

The organisation: Ministry of Transport, Public Works and Water Management (VenW)

The core tasks of VenW are:

- to guarantee safe, versatile and reliable accessibility over land and water, through the air, and for telecommunications and post
- to offer protection against floods
- to ensure clean and sufficient water

Key figures:

- Annual budget: 6 Billion Euro
- Economic value 25 Billion Euro
- Staff: 10.500 fte
- 160 offices
- Land-based infrastructure
 - o 3250 km of main roads
- Water-based infrastructure
 - o major rivers 850 km
 - o major canals 300 km
 - o North Sea
 - o 300 km of primary flood defences

Geo-information has been practised since the production of the first water map in 1611 and is considered fundamental in the information (delivery) chain.

Context

Business perspective:

- EU Water Directive
- Economising
- Ever-changing needs
- Crisis management
- INSPIRE

Current technology:

- Stove piping
- No interoperability
- Vendor lock-in
- Redundancy:
 - o applications
 - o data

Current organisation:

- Decentralised approach
- Redundancy

Goal

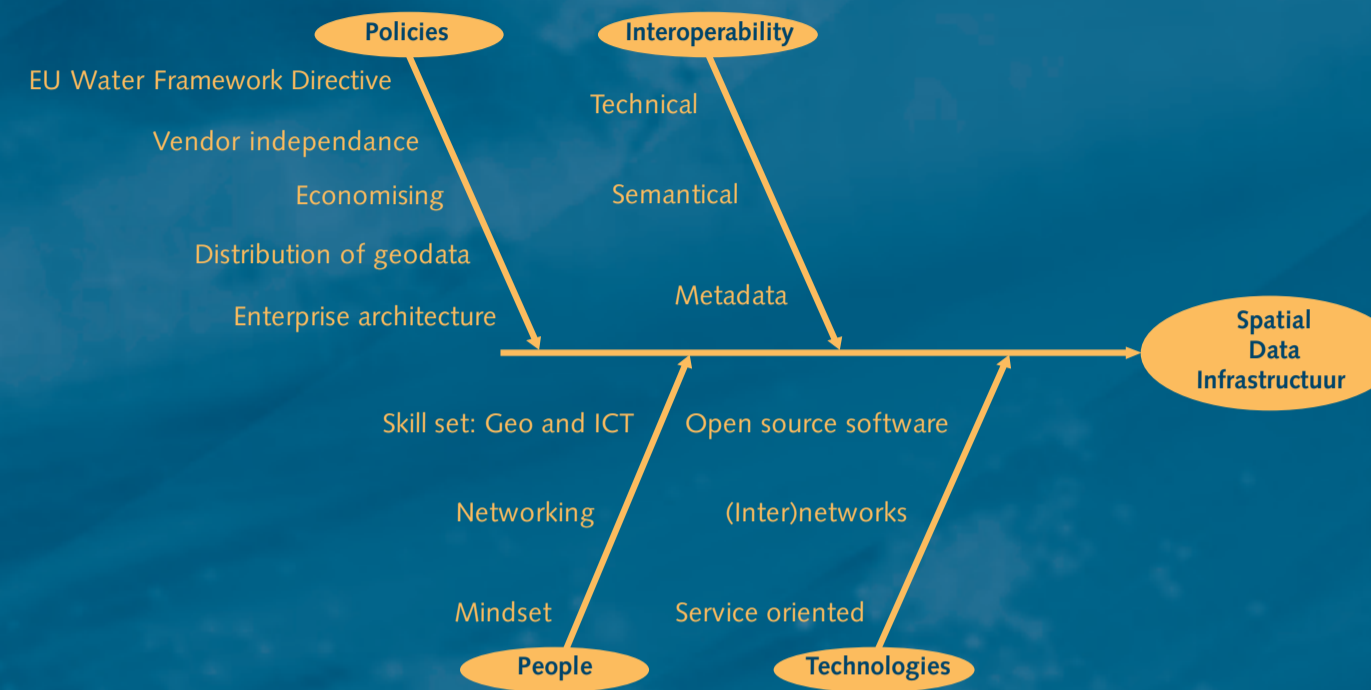
To create a flexible infrastructure for the use of geo-information at acceptable cost.

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Implementing an SDI framework at a Dutch ministry

Interoperability at work



Strategy



Applied specifications

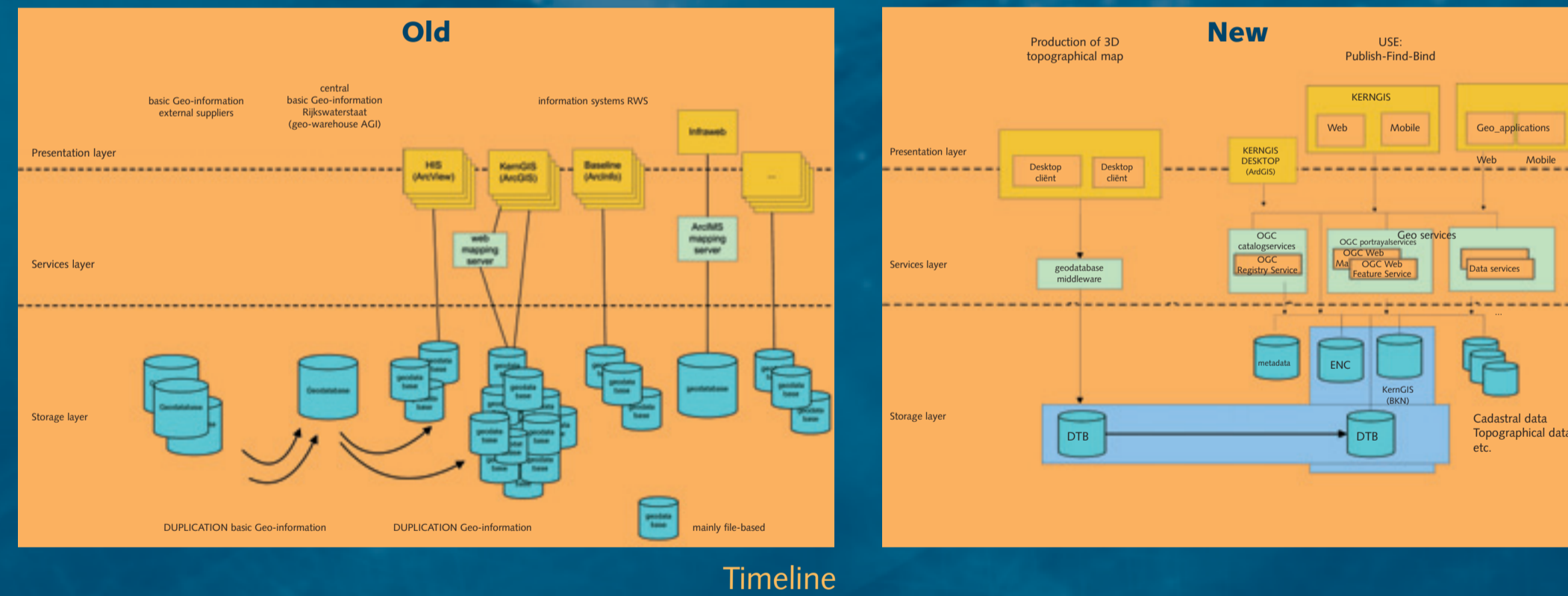
OGC:

- WCS
- WMS
- WFS / Filter Encoding
- SLD
- WMC
- WCAs / CSW

ISO:

- ISO 19115
- ISO 19119

Application Architecture



Application Areas



Future

- Need for semantic interoperability
- Feature editing
- Mobile clients

Summary

VenW is moving rapidly from vertical (geo)applications towards a service-oriented architecture using open standards. The main benefits are:

- Transparency
- Flexibility
- Uniformity