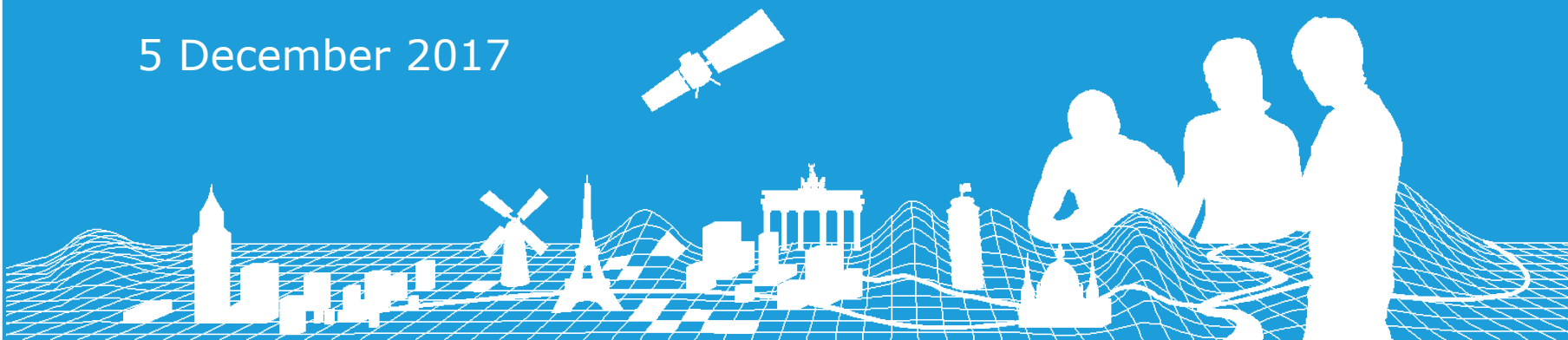


# European Location Services

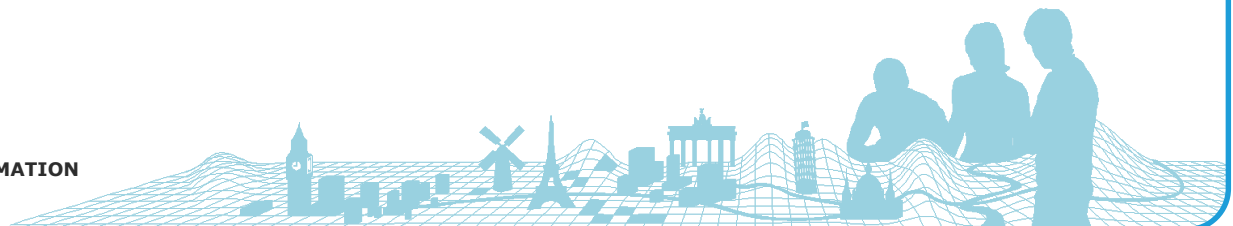
Overview for Copernicus KEN

5 December 2017



# What are European Location Services?

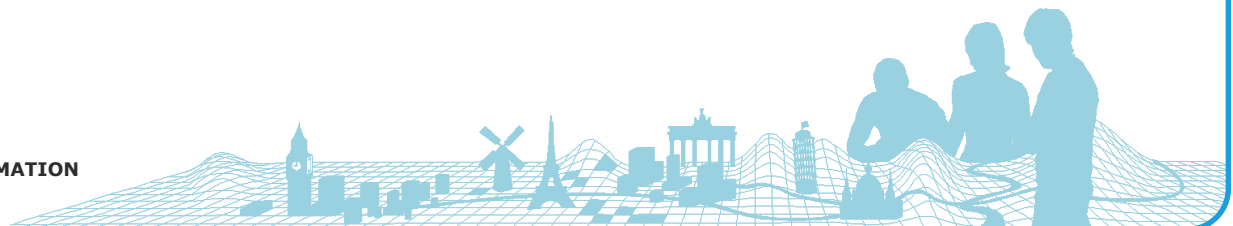
- The gateway to pan-European maps, geographic & land information from national sources.
- A single source of official, quality-assured data from Europe's National Mapping, Cadastral & Land Registry Authorities (NMCAs).
- A single point of access for licensing official data from different agencies & different countries.



# Why is it important?

European Location Services provides:

- Harmonised data quality, specifications & standards
- Harmonised pricing & licensing
- Harmonised access to NMCA data



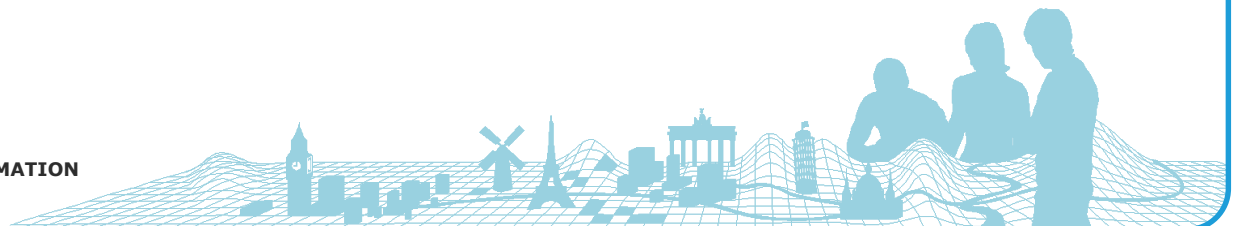
# What are the benefits?

## European Location Services:

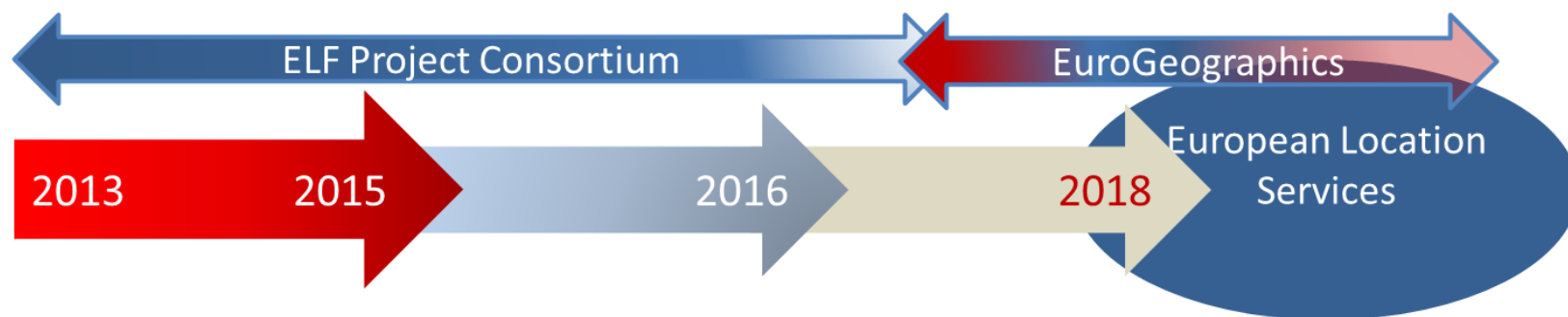
- Saves time & costs
- Encourages reuse of public sector information (PSI)

## Data are:

- Accessed from a **single source** – no need to approach multiple countries, negotiate multiple licenses or pay multiple fees
- Delivered to **common & consistent specifications** – no need for further harmonisation
- **Consumed as a service** – simplifies information management



# European Location Services Transition Programme objectives



## ***European Location Framework project***

Established standards, tools, technical infrastructure and pilot services – the ELF Platform

Pilot products & services to defined standards (INSPIRE-compliant spatial reference data, harmonised at a cross-border and pan-European level)

## ***Transition Programme (Oct 2016 – Oct 2018)***

Build on ELF Platform and hand-over ownership of the ELF platform from ELF Consortium to EuroGeographics

Design and build operational and customer focused services with key partners (Kartverket, Kadaster, OSGB, NLSFI, BKG)

Establish the organisational model for operations

## ***Operational European Location Services***

Provide reliable and efficient products/services for pan-European users

Single point of access for licensing official data on European level

Business model and business case in place

Delivery organisation decided

Operational model implemented

# Deliverables of ELF project

- Technical infrastructure
  - To enable users to incorporate data into application environment
- Some Test Services
  - Offers pilot products & services to defined international standards
- Tools
  - For data harmonisation & edge-matching
  - For identifying areas of interest & products
- Practical example of INSPIRE implementation
  - Supporting the delivery of national web feature services
  - Providing valuable feedback on data specifications

# Objectives of OpenELS from Transition Programme perspective

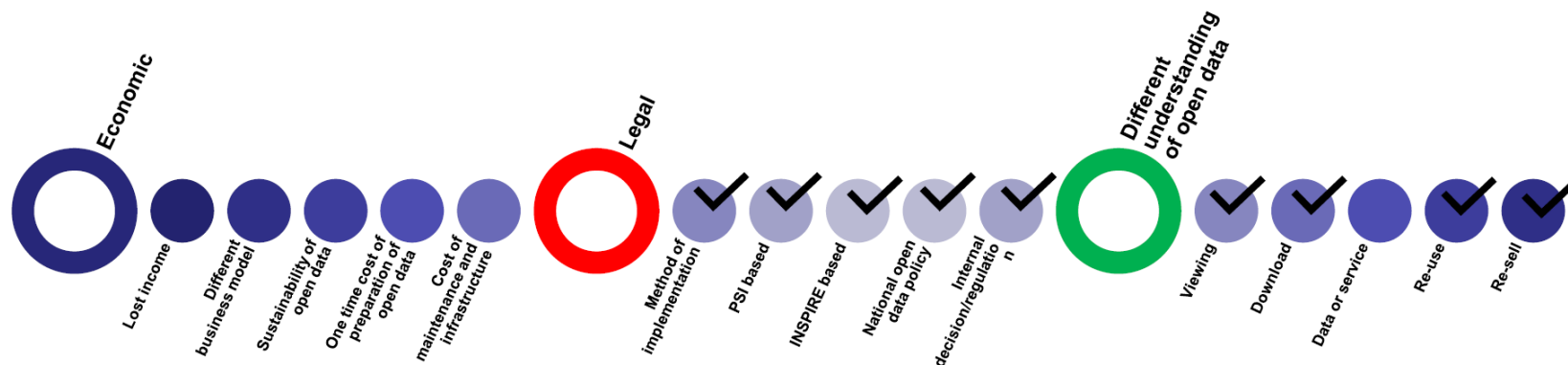
- Open ELS is a 2 year project (starting May 2017)
- Led by EuroGeographics, with partners:  
KARTV NO; KADASTER; NLS FI; OSGB; SDGC; NLS-SE; CNIG; GUGIK; BKG
- Funded under the Connecting Europe Facility (CEF) Programme

Incorporation of Open ELS project in Transition Programme:

- Open ELS project builds on the ELF project
- Transition Programme relies on key elements of the Open ELS project (e.g. coordinating groups, policy development, coordinating, managing and supporting the supply of data)
- Sharing ELF technology platform and some ELS transition programme product development activities
- Focus on user orientation and requirements activities in Transition Programme and Open ELS project

# Open Data Policy

## Potential problems and obstacles

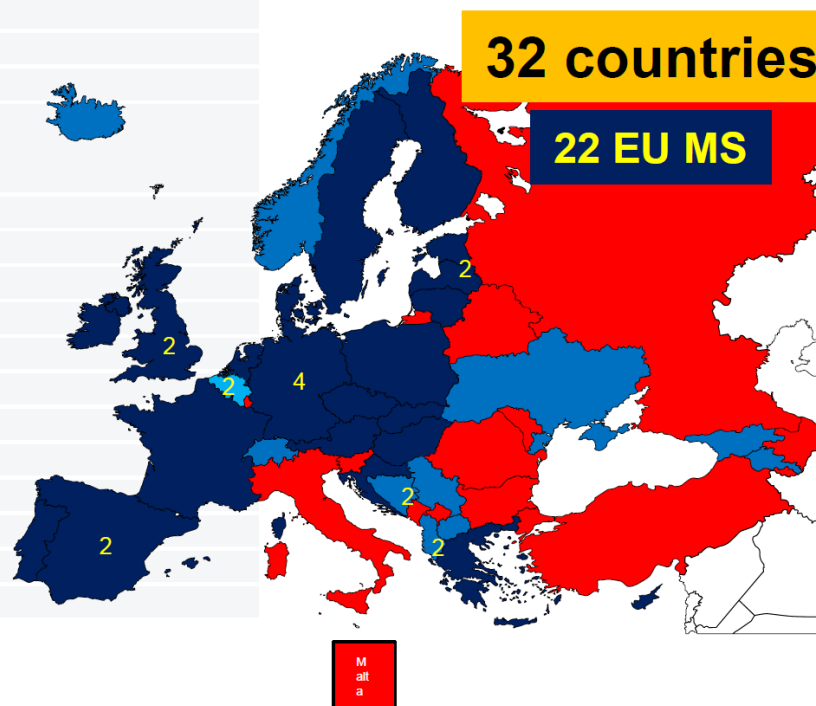




# Open Data Policy

44 Responses until 11th of November

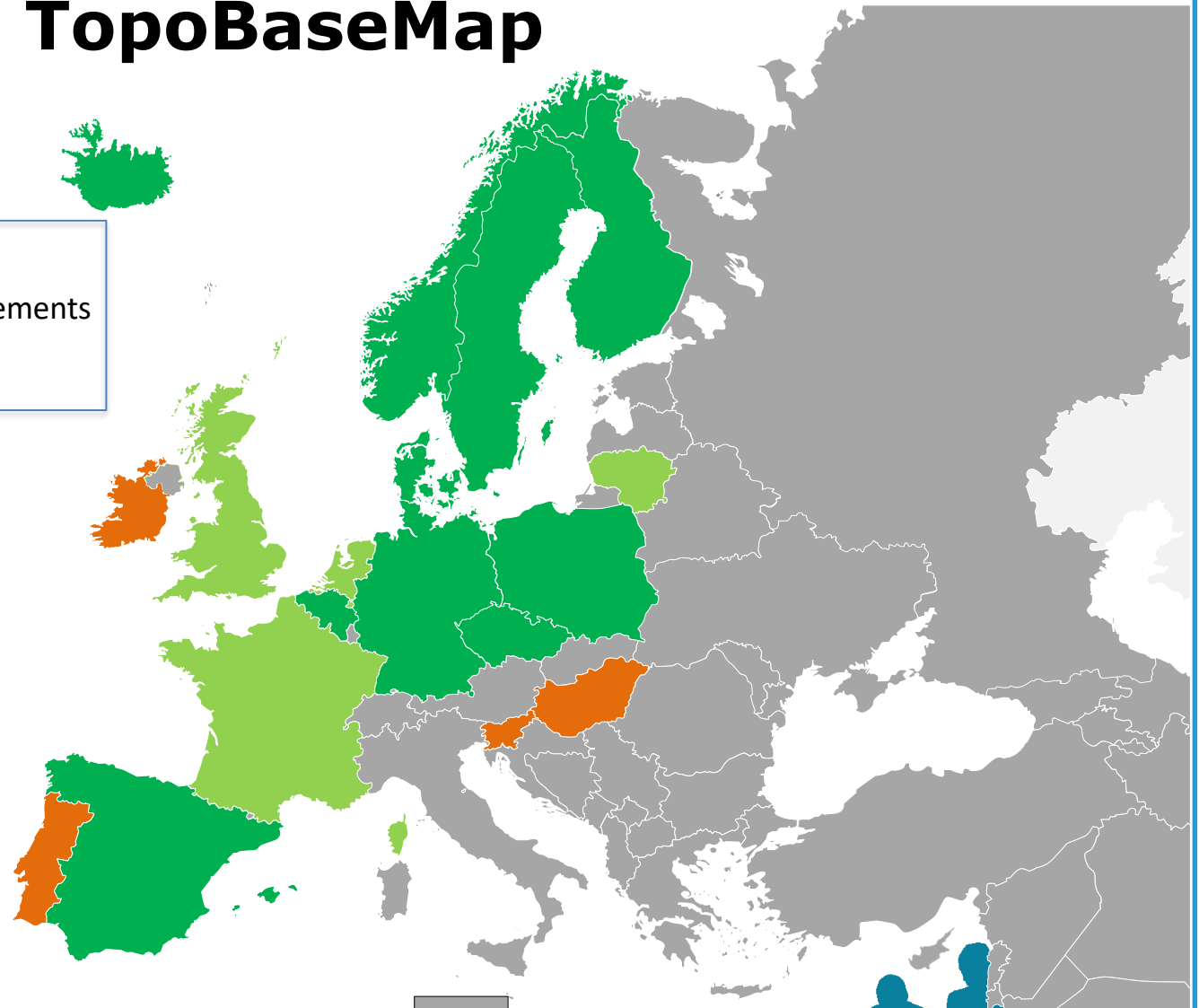
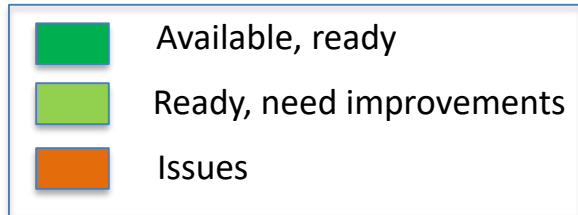
Albania	Ireland
Armenia	Latvia
Austria	Lithuania
Bosnia and Herzegovina, Republika Srpska	
Belgium	Norway
Croatia	Poland
Cyprus	Portugal
Czech Republic	R.Macedonia
Denmark	Serbia
Estonia	Slovakia
Finland	Spain
France	Sweden
Georgia	Switzerland
Germany	The Netherlands
Greece	Ukraine
Hungary	United Kingdom
Iceland	



# Definition of Products (High Level)

- ELS View Services (ELS Topographic Base Map; ELS Cadastral Index Map)
  - Web Map Service (WMS – OGC) – raster tiles
  - Pre-styled (NMCAs implement agreed styling)
  - Reference/ base mapping
- ELS Feature Services
  - Web Feature Service (WFS – OGC) – vector
  - ELF Compliant INSPIRE services from NMCA
  - National services & “Cascaded” service availability
- ELS GeoLocator
  - Web Feature Service, with Gazetteer Extension (permits GeoCoding & reverse Geocoding)
  - Central database (EuroGeoNames) + NMCA services

# Coverage: TopoBaseMap



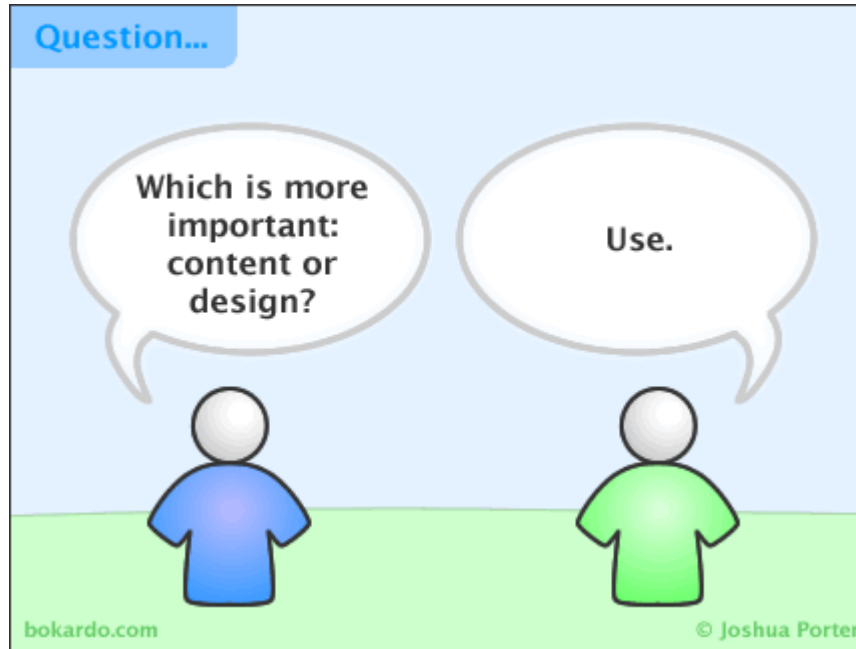
Malta



# Understanding Availability

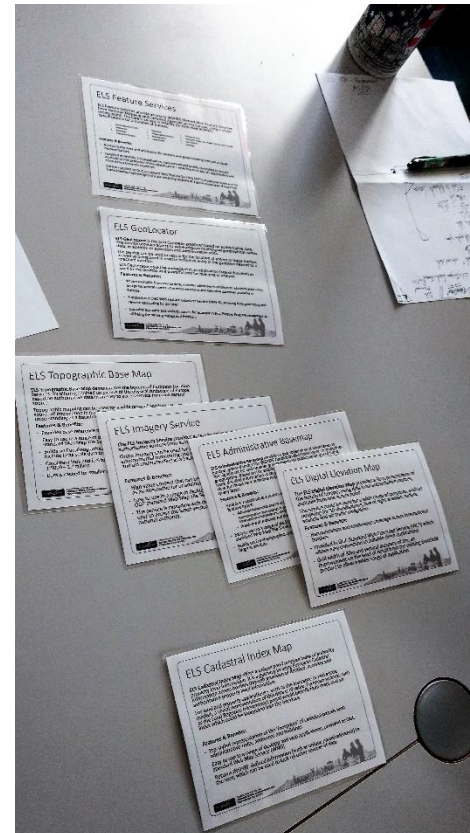
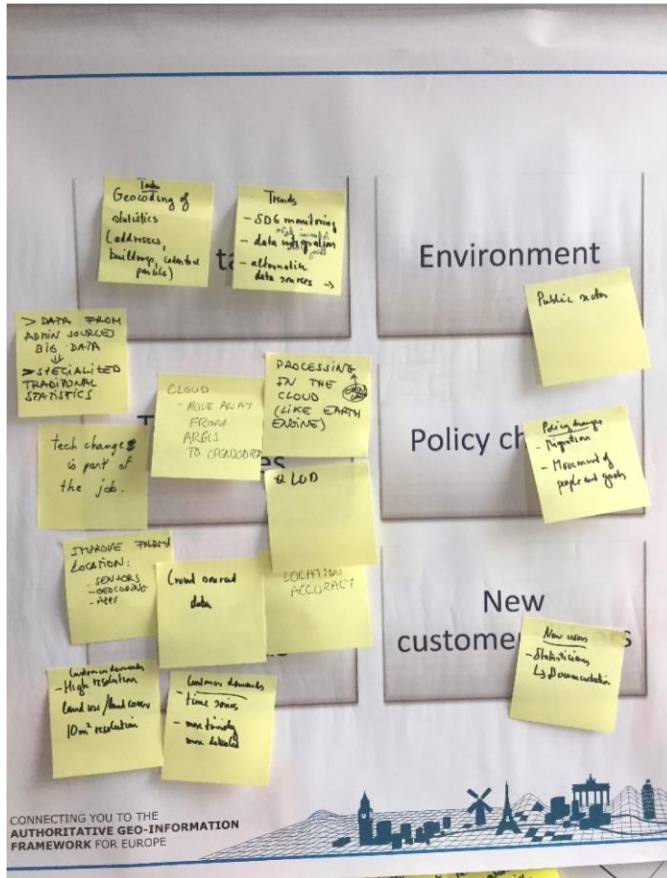
- Update position on availability from EG member
  - Information on services/ content
  - Terms of the availability
  - Joint survey with JRC – results being analysed
  - DEM Survey (validation; support to EEA)
- 
- Tasks in OpenELS on Capacity Building & Support – content coverage plan (prioritised by demand)
  - Process for “ingesting” new services and supporting our members to contribute in place

# Customer Focus – an opportunity and a challenge



- We must prioritise. ELS must be used. Customers will influence ELS Development.
- To develop products, we will show, listen, react... show, listen, react... (iterate)
- **We need user engagement to move forward**

# Understanding Demand: Direct Conversations with Users



# Evaluating ELS

- Our evaluation programme allows for a limited number of key organisations to understand ELS further and assist our future development
- Under an evaluation licence, access a selection of services and provide feedback while being supported to assess the benefits of ELS to your organisation
- Following initial evaluation, an opportunity to be selected for the first of a limited number of ELS demonstrator projects