Evolving Spatial Planning and Development in Nepal: Context and Issues

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Purpose

 The purpose of this presentation is to reveal the relevant context and pertinent issues concerning spatial planning and development in Nepal.

 The aim is to enable deliberation and solicit national and international experiences on these issues.

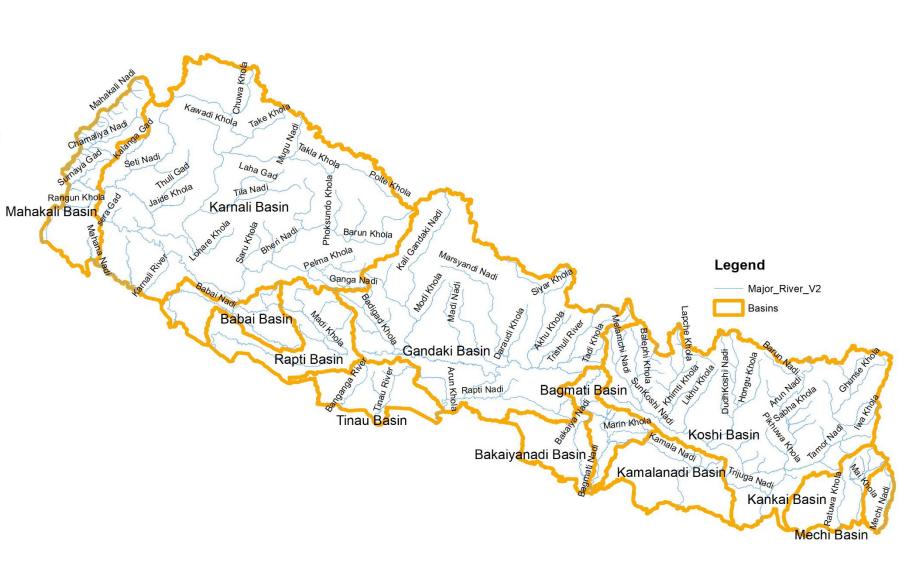
 The outcome is hoped to help MOUD in its current effort to review its national policies, strategies, and acts.

National Level

Third Plan (1965-1970) and Regional Planning

Functional region

- Early spatial planning effort at national scale was introduced in the decade of 1960s.
- Division of nation on **functional regions** was conceptualized—
 based on **topography** and **river system**.
- The river corridor following Koshi, Gandaki-Bagmati, and Karnali river systems found prominence.
- The river corridor is followed because it serves as source of power and eases road development.



Fourth Plan (1970-1975) and Regional Planning

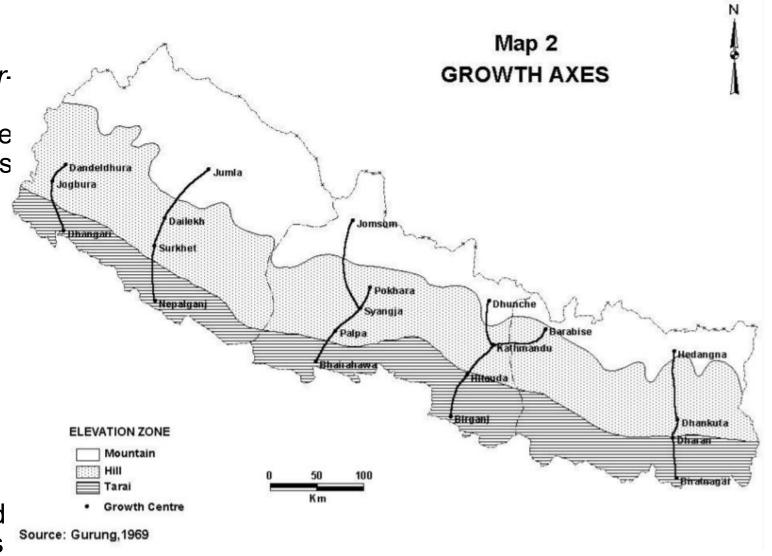
Growth Axis

The concept of the GA is to reduce *interregional disparity and integration of national economy*. Development activitie to be promoted along major growth axes

- Koshi GA
- Kathmandu GA
- Gandaki GA
- Karnali GA
- Dhangadhi-Dadeldhura GA

These GAs are to serve as **ribs**, while East-West highway as **spinal chord**. East-West link was conceived for hill.

Four **Development Regions** conceived in 1972—that became five in late 1970s

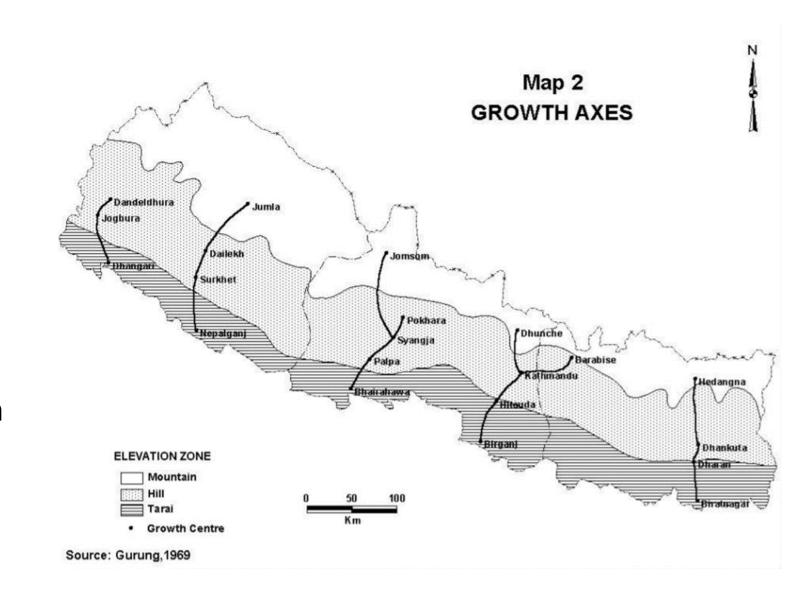


Fourth Plan (1970-75) and Regional Planning

Growth Centers

The objective is "creation of poly-functional settlements to cater to the diverse needs of the hinterland."

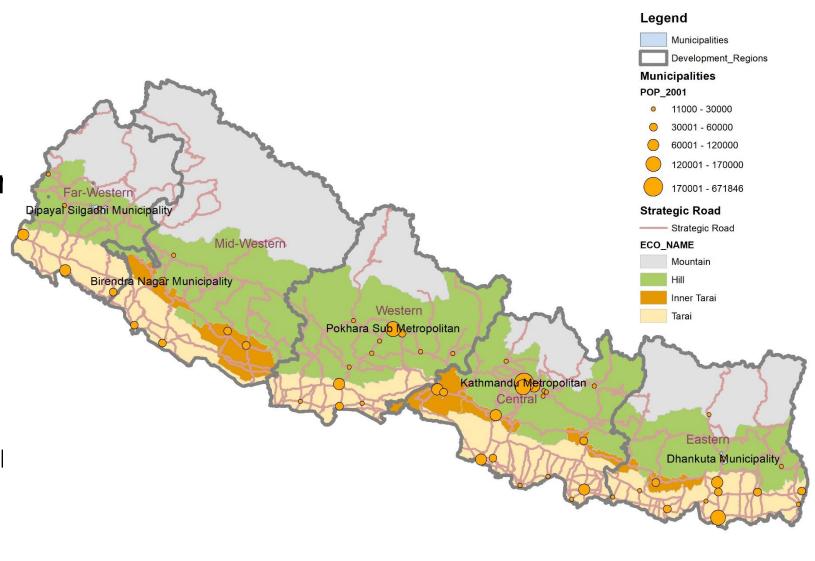
- Biratnagar, Birgunj,
 Bhairahawa and Nepalgunj,
 examples of the Terai towns.
- Dhankuta, Palung, Palpa, Syangja, and Dailekh, models for hilly areas.
- Hedangma, Dhunche, Jomsom and Jumla, examples of remote areas in the Himalayan region.



Fifth Plan (1975-80) and Regional Planning

Regional balance

- Aim is to remove disparity between ecological and development regions
- Principle of disaggregation at the national level and aggregation at the regional level for productive linkages
- Regional policy does not mean "scattering of limited resources" rather "it is to maximize national income through an investment patter that mobilizes inherent resources of regions and societies".

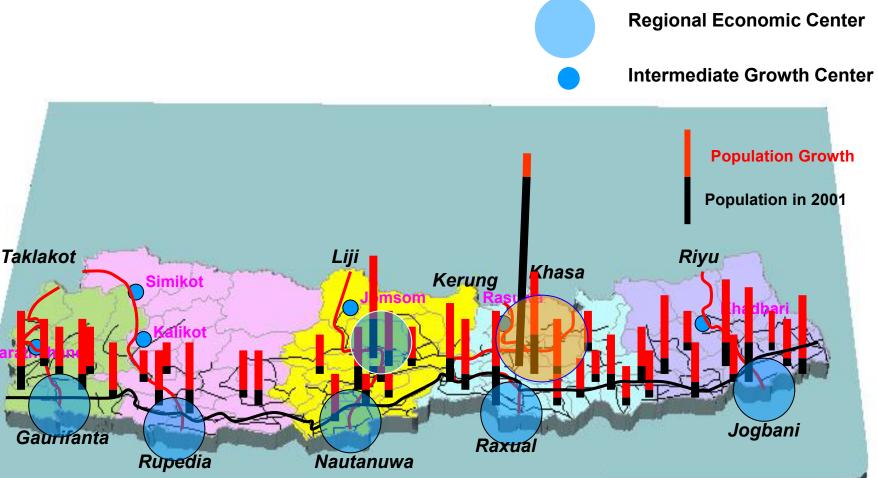


NUP (2007): Balanced National Urban System

Functional Economic Region

Transform development region into self-contained and self-reliant economic region through strengthened network of cities & towns of the NS Highway Corridor.

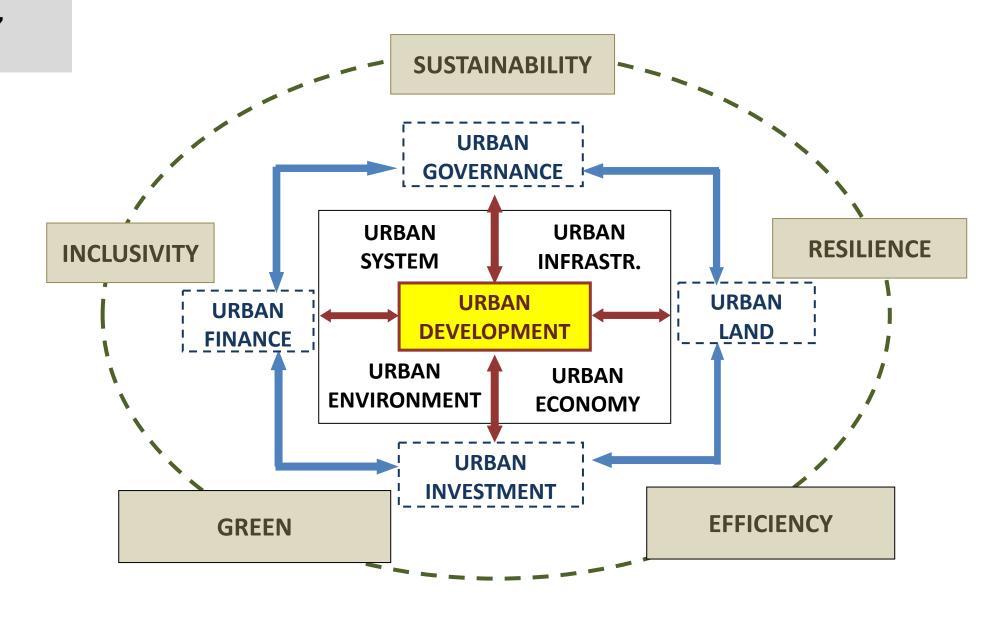
Network is to be built around the **first-order** gateway city at terai and interconnected **second-order** secondary towns at the Chure-foothill and **third-order** towns of **hill and mountain regions**—feeding to small towns and market centers of their catchment areas.





NUDS, 2017

Vision 2030: Balanced and prosperous national urban system



NUDS is not limited to physical development, but aspires to attain a qualitative vision for future cities that reflect highest value of a society.

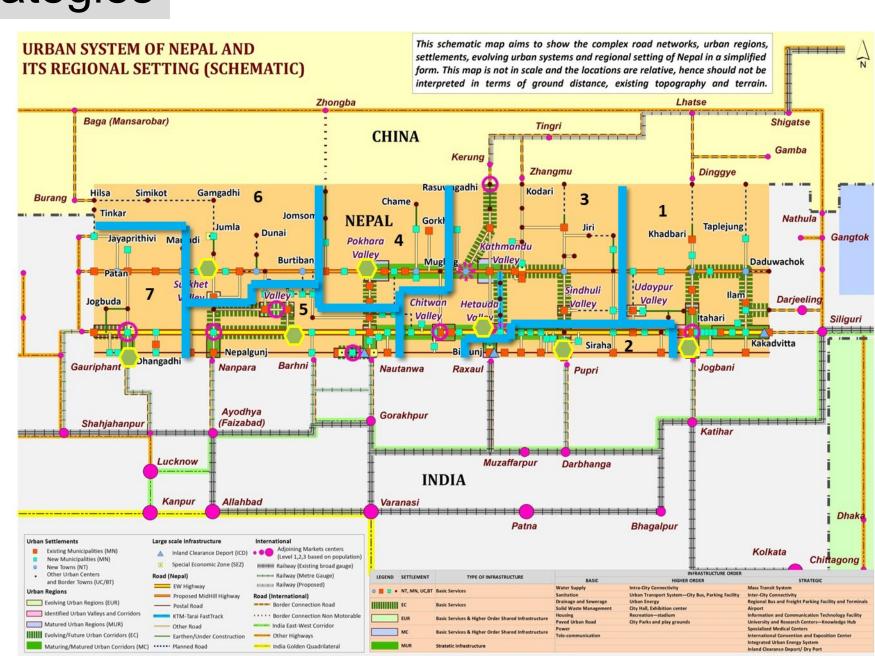
Urban System: Strategies

S1: Facilitate higher level functions and services in major regional urban centers and provincial capitals

S2: Improve connectivity standards

S3: Promote environment, heritage and tourism friendly economic functions in KV and deconcentrate incompatible functions outside the Valley

S4: Integrate provincial capitals with the development of (sub)national urban system

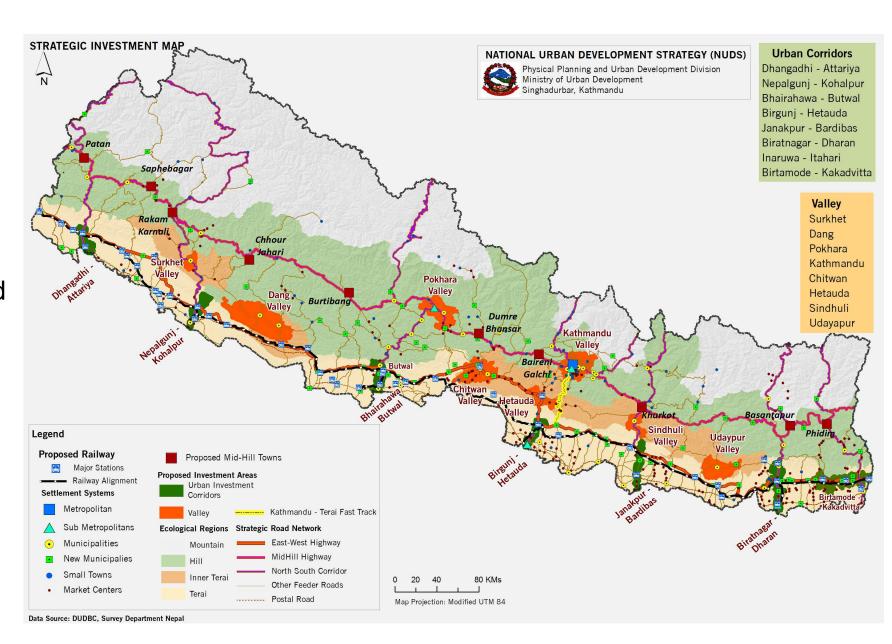


Urban infrastructure and Investment: Strategies

S13: Higher order/shared infrastructures in large urban region and corridor through cluster city approach

S80: Investment in urban areas of **mid and far-west** regions and in underdeveloped regions of **southern terai towns** & inner Terai.

S81: Prioritize investment in strategic small towns, market centers, border towns, district/ administrative centers, and new towns

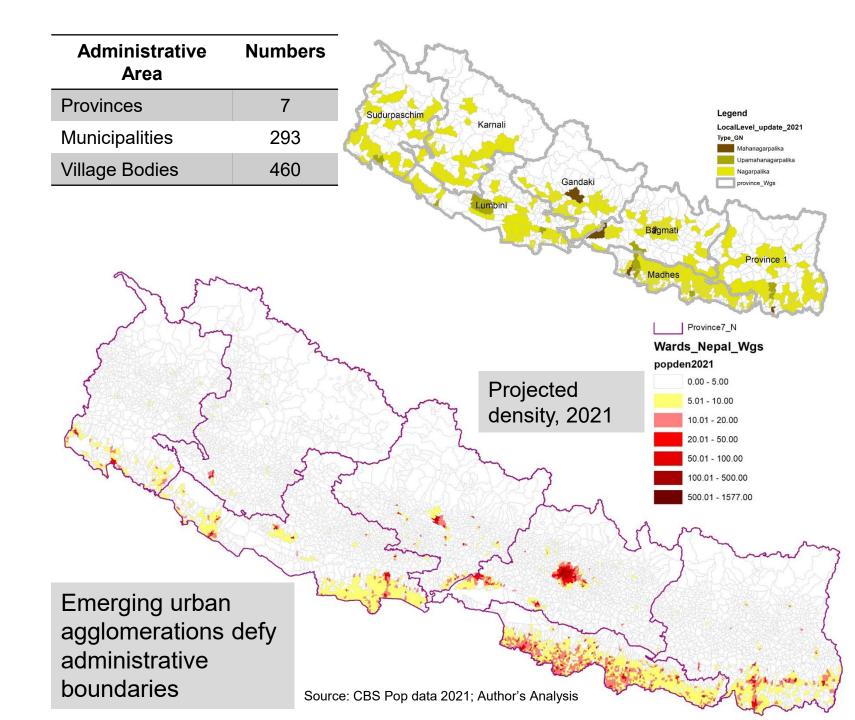


Urban Governance: Strategies

S89: Strengthen the role and capacity of MoUD to provide sustained technical support and guidance to provincial and local level on urban policies, planning, design and implementation of upscale urban sector projects.

S93: Make town plans basis for long term development of urban areas.

S94: Improve the legal basis for managing large **urban** region and corridor



Infrastructure Deficit

Infrastructure Deficit

Overall investment requirement for 293 municipalities for the next 15 years could be staggering at NPR 2,921 billion (USD 24.34 b). This amounts to NPR 195 billion per year (**USD 1.62 b**) for the next 15 years.

Fund Allocation

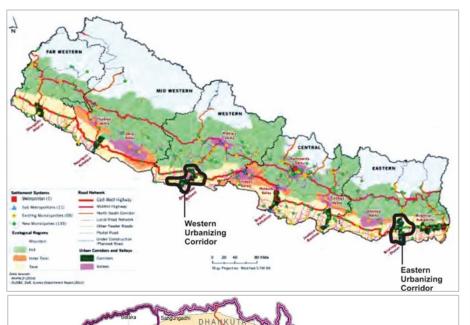
appraisal of the urban sector programs and budgets of all three tiers of governments reveals national urban development budget to be NPR 97.2 billion (USD 810 m) for FY 2020/2021. It is near 2.5 percent of national GDP of NPR 3,914.7 billion (USD) 33.66 billion) in 2019/2020. This share was 2.6 percent 2016/2017.

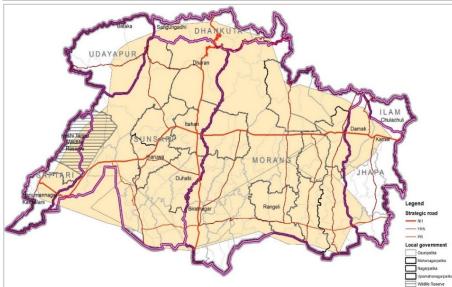
Source: Author's Estimate Source: Author's Estimate

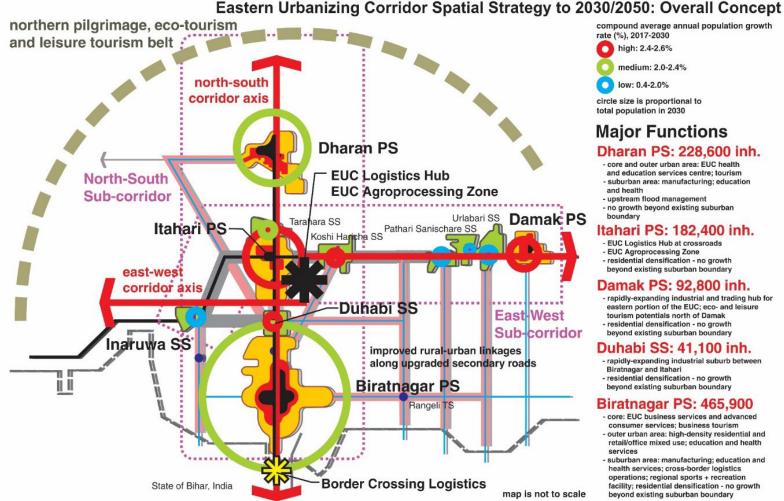
Regional Level

Urban Corridor Initiative

Urban Corridor Initiative: EUC: USD 1.2 b







compound average annual population growth rate (%), 2017-2030

high: 2.4-2.6%

medium: 2.0-2.4%

low: 0.4-2.0%

circle size is proportional to total population in 2030

Major Functions

Dharan PS: 228,600 inh.

- core and outer urban area: EUC health
- and education services centre; tourism
- suburban area: manufacturing; education
- no growth beyond existing suburban

Itahari PS: 182,400 inh.

- EUC Logistics Hub at crossroads
- EUC Agroprocessing Zone
- residential densification no growth beyond existing suburban boundary

Damak PS: 92,800 inh.

- rapidly-expanding industrial and trading hub for eastern portion of the EUC; eco- and leisure
- tourism potentials north of Damak
- residential densification no growth beyond existing suburban boundary

Duhabi SS: 41,100 inh.

- rapidly-expanding industrial suburb between Biratnagar and Itahari
- residential densification no growth beyond existing suburban boundary

Biratnagar PS: 465,900

- core: EUC business services and advanced
- consumer services: business tourism outer urban area: high-density residential and retail/office mixed use: education and health
- suburban area: manufacturing; education and health services; cross-border logistics facility; residential densification - no growth beyond existing suburban boundary

Provincial Level

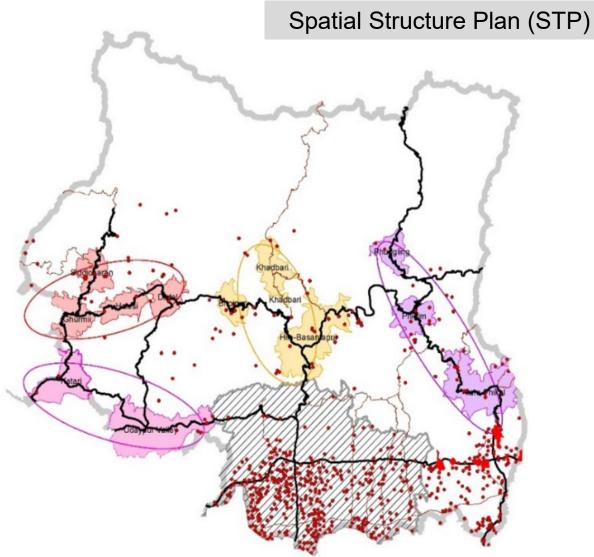
Periodic plan 2020/21-2024/25

Urbanization, Rural Development, and Settlement Management Strategies of P1G (Periodic Plan, 2020/21-2024/25):

S1: Cluster small towns and market centers in the hills and mountain region and develop regional urban infrastructures—and integrating these clusters with the urban corridors.

S2: Transform large urban corridors into an planned economic region through coordinated development and management

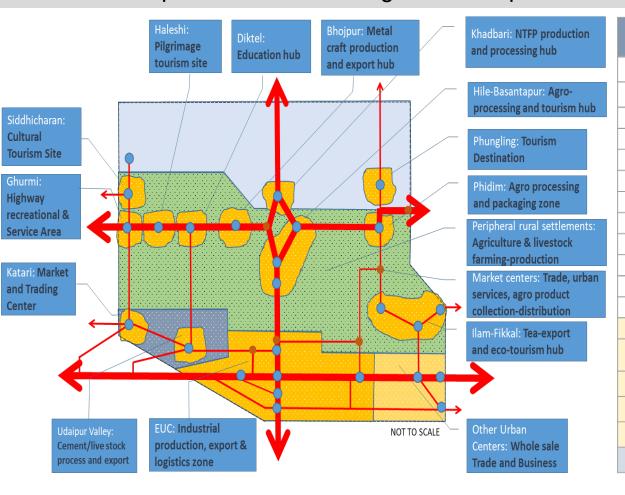
S3: Promote integrated development of market centers of rural areas combining urban infrastructure provisions and livelihood opportunities.



Provincial Level Spatial Planning

Schematic map of P1 STP revealing locational potentials

Proposed investment scenario



Location/Cluster	Amount (USD M)	Central Gov Share	Provincial Gov Share	Local Gov Share
Hille-Basantapur	91.91	43%	51%	6%
llam-Fikkal	101.30	43%	51%	6%
Bhojpur	21.60	43%	51%	6%
Diktel	25.38	43%	51%	6%
Haleshi	16.10	43%	51%	6%
Ghurmi	16.97	43%	51%	6%
Siddhicharan	26.73	43%	51%	6%
Phungling	37.88	43%	51%	6%
Phidim	30.22	43%	51%	6%
Khadbari	29.30	43%	51%	6%
Udaipur Valley	120.27	43%	51%	6%
Katari	37.18	43%	51%	6%
Hill, Mountain & Inner Valley Clusters	554.84	43%	51%	6%
East Urban Corridor* (Biratnagar-Dharan-Itahari-Damak-Inaruwa)	1,016.00*	31%	45%	24%
Other Urban Centers	108.56	31%	45%	24%
Peripheral Rural Settlements	699.47	43%	51%	6%
Market Centers	121.09	43%	51%	6%
Province	2,499.96			

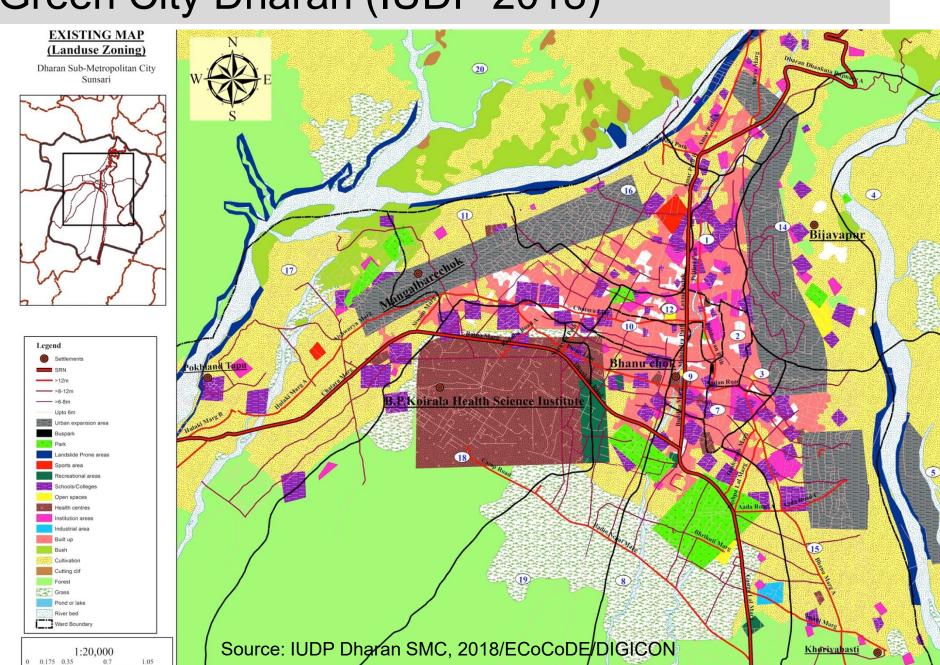
Provincial Spatial Strategies stress on locational potentials, and the investment be directed in a manner to unleash these potentials. It seeks collaborative investments.

Local Level Planning

Local Planning: Green City Dharan (IUDP 2018)

Local planning with finer spatial grains

- 70% Forest Area
- Many Parks and community forest within city
- Conservation of green areas
- Waste segregation and recycling initiation- waste to energy concept
- Solar energy promotion
- Rain water harvesting

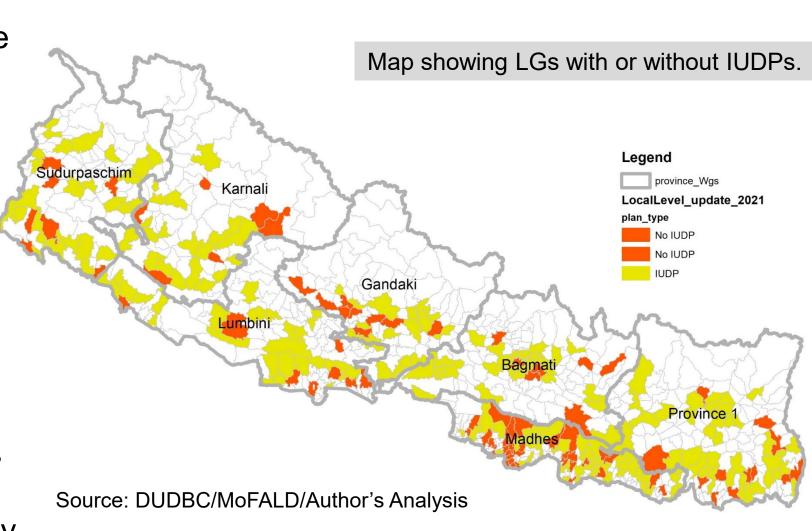


Municipalities with IUDPs prepared in 2017/2018

About one third of 293 municipalities and all 460 village bodies do not have integrated urban development plans (IUDPs).

Of the prepared, thematic plan period of five years has completed--requiring review & update of all IUDPs. Also, new political leadership has come.

The IUDPs suffer in implementation—due to various constraints. Different local planning initiatives are underway without integration to IUDPs.

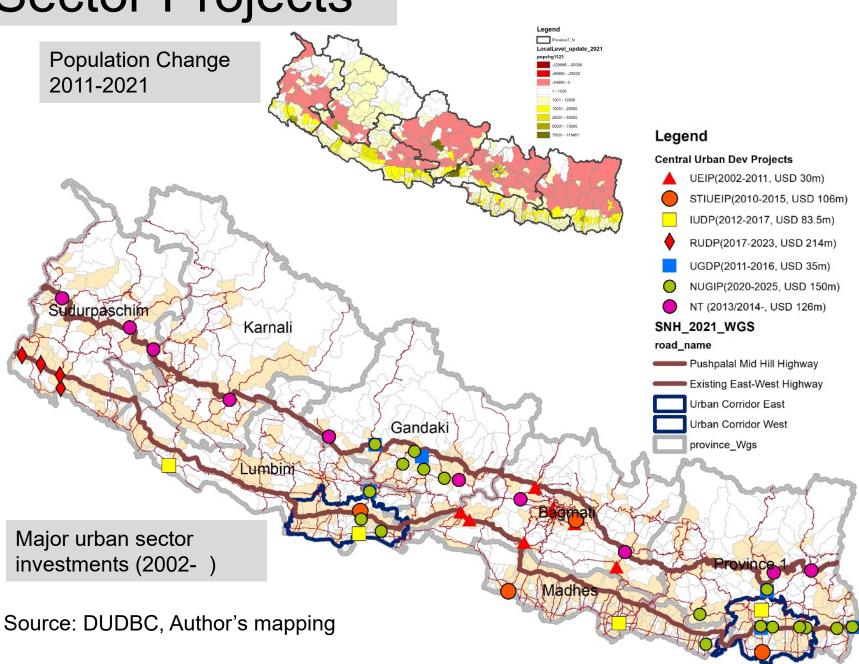


Strategic Urban Sector Projects

Average annual spending (2002-2023) of the Centrally Executed Strategic Projects is about USD 29m.

It is inadequate than the assessed budget of USD 1.6 b required per annum to suffice existing deficit and new infrastructure demand for the period of 2017-2031.

The Terai and Valley focused investment efforts appear to be not helping to reduce the migration from the hills and mountains.



Selected photographs of UEIP interventions

Bharatpur Bus Park





Source: DUDBC/UEIP



Source: DUDBC/UEIP

Selected photographs of STIUEIP interventions

Biratnagar Road Works

Biratnagar sewer system





Source: ADB

ISSUE 1: Inadequate institution building for spatial planning and development

- How can we build/strengthen necessary organizational structure, capabilities, and mechanisms to operationalize national policies and strategies?
- Do we have necessary **guidelines and manuals** to guide province and local level in urban policies, planning, and implementation?
- Do we have necessary norms and standards for periodic review and update of plans and policies?
- Do we have adequate **legislative provisions** to guide on spatial planning, approval, development, and growth management of the clustered city region?

ISSUE 2: Absence of or weak mechanism to forge coordination and collaboration between and at all three tiers of Governments

- What does a workable coordination framework and mechanism look like in the federated structure including Center, Province and Local Level—that enables programmatic information sharing, planning, and investment?
- How can a horizontal coordination among stakeholders be established and strengthened?

ISSUE 3: Difficulty in accessing to urban land

- How can production of "serviced" urban land be enhanced in a manner that optimizes an efficient utilization of land?
- How can the role of private sector be organized in the production of serviced land?
- What should be the role of Government in the production of serviced urban land?

ISSUE 4: Scaling up urban sector program and budget

- How to scale up urban sector budget at all tiers of governments and assure the quality of impact of investment? The urban sector budget tends to be inadequate, fragmented, overlapped or uncoordinated, lagging guidance by plans such as IUDPs/PPs, and is less prioritized at provincial level.
- How to increase investment for urban infrastructures? Specially how to attract private sector investment: where will their role be likely and beneficial?

- ISSUE 5: Lack of IUDPs at local level, and its timely review and update. Thematic plans uncoordinated and unintegrated with IUDPs/PPs. The current land classification practices are unhelpful for preserving agricultural land and urban land management.
 - How to ensure spatial structure planning at province and IUDPs at local level mandatory? Lack of IUDPs are failing National and Provincial level policies and strategies to cascade to local level.
 - How to ensure that all local governments (LGs) have their IUDPs prepared and periodically reviewed and updated?
 - How to ensure a mechanism whereby all thematic and strategic planning is coordinated and integrated with IUDPs of the LGs?

Thank you for your patience!

Organization of the session activities and time

Activities	Time	Responsibilities/ Requirements
Presentation: Context setting and revealing issues	20 m	Mahendra Subba, RUPSON
Query/Clarification/Guidance for breakout session	10 m	Mahendra Subba, RUPSON
Conducting 5 breakout groups	40 m	RUPSON Executives (Arjun, Sanjay, Suman, Gyan, Barsha—Mahendra supports all) facilitate each breakout group Need a volunteer to support each facilitator Logistics: meta card (3 colors), color pens, 10 boards, brown roll papers, thumb pins
Presentation by the 5 Group Leaders in the Plenary	30 m	Each group selects its leader
Session closing		
President RUPSON summarizes key recommendations	5 m	
UN Habitat	5 m	UN/Habitat expresses thoughts on the session
MoUD	10 m	MoUD expresses thoughts on the session
	2 hours	