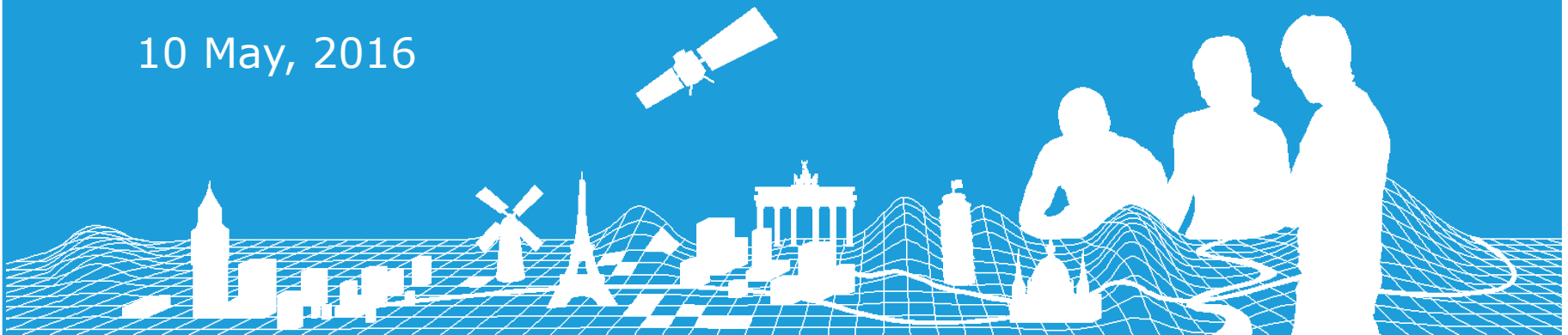


The Future of European Location Services

The technical infrastructure

Olaf Magnus Østensen, Director, Statens kartverk

10 May, 2016



Kartverket a strong believer in ELF and ELS!

A presentation on behalf of



Anne Cathrine Frøstrup,

Director General



Olav Petter Aarrestad, CIO,

Director of IT

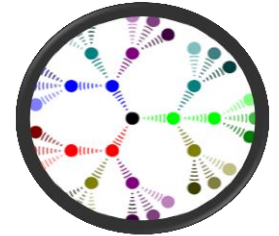


Olaf Magnus Østensen,

Director at DG staff
ELF Project
Coordinator

The Norwegian Vision and Strategy

Nationally




- A key player in Norwegian eGovernment
 - The Cadastre recognised as one of the three base registers
- National geospatial coordinator by law
- The national geospatial node
 - A national, governmental cloud platform for geospatial data and services
 - Geonorge.no – the national platform



based on the national collaboration «Norway Digital»

The Norwegian Vision and Strategy

International commitments:

- EuroGeographics 
- UN-GGIM
 - UN GA resolution on global geodetic reference frame
 - standards
- EEA Grant/Norway Grant - mechanisms
- ...
- Arctic SDI
- ELF – ***and ELS***
- ...



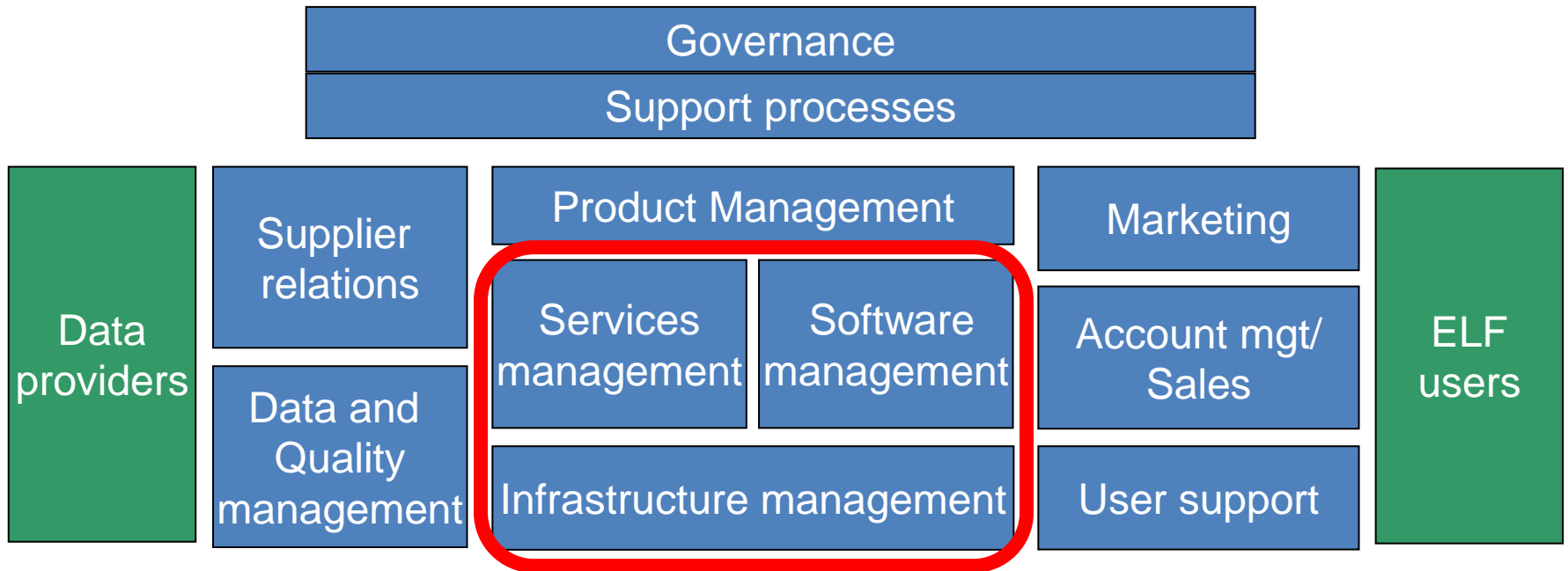
Kartverket's investment in ELF

- Overall project coordination (WP1)
 - Project administrator
- WP3 - E.L.F. Services and Data Content
- WP9 Sustainable access and use
- Total budget: 1 301 000 EUR
- Total number of person months – 94
 - approx. 8 man years
 - approx. 20 persons involved



Running an operational service

The role of Kartverket



Kartverket

Technical coordination

Services management

Web-sites:

www.locationframework.eu/schemas,
www.elfproject.eu

Basemap (topo + admin)
Cascading services, Geolocator,
Cadastral Index Map,
GeoProductFinder, performance, ...

Software management

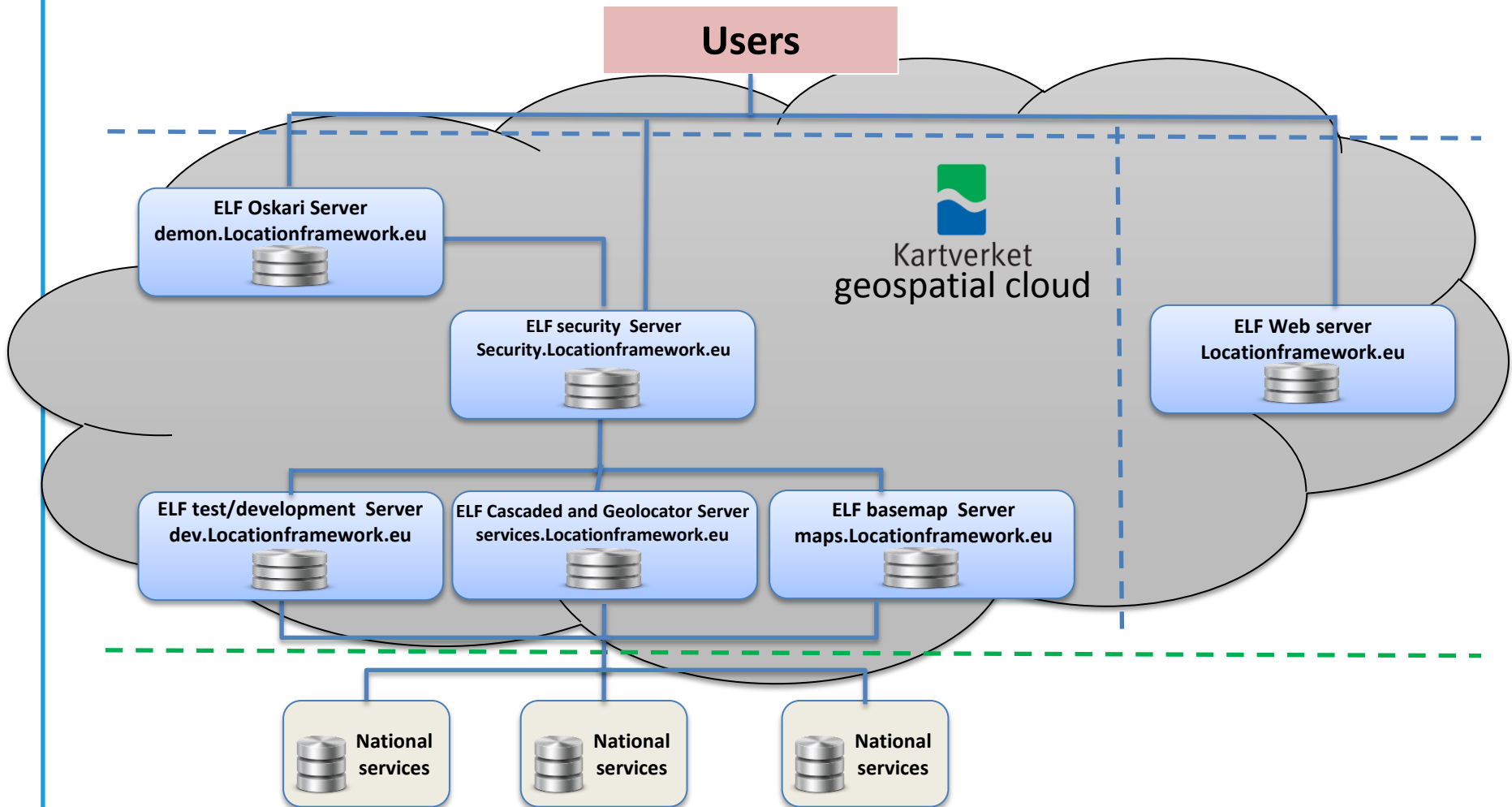
Oskari, Degree, Mapserver,
Geoserver, Security and license
server,

Table Joining Service, Drupal
Possibly:
Schema tools, Central geotools, ...

Infrastructure management

Servers, storage, network, operating systems,
Security, firewall, backup, mirroring, load balancing ...

Consolidated Basic Technical Infrastructure



Organisation and collaboration

- Software management
 - NLS Finland, Kadaster, EGHO
 - possibly others ...
- Service management
 - NLS Finland, BKG, EGHO
 - possibly others ...
- Infrastructure management
 - Mainly Kartverket itself



Risks and Issues



From start:

- Commitment from all parties
 - Seamless continuation from project phase
- The platform succeeds only if the underlying infrastructure performs
 - the national services
- Scaling
 - costs if great success
 - act quickly enough (cloud technology, but not Amazon ...)
- Competence in all components