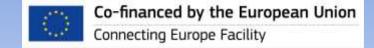
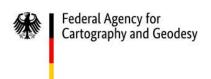
## Open European Location Services

What Open European Location Services will offer Users

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INSPIRE KEN Workshop 27 November 2018

























## About European Location Services

### Vision



To provide the single access point for international users of harmonised, pan-European, authoritative geospatial information and services.

For National mapping, cadastral and land registry authorities to be recognised in our International effort to contribute to the wider public good.

- A single source (gateway) of official, quality-assured data from Europe's National Mapping, Cadastral & Land Registry Authorities (NMCAs)
  - Provide authoritative, pan-European data content
- Provide services that complement but do not compete with - national services developed to meet INSPIRE Directive requirements

### **Benefits**

- 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
- Encourages reuse of public sector information (PSI)

### Overview



## Aim of the OpenELS Project

Open ELS aims to provide European open data services to maximise the:

- Use of authoritative geospatial information by providing certainty about what is free, what is charged for and under what terms and conditions.
- Benefits of open geospatial information from official national sources by making it easy to find, access and reuse.
- Contribution of public authorities responsible for mapping, cadastre and land registries in delivering user-focused open data for European Location Services.

## What will OpenELS deliver...?

### The Open ELS Project will deliver the following:

- Open ELS data policy
- Open ELS Standard Licence and terms of use
- Open ELS help desk
- Open ELS business model and operational plan
- Open ELS Data Provider agreement
- Three prototyped use cases
- Report on compliance with the MQA applied by the European Data Portal
- Open ELS linked to European Data Portal
- Implementation of eTranslation
- Final Open ELS platform

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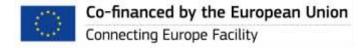
## **Grant Agreement Milestones**

### Milestones achieved

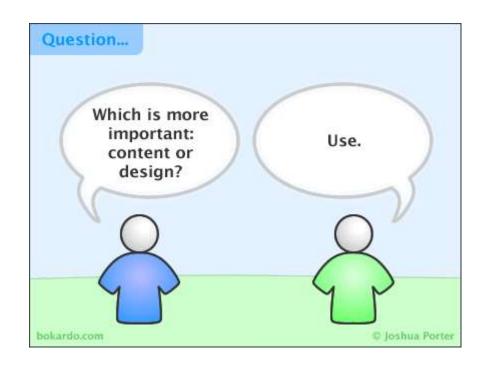
- Open ELS data policy available
- Open ELS licence available
- Compliance with the MQA (European Data Portal Metadata Quality Assurance)
- Open ELS support desk available
- Signed Open ELS Data Provider Agreements (ongoing task)

### Milestones in progress

- Economic appraisal and Business plan for Open ELS (December 2018)
- Final Open ELS platform (April 2019)
- Availability of 3 prototyped use cases (January 2019)
- Implementation of eTranslation (April 2019)

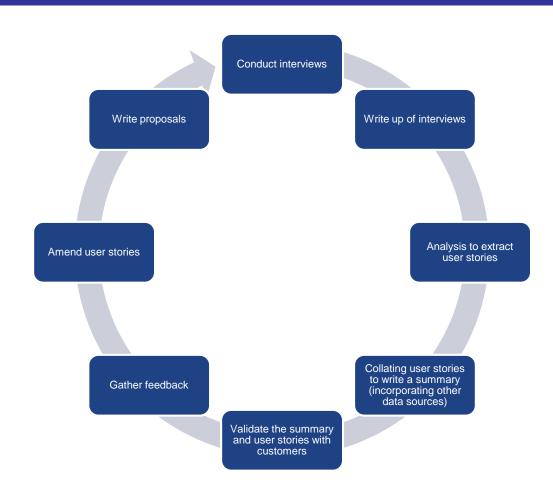


## Customer Focus – an opportunity and a challenge



- We must prioritise. European Location Services must be valued.
- Customers will influence the development of European Location Services.

## Open ELS User Process



## Objectives of User Centred Approach in OpenELS

- Using information already gathered during ELF project
- Needed more detail information = Discovery programme
- An established methodology to facilitate User-Centred Design
- Focus on highest priority problem spaces
- To understand fundamental content and access needs, not talk about current products
- Understand the policy objective, geospatial data needs, how it is done, and what would improve it?
- Iteratively use Discovery to understand evolving customer needs

## **Discovery Interviews**

# PURPOSE – To capture the key customer problems and the tasks and content needs to address those issues

Interview Template

What is the problem you are trying to address?

What policy or outcome does this relate too?

What steps do you take to complete this task?

| throduction  ♦ Introx  ♦ Introx  ↑ Thanks very much for agreeing to must with us and to talk to us about you  ♦ We would like to understand your task in more detail, particularly the data  ♦ This is a 1 hour session using set questions to goide the conversation (a bit  ♦ We will be taking notes throughout | requirements of your task to inform future product development                                       |
|--|--|
| Complete this section before the interview   |  |
| Scenario   | Describe the high-level reason for the fask as you understand it - verify with the user if necessary |
| Task Name  |  |
| Task Type  | High level category  |
| Interviewee role & organisation  |  |
| Interview date and interviewer   |  |
| Interview ID   | s.g. InterviewRecord000**  |

What geospatial data do you need to carry out the task?

Who is involved? What tools do they use?

What might affect this task in future?

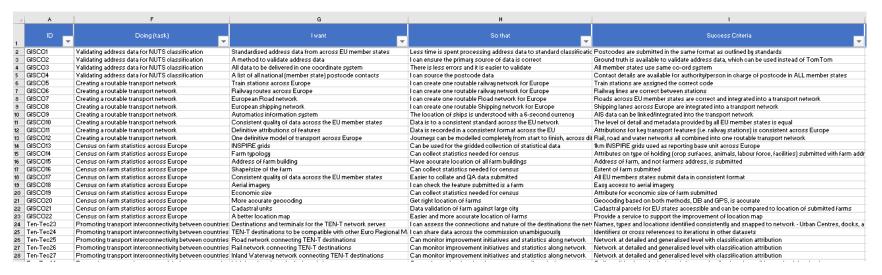
## **Developing User Stories**

As a...

I want...

So that...

Success...



### Consolidation

### Transport

#### **Customer Task**

- · Creating a routable transport network
- Promoting transport interconnectivity between countries for subsidies
- · Collating traffic accident statistics

#### Policy drivers

- TEN-T policy Treaty on the Functioning of the EU
  - · European Union guidelines

#### Requirementating Europe Facility

- · Standardised spec and metadata, including UID
- Connectivity for all transport modes and multi-mod
- · Transport hubs
- · Planned and under construction roads
- · Generalisation tools
- Traffic accident data aligned to road segments

#OpenELS



### Addressing

#### **Customer Task**

- Validating address data for NUTS classification
- Geocoding
- Census for farms

#### Policy drivers

- Common Agricultural Policy
  - Economic support for investment and salary
  - Rural development
- JRC
- European Food Safety Authority

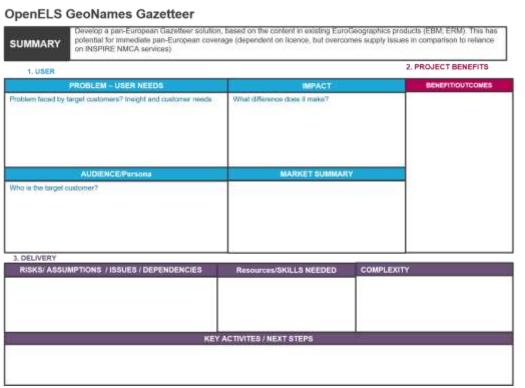
#### Requirement

 Authoritative, standardised and accurate addresses including postcodes and cadastral parcels





## **Product Proposals**



- User Need
- Data availability
- Resource availability
- Impact (for user & project)

## User Centred Design is a Continuous Process

### Common User Testing Techniques:

• Survey SME Survey in progress

Focus Groups Potential (webinars?) by theme/ user type

In-depth Interviews Could extend to SMEs/ more users

"Beta" tests
 Evaluation with EEA – Copernicus EMS

• A/B Tests Challenging for INSPIRE...?

## Services in Development (1/2)

EuroGlobalMap as a Service – making existing EuroGeographics open data available through Open ELS as a web feature service, will allow improved access for users. It will allow the project team to offer a pan-European open data topographical product as part of the suite of Open ELS services, including future enhancements planned such as generalised NUTS3 boundaries which will enable connections to statistical data.

Regional Geographical Names — There is significant interest in availability of maintained pan-European gazetteers based on authoritative data to enable geocoding and a range of applications. Using content from existing EuroGeographics products, EuroRegionalMap and EuroBoundaryMap in a new way, this service will provide a pan-European gazetteer of Geographical Names at a regional level, which can be further developed into more detailed gazetteer services in future.

## Services in Development (2/2)

Open Cadastral Index Map —This web map service will offer a unique pan-European index of authority property level information. Users can also link (through the cadastral reference) with other useful data from cadastral registers. It will enable applications which need access to cross-border authoritative cadastral base mapping, such as for the land and property sector.

Addresses – Based on INSPIRE services from Member States, this service will allow a single access point to addresses through a web feature service. It will support users in a diverse range of sectors who require addresses for applications, such as geocoding and data validation, in addition to supporting address search functions in applications or providing data for emergency planning.

**Buildings** – Based on INSPIRE services from Member States, this service will allow a single access point to building footprints through a web feature service. The service will enable applications such as location of urban extents (e.g. for planning, emergency management or statistical purposes) in addition to supporting land and property applications.

**Transport Network (Road & Rail)** — Based on INSPIRE services from Member States, this service will allow a single access point to transportation network themes through a web feature service. It will be helpful for users who are interested in route optimisation, statistical analysis to support policy making and a range of applications requiring detailed transportation data.

## Open Data Policy & Licence

#### LICENCE

In preparation for the first Open ELS product releases, the Project has delivered an Open ELS standard licensing framework.

### Key Features

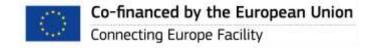
#### You are free to:

- · copy, publish, distribute, re-use and share the Open ELS Data
- · adapt the Open ELS Data & Services
- exploit the Open ELS Data commercially and non-commercially, for example by combining it with other information or inclusion within your own product or service

#### We ask you:

 Attribution – you must acknowledge the source of the OpenELS Data by linking to any attribution statement specified by the Licensor/s and where possible a link to this licence.

https://openels.eu/licence/



### Conclusion

### Results from User Centred Approach –

- Brought focus and greater understanding
- Validated existing work
- New ideas and potential discovered
- Evidence base for investment of resources
- Collaborative and stronger relationships with users

### Challenges -

- Identification of users
- Availability of Users remote working environment, B2B/B2G
- Ensuring broad representation of potential users
- Constrained by what's actually possible (e.g data availability!)

### **Contact Details**

## www.openels.eu

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