

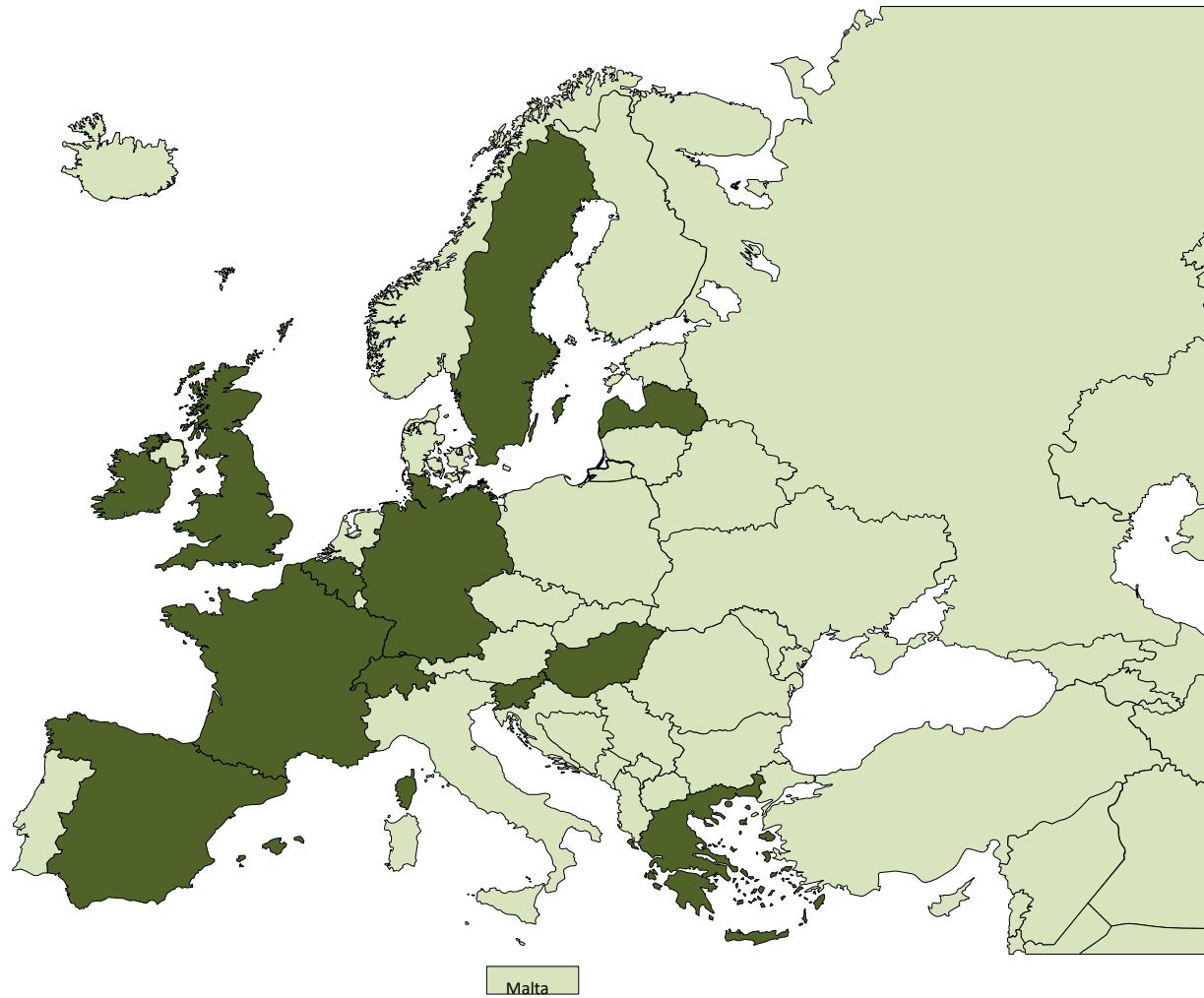
National Reports

Quality Knowledge Exchange Network

Frankfurt October 2017



14 National reports



National
report

Malta

National Geographic Institute, Belgium

From April 2017 to October 2017

- News concerning Data Quality and Quality Management
 - Performing data quality tests in the field
 - to determine data quality of our reference data (1:10k)
 - to control our QC process
 - Revision of the quality control process for the production of our 1:10k products (New update cycle)
 - Setting up a quality control process for the production of our new 1:25k products
 - Improving the quality control process for the updating of our 1:50k products



HM Land Registry, England and Wales

From April to September 2017

- **News concerning quality data**

- **Spatial extent as a corporate KPI?** We are looking at our key performance indicators for next year and reviewing the benefits of making the quality of our spatial extents a KPI. Interesting both from the perspective of the value of that particular information to our business and to our customers, and how the KPI will be measured.

- **News concerning quality management**

- **Data Quality tool:** HMLR are procuring a data quality tool to support the Local Land Charges programme that will facilitate the automated evaluation of spatial and non spatial data against a defined set of business rules.
- **Local Land Charges Private Beta:** The LLC programme is entering its private beta, a part of which will be to test the quality assessment process for data captured through the process.
- **Digitisation of Deeds and Documents:** HMLR are looking into the application of artificial intelligence technology to help improve the content of the Land Register, from scanned deeds and documents, to facilitate the development of digital services.



Institut national de l'information géographique et forestière (IGN), France

From April 2017 to October 2017

- News concerning quality management
 - October 2017: favorable opinion of the auditor for the renewal of the ISO9001 certification in 2015 version of the IGN (excluding the research and training processes).
 - The ISO9001 auditor requests to specify the criteria for non-conformity of products and services.



Institut national de l'information géographique et forestière (IGN), France

From April 2017 to October 2017

- Any other news that would be of interest for Q-KEN?
 - restart of the project "RPCU" to improve the geometric precision of the French cadastre taking into account constraints on the surfaces.
 - great heterogeneity of the cadastral plates with, in some places, surveys dating from the early nineteenth century with "relative" updates.
 - cadastres realized at the scale of the commune: need to determine the limits of commune and to make the connections.
 - changes in areas (even virtual) of land can have significant financial impacts (land prices, taxes, subsidies ...).
 - "Go" pronounced after experimental production on an Ile de France department. Launch of developments for industrial production mid 2019 ("RPCUv2").
 - The choke collar of the Open Data continues to squeeze IGN.



BKG, Germany

From April 2017 to October 2017

- News concerning Data Quality
 - Decision to use conformance classes for reporting data quality
- News concerning quality management
 - Detailed analysis of reference documents and control tools
 - Further discussions with the Ministry for the Interior about national regulations concerning quality aims
- Any other news that would be of interest for Q-KEN?
 - New INSPIRE Validator online



Ordnance Survey GB

From May 2017 to October 2017

- News concerning Data Quality
 - Water network is much improved. There is still work to do though
 - There will be a new focus on data issues starting shortly. This will focus on customer pain points and look to rectify many of these very quickly.
- News concerning quality management
 - None although this is an area that may change following our internal review
- Any other news that would be of interest for Q-KEN?
 - The appointment of a new Chief Data Officer is leading to a major initiative to change the way that OS manages its data. This is primarily down to the need to manage our data in more effective and efficient ways as we seek to exploit the value in it



NCMA S.A., Greece

From May 2017 to October 2017

- News concerning Data Quality
 - National Cadastre creation: Quality Control for all delivered data using the NCMA's Quality Plan (running 43 contracts, ~ 10,5 million property rights)
- News concerning quality management
 - Action plans for all quality procedures. The first version has been completed and is already being used
 - Identifying quantitative quality indicators for every separate quality procedure (under development). Expected to be completed till the end of the year
 - We are working to full automation and semi-automation of the quality parameters testing procedures on completeness, consistency and thematic accuracy of cadastral data delivered. Expected to be completed till the end of the year
 - NCMA develop a custom made PMIS specifically designed for cadastral projects linked to the already installed MS Project Server.
 - A Project Management Office (PMO) is being established in the NCMA Projects Department



NCMA S.A., Greece

From May 2017 to October 2017

- Any other news that would be of interest for Q-KEN?
 - In the tender procedure the rest of the country (32 contracts, ~17.2 million property rights). Expected till the end of the year, the signing of the first contracts.
 - The NCMA has completed the Forest Maps at ~ 55% of the country. The tender procedure for the remaining 45% is in progress.
 - Suspension of Forest Maps for 35% of the country and collection of objections from property owners was finished in September 2017. The suspension of the remaining 20% is scheduled to be implemented by the end of the year.

NCMA supports the forest agencies in the management of geospatial data



BFKH FTFF, Hungary

From April 2017 to October 2017

- News concerning Data Quality
 - Regulation of process of the geodetic network methods
 - Quality control of the Horizontal and Vertical Geodetic Control Network
 - Quality control of attributes of the Hungarian unified land registry
- News concerning QAttributesuality management
 - Full internal audit is in progress.
 - Reworking of the institutional Regulation Rules is done.
- Any other news that would be of interest for Q-KEN?
 - The membership of the Hungarian National Committee of European Organization for Quality (HNC for EOQ) is renewed.
 - The membership of the Hungarian Standards Organisation is discontinued as FÖMI, because the BFKH is member of this organisation.



OSI, Ireland

From April, 2017 to September, 2017

- News concerning Data Quality
 - Review of Third Class Ways
 - Review of 141737 Third Class way segments completed
 - 32683 Classification changes applied using SQL scripts
 - 4711 way polygons requiring segmentation (requires 1Edit job)
 - 5738 way polygons requiring geometry change (requires 1Edit job)
 - Review of Buildings
 - Continuing to review Building Function property
 - Review of inland islands
 - Verify/obtain english_name_value from historic maps
 - Obtain irish_name_value from logainm.ie
 - Review of Sites for
 - Removal overlapping sites
 - Reshaping Site polygon where appropriate
 - Deletion of Site polygon if not required
 - Named Group Editor
 - Sign off on application development to manage Named Groups (Way & Water)
 - Roll out to all Production editors during November 2017



Latvian Geospatial information agency, Latvia

From April 2017 to October 2017

- **News concerning Data Quality**

- Since December of 2016 the fourth cycle of topographic map in scale of 1:10 000 is being produced; June of 2017 marks the start of the new map pages being uploaded to the Central database of LGIA
- The start of the new cycle has brought new data quality issues to the forefront
 - The 4th cycle of the map in scale of 1:10 000 marks the switch to a more object oriented cartography
 - The data now has more attributes than in previous cycle that need to be both added manually and sustained through all the production process, but some of the available tools have the downside of deleting attributes and there's always a human error possibility adding data manually
- The process of the map page production in the 4th cycle can be digitally traced back from the end (loading the data into Central database) to the start of drawing phase and stages of error emergence can be easily identified
- There are still a number of «growth» issues, including unexpected errors caused by the misuse of the available tools and also during conversions from DGN to ArcGIS and back to DGN



Latvian Geospatial information agency, Latvia

From April 2017 to October 2017

- **News concerning quality management**

- There have been huge improvements in orthophoto and especially LiDAR LAS data quality in 2017, compared to 2016, after taking into account the feedback from data controllers at the data production phase
 - In 2016 more than 15% of LAS files needed to be corrected, this year thus far the percentage has fallen to less than 1%.
 - In 2016 about 7% of the orthophoto files needed to be corrected, this year thus far the percentage is 4.6%.
- There is an ongoing process of collecting reoccurring errors in the production of topographic map in scale of 1:10 000, the feedback and new guidelines are being introduced into the production workflow of the data

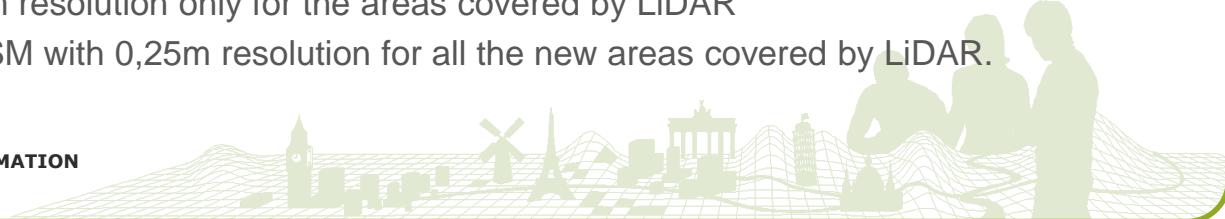


Latvian Geospatial information agency, Latvia

From April 2017 to October 2017

- Any other news that would be of interest for Q-KEN?

- The planned reorganization of the Agency structure for summer of 2017 has been postponed to 2018.
- In 2017 LGIA has continued it's already started projects:
 - mapping Latvia in scale of 1:10 000 (4th cycle),
 - mapping Latvia in scale of 1:50 000 (3rd cycle),
 - mapping 6 largest cities in scale of 1:2 000 (2nd cycle),
 - renewing orthophoto coverage (6th cycle- 2d year of 3 year update cycle),
 - further extending the coverage of LiDAR data (after 2017 - 67% of the country will be covered by LiDAR, 16% increase compared to 2016),
 - Updating the database of Latvia's geodetic points,
 - Updating the database of Latvia's place names,
 - Updating the significant object database,
 - Creating terrain and surface models for Latvia:
 - DTM with 20m resolution for the whole country, combining LiDAR and ortophoto data,
 - DTM with 5m resolution only for the areas covered by LiDAR
 - DTM and DSM with 0,25m resolution for all the new areas covered by LiDAR.



The State Land Service (SLS), Latvia

From May 2017 to October 2017

- News concerning Data Quality
 - News in the Cadastral Map. The borders of allocated land parcels updating according to border points surveyed by the surveyor. The new border plan is not produced, but the borders on the Cadastral Map correspond to the situation in the area
 - From 1 September implemented electronical data exchange between Cadastre and State Forest Register. State Forest Register provide data about forest area only electronically
 - Started to update the state roads in the State Address Register according to the data provided by the Latvian State Roads. A total of 2000 road segments need to be updated
- Any other news that would be of interest for Q-KEN?
 - The first step of Marine Cadastre in Latvia - land parcels are registered in territorial sea two kilometres in width



Surveying and Mapping Authority of the Republic Slovenia

From May 2017 to October 2017

- Nothing new to report for this period



IGN, Spain

From April to September 2017

- News concerning quality data
 - **Quality Control in Transport Network database (GRI-RT):** Automatic quality control tool and visual quality control report improved
 - **Quality Control in Hydrography (GRI-HI):** Quality evaluation of the new high resolution product has been outsourced. Results for next meeting.
- News concerning quality management
 - **New production environment with ArcGis:** Designing a new tool for updating geographic information from different data bases at the same time. The tool will cover the requirements of all the data bases. Above all, this new environment will be connected with "inciGeo" tool, in order to manage Jobs for updating and also for doing visual quality control.
 - **Automatic map (mapaBTN25):** A new process for automatic mapping has been developed: in November the process will be launched for 1:25K "mapaBTN25" from the National Topographic Base (BTN25) and for the whole territory. In January a new raster layer of automatic cartography will be shown (WMTS of mapaBTN25). It has also started the development of the automatic map at 1:50K scale (mapaBTN50).



Lantmäteriet, Sweden

From April 2017 to October 2017

- **News concerning Data Quality**

- The description of the data quality in our data product specifications for the customers has been improved and increased
- The inventory to document the quality controls that are done on all our registers is still on going
- Tests are done for our cadastre data on how to show the quality of the borders on the maps and the work to improve the geometric precision of the cadaster in problem areas is going on

- **News concerning quality management**

- Introduction to the 19158 standard is going to be hold in November for some teams.

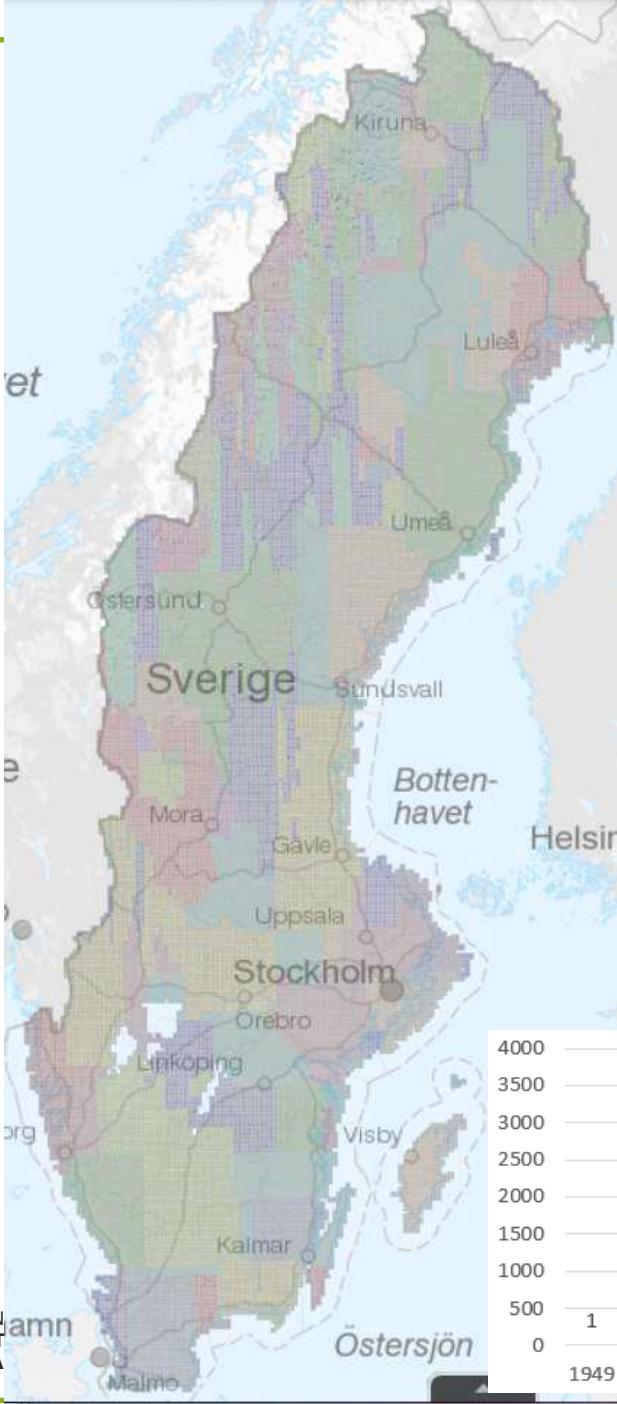


Lantmäteriet, Sweden

From October 2016 to Mars 2017

- Any other news that would be of interest for Q-KEN?
 - A brief documentation of six important standards for geographic data has been done. Three of them are quality, metadata and data specification. The other three are for services. The work to write guidelines to use them, shall we start with now.
 - History orthophotos are available in a complete nationwide inventory for the reference year 1960, which mainly includes orthophotos from the years 1956 to 1966.
 - Another nationwide inventory for reference year 1975 is under construction and is available, which will mainly contain orthophotos from 1970 to in 1980

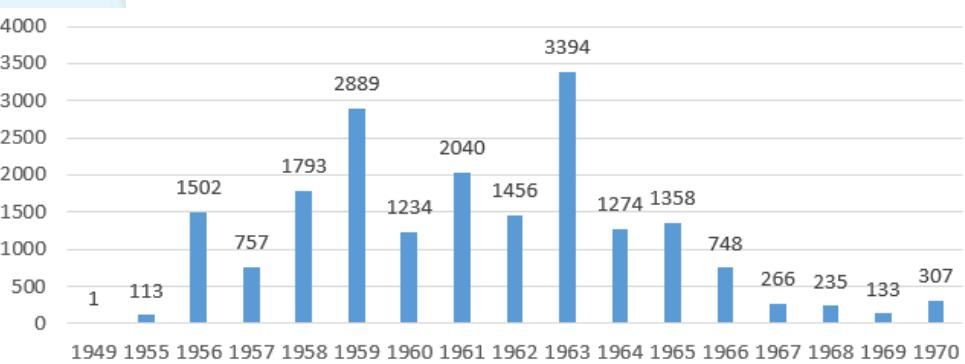




Historiska ortofoton

Sverigelager1960_allaorton_region

- 1949
- 1955
- 1956
- 1957
- 1958
- 1959
- 1960
- 1961
- 1962
- 1963
- 1964
- 1965
- 1966
- 1967
- 1968
- 1969
- 1970





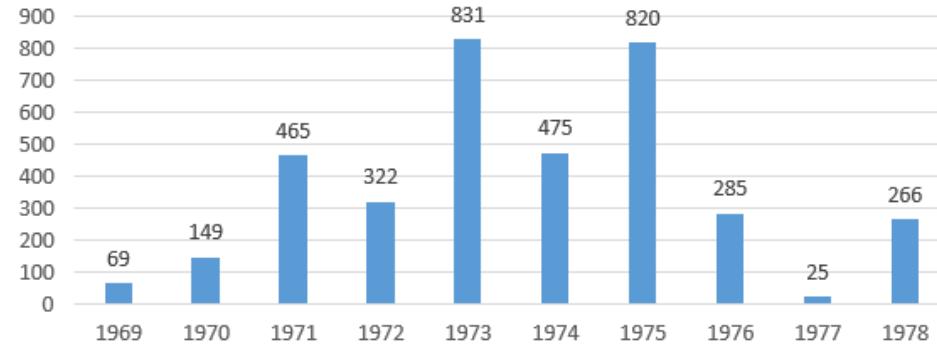
Historiska ortofoton

Sverigelager1975_allaorton_region

- 1969
- 1970
- 1971
- 1972
- 1973
- 1974
- 1975
- 1976
- 1977
- 1978

Antal ortofoton

Fördelning referensår 1975



Bundesamt für Landestopografie swisstopo , Switzerland

From 03 2017 to 09 2017

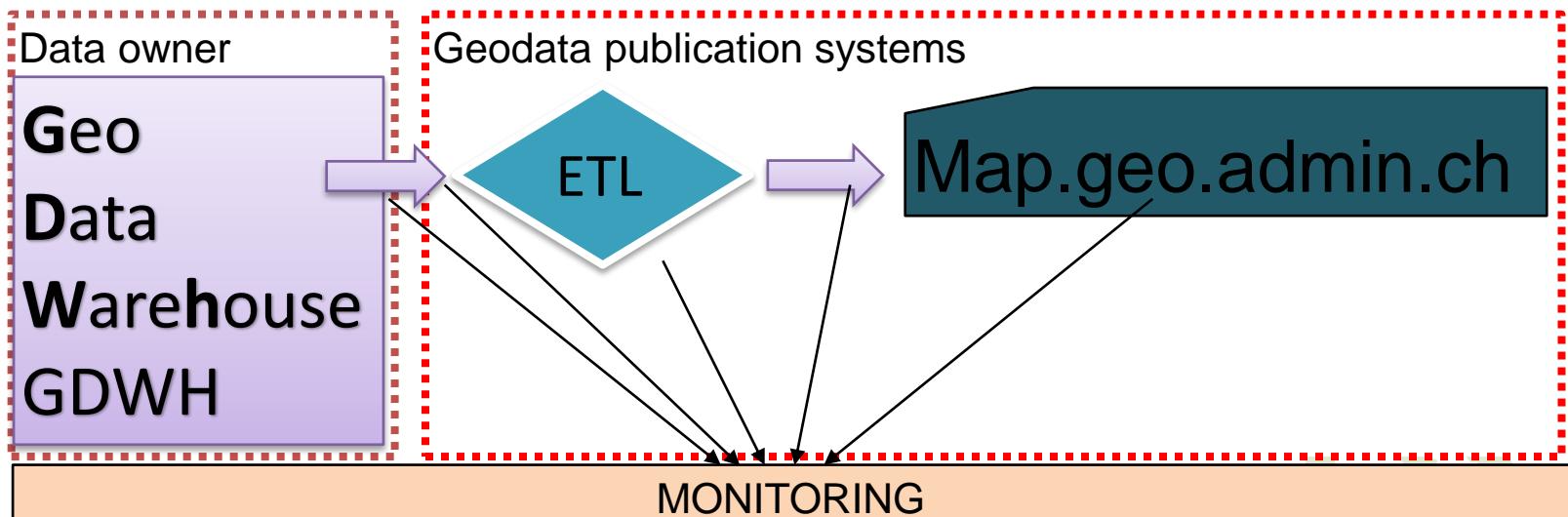
- News concerning Data Quality
 - New process to check name spelling with the local authority
 - Start to implement a workflow to produce a official countrywide street repository. Involve in this workflow are two federal offices and all municipalities
 - still improvement in QA-Tools
 - still more use of QA-Tools in production workflow



Bundesamt für Landestopografie swisstopo , Switzerland

From 03 2017 to 09 2017

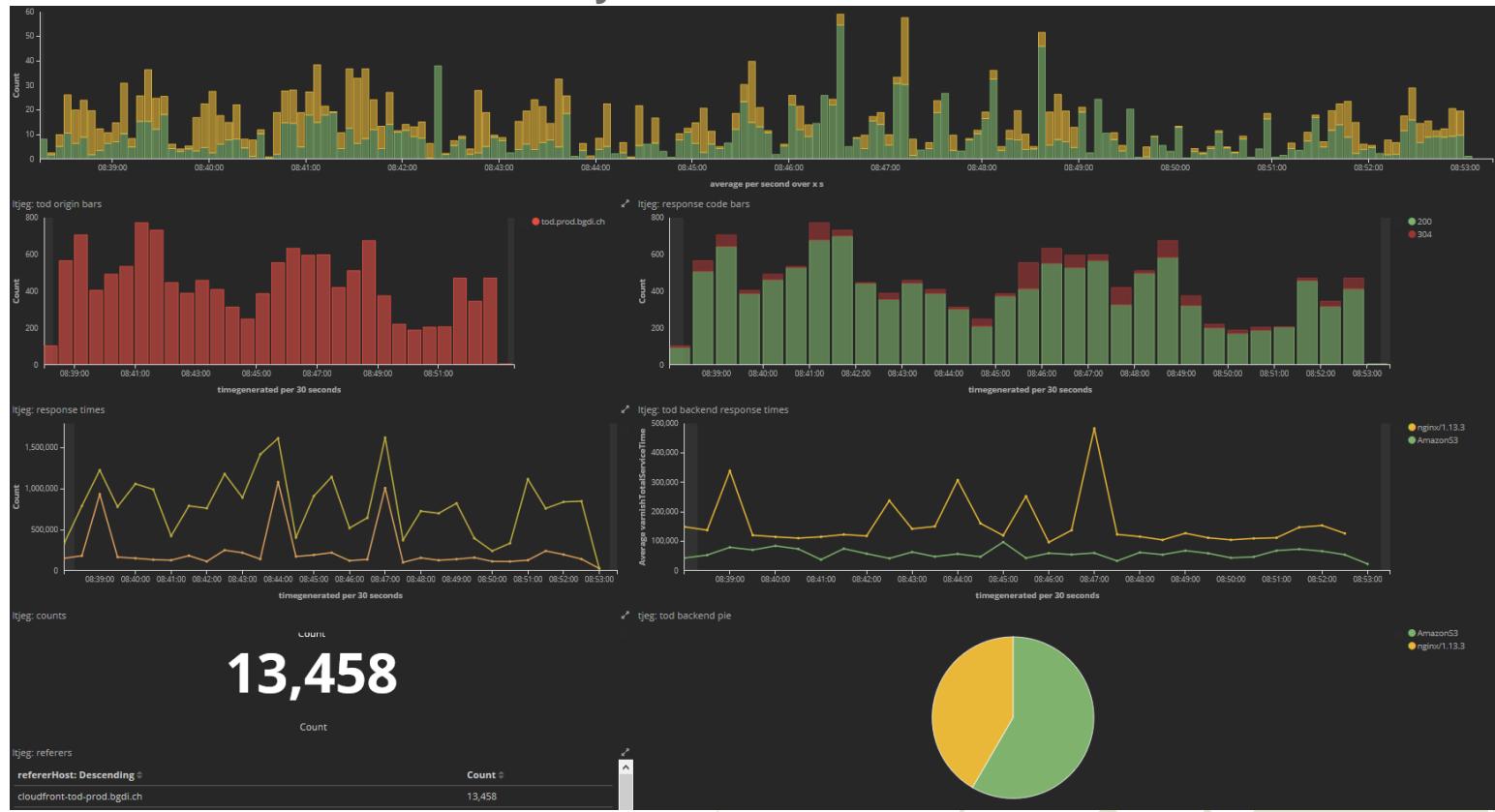
- News concerning quality management
 - Standardize and automated data integration process for areal images
 - The data owner sends checked data to the GDWH (single point to get geodata)
 - The automated ETL extract the new data, make the transformations (watermark, resolution, format...) and loads the result to the publication system infrastructure. This process is triggered by a regular request at the GDWH API “are there new data since my last request?”
 - The whole process is monitored by recording and analysing logfiles



Bundesamt für Landestopografie swisstopo , Switzerland

From 03 2017 to 09 2017

- News concerning quality management
 - Using KAFKA, Elasticsearch and Kibana to analyse Logfiles check the service availability and so on



Bundesamt für Landestopografie swisstopo , Switzerland

From 03 2017 to 09 2017

- Any other news that would be of interest for Q-KEN?

- Linked Data Service: linking geodata

Linked data refers to using the Web to connect related data that were not previously linked. The data are identified, shared and referenced by Uniform Resource Identifier (URI). The Resource Description Framework (RDF) and the underlying standards like SPARQL are used to encode and link the data.

- Presentation “INSPIRE/ELF@swisstopo: the project”, September, 6th 2017

INSPIRE Conference, Strasbourg, Christine Najar

https://inspire.ec.europa.eu/sites/default/files/presentations/176_pdf_copy_of_presentation.pdf



Proposals in Frankfurt for presentations at next plenary

Subject	Organisation
Digitisation of Deeds and Documents HMLR are looking into the application of artificial intelligence technology (se as decided?)	HM Land Registry, England and Wales
There have been huge improvements in orthophoto and especially LiDAR LAS data quality in 2017, compared to 2016, after taking into account the feedback from data controllers at the data production phase (included in the presentation tomorrow?)	Latvian Geospatial information agency, Latvia
New production environment with ArcGis (same as Presentation on InciGeo?)	IGN, Spain
Automatic map (mapaBTN25)	IGN, Spain
Standardize and automated data integration process for areal images	Bundesamt für Landestopografie swisstopo , Switzerland
Linked Data Service: linking geodata	Bundesamt für Landestopografie swisstopo , Switzerland



Proposals in Frankfurt for presentations at next webinar

Subject	Organisation
From Ljubljana:	
Presentation of a real case in Flare to use a data specification to produce other "documents"	Lantmäteriet, Sweden
From Paris:	
Possibly water network creation and quality assessment	Ordnance Survey
Developed of a new positional accuracy evaluation methodology to test the automatic network obtained from DTM02:	IGN, Spain

