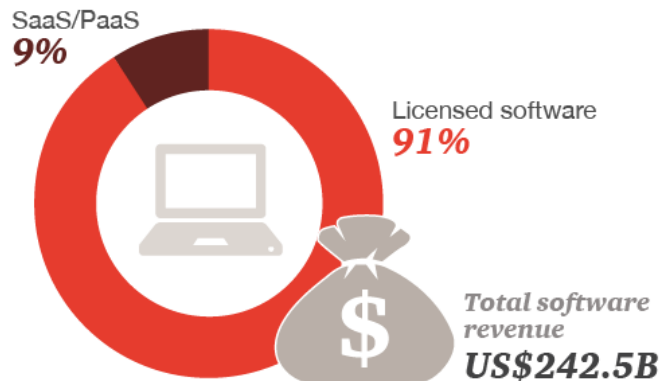


★ Available on the Open Web . . .

★ . . . and On-Premises

Use of the cloud is increasing, including in GIS

SaaS/PaaS sales nearing 10% of Top 50 Software Company revenues



Source: PwC's SaaS Revenue of Top 50 Software Companies with data from IDC



Source: PwC's SaaS Revenue of Top 50 Software Companies with data from IDC

Top 50 Software Companies' SaaS and PaaS revenue



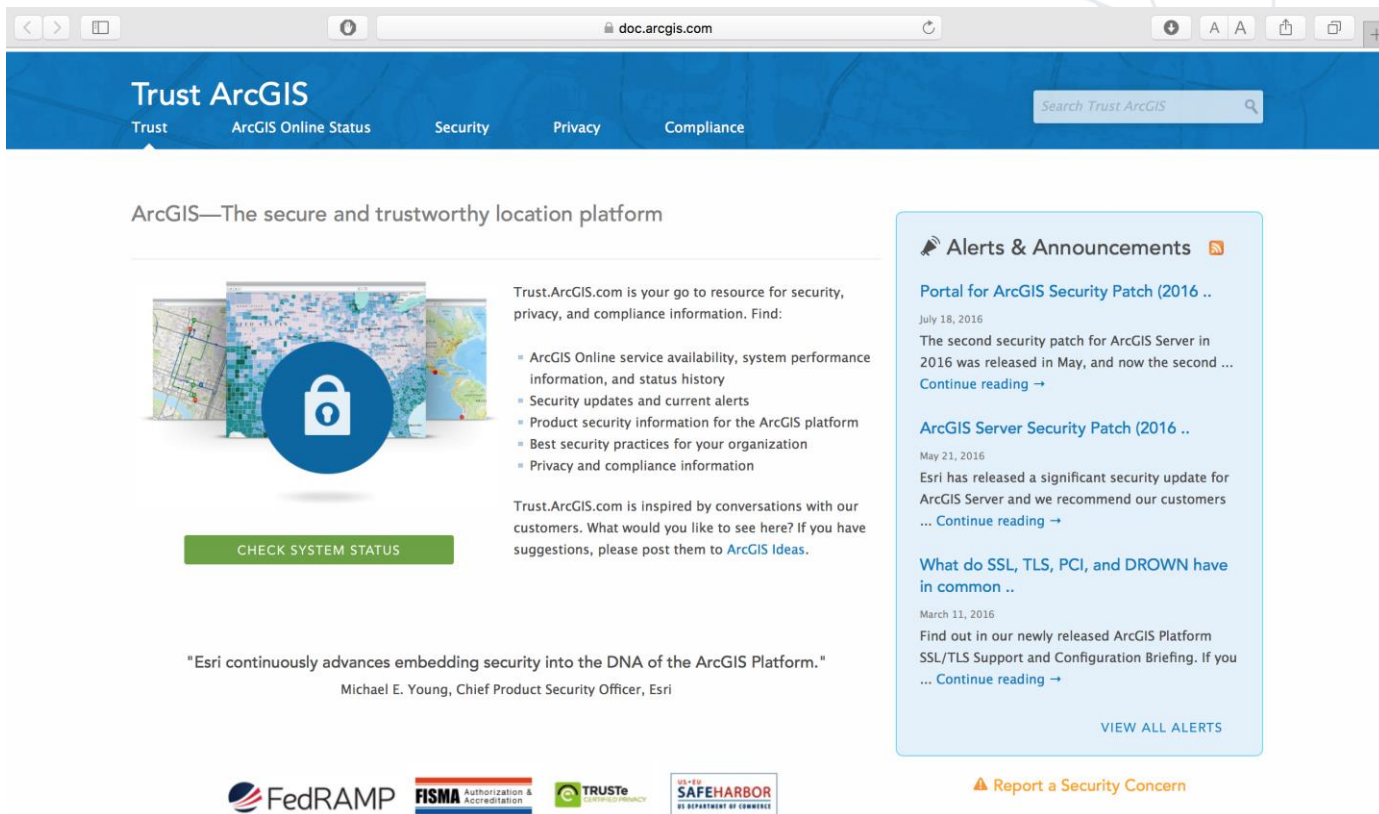
PwC's SaaS Revenue of Top 50 Software Companies with data from IDC

No. of Top 50 companies also on the Fastest Growing Cloud list: **6**

Ranking	Fastest Growing Cloud	Top 50
OpenText	1	31
Dassault Systèmes	3	15
Microsoft	8	1
BMC	13	26
Apple	14	22
Esri	22	48

PwC's SaaS Revenue of Top 50 Software Companies with data from IDC

Security is essential for data on the Web



The screenshot shows the Trust ArcGIS website in a browser window. The URL bar displays 'doc.arcgis.com'. The website has a blue header with the 'Trust ArcGIS' logo and navigation links: Trust, ArcGIS Online Status, Security, Privacy, and Compliance. A search bar is also present. The main content area features the headline 'ArcGIS—The secure and trustworthy location platform' and a large graphic of a padlock over a map. To the right, there is a list of security updates and announcements, including 'Portal for ArcGIS Security Patch (2016 ..)' and 'ArcGIS Server Security Patch (2016 ..)'. At the bottom, there are logos for FedRAMP, FISMA, TRUSTE, and US-EU SAFEHARBOR.

Trust ArcGIS

ArcGIS—The secure and trustworthy location platform

Trust.ArcGIS.com is your go to resource for security, privacy, and compliance information. Find:

- ArcGIS Online service availability, system performance information, and status history
- Security updates and current alerts
- Product security information for the ArcGIS platform
- Best security practices for your organization
- Privacy and compliance information

Trust.ArcGIS.com is inspired by conversations with our customers. What would you like to see here? If you have suggestions, please post them to [ArcGIS Ideas](#).

CHECK SYSTEM STATUS

"Esri continuously advances embedding security into the DNA of the ArcGIS Platform."

Michael E. Young, Chief Product Security Officer, Esri

Alerts & Announcements

Portal for ArcGIS Security Patch (2016 ..)
July 18, 2016
The second security patch for ArcGIS Server in 2016 was released in May, and now the second ...
[Continue reading →](#)

ArcGIS Server Security Patch (2016 ..)
May 21, 2016
Esri has released a significant security update for ArcGIS Server and we recommend our customers ...
[Continue reading →](#)

What do SSL, TLS, PCI, and DROWN have in common ..
March 11, 2016
Find out in our newly released ArcGIS Platform SSL/TLS Support and Configuration Briefing. If you ...
[Continue reading →](#)

[VIEW ALL ALERTS](#)

[Report a Security Concern](#)

FedRAMP FISMA Authorization & Accreditation TRUSTE US-EU SAFEHARBOR DEPARTMENT OF COMMERCE

<http://trust.arcgis.com>

Preparing ELF data for use in ArcGIS

- **Simplify structures** for use in maps and to make the data easier to understand and handle by users and developers that are not INSPIRE experts
- **Improve layer structure of the data** for use in multi-scale maps
- **Cache ELF data** in the ArcGIS Online cloud and publish it via native ArcGIS services
- **Keep data synchronized** – support for change-only updates (planned)

More ELF users through affiliated platforms

- ★ Affiliated platforms are additional **hubs for ELF data**
 - **Cloud-/Web-based GIS platforms with a very large user base and support for major devices**
- ★ ELF data published in affiliated platforms is **ready for immediate use**
 - **by both application developers and GIS users**
 - **using the applications, tools and APIs they are familiar with**
- ★ In the ELF project, ELF feature data is hosted on **ArcGIS Online**
 - **ArcGIS is an example for an affiliated platform**

Data on the Web Best Practices

W3C Candidate Recommendation 30 August 2016



Best Practice 14: Provide data in multiple formats

Make data available in multiple formats when more than one format suits its intended or potential use.

Why

Providing data in more than one format reduces costs incurred in data transformation. It also minimizes the possibility of introducing errors in the process of transformation. If many users need to transform the data into a specific data format, publishing the data in that format from the beginning saves time and money and prevents errors many times over. Lastly it increases the number of tools and applications that can process the data.

Intended Outcome

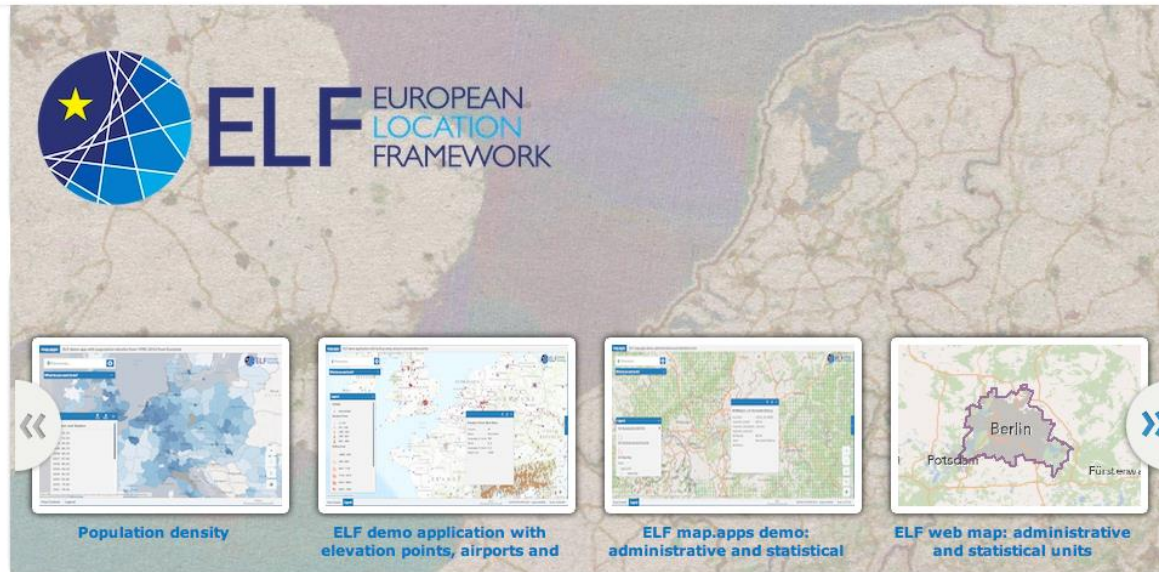
As many users as possible will be able to use the data without first having to transform it into their preferred format.

ELF in ArcGIS Online

<http://elf.maps.arcgis.com/>

HOME GALLERY MAP GROUPS MY CONTENT MY ORGANIZATION

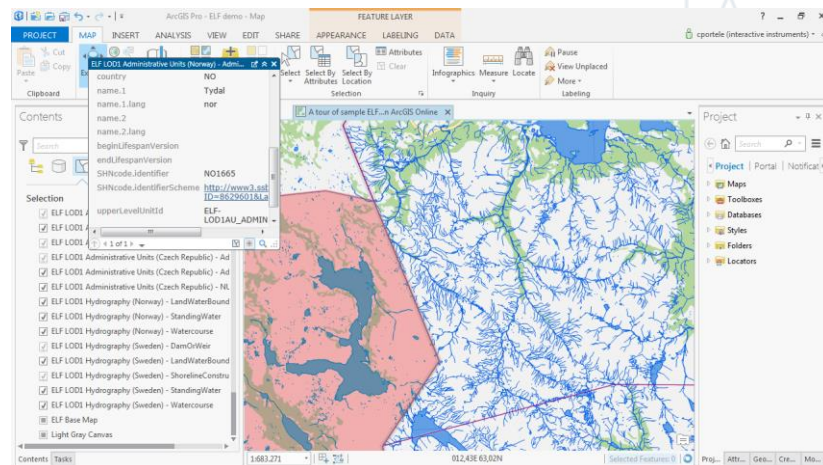
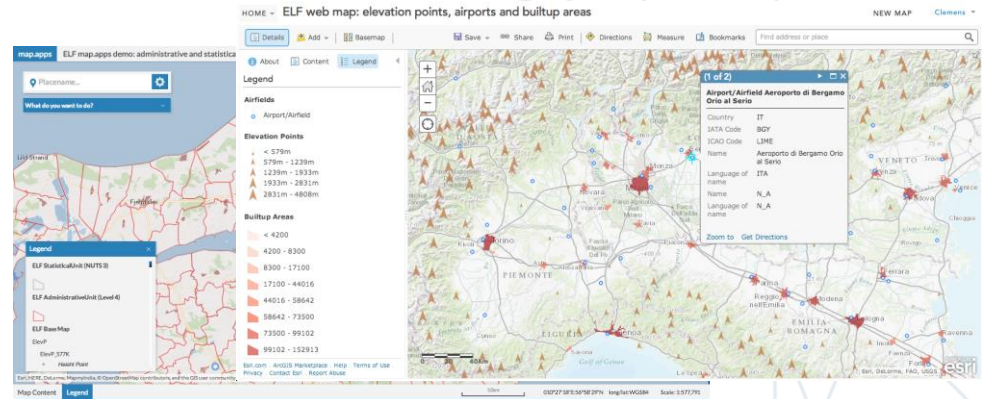
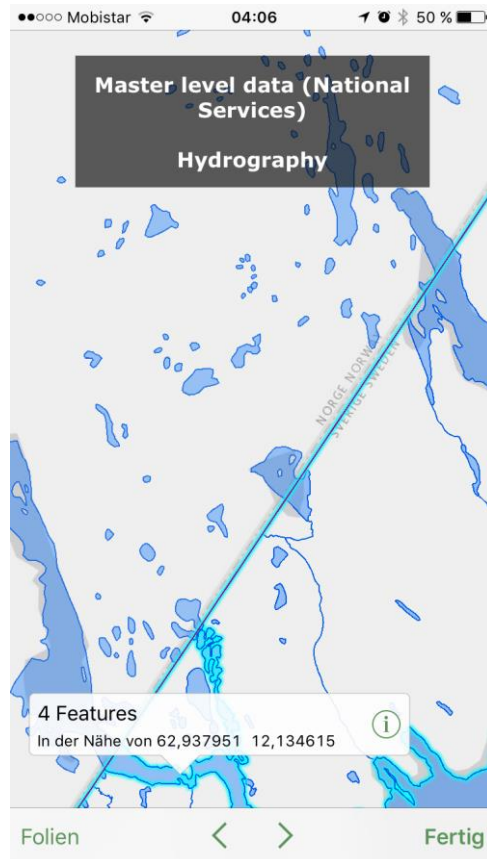
Clemens ▾



Welcome to the European Location Framework (ELF) in ArcGIS Online - a single point of access for harmonised reference data from National Mapping, Cadastre and Land Registry Authorities for users of the ArcGIS platform. The European Location Framework aims at fostering the wider use of geo-information in Europe and enable the creation of innovative value-added services.

Cloud GIS platforms like ArcGIS Online are hubs of the ELF infrastructure. They integrate feature data and

ELF data on various devices



Summary

- ★ Sharing and consuming digital information increasingly happens on the Web and using handheld devices
- ★ Enable your key users to use the tools and technologies they want to use
- ★ Simplicity of use is key