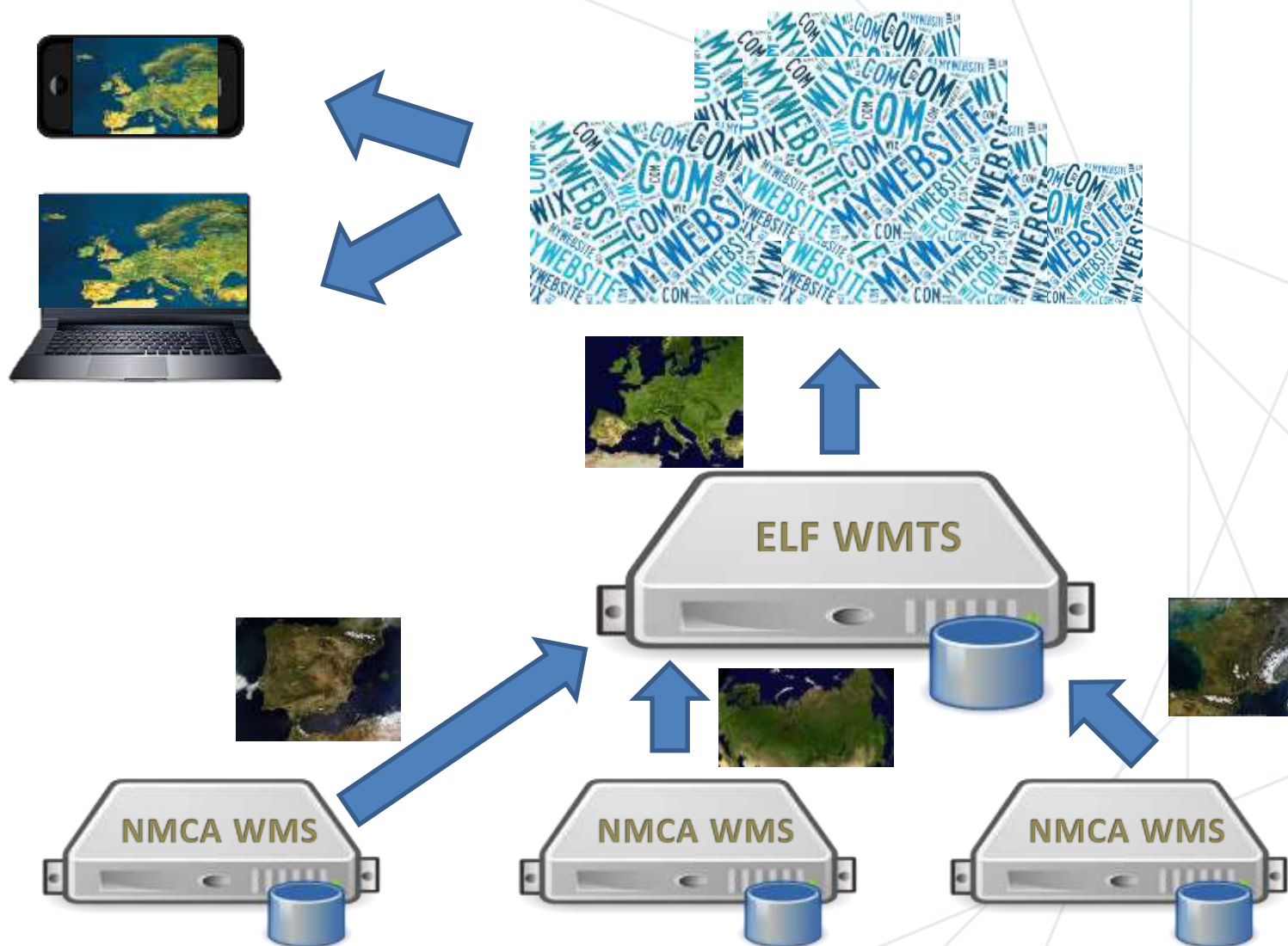


The prototype of the ELF Imagery Viewing Service

Presentation to: INSPIRE KEN workshop

Author: Saulius Urbanas, EuroGeographics; Emilio Lopez (IGN Spain)

Date: 29th September



Questions prior starting the test

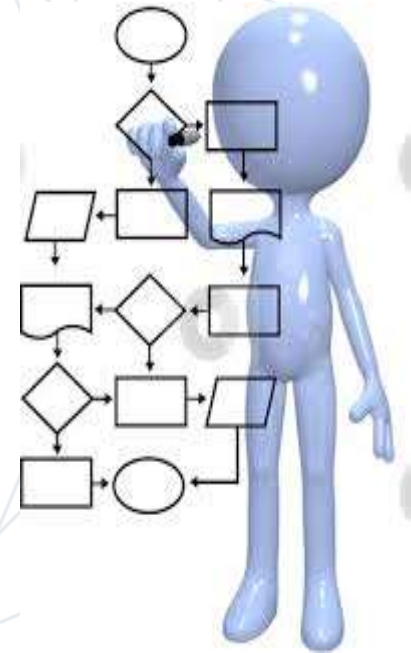
- ★ How and if national web viewing services (WMS, WMTS) from NMCA's could be joined to the central ELF webservice?
- ★ If yes, what are the requirements for the central service (software, IT requirements)?
- ★ What are the requirements from the side of data providers (data formats, tiling, edge-matching, actions by NMCA's, „how to connect“ instructions, etc.)
- ★ What are requirements for central management of the view web service?
- ★ What are the major issues/constraints for setting up the central ELF view service for orthophotos, aerial photos and satellite images

★ Software

- ★ Degree
- ★ GeoServer
- ★ MapServer and MapCache

★ Chosen technology

- ★ Distribution CentOS (Red Hat Enterprise Linux RHEL), version 6.4 and 64-bit architecture.
- ★ Java Virtual machine: JDK 1.6
- ★ Apache HTTP Server version 2.2
- ★ MapServer version 6.2.1
- ★ MapCache



★ MapServer

- ★ Have the ability to connect to remote WMSs.
- ★ Support the following WMS versions when connects to them:
1.0.0, 1.0.7, 1.1.0, 1.1.1
- ★ Have the ability to mask out one or more layers so that only the features that intersect another set of features are rendered in the response to a GetMap request.

★ MapCache

- ★ has the ability to generate WMTS (according to OGC spec) from a remote WMS. Can also generate other services like WMS-C, TMS from connections to other WMS services

1. Creation of WMS with MapServer.

1. Connection to each of the NMCA's WMS.
2. Setting up each layer of each service.
3. Setting up a group of layers from the aggregation of different layers of different services
4. Publication via WMS of the layer group.

2. Creation of the WMTS with MapCache

1. Connection to WMS layer group
2. Setting up the cache.

3. Publication via WMTS

★ Requirements for remote (national) Imagery View services

- ★ Comply with OGC WMS version 1.1.0
- ★ Documented CRS for transition to EPSG:4258 (ETRS89 latitude, longitude).

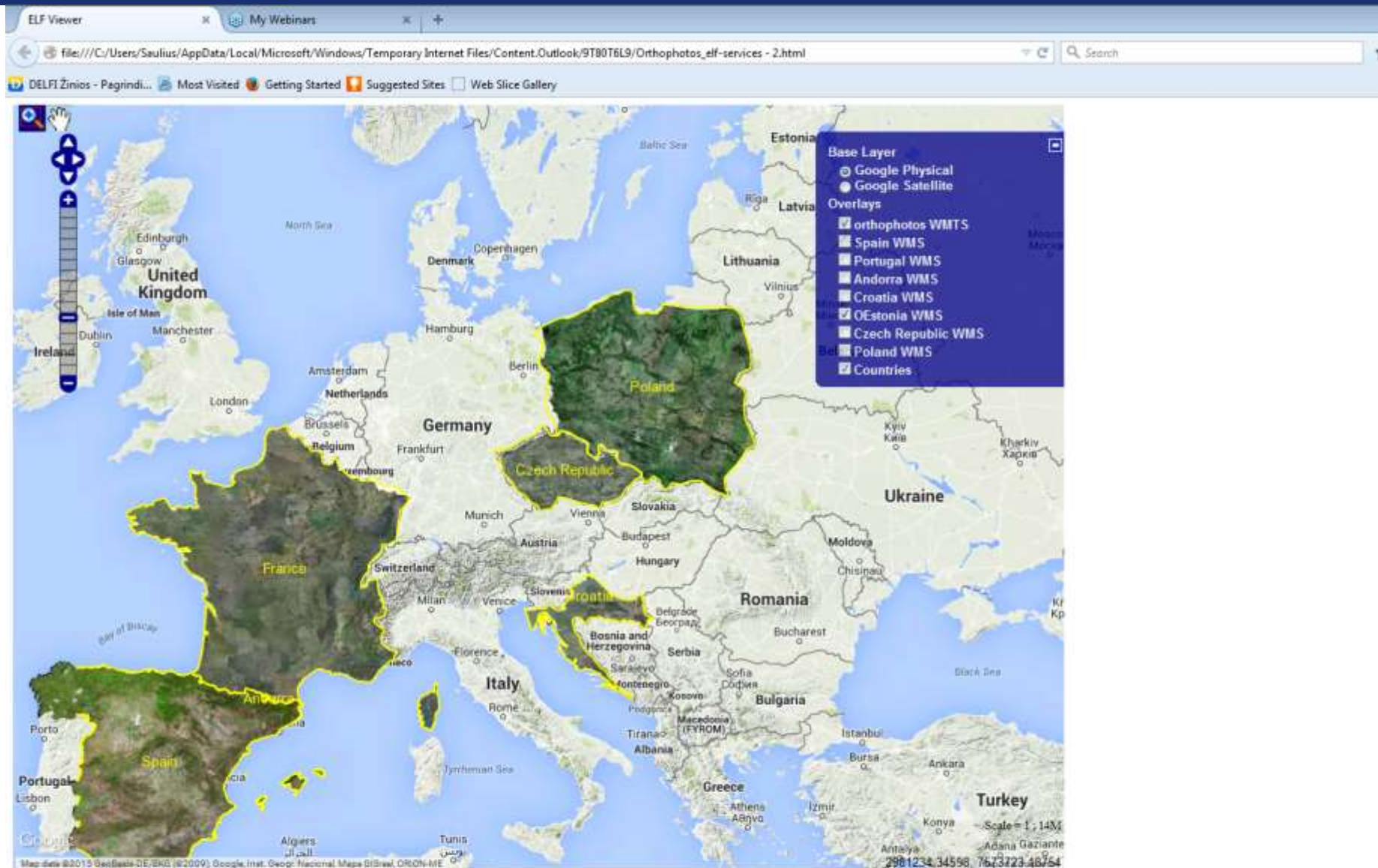
★ Store images in a central cache

- ★ the provisional estimation for storing 1:1,000 scale imagery (orthophotos in JPG format) shows that the demand for cache space is about **29 TB**

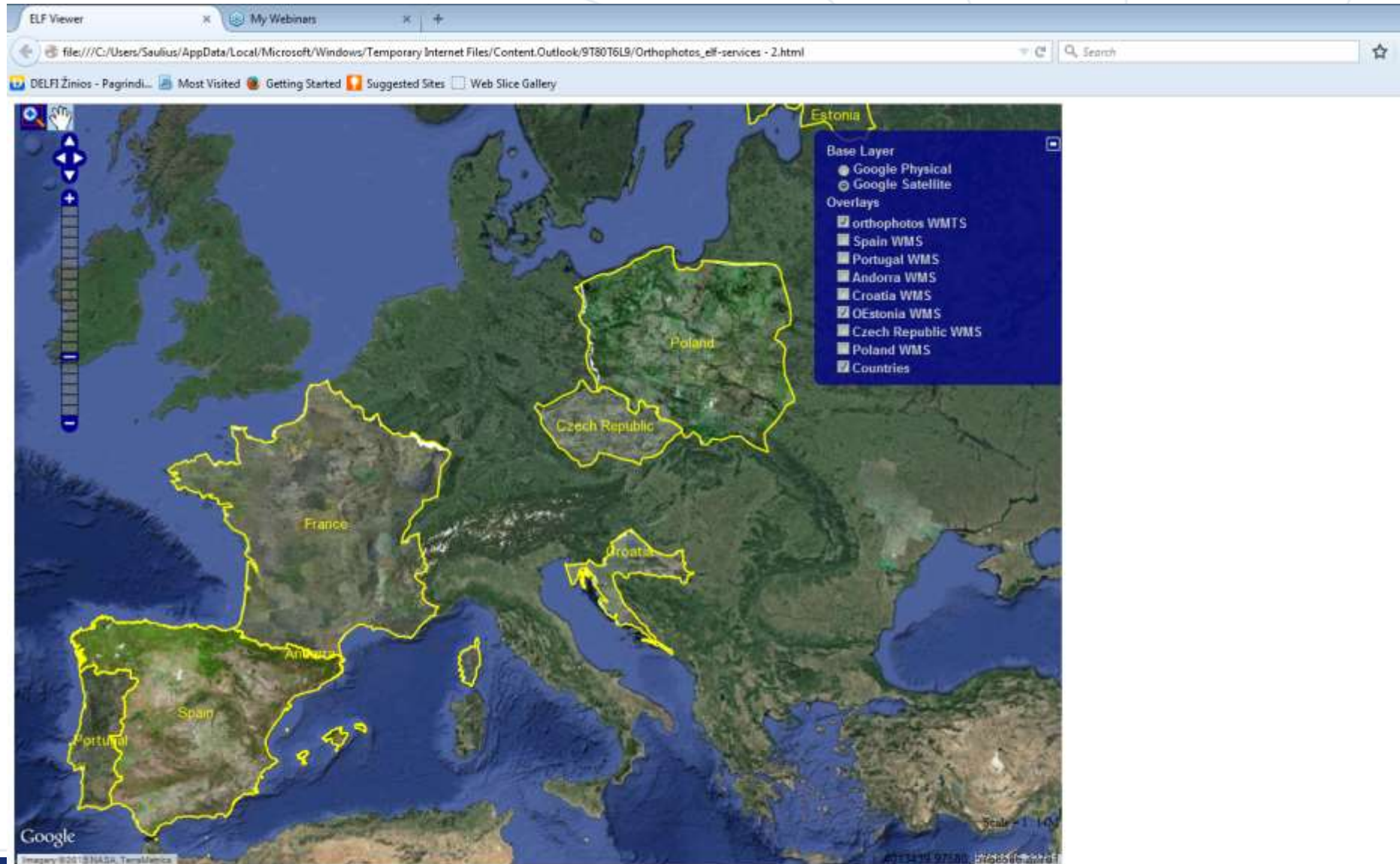
ELF Imagery service (prototype)



ELF Imagery service (prototype)

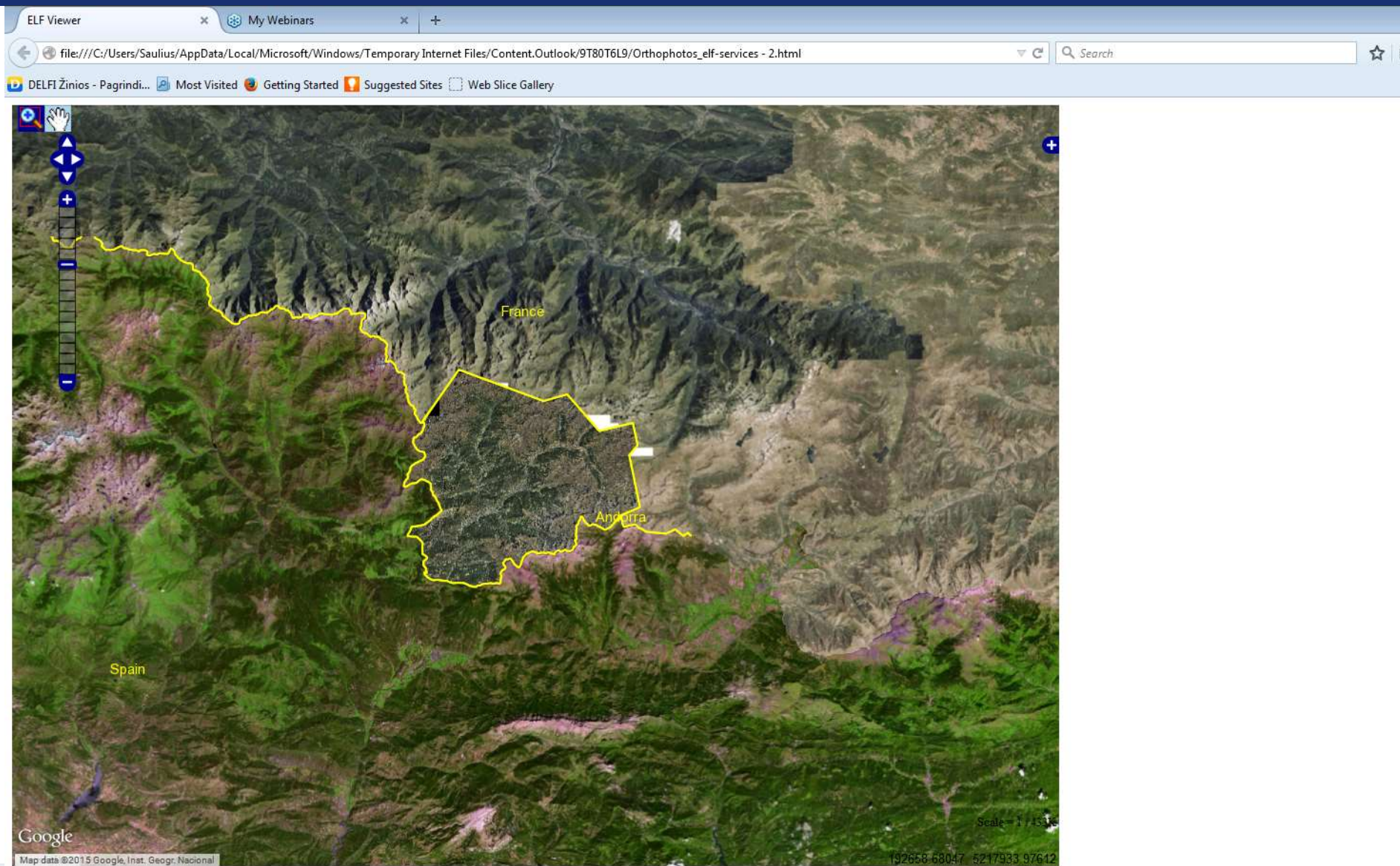


ELF Imagery service (prototype)

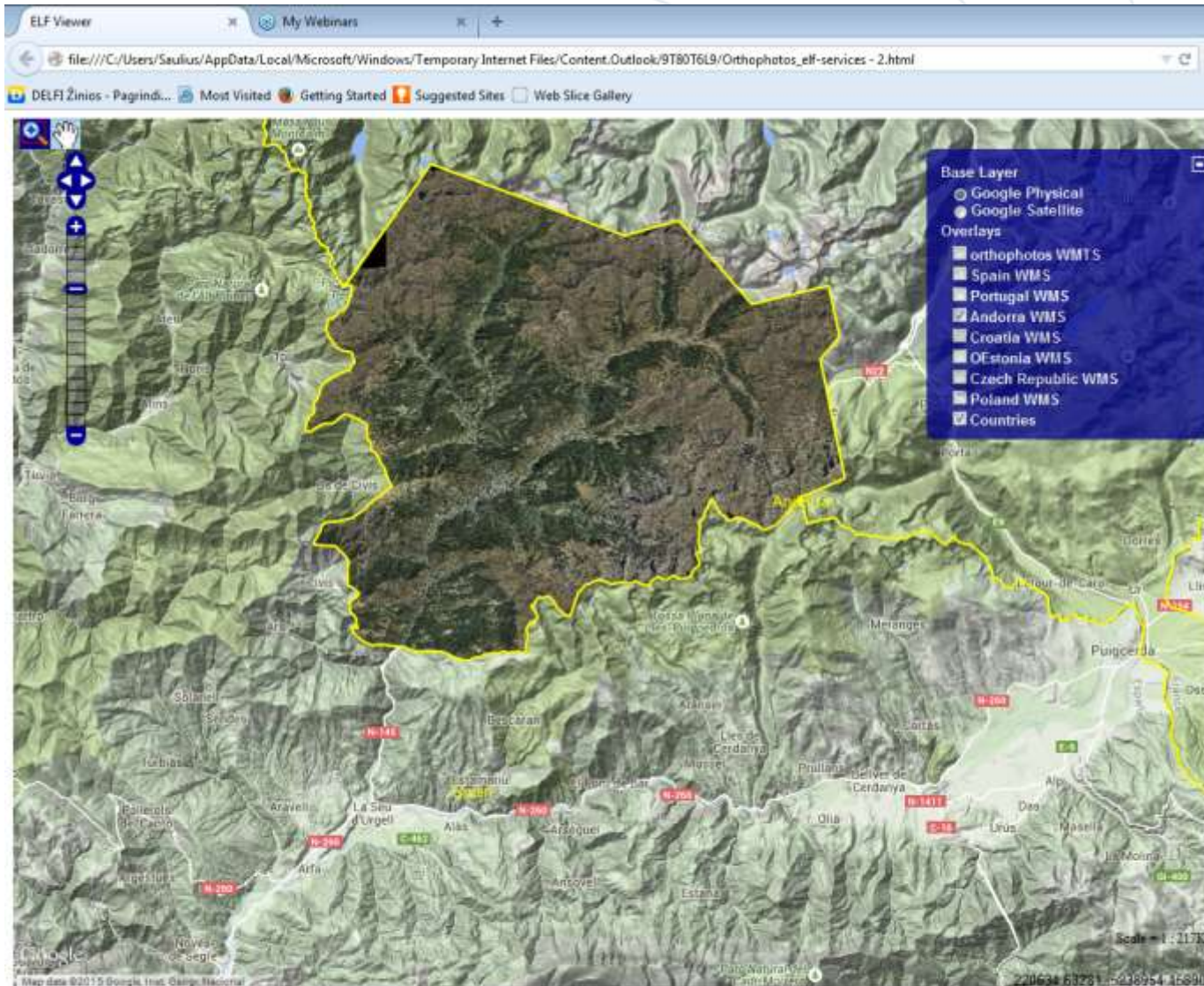




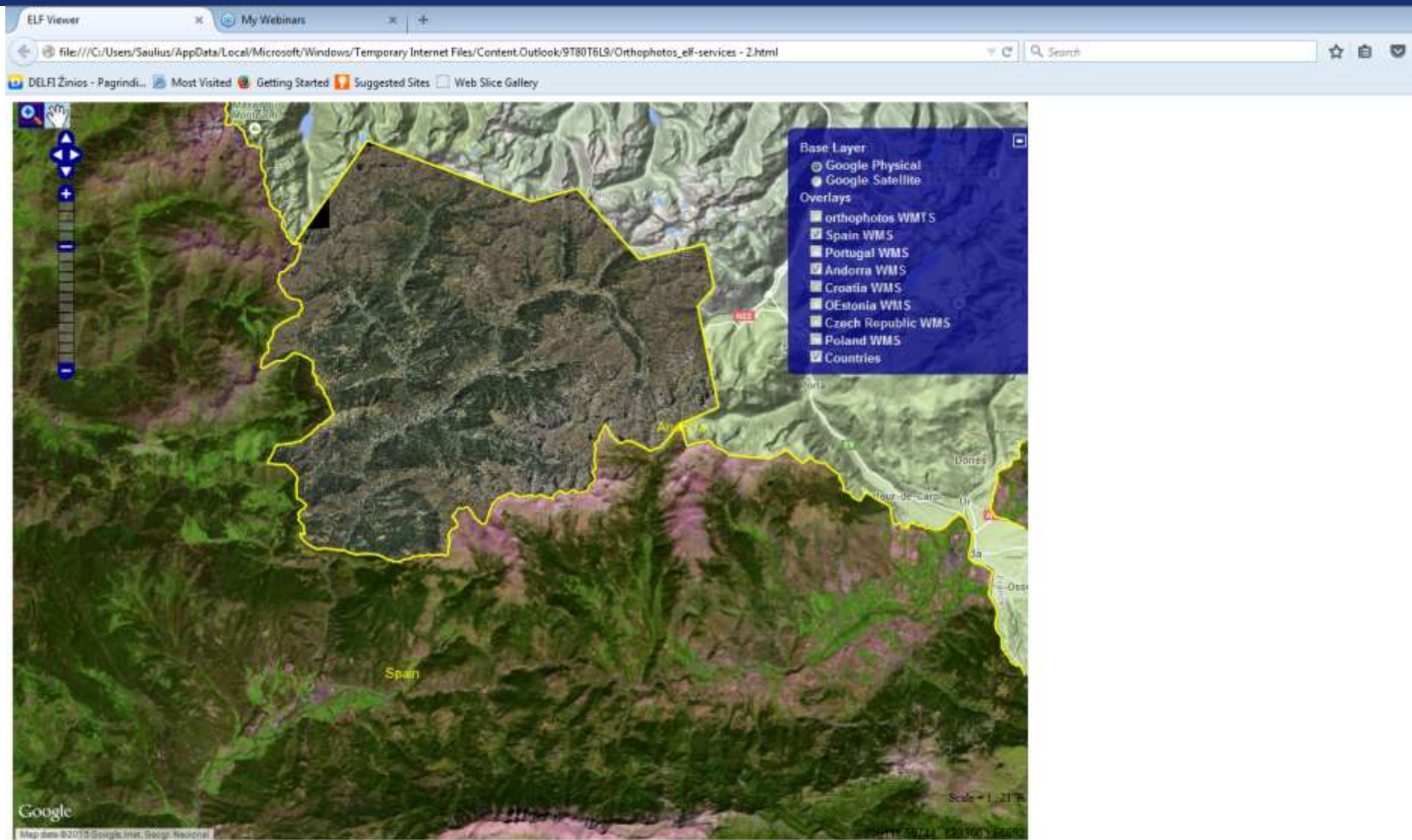
ELF Imagery service (prototype)



ELF Imagery service (prototype)



ELF Imagery service (prototype)



- ★ Tests/evaluation of the ELF Imagery View Service in combination with other ELF products
 - ★ Possibly hosting from the same premises
 - ★ Harmonise tiles to ELF BaseMap tiles (scales)
- ★ Contact NMCAs for arranging access to the national view services
- ★ Licensing and pricing arrangements

Thank you for the attention!

www.elfproject.eu



ABOUT ELF

Welcome to the web site for the **European Location Framework (ELF)** project. Launched in March 2013, the project will run for three years and deliver a pan European cloud platform and web services to build on the existing work of the INSPIRE Directive and enable access to harmonised data in cross border applications.

Latest News



UPCOMING EVENTS

Joint EULIS & WPLA Event

Copenhagen, Denmark
Wednesday, May 21,
2014 to Friday, May 23,
2014

EUREF 2014 Symposium

Vilnius, Lithuania
Wednesday, June 4,