

Thanks to FIG



Kartverket

FIG

- Fit for Purpose
- Continuum of rights - with GLTN UN Habitat
- Land Administration Domain Model
- Sharing of knowledge
- Network of Experts

Kartverket

**Norwegian support
to projects abroad**

and

**the role of Land
Administration
Experts**



Norwegian grants

- To former socialist states in Europe
 - Yugoslavian republics and Albania
 - Soviet republics
 - On average for these countries 3 -4 mill per year
- The EEA grants
 - To 15 EU member states with smallest GNP per capita – Donor Project Partner
- Development aid to prioritized countries in Africa, Asia and Latin America

Implemented by Norwegian Mapping Authority

Since year 2000 applying

- Preparing project proposals to Ministry of Foreign Affairs
- Making detailed project plans
- Making technical specifications for tenders
- Executing tenders
- Making contracts with suppliers
- Undertaking quality control of deliveries
- Doing payments

In maximum collaboration with beneficiary



Project examples

- Cadastre IT system and orthophoto to Armenia
- Orthophoto and large scale topographic maps to Georgia
- Cadastre IT system, CORS and large scale maps to Moldova
- Lidar scanning and DTM to Montenegro
- Cadastre IT system, orthophoto and address register to Kosovo
- "Establishing" mapping authority for Albania with conversion of paper maps and new Geoportal



- Solution and tool for scanning of cadaster maps, NSDI program and geoportal for Serbia
- Digital archive for Bosnia Herzegovina
- CORS and topographic maps for Ukraine
- Modernizing hydrographic mapping in Albania – survey boat etc.
- Improved geoide for Western Balkan
- Lidar scanning and DTM for 50 000 km² of Romania
- New digital production line for topographic maps at Survey of Pakistan
- GIS unit for Ministry of Petroleum in Sudan



Norwegian model

- Projects are implementation by a national expert authority, in this domain by Kartverket
- Kartverket administers projects; 10 -15 % of costs
- Deliveries tendered to private sector using Norwegian law on public procurements
 - If possible using local suppliers
- Recently evaluated; *Highly relevant projects to development goals, efficient implementation*
- Model to limit corruption



Some priorities

- Manageable projects size, 1 – 3 mill € for 3 year projects
- Manageable topics, measurable results
 - Focus on infrastructure for emerging land markets
 - Stayed away from big cadaster data field works
- Emphasized preparation of good specifications and use of international standards
 - IT solutions based on SOA principles, LADM etc.
 - Inspire directive (but too complicated ??)
 - Base map specification (should be standard foundation for cadaster works)
- Using open tenders for consultants and works
- Local contractors when possible (often good IT experts locally)
- Kartverket experts only when that is most relevant



Fitting to goals for Norwegian development cooperation

- Support to development of private businesses
- Basic infrastructure
- Good governance (cadaster, maps, NSDI ?)
- Recently; White paper to Parliament on "*Digital solutions for development*"
 - Knowledge bank for twinning Norwegian public institutions with sister organizations
- Norwegian register authorities responded with joint program proposal; "*Registers for development*"
 - Tax register, company register, property register, address register, use of registers for statistics



Role of Land Administration experts in development aid

- Growing demand;
 - Increasing focus on property rights as foundation for development
 - Increasing focus on geographic information; big gaps in developing countries, needed for infrastructure projects, response to climate change/resilient societies, etc..
- Need for “topical” experts, but not least for LA experts with broad, holistic knowledge
 - Learning by doing. Should invest more in training, Nordic mentor program being prepared
- No blueprinting, be flexible, don’t let the best be enemy of the good



..and mostly fun too Kosovars to Bergen 2016

