



United Nations Committee of Experts on
Global Geospatial Information Management

key legal and policy issues and challenges impacting
data sharing and data dissemination in Nepal



Ganesh Prasad Bhatta

Director General
Survey Department, Nepal



International workshop on Legal and Policy Frameworks for Geospatial Information
Management: Licensing of Geospatial information
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Presentation Outline

- The Country Context
- Producers of Geospatial information
- Major Geospatial Information Available
- Prevailing policy and legal provisions
- Problems and Challenges

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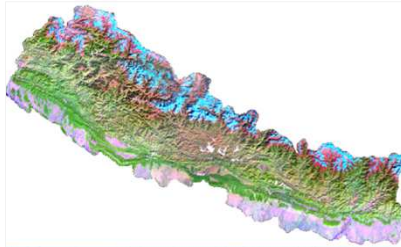
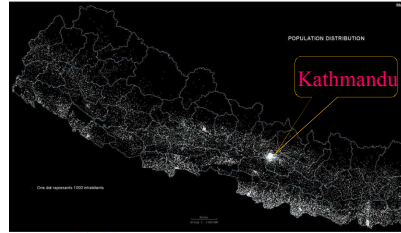


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The Country Context

- Landlocked between two giants; China and India
- Federal Democratic Republic
 - 7 provinces, 77 districts, 753 municipalities
- Area: 147,181 Km²
- Population: 26.6 Million (2011 national census)
- Multi-lingual, multi-ethnic & secular with diverse culture

• Uneven geographical terrain (60m to 8848m)

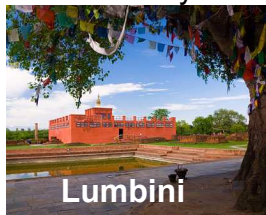


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The Country Context ...

- The Country of Mt. Everest
- Birth Place of Lord Buddha
- The country of Adventures

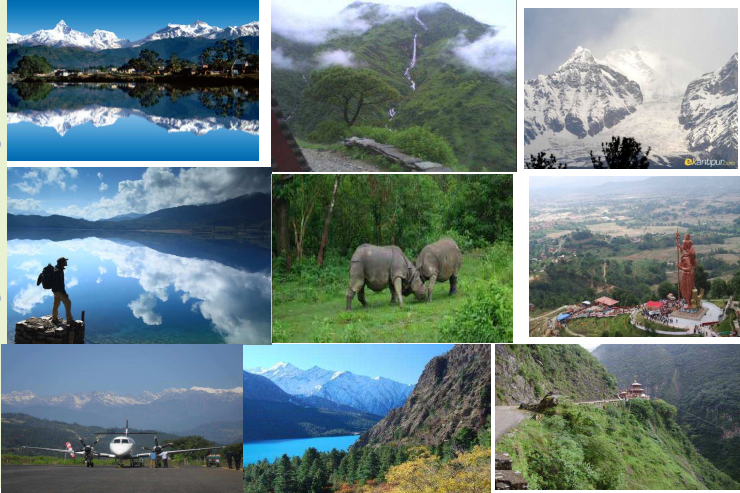


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The Country Context ...

Heavenly Countrysides



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Major Producers of Geospatial Information

- Survey Department, the National Mapping Organization
 - Core data sets including
 - Cadastral Surveying
 - Geodetic Surveying
 - Topographic Surveying
- Department of Forest Research and Survey
- Department of Mines and Geology
- National Land Use Project
- Department of Land Information and Archive

- Other public and private sector organizations for their specific uses

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Major Geospatial Information Available

- **Nationwide coverage of Topographic Base Map Series**
 - 1:25,000 for Plain Mid hill region
 - 1:50,000 Mountainous region
- **Nationwide Coverage of Geodetic Network**
- **Nationwide Coverage of Cadastral Maps**
- **Land Resources Maps**
- **Forest Maps**
- **Geological Maps**

- **Aerial Photographs, Orthophotomaps, Geodetic Data, etc**

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Prevailing Geospatial Information Policy and Legal Provisions

- **Comprehensive/integrated geoinformation Policy is lacking**
 - However, legal provisions in **Land (Surveying and Mapping) Act, 1964**, govern overall geospatial information policy issues
 - 'Policy for the dissemination of digital data produced by the organizations under MoLRM' is in place
- **Survey Department (DoS) is responsible for providing standards and framework data for geospatial information**
 - Geospatial information produced with public fund should be based on the standard and specifications set by the DoS
- **Approval from DoS is required;**
 - to carryout surveying and mapping activity including aerial photography, and selling of Nepal related mapping products produced in foreign country, in the country

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Prevailing Geospatial Information Policy and Legal Provisions...

- National Mapping Committee is constituted under the chairpersonship of the Secretary of Land Reform and Management
 - a Technical Subcommittee under the coordination of the Director General of Survey Department, the National Mapping Organization.
- Geospatial information produced in Nepal, by a public or private or international organization, should be approved by National Mapping Committee
 - in order to maintain standard, verify security concern and avoid duplication of efforts for the product of similar kind

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Prevailing Geospatial Information Policy and legal provisions ...

- NSDI Initiatives
 - DoS has established National Geographic Information Infrastructure Division in 2016 as an effort to establish functional NSDI.
 - NSDI policy is under formulation
- No data restriction,
 - except the strip maps and data related to international boundary
- Pricing
 - Principally, no data is free
 - However, recently, 1:1 million scale map data and administrative boundary data is made freely available through web (www.nggip.gov.np)

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Legal and Policy issues (in the context)

- Formulation of comprehensive policy and laws in the changed context of state restructuring and technological advancement
- Ensuring benefits of sharing data
- Ensuring data security
- Protection of the custodianship of the data producer
- Rule of law
 - Ensuring that the policy and legal provisions are strictly followed by the data producers and users
 - Ensuring that there is no misuse of data
 - Ethical considerations

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Challenges (in the context)

- Sufficiency of legal and policy provisions: **lacking**
- Bringing geospatial organizations within NSDI Network: **difficult, especially non-government sector**
- Up-to-date-ness of the available data: **mostly outdated**
- Maturity of the digital data and system: **immature**
- Capacity of the geospatial organizations: **strengthening required**
- Infrastructure available for data sharing and dissemination: **weak**
 - Data sharing/dissemination platform /web-portal: **immature**
 - electronic payment : **not yet**
 - availability of physical infrastructure with the end user : **almost no**

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Finally, Closed Invitation

- Survey Department is organizing an **international workshop** for finalizing the methodology for the **measurement of the height of the Mt. Everest** by its own effort.
- If you poses any expertise of any field for the mountain measurements, please, join with the workshop and our future endeavors.
- **Date and venue of workshop**
 - Dec 11-12, 2017
 - Venue: Kathmandu, Nepal
 - Organizer: Survey Department, Nepal

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Thank you!!!

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