Meeting the Changing National Geospatial Information Needs

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Location

- Latitude 5 55’ 10” - 9 50’ 6” North
- Longitude 79 31’ 19” - 81 52’ 36” East

Area

- 65610 Km2

Population

- 20 Million
Survey Department

• Is the National Mapping and Surveying Agency
• Conventional tasks Statutory / Cadastral Surveys
• 1:50,000 and 1:10,000 mapping covering whole country
• Used to make our products and others are expected to use them – Situation is changing and others are demanding
• We become National Geospatial Information Management Agency in new trend of diminishing boundaries between Surveying and Mapping
Topo50 Layers

- Admin (DS Division)
- Buildings
- Grid
- Hydro (Streams, Tanks)
- Trans (Roads, Railroad)
- Landuse
- Places
- Reserves
- Terrain (Contour, Spot Heights)
- Utility (Power Line)
50k and 10k Mapping Completed

- Cadastral survey Program moving slowly
- Commenced in 2007 “Bim Saviya”
  Purely by ground methods
- 1.0 Mn land parcels completed up to 2015 out total 12 Mn.
Changes in Government Policy

• Government wants to accelerate land grants to people and make 1.0 Mn. free hold grants in two years. Land needs to be identified
• Need to identify potential lands for development purposes
• Completed in possible shortest time period
• Not possible to increase number of Surveyors
Need for a unified parcel map

- Need has been identified and methodologies revised in order to achieve this target.
- Fit for purpose approach taken and Combination of methods will be used.
- Different Ground surveys methods in combination with Images (Satellite /Aerial / Lidar ) depending on the need and availability.
- Data form all possible sources incorporated– Hardcopy Maps.
- Completed in five (05) Years
- Public - Private Partnership is a key strategy
Addressing Changing Needs

- Need of data at a more detailed level / Especially for disaster management activities.
- Buildings layer – Classification - Hospitals / Schools with further information – Urban Development Authority is in the process of collecting building
- Need for more accurate elevations – flood monitoring
- Rainfall data / River levels
- Updating data / New openings have to be looked into
- Making data available at time of need
- Single organization cannot do them all – Co-operation
We have realized that this is a joint activity where the participation of all stakeholders is required.

- Data producers, Value addition, users, IT infrastructure and technical support, Industry, Application development
- Data capture and Dissemination is also equally important
Present Status

• Formal Policy approval was received in September 2013
• Agreed to pilot on Disaster Management and Environmental Management
• NSDI working group formed – Virtual NSDI office established
• Road Map prepared / Development of Map Portal – Procurement Process commenced.
• Survey Department also has developed a metadata site / www.sdi.survey.gov.lk
• Coordinated by Inter Ministerial Committee – Strong Driving force is required
Are we ready to meet the demand

- Technological issues - Map Portal and application development
- Geodetic Reference Network - CORS or other referencing / Moving to World Geodetic Datum is being discussed
- Land Registries and Title registries will be connected to parcel map – ownership, rights and restrictions
- Will ensure updating information on ownership and parcel changes
- Local Government Authorities will monitor fragmentation and development – will ensure changes are updated
Working Group – July 2015

- Ministry of Lands / Survey Department
- Ministry of Disaster Management / Disaster Management Centre
- Information and Communication Technology Agency
- International Water management Institute
- Ministry of Environment / Central Environmental Authority
www.sdi.survey.gov.lk

• All Spatial Data available with Survey Department are published in Metadata site
• Data Standards / Formats are defined
• Policies related to each dataset is published
• Other data providers will have to brought in. Make them feel they are responsible partners of the activity
Multipurpose Parcel based land information System will be the ultimate solution

- Land Administration plus other activities
- Development Planning and monitoring
- Disaster Management
- Environmental Management
- Evidence based decision making
- Equity and good governance
Goodwill or Enforcement

• Right now organizations join the activity voluntarily.
• In time to come it may need to make it mandatory to all State agencies to join declare and share possible data sets.
Small Advertisement

• 37th Asian conference on Remote Sensing will be held in Colombo from 17th to 21st October 2016 – Hosted Jointly by Survey Department and Asian Association on Remote Sensing
• With the theme of “Spatial Data Infrastructure for Sustainable Development”
• Ideal forum to discuss related matters in detail
• Welcome to Colombo
• www.acrs2016.org
37th Asian Conference on Remote Sensing
Spatial Data Infrastructure for Sustainable Development
Colombo - Sri Lanka

Conference venue
Galadari Hotel,
64 Lotus Rd, Colombo 1,
Sri Lanka
Thank you