

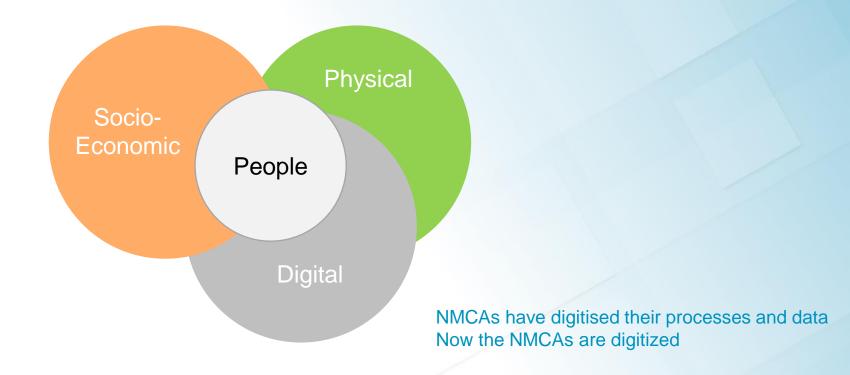
NMCAs role in the digital economy

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Cadastre, Land Registry and Mapping Agency
The Netherlands

Eurogeographics General Assembly Vienna, Austria, October 1-3, 2017

kadaster

View of the world





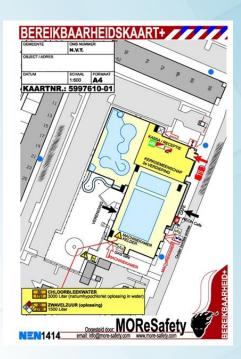
Case fire brigade

User's needs

- Complete picture for the issue at hand
- Issue at hand varies (no one size fits all)
- Up-to-dateness is critical
- Enable predictive fire fighting

Context

- Multiple sources of data/services (public, private, fire brigades)
- (Limited) sharing of data
- NMCAs data/serrvices are a sound basis, but only part of the solution



Digital Economy and Open (spatial) data

Data for free is not the only issue

Simple and harmonised licences across borders
Accessible (web developers)
Service levels
Discovery
Continuous (quality) improvement and feedback
Properly documented and correct metadata

Users are willing to pay for a service Trust is the basis of sharing data

Closed data

GDPR (general data protection regulation)
How to exchange data within Europe?
EDPS refers to national authorities





What about objects?

Personal Data Management Object Data Management



Data acquisition: simpler, faster, cheaper



Doe mee H

Hulp in Nederland F

Hulp wereldwijd EHBO

■ Menu

Doneer

Zoek C

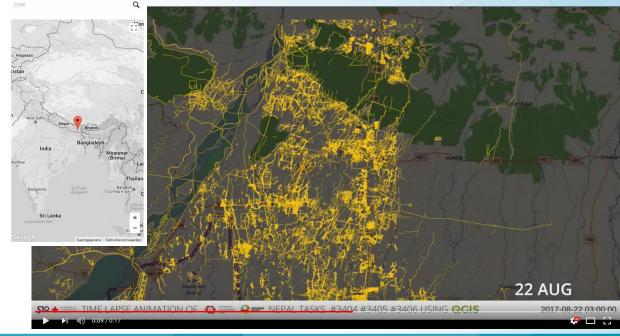
Emergency mapping for Nepal on request of the Red Cross

Mensen redden vanachter je laptop? Breng Zuid-Azië in kaart!

Geplaatst op: 19 augustus 2017

Je hebt het vast voorbij zien komen in het nieuws. Ruim 41 miljoen mensen in Zuid-Azië zijn slachtoffer van zware overstromingen. De helft van Bangladesh en grote gebieden in India en Nepal staan onder water. Hulpverleners hebben jouw steun hard nodig, maar op een andere manier dan je misschien zou denken.





European Location Services (ELS)



NMCAs are the custodians of authoritative spatial and cadastral data across Europe

ELS is the means to make that resource available in the digital economy

But... that requires action now: make data available, accessible, user-focussed in a harmonised manner

ELS: where are we now?

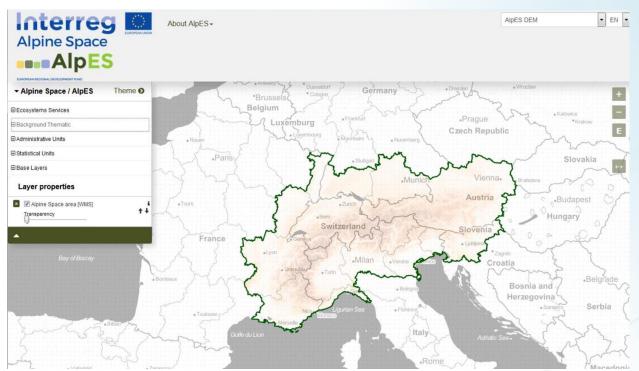
Focus on services that make a difference: basemap and cadastral index map; metadata is up to date

Metadata maintenance procedure in place

What are the data-elements most needed by customers in terms of coverage? Survey with the EEA, Eurostat

Open ELS (spatial data) based on OGC/W3C-services

ELS as a potential resource



Data/services

- Compatible accross borders
- Available
- Accessible

Enable cross-border cooperation

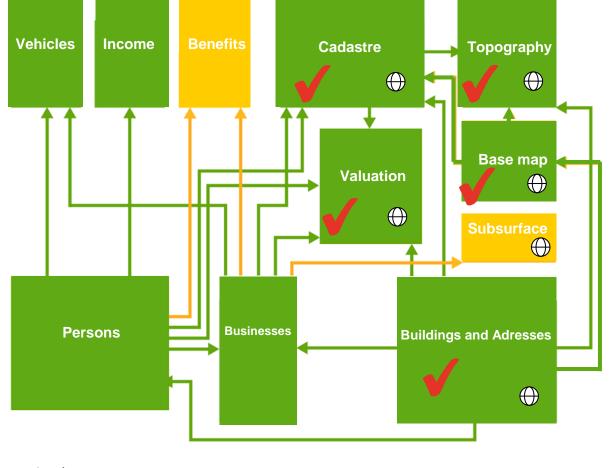
State of play in the Netherlands

- Authoritative data available, accessible?
- Developments technical, users, data-sharing, innovation

Kadaster prime supplier spatial foundation data

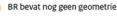
System of key registers Netherlands (2017)

Kadaster involved





BR bevat geometrie



Accessibility and availability of Geodata

All geodata (including key-registers) available and accessible at one point also serving NSDI and INSPIRE



Digital economy: public and private sector



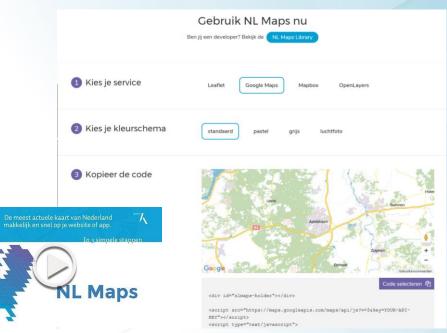
Developments



- Access to data is critical:
 - linked-data
 - make information available with API's (NL-maps)
 - standardisation (OGC, W3C)
- Demand towards 3D base register (planning, permits, subsurface)
- Involve your communities/users (VGI)
- Public sector meets Private Sector meets Developers meets Users

Towards linked data/apps/web?



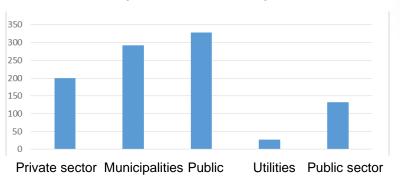


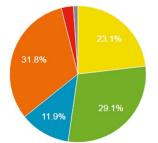
https://nlmaps.nl/

Results of reporting of errors by users 31-07-2017

Basemap

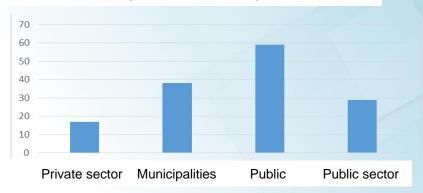
Feedback reports: 3138; reporters: 979

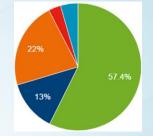




Topographic map

Feedback reports: 354; reporters: 143





- Finalized
- Correct
- Under investigation
- New
- Rerouted to other key register





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Concluding Remarks

- The digital economy is here to stay: from the local to the European level
- NMCAs' assets are authoritative data/services
- Requires opening up your data user-focussed (nationally, European level (ELS))
- Based on that developers create new products and services
- Operate in an public-private information network and become more adaptive to users' needs