

customer's involvement and product improvement

LEAN Methodology in Geo-Information processes

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Programme

- Introduction:
 Cadastre in the Netherlands
- Geo-Information:
 Processes and Methodology
- Case: Improved actuality of the topographic map
- Results and developments





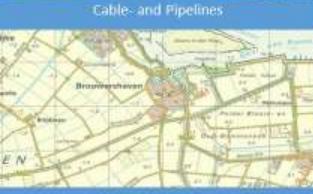


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Activities



National Registrations



Mijn Kadaster

	Irlegoods.	
人	Watthemet	
		Thire Hope 1

National Mapping

Geometrical Positioning

Information and Services

products and market

keyregistration

Products:

* standard (1:25K topographic map, and consecutive smaller scales (1:50K-1:M)

* customised

Customers:



* governmental: esp # Ministry of Defence,

Ministry of Infrastructure

Ministry of Infrastructure&

Environment

* public sector: # watermanagement,

forestry, etc

* private

Methodology (1): process & technique



LEAN - Toyota Production System

AutoGen – Automatic Generalisation

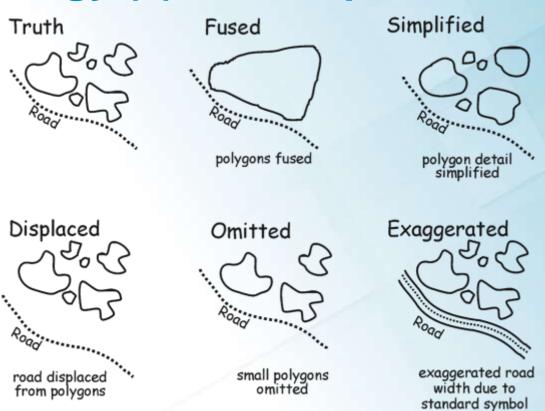




Methodology (2): technique

Automatic Generalisation:

generalisation concepts



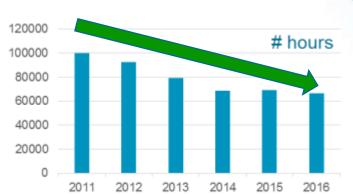
Methodology (3): LEAN



National LEAN award 2015



facts and figures "was / now"







data-quality



delivery-reliability 5 times a year



turnaround: 3 years > 2 weeks

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Challenges

- employees commitment: elimination of fieldwork and use of panoramic images
- process in detail ("informal parts")
- in-time-availability of (aerial) images
- o who (and where) are my users?
- continuous improvement









Actual <> Future (1)

Actual projects:

- demand driven!
- mapping in 3D of small landscape elements
- mapping of obstacles with pointclouds (helicopters, drones)
- inventory of asbestos roofs
- research on "rainproof": decreasing surface porosity in urban areas
- research on use of virtual guidence lines

Actual <> Future (2)

Future (challenges):

- actuality of (aerial) images
- continuous delivery
- >integrated/compound products
- >use of external data, including crowdsourcing
- integrating UN SustainableDevelopment Goals















