Survey Department, Nepal

What We are Doing at National Level

PRAKASHJOSHI

DIRECTOR GENERAL, SURVEY DEPARTMENT

06 August 2019

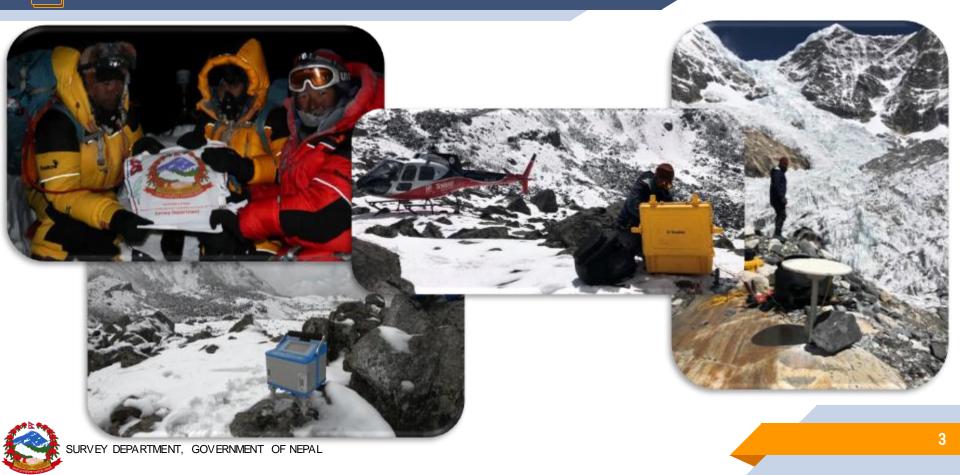


Survey Department: Recent Activities

- System development for service delivery in district survey offices
- Mt Everest height measurement
- LiDAR survey for HR DEM and Orthophoto generation
- Nepal-India boundary survey works
- Re-establishment of land records destroyed during conflict
- Rural Municipality/Municipality level land use mapping
- Preparation of Image Map Service from Satellite Imagery : Strengthening NSDI , CH
- Establishment of Continuously Operating Reference Stations (CORS)



The Everest Measurement



National Spatial Data Infrastructure: Services





NSDI Clearing House

- Inform the general user about the data by creating Metadata (North American Profile of ISO 19115:2003 with modifications)
- Launch the metadata via Clearinghouse Which will pave the way for data accessibility (nationalgeoportal.gov.np)
- In addition to that there are Application for sharing Geoinformation.







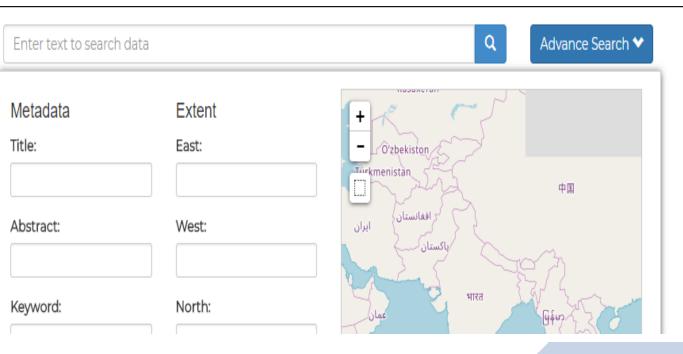
Data Search function

Available Datasets

- Administrative Boundary
- Topographic Data
- Geodetic Control Point
- Cadastral Data
- Orthophoto

Data Contributors

• Survey Department





1.1.1.0



NSDI Clearing House

Metadata function



Available Datasets

- Administrative Boundary
- Topographic Data
- Geodetic Control Point
- Cadastral Data
- Orthophoto

Data Contributors

- Survey Department
 - Topographical Survey Division
 - Geodetic Survey Division
 - Cadastral Survey Division
 - National Geographic
 - Information

31 Record(s) found



Hydrography (1:250000)

Hydrography data contains line layer of river and streams and polygon layer of wide river and lakes. This data is part of topographic data at scale 1:250000 is the digital data produced on the basis ..

Home

Metadata Services

Apps

Cart 0

Login

About

Contact

Cost: NRs. 240 Unit: Sheet

Building (1:250000)

Building data contains a point layer of location of building, polygon layer containing built up area and point layer containing settlement name. This data is part of topographic data at scale 1:250000..

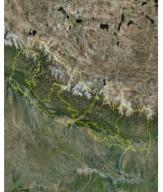




NSDI Clearing House

140

Applications



Administrative Boundary History

This application shows which previous VDCs/Municipalities have been converted into which new local units.





opulation Dynamic ducation Literacy rate by sex Adult literacy rate by sex O Male

Others Gender Aspect Household Characteristics

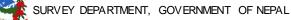
Manufacturing Establishments Other Development Indicators

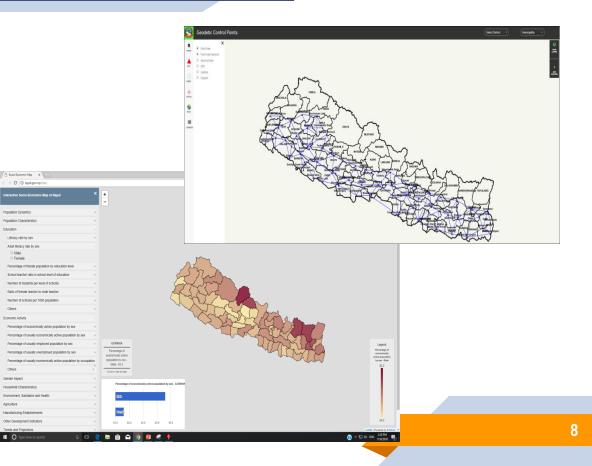
🗧 🔘 Type here to sea

Geodetic Control Network

This application provides information about Geodetic Control Network of Nepal established by Survey Department.







Development Account Project : Country Action Plan :

	Activity	Estim ate d Date	Addendum	Completio n Date
1.	Project Initiation Meeting	Nov 2018	A	Nov 2018
2. Inf	Pre-needs Assessment ormation Sharing	Dec 2018		Dec 2018
3.	Project Scoping and Schedule	Jan 2019	В	Feb 2019

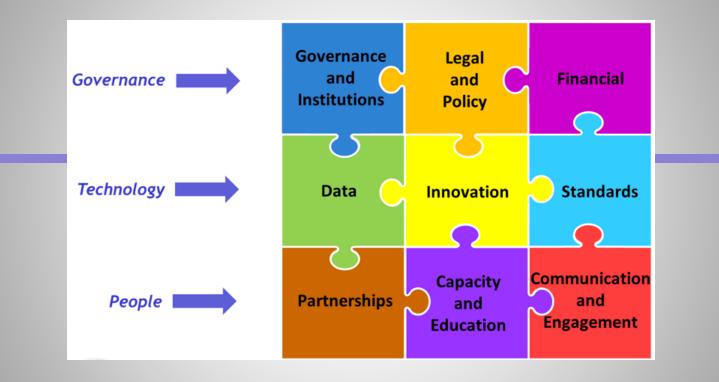
Component One: Project Execution Plan

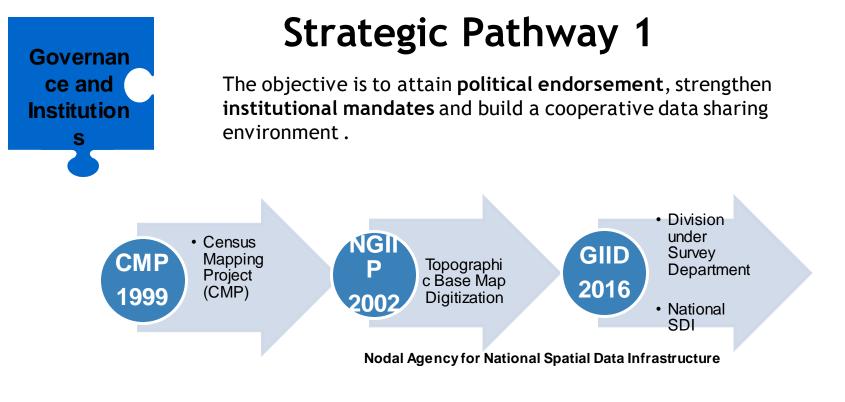


Activity	Estimated Date	Addendum	Completion Date
1. Current and Desired Performance	April 2019	С	May 2019
2. Baseline Survey	May 2019	D	May 2019
3. Environmental Scanning	May 2019	E	July 2019
4. Stakeholder Identification and Analysis	June 2019	F	June 2019
5. Stakeholder Engagement Workshop	July 2019	G	July 2019
6. Strategic Alignment (and Benefits)	July 2019	Н	Ongoing
7. Vision, Mission and Goals	August 2019	I	Ongoing
8. Gap Analysis Matrix	August 2019	J	Ongoing
9. Needs Assessment and Gap Analysis Report	August 2019	К	Ongoing

Component Two: Needs Assessment and Gap Analysis

Country Action Plan :	Component Three: Country Action Plan					
	Activity	Estimated Date	Addendum	Completion Date		
	1. Review Country Action Plan (Template)	August 2019	L	Ongoing		
	2. Strategic Pathway Activities	October 2019	М			
	 Populate Country Action Plan (with Activities) 	November 2019	L			
	4. Implementation Schedule	January 2020	N			
	5. Budget Estimations	February 2020	0			
	6. Develop Success Indicators	March 2020	Р			
	7. Finalise Country Action Plan	April 2020	L			
SURVEY DEPARTMENT, GOVERNMENT OF	NEPAL			10		





No Geospatial Strategy No Active Working Group



This strategic pathway establishes a robust legal and policy framework that is essential to instituting appropriate national geospatial information legislation and policy that set out **roles and responsibilities** for the management, availability, accessibility and application of geospatial information.

• Prepared draft NSDI policy.

Policy

and

Legal

- Guided by Land (Survey Measurement) Act for cadastral data acquisition and updating.
- Guided by **Directives for Digital data distribution** for **data distribution**.
- No Licensing and Pricing Model



Financia I This strategic pathway establishes the **business model**, develops **financial partnerships**, and identifies the investment points for delivering integrated geospatial information management, as well as recognizing the benefits realization milestones that will achieve and maintain momentum.

- Government Funded
- Difficult to measure social and economic benefit: Unlike other infrastructures like road, electricity because impact of NSDI is realized in longer run.



This strategic pathway establishes a geospatial data framework and custodianship guidelines .

Survey Department

Data

National Topographic Database

List of Geographic Names

Ortho-photo Aerial Photo images

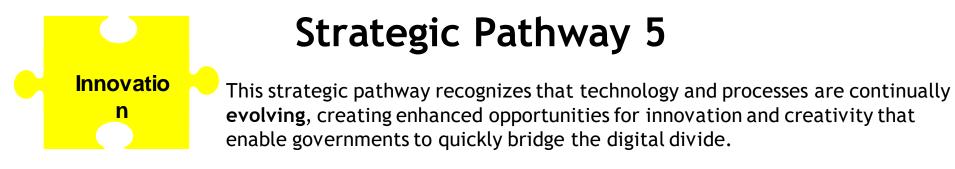
Geodetic Control Points (Horizontal, Vertical, Gravity)

Cadastral Maps

Land Resource Maps Department of Mines and Geology(DMG)

Geological Data





NSDI Clearinghouse

High resolution Digital Elevation Model (DEM) from Light Detection and Ranging (LiDAR) technology. CORS





The objective is to enable different information systems to communicate and exchange data, enable knowledge discovery and inferencing between systems. Interoperability

- De facto data format
- North American Profile of ISO 19115:2003 is being used as metadata format.
- Datum Issues



Partnerships

This strategic pathway establishes effective cross-sector and **interdisciplinary** cooperation, industry **partnerships**, community **participation** and international **cooperation** as an important premise to developing a sustainable Integrated Geospatial Information Framework.

NSDI can't be developed in isolation.





The objective is to raise awareness and develop and strengthen the skills, instincts, abilities, processes and resources that organizations and communities require to utilize geospatial information for decision-making.

NSDI is in syllabus of undergraduate programm (BE in Geomatics Engg. or equivalent) offered by Tribhuwan University, Kathmandu University and Purbanchal University.





The objective is to deliver effective and efficient **communication and engagement processes** to encourage greater input from **stakeholders** in order to achieve transparent decision-making processes when implementing a Geospatial Information Management Framework.

Survey Department is in continuous efforts to cooperate with all government institutions that produce and/or use spatial information.

Updates metadata information on relevant spatial information produced/managed/distributed by government institutions.

Socio-Economic Atlas, 2005 and 2015 were prepared in collaboration with Cental Beaureau of Statistics.



Development Account Project

The Development Account Project "Strengthening geospatial information management towards implementing the 2030 Agenda"

Focusses on improving and strengthening national geospatial information management.







Thanks for listening



