



ELF EUROPEAN
LOCATION
FRAMEWORK

Migration from EuroGeographics Products to ELF

Presentation to: EG Technical Producer Meeting

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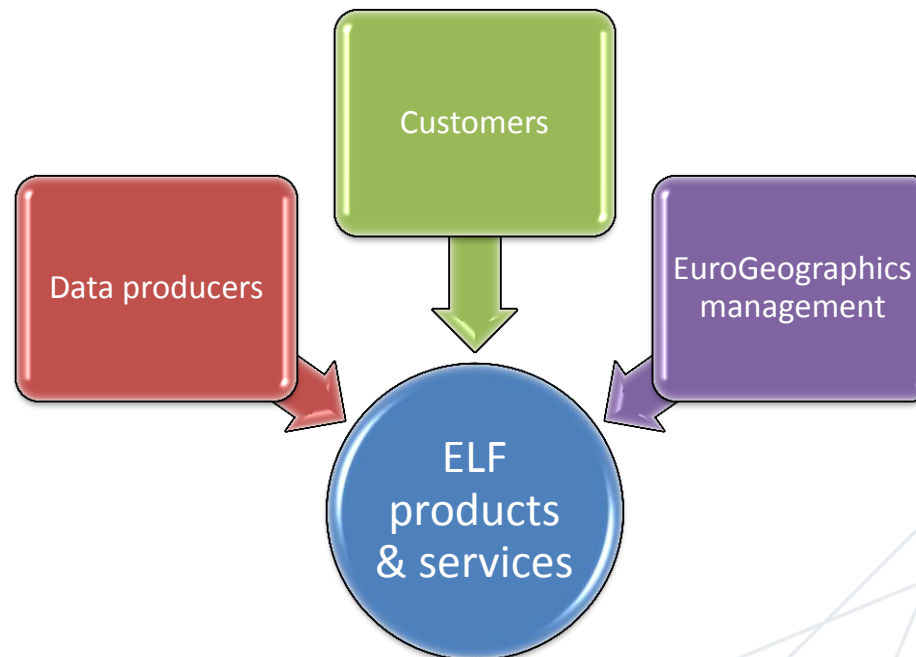
Date: 01 April 2015

Migration from EG Products to ELF

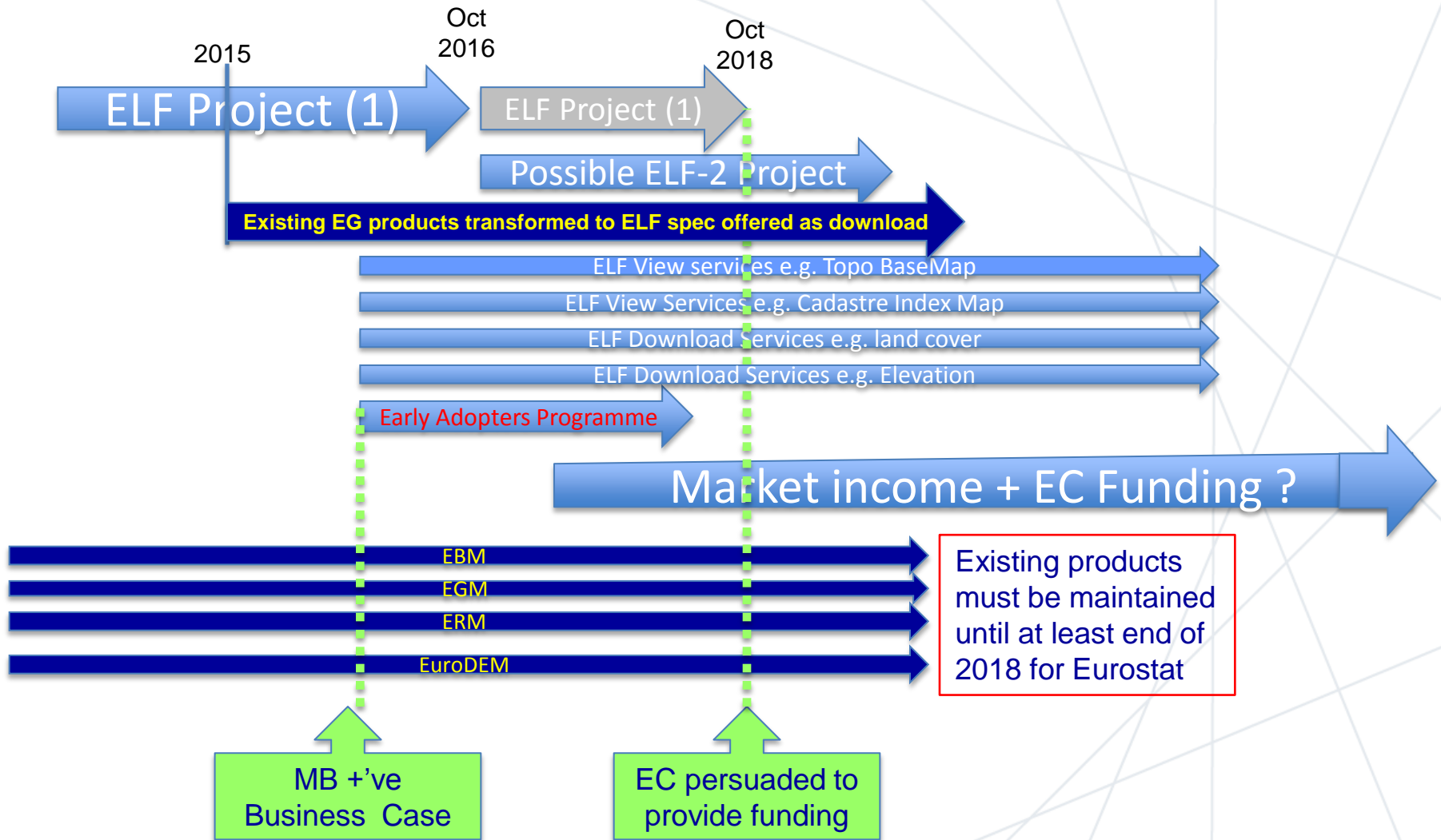
- ★ Objective: From data to services
- ★ ELF approach to Transformation of EG products in ELF project
- ★ Product and service migration and development issues

From products to services

- ★ From the current product offering (datasets) to delivery as part of a service that may be defined as Data as a Service (**DaaS**) with elements of Software as a Service (**SaaS**) and potentially Platform as a Service (**PaaS**)



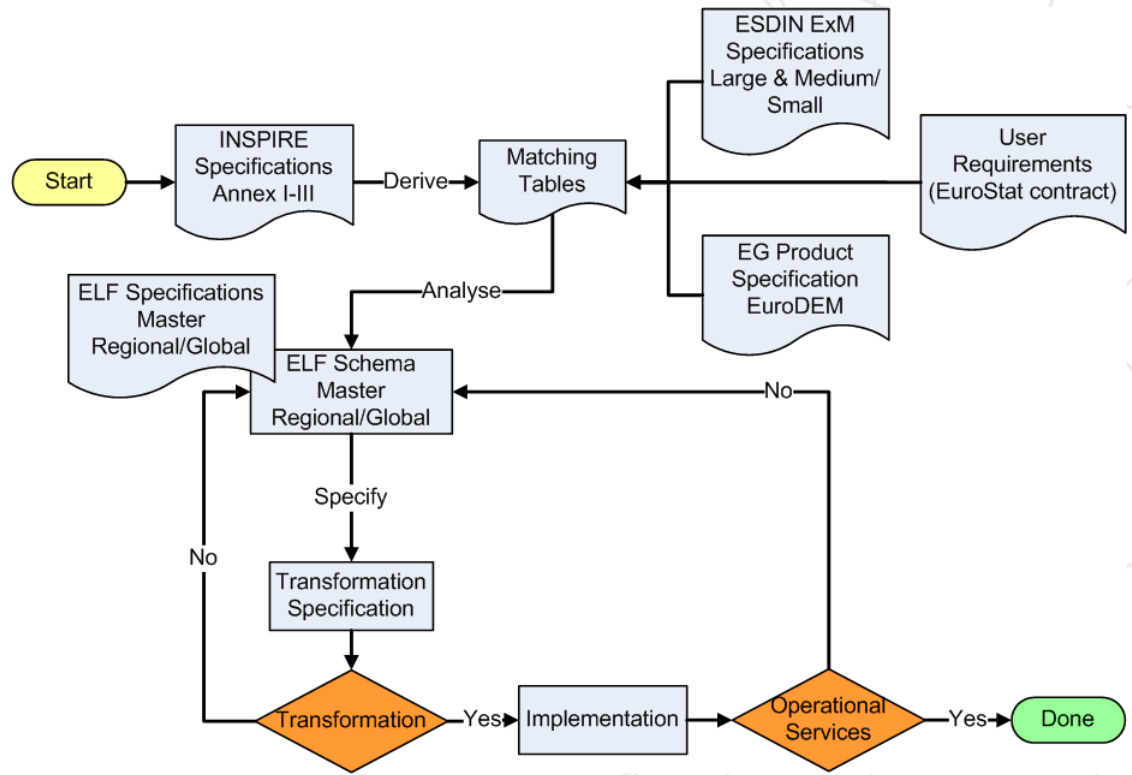
Project/Service development timetable



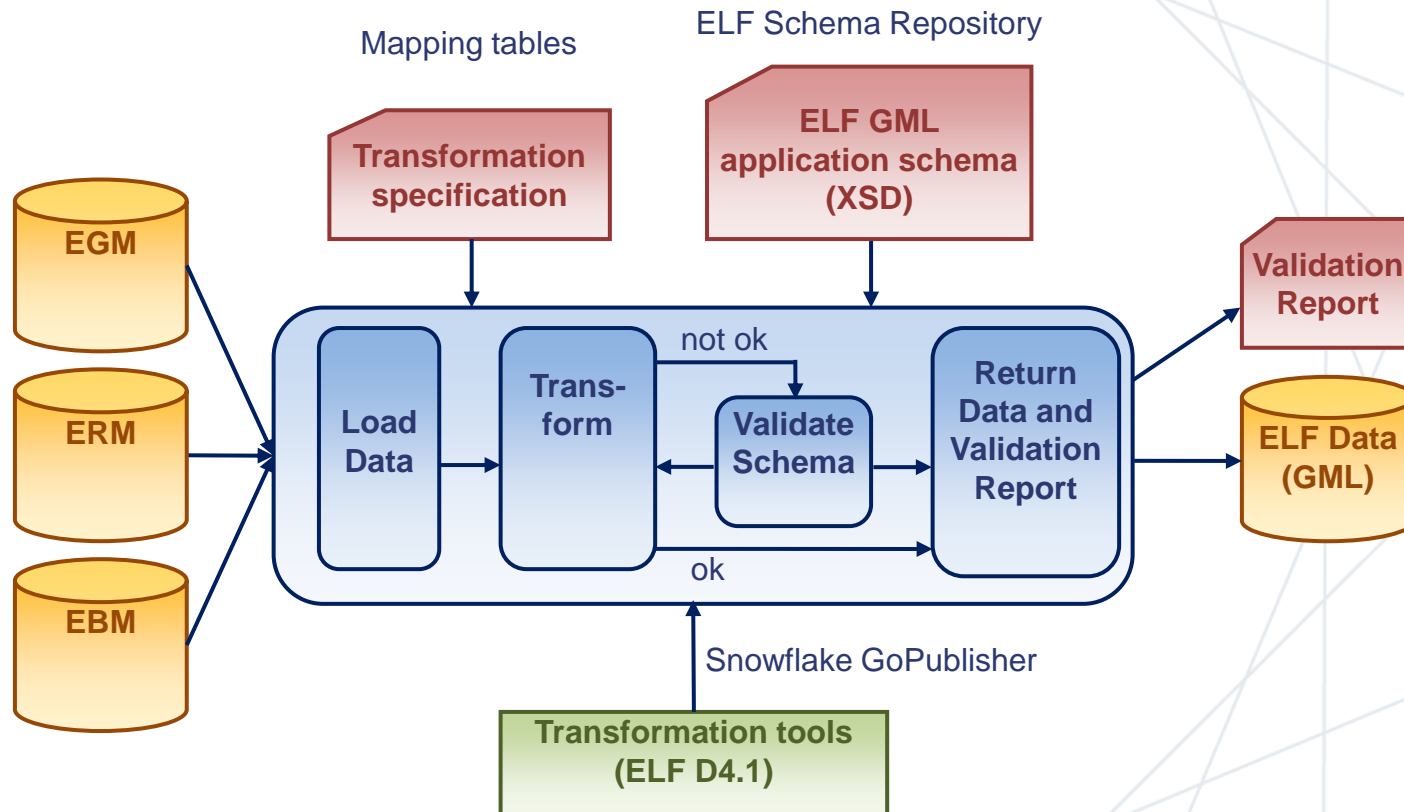
ELF approach and status

ELF Approach to Transformation

- ★ Schema Matching
- ★ Schema Mapping
- ★ Schema Transformation



Transformation Process



Transformation of EG products

★ Status

Source		Target	Example
EBM		AU http://www.locationframework.eu/schemas/AdministrativeUnits/0.1/	http://www.locationframework.eu/schemas/AdministrativeUnits/0.1/example/
ERM	TRANS: Airport Heliport	TN Air http://www.locationframework.eu/schemas/AirTransportNetwork/0.1/	http://www.locationframework.eu/schemas/AirTransportNetwork/0.1/examples/
	MISC	PS http://www.locationframework.eu/schemas/ProtectedSites/0.1/	http://www.locationframework.eu/schemas/ProtectedSites/0.1/examples/
	POP: BuiltupP	GN http://www.locationframework.eu/schemas/GeographicalNames/0.2/	
	POP: BuiltupA	LC http://www.locationframework.eu/schemas/LandCover/0.1/	

Transformation of EG products

★ Lessons learned so far

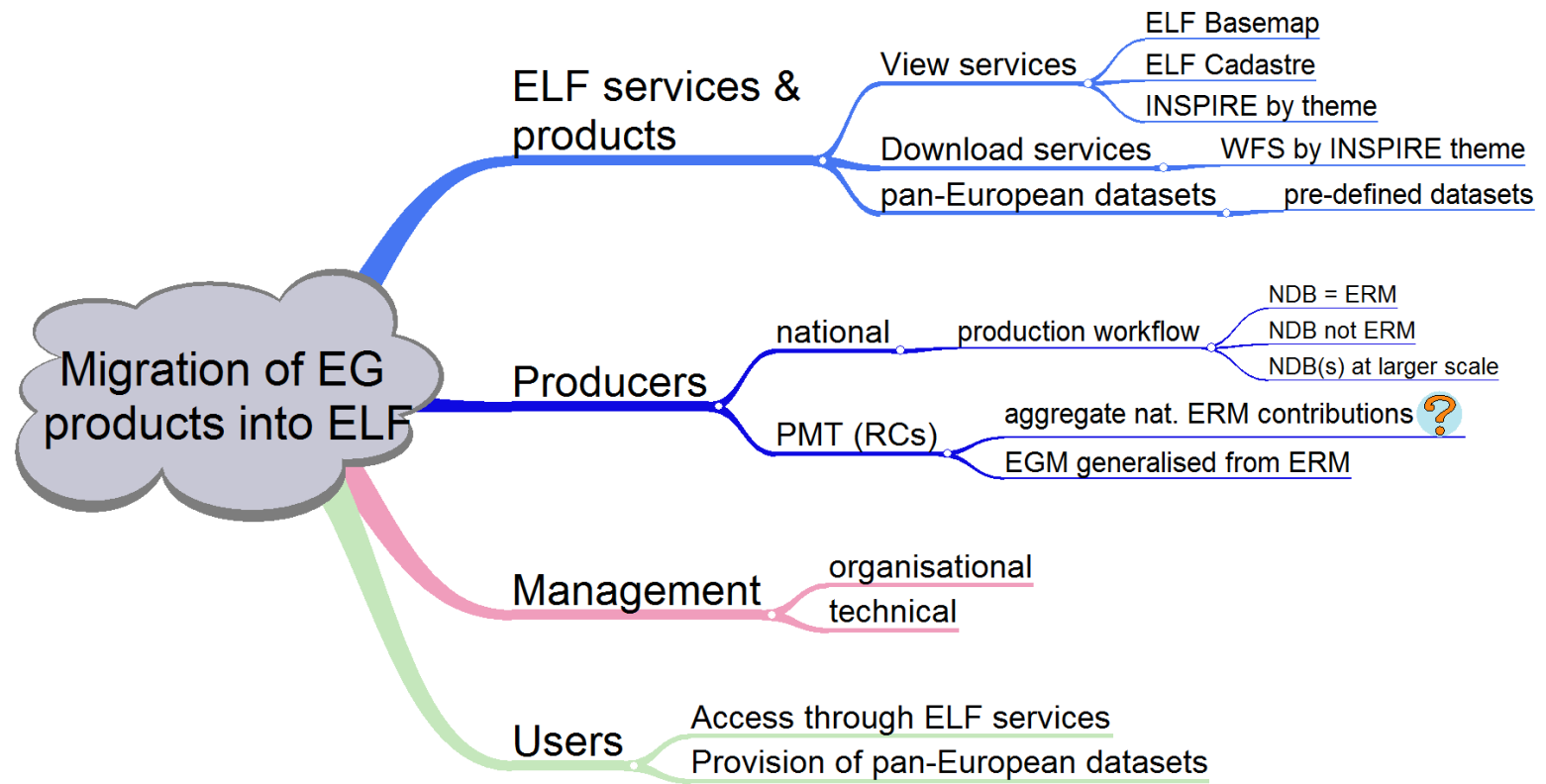
- ★ Understanding of source data structure required
- ★ Understanding of INSPIRE/ELF XML schema structure required
- ★ Implementation of complex feature and attribute mappings possible but sometimes challenging
- ★ Revision/Update of mapping tables along with implementation
- ★ Transformation itself very fast
- ★ Splitting output GML file by country (file size)

★ Next steps

- ★ Create ELF Regional WMS and WFS for transformed themes
- ★ Transform remaining ERM themes
- ★ Transform EGM and create ELF Global WMS and WFS

Product and Service migration

Product and service migration



Defining a Migration Plan 2015 – 2020

★ What is the ELF product and service vision for 2020?

-> **ELF WP9 and EuroGeographics**

★ What issues are raised by migration?

-> **products: ELF WP9 and EuroGeographics**

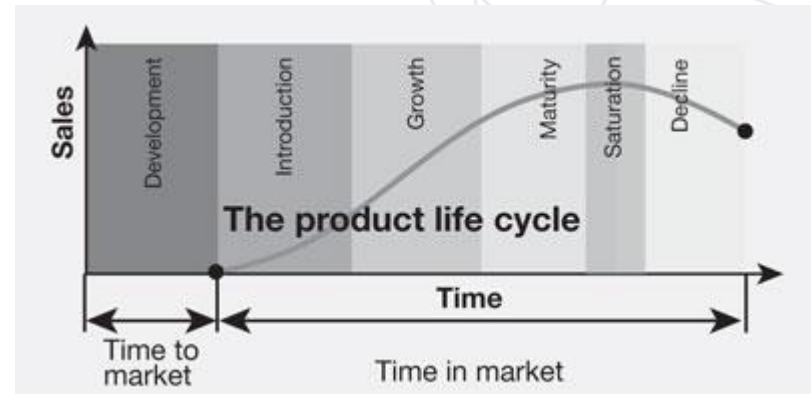
-> **production: EG data producers**

★ How technical issues can be managed?

-> **maintain different specifications at the same time**

-> **output data format**

-> **data quality**



Discussion

- ★ Those who have their national DB and transform to ERM. For this group to transform to ELF is not difficult, it is just a change in the end part of the process
- ★ Those who have adapted to ERM specifications for their national database. This is much more difficult to move to ELF specifications, if we change the ELF specification they have to do the same with their national DB
- ★ Then there are those who national DB is in a different level of detail, so they have to transform and generalise their data. This is the most complex. We need the ELF generalisation tools to help them but the tools focus on generalisation within Master level, not master to regional level.

Summary and Conclusions

- ★ ELF project results
- ★ changing the production workflow takes time
- ★ There may be a risk on data quality during this change period

- ★ Keep current production process and utilize the products in ELF (2015/2016)
 - ★ EBM v9.0 -> ELF Regional (AU)
 - ★ ERM v8.0 -> ELF Regional (topo themes)
 - ★ EGM -> ELF Global
 - ★ EuroDEM -> Hillshading for ELF Basemap