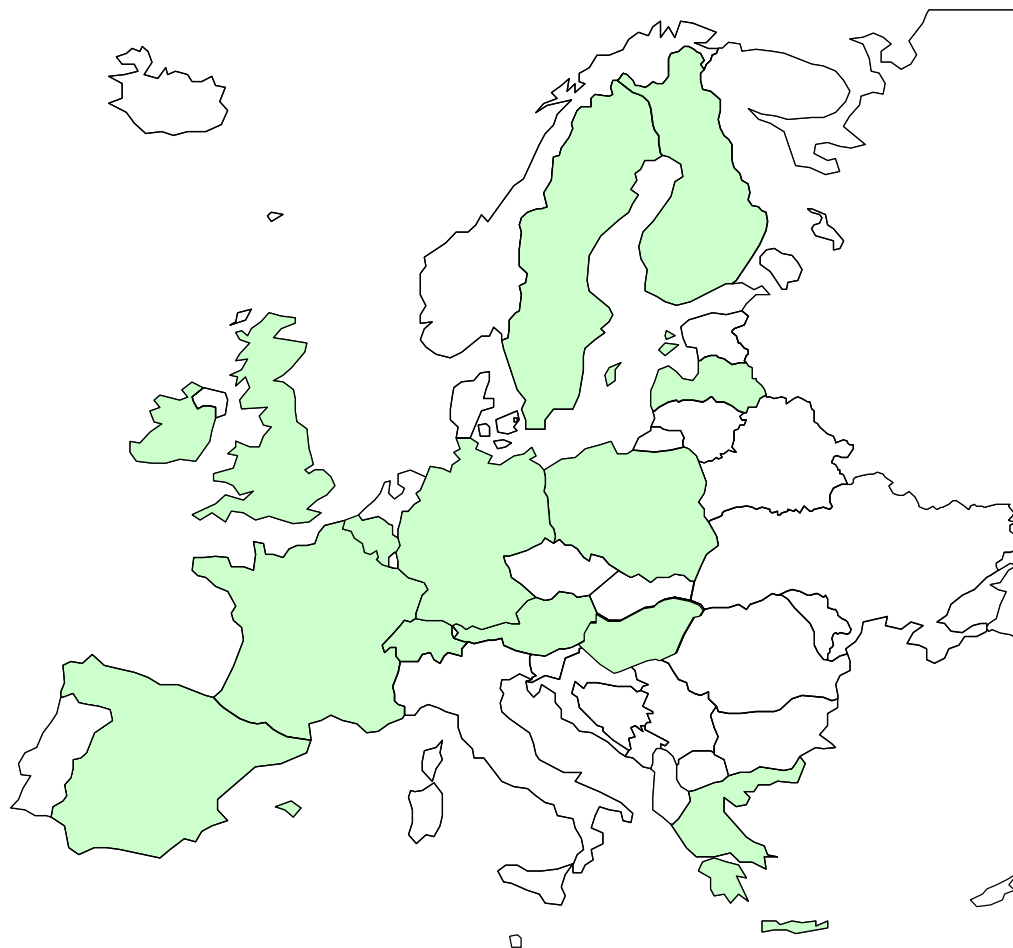


National Reports

Quality Knowledge Exchange Network

Valletta 22 January 2015





16 National reports



CONNECTING YOU TO THE
AUTHORITATIVE GEO-INFORMATION
FRAMEWORK FOR EUROPE



BEV, Austria

From 09.2014 to 01.2015

- **News concerning Data Quality**
 - DLM (digital landscape model): implementation of an update cycle of 3 years; start with digital orthophotos 2013; updating is based on digital orthophotos combined with field work
 - KM50 (cartographic model 1:50.000): implementation of an update cycle of 3 years (update cycle for printed maps is 6 years)
- **News concerning quality management**
 - Planned: Implementation of a DMS (document management system) based on Open Text; first only to make the documents of the QM-System available (no workflow for creating the documents)
- **Any other news that would be of interest for Q-KEN?**
 - Process of creating a DSM (Digital Surface Model) based on digital aerial images has been established; resolution of the model: 0,5m; current status: 1/3 of Austria is covered (digital aerial photos 2013), completion is expected for 2015/16; main purpose of the DSM is to support establishing the landcover-layer of the DLM (Digital Landscape Model)



National Geographic Institute, Belgium

From October 2014 to January 2014

News concerning Data Quality

- **Continue to develop new quality assurance tests for updated roads and buildings and updated hydrography**
- **Researches coming up:**
 - quality control of historical orthophoto (2015)
 - quality control of generalised products (2015-2016)

News concerning quality management

- **Continue to regroup quality control activities at NGI in one unit**



National Land Survey of Finland

1-12 / 2014

- **Research by Aalto University: Effectiveness of the National Topographic Data Base (TDB).**
- **Main results:**
 - TDB is necessary for many organizations
 - The number of users has increased hugely since the data was opened (free) in May 2012
 - Data quality is good enough for most of the users
 - Governmental TDB and topographic data by municipalities should be consistent
 - Life Cycle of the data objects would be useful
 - More 3D information would be needed (3D buildings, forest elevation models)
- **Planned projects to start in 2015:**
 - Buildings: Common data model and maintenance of building data for NLS and municipalities
 - Renewal of the Quality Model of TDB: Eg. Common building data and external quality control (ELF/ESDIN-model)



National Land Survey of Finland

1-12/2014

- **Investigation of the Quality of 2m grid elevation Model based on leaf-on aerial laser scanning**
 - Local random but systematic-like errors in elevation due to undergrowth 0 – 0,6 m
 - -> Quality class 1 (leaf-off) and class 2 (leaf-on).
- **Internal quality control**
 - TDB in continuous (annual) update (roads and buildings): Completeness better than 95%



National Land Survey of Finland

1.1.2015

Finnish Geodetic Institute (FGI) became part of NLS since 1.1.2015

- NLS has been the national mapping and cadastral agency
- FGI has been a research organization (geodesy, remote sensing, cartography, laser scanning, geoinformation, spatial data infrastructure, mobile mapping, ...)



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

From September 2014 to January 2015

- **News concerning Data Quality**
 - a "fertilization seminar for quality control methods" (internal IGN) took place on 20 and 21 November to identify good practices of IGN in terms of product quality ;
 - implementation of a multidisciplinary working group ;
 - an actions plan for 2015 was defined :
 - updating of IGN documentary corpus for the quality of geographic, forest and environmental information taking into account the evolution of standards (vector, grid and statistics),
 - methods of sample definition,
 - homogenization of reports on the quality of products and services,
 - sharing of tools and methods used at IGN.



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

From September 2014 to January 2015

- News concerning quality management
 - three-year renewal of the ISO 9001: 2008 certification for all processes of IGN except training and research by an other agency: the Bureau Veritas.
- Any other news that would be of interest for Q-KEN?
 - New General Manager: Mr. Daniel Bursaux



NATIONAL CADASTRE AND MAPPING AGENCY S.A. (NCMA S.A. (former “KTIMATOLOGIO S.A.”))

From May 2014 to January 2015

- **News concerning Data Quality**

A. Quality Control of cadastral studies deliverables (24 contracts)

- Quality Control for all delivered data using the NCMA's Quality Plan (based on NCMA's Quality Model for Cadastral Parcels - extended version of ESDIN Quality Model for cadastral parcels),
- Absolute accuracy of spatial data has been completed for all delivered data,
- Acceptance sampling inspection using procedure A of ISO 2859-2 (sampling item = ownership)

B. Creation/Revision of Data Quality Models and Quality Plans

- Creation of Data Quality Model for orthophoto production (finished)
- Creation of Quality Plan and Quality Control Records for orthophoto production deliverables (first deliverables are submitted early March 2015 - 20% aerial images and 12% orthophoto files)



NATIONAL CADASTRE AND MAPPING AGENCY S.A. (NCMA S.A. (former “KTIMATOLOGIO S.A.”))

From June 2013 to October 2013

- **News concerning quality management**
 - Revision of existing Quality Control Records, data quality reports (QAR's) and internal software applications (under development),
 - Re-engineering of the QMS of the Agency according the ISO 9001:2008 Standard: *Re-engineering of the QMS architecture, development and updating of all operational procedures and incorporation into a QMS Information System Environment).*
- **Any other news that would be of interest for Q-KEN?**
 - Project is conducted for the establishment of a PMO (Project Management Office of NCMA S.A) (the project is at the phase of implementation A),
 - Contracts for the production of orthophotos have already been signed and is expected to be completed in 2015



Ordnance Survey Great Britain

From October 2014 to January 2015

- **News concerning Data Quality**
 - The consolidation of datasets is continuing and is removing a large number of discrepancies that exist between datasets
 - The water network will go live within the next few weeks. The work that has been carried out has substantially improved the quality of the dataset
 - The measurement of national statistics on core elements of the data is underway
- **News concerning quality management**
 - Reporting procedures and test results are being standardised



Ordnance Survey Great Britain

From October 2014 to January 2015

- Any other news that would be of interest for Q-KEN?
 - New Gazetteer and Water Network products will be released in the next few weeks
 - It is expected that further Open Data products will be announced by Government in the coming weeks
 - The decision on whether to turn Ordnance Survey into a trading fund has not been reached yet
 - The announcement of a new CEO has not yet been made. In the meantime, Neil Ackroyd continues in the role



FÖMI, Hungary

From September 2014 to January 2015

- **News concerning Data Quality**
 - Hungarian Building Monitoring System is finished in last Autumn. Object of this project:
 - detecting of all remarkable building from ortophoto and DSM
 - supporting of the task Construction Authority
- **News concerning Quality management**
 - ISO (17025) accreditation of Measurement Lab of GPS calibration. On-site inspection is finished. Activities of laboratory meet the ISO requirements.
 - Reconstruction of ISO 9001 and ISO 27001 (information security) is in progress in 2015.
- **Any other news that would be of interest for Q-KEN?**
 - -



Ordnance Survey Ireland

From September 2014 to January 2015

- **News concerning Data Quality**
- **Full programme of Data Enrichment and Enhancement activity is in the scheduling phase.**
- **This is a follow up activity to the Data Reengineering and will be on a phased delivery based on customer requirements.**



Ordnance Survey Ireland

From September 14 to January 2015

- Any other news that would be of interest for Q-KEN?
 - ESRI were successful in their tender to OSI for a Multi Resolution Tender Store which will enable “automated product production”. Formal Project kick off on the 16th January 2015 . Expected to be 2 year project and will start with large scale products and services.
 - November 2014, Ordnance Survey Ireland win the Bentley BE Inspired, Innovation in Government Award with their development of the Prime 2 model. And I quote ☺

“This selection was based on the projects’ uniquely innovative and visionary achievements that transcend the narrower focus of the standing *Be Inspired* Awards categories. The nominees were then reviewed by a panel of Bentley executives, who evaluated them based on the criteria established for each award.”



Report published in 2014

Economic assessment of Ireland's Geospatial Industry

Economic assessment of Ireland's Geospatial Industry

Ordnance Survey Ireland report details contribution sector makes to Ireland's economy & public sector



Latvian Geospatial Information Agency, Latvia

From 09.2014 to 01.2015

- **News concerning quality management:**
 - Quality Management Handbook for obstacles and terrain could be finished at the end of February. Next step – quality audit;
 - Planned – enlarge QM Handbook to all actual datasets.
- **Any other news that would be of interest for Q-KEN?**
 - From 1.december 2014 soft launch to operate Latvian State Geoportal: <https://geolatvija.lv/geo/>
 - Completed the laser scanning external procurement for all territory of Latvia. The project provides to complete the State LIDAR scanning from 2014 to 2016;
 - Rapidly moving ahead the preparation of the latest infrared orthophotos (0,4 m/pix);
 - LGIA starting to provide WMTS from 1.december 2014 (14 services now).



Latvian Geospatial Information Agency, Latvia

From 09.2014 to 01.2015

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 - From 1.december 2014 soft launch to operate Latvian State Geoportal:
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The State Land Service (SLS), Latvia From October 2014 to January 2015

- **News concerning Data Quality**
 - No significant achievements
- **News concerning quality management**
 - No significant achievements
- **Any other news that would be of interest for Q-KEN?**
 - Mobile application kadastrs.lv (Cadastre)
 - Research of the using LiDAR for building and land use identification (cooperation with two universities)
 - Simplification of procedures between Cadastre System and Land Registry System are implemented
 - SLS is ready for Latvian Presidency of the PCC in the EU. Welcome to next PCC Conference and Plenary Meeting in Riga on May 12-13, 2015!



The Head Office of Geodesy and Cartography (GUGiK), POLAND

From September 2014 to January 2015

- **News concerning Data Quality**
 - We are implementing a quality model for topographic data
 - We have created a prototype of a platform for cadastral data to communicate with other spatial data (e.g. boundary, addresses)
- **Any other news that would be of interest for Q-KEN?**
 - We are going to create a quality model for:
 - topographic maps
 - hydrographic maps
 - We are going to implement a portal for cadastral data, including a validator



ICGC, Catalunya – Spain

From October 2014 to January 2015

- **News concerning Data Quality**

ICGC Topographic Data Bases

- New GIS environment for the production of the 25K Topo DB based on Geomedia (ID's, lifecycle, customized tools for 3D).
- Goals on process till end of 2015:
 - New environment ready to be certified (ISO 9001 audit this week!).
 - Apply this environment to the production of the 5K Topo DB.
 - Update existing DQ & MD records to recently approved ISO standards:
Dataset level / Sub-dataset level (Data on-demand)
 - Design of a 1K Topo DB in 3D (LOD 2).

ICGC Orthophoto series

- Exploiting the recently-implemented GIS production environment.
- (Still) Researching how to improve radiometric quality obtained from imagery processing software.



ICGC, Catalunya – Spain

From October 2014 to January 2015

- **News concerning quality management**

Achievements

- ISO 9001 certificate extended to the production of the **Conventional Orthophoto Series [*]** at any scale (Feb 2014)
 - * [Photogrammetric flight + DTM from Topographic DB + Generalization process]
- Finished a specific customer satisfaction survey for the evaluation of the new corporate data delivery system: *“ICGC Data Cloud”*.

Goals in process

- Harmonization of ISO 9001 Quality Management System indicators and separation into two main usage categories:
Managerial indicators / Data production indicators.
- Harmonize managerial indicators.



ICGC, Catalunya – Spain

From October 2014 to January 2015



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

- New online shop - <http://www.ebotiga.icgc.cat>

- **Facilitation of INSPIRE Thematic Cluster #3**

Elevation, Orthoimagery, reference systems, Geographical grids

<https://themes.jrc.ec.europa.eu/>

Please promote the participation of your organizations in this INSPIRE implementation activity!

- **Candidates for future presentations**

- Updated quality controls for Topographic Data Bases (5K & 25K) in the new GIS production environment.
- Edition of data specifications for the data sets of the Regional Cartographic Plan of Catalonia (PCC): Adaptation to INSPIRE.



IGN, Spain

From September 2014 to January 2015

- **News concerning Data Quality**

- **ELF WP4 - Data Quality Validation**

Testing ArcGIS Data Reviewer using INSPIRE compliant data from IGN:

- Administrative boundaries finished.
 - Following themes: hydrography, transport network and geographic names.

- **News concerning quality management**

- **In 25k map**

The information System of the production process has been Implemented in whole MTN25 department.

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

- **In 25k map**

Beginning a pilot process of the *quick map*. The aim is to transform the whole Topographic data base (BTN25) into the Cartographic Map (MTN25) every six months, and make them available to users in Map Viewers and the downloads center.

- **In 100k base**

Decentralized update established. Regionals offices have begun to update the topographic base in order to speed up the production process.



Lantmäteriet, Sweden

From September 2014 to January 2015

- News concerning Data Quality
 - The Swedish handbook in surveying and mapping is under revision. The part *Quality in geographic data* was available in December 2014. Other parts that are revised: Introduction, Glossary, Laser scanning, Image data and Orthophoto, Reference systems and geodetic surveying.

The parts are available for free at our external website.

<https://www.lantmateriet.se/sv/Om-Lantmateriet/Samverkan-med-andra/Handbok-i-mat--och-kartfragor-HMK/Aktuella-HMK-dokument/>



Bundesamt für Landestopografie swisstopo, Switzerland

From January 2014 to December 2014

- **Implementing ERM QA Tools**
 - Version 3.0 28.10.2014
- **Production ERM**
 - Using QA-Framework in TOPGIS
- **Production EBM**
 - Using QA-Framework in TOPGIS then checks by the data integration (Germany)



Bundesamt für Landestopografie swisstopo, Switzerland

From January 2015 to December 2015

- **Implementing ERM QA Tools**
 - Bugfixing
 - By request release for ArcGIS 10.3
 - By request improvement
- **Production ERM**
 - Same procedure as 2014
- **Production EBM**
 - Same procedure as 2014



Bundesamt für Landestopografie swisstopo, Switzerland

From January 2015 to December 2015

GeodataWarhouse

Service oriented QA Framework based on

- QA-Framework in TOPGIS
 - Specific Q-Tests (like md5, dataformat)
 - Interlischeckservice (<http://www.interlis.ch/content/index.php?language=e>)
- to guarantee the data integrity



Nothing to contribute to the national report this time

- BKG, Germany



Proposals in Valetta for presentations at next plenary

Subject	Organisation
Research by Aalto University: Effectiveness of the National Topographic Data Base	NLS Finland
Quality Management Handbook for obstacles and terrain could be finished at the end of February.	Latvian Geospatial Information Agency, Latvia
Updated quality controls for Topographic Data Bases (5K & 25K) in the new GIS production environment.	ICGC, Catalunya – Spain
Edition of data specifications for the data sets of the Regional Cartographic Plan of Catalonia (PCC): Adaptation to INSPIRE	ICGC, Catalunya – Spain

