

Vision 2050 for UT of Ladakh

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Positioning Ladakh
Key challenges

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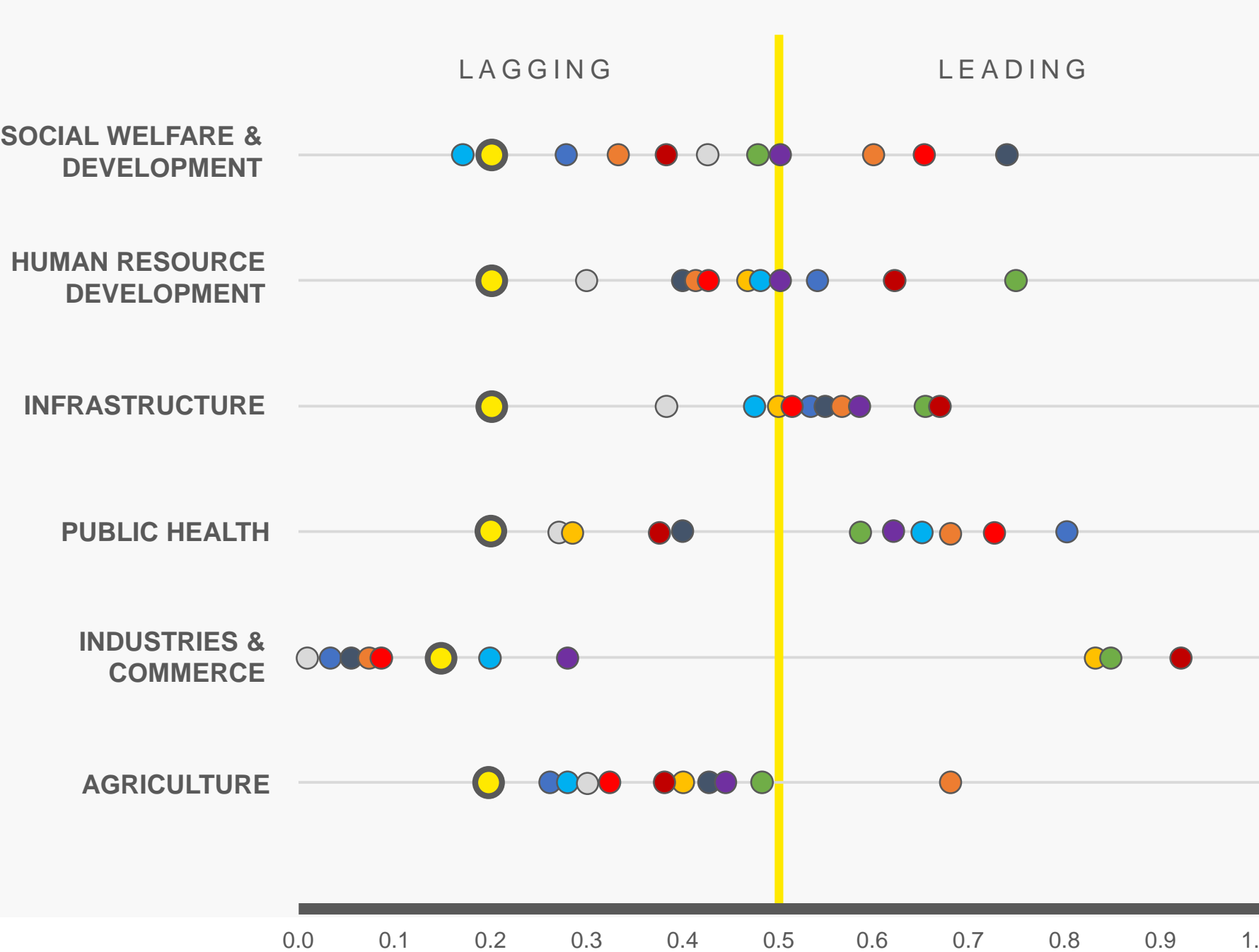
Achieving sustainable objectives



Ladakh Background and Context



DEVELOPMENT STATUS OF HILL AREAS IN INDIA BASED ON GOOD GOVERNANCE FRAMEWORK



LADAKH - NOW

Captive employment skills and opportunities

Reforms in education with local requirements

~ 40% of population has no access to available infrastructure

Lack of sufficient healthcare professionals and access to technology

Significant role of SME at household level

Offsetting through imports to meet food demand

Ladakh

Arunachal Pradesh

Assam

Himachal Pradesh

Manipur

Meghalaya

Mizoram

Nagaland

Sikkim

Tripura

Uttarakhand

Key Challenges



- 70% of the food demand is met by imports
- Agricultural income is dependent upon 0.2% of total land area
- Seasonal tourism sector

- Limited connectivity in seasons
- 54% settlements do not have accessibility options



- 'Digital Divide' in telecom and IT
- High access to digital services in Leh and Kargil cities
- Limited access to CSC in other settlements



- 20% population has limited access to specialized healthcare
- Avg. time to reach a district / sub-district hospital ~ 3 hours



- 36% deficit in Power Supply
- No power supply for 30% of the day



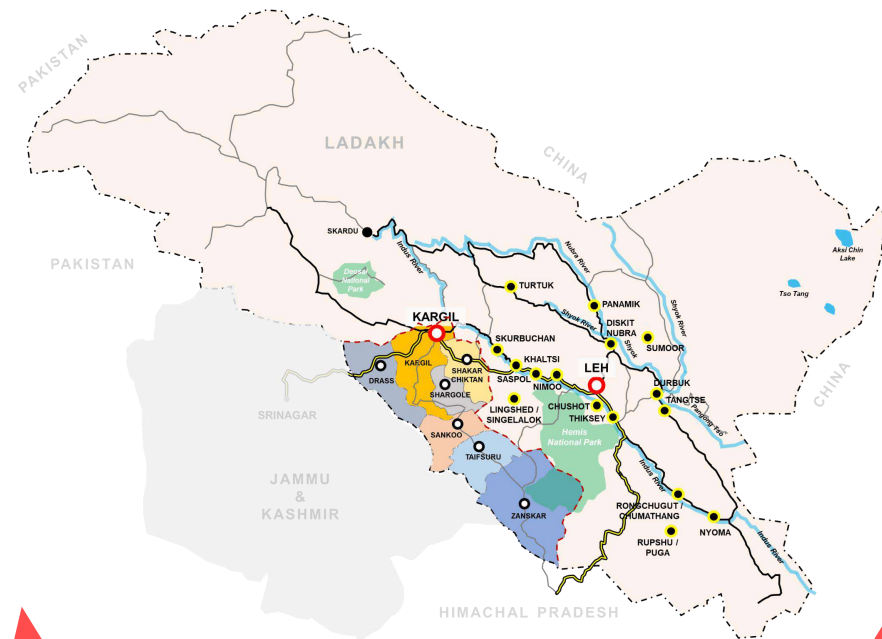
- 38% deficit in drinking water supply
- Limited access to piped water supply



- 95% waste disposed off untreated
- High dependency on plastic



- Localized education system
- Limited access to higher education institutes





- Sustainable agriculture development
- Thrust on SMEs and Investment Promotion
- Development & promotion of tourism
- Surplus employment opportunities

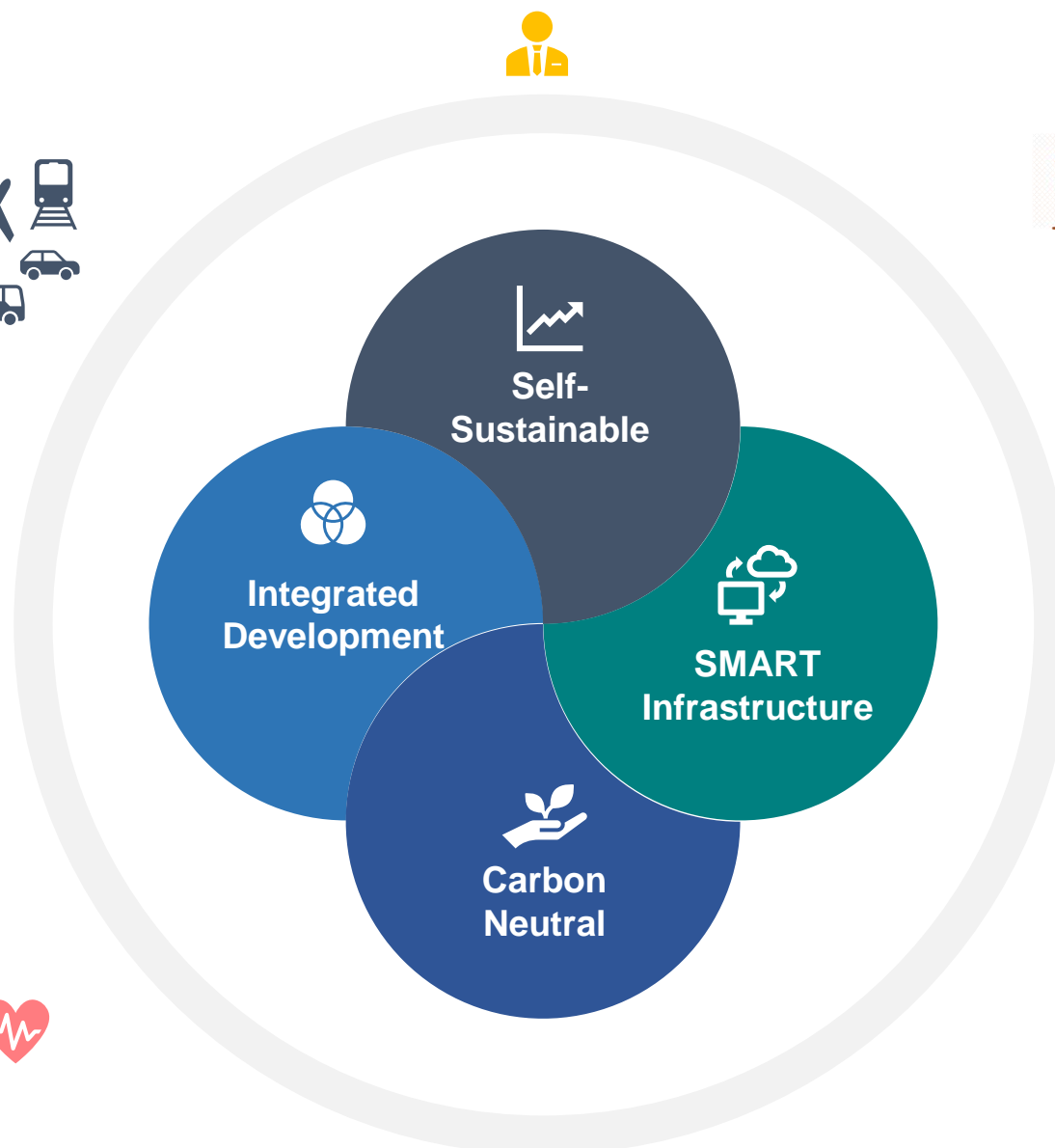
- Connectivity by all weather roads
- Green and sustainable public transport system



- Integrated CSCs across UT
- Digital platforms for easy access by citizens
- District CCCs for effective monitoring



- Access to specialized healthcare within 1 Hour
- Mobile medical units for on demand healthcare



- 30 GW of power generation
- Promotion of Clean Energy
- SMART integrated monitoring mechanisms



- Assured 24x7 quality water supply
- Tap Water Connectivity to every HH



- 'Zero Waste Ladakh'
- Waste to energy

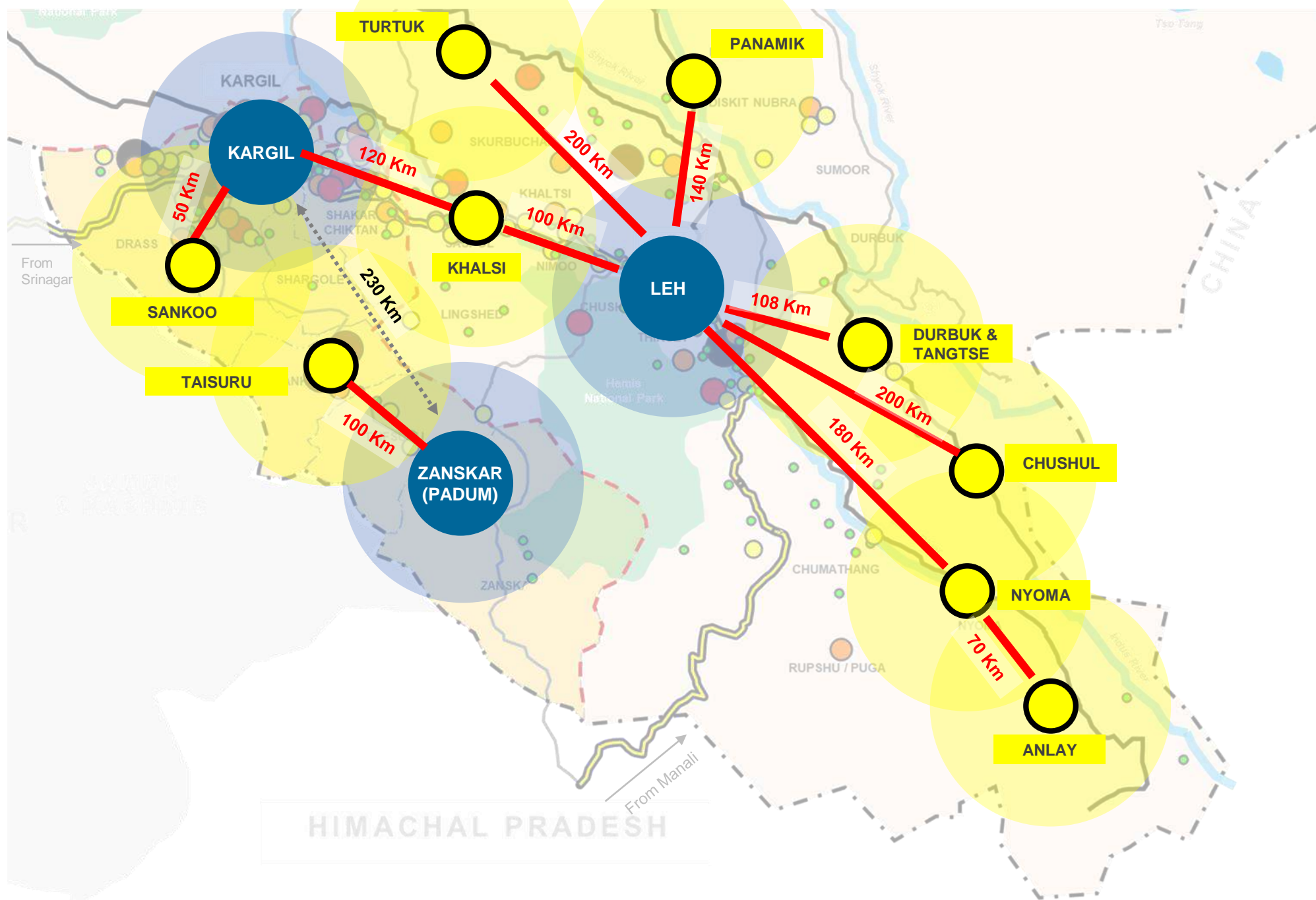


- SMART education system
- Easy access to higher education facilities
- Skill development and employability



Ladakh
Next

'3-C' Approach for Vision 2050



Hubs of Development, Urbanization and Economy

Spokes – Sub Centres for Regional Infrastructure Development

Service Zone of Hubs
(1 Hour Travel Time from the centre point of hub)

Service Zone of Spokes
(1 Hour Travel Time from the centre point of spoke)



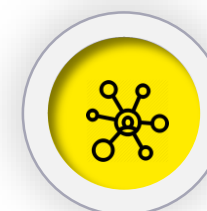
Community

Citizen Centric Development



Connectivity

100% Accessibility & Mobility

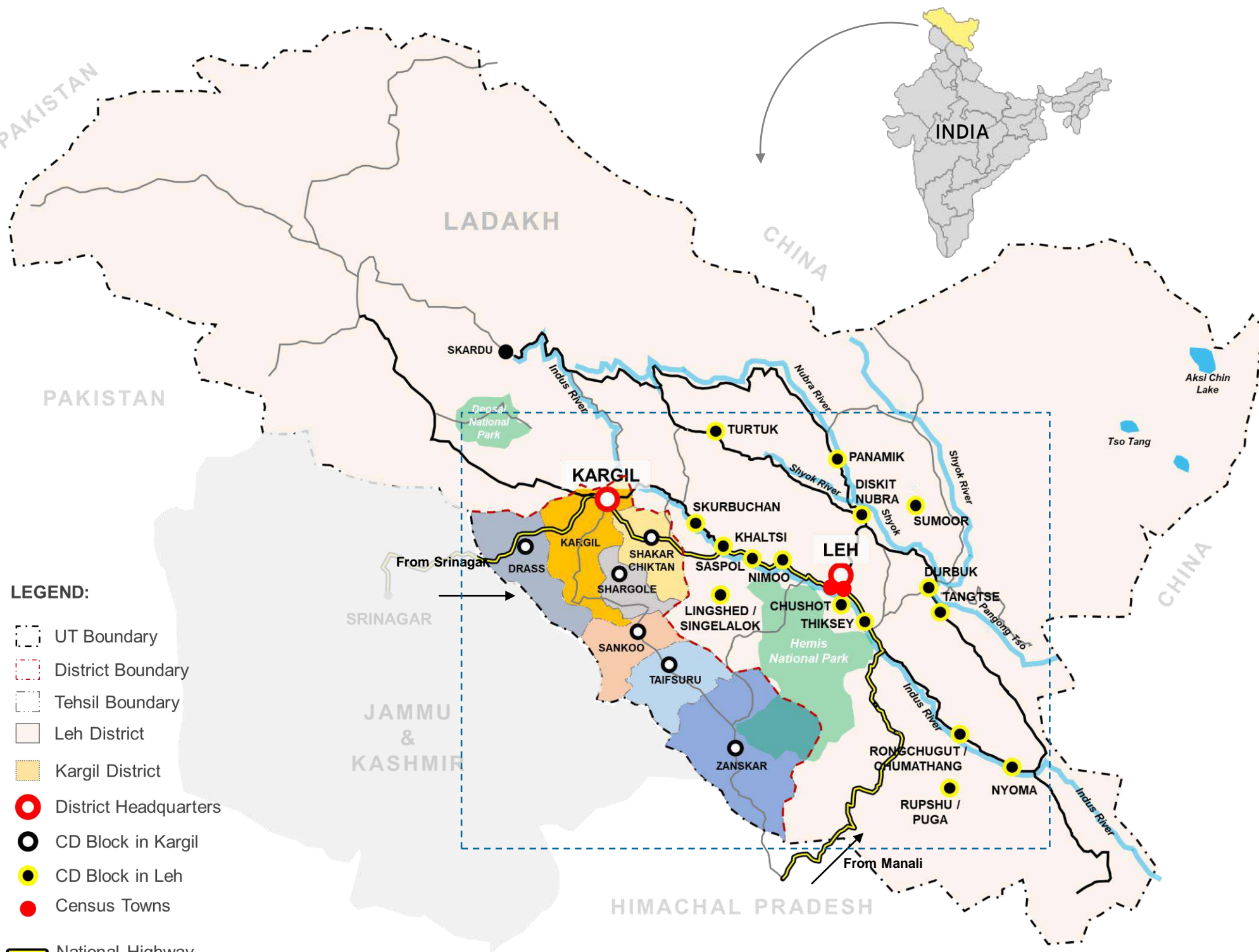


Clusters

Decentralized Regional Development



VISION 2050



Ladakh's population is growing @ 1.65% per annum

Population in 2011 = 2.7 Lakh
Est. population in 2020 = 3.1 Lakh

Urbanization Growth Rate (2001-2011) = 6% per year

23% of Ladakh's total population resides in Urban areas currently and this urbanization is growing @ 6% per year

46% Workforce Participation

- Leh District : 56%
- Kargil District : 37%

Average Household Size - 7

- Total Households = 40247 HH
- Leh District = 21909 HH (Size - 6.09)
- Kargil District = 18338 HH (Size - 7.67)

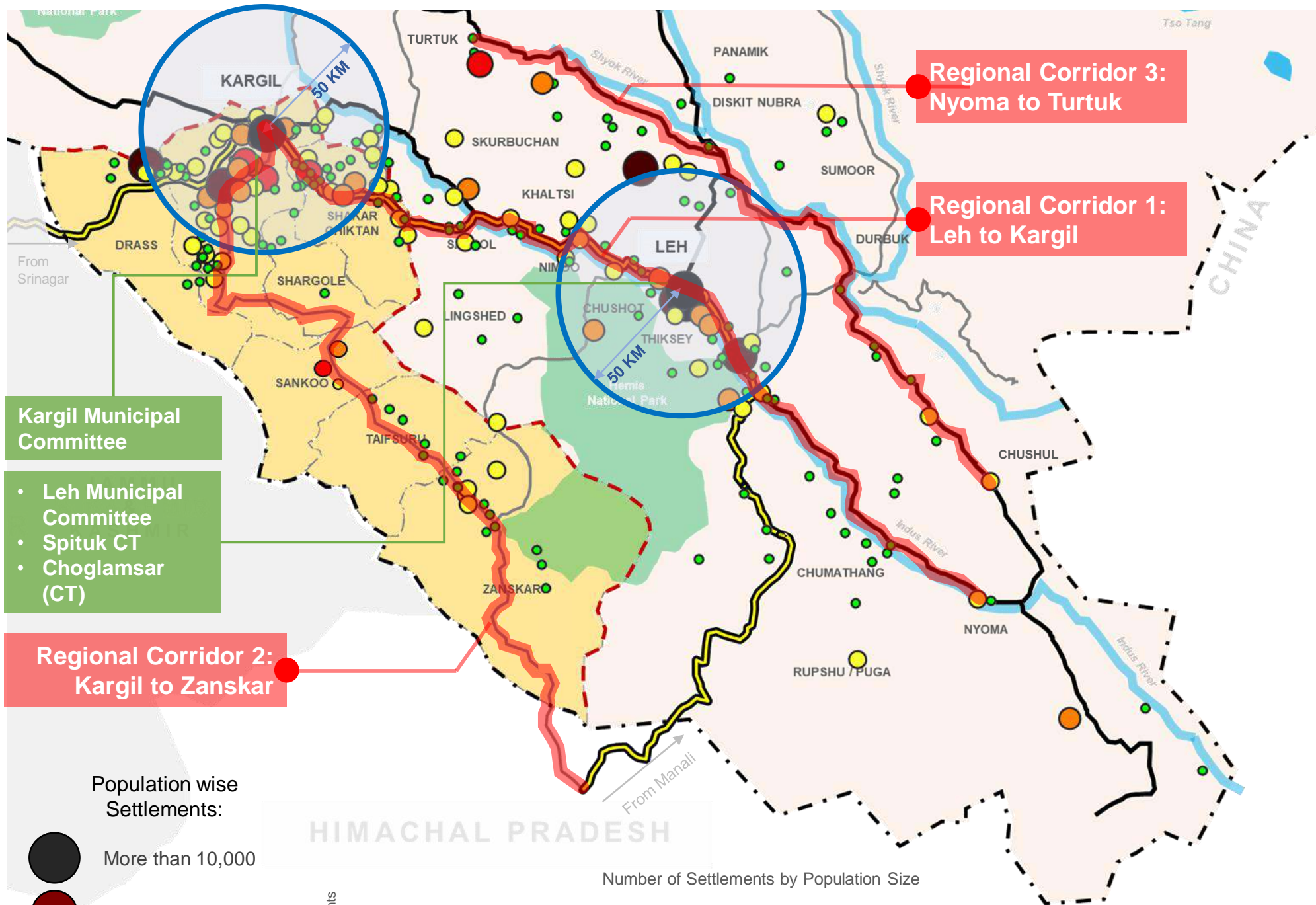
Administrative Structure – 2 Districts (Leh and Kargil)

Ladakh comprises of 4 urban areas and 238 villages in its 25 Blocks



Ladakh
Now

Population Distribution



65% of total population is in and around Leh and Kargil City
(i.e. within 50 Km)

74% of urbanization is in and around Leh City
(including Spituk & Choglamsar CT)

90% settlements along the 3 Regional Corridors:

1. Kargil to Zanskar
2. Kargil to Nyoma
3. Turtuk to Chulshul

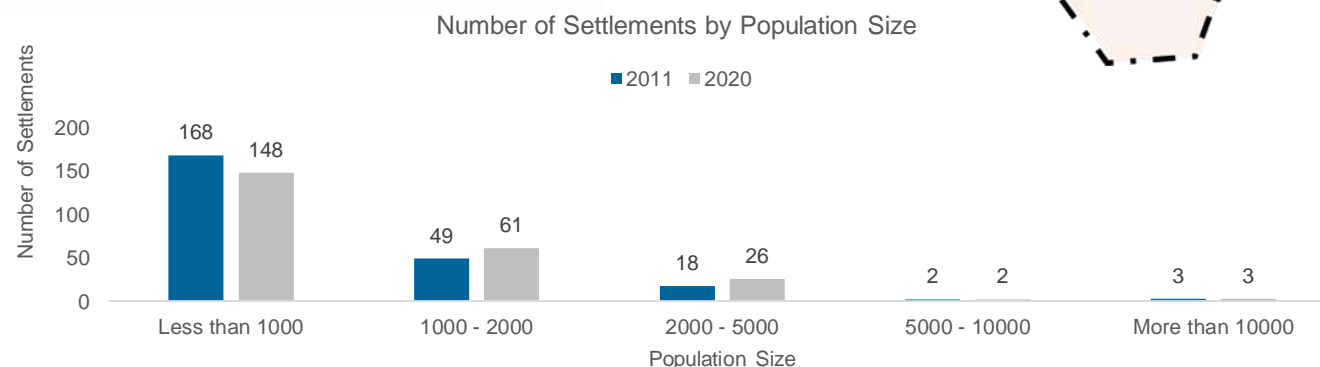
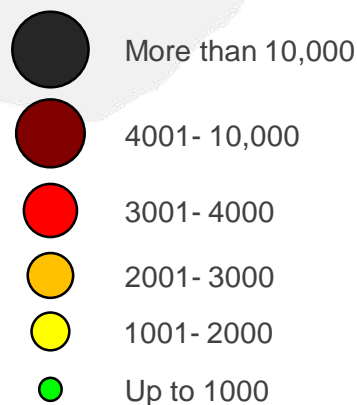
Rapid rural to urban transition

Kargil Municipal Committee

- Leh Municipal Committee
- Spituk CT
- Choglamsar (CT)

Regional Corridor 2: Kargil to Zanskar

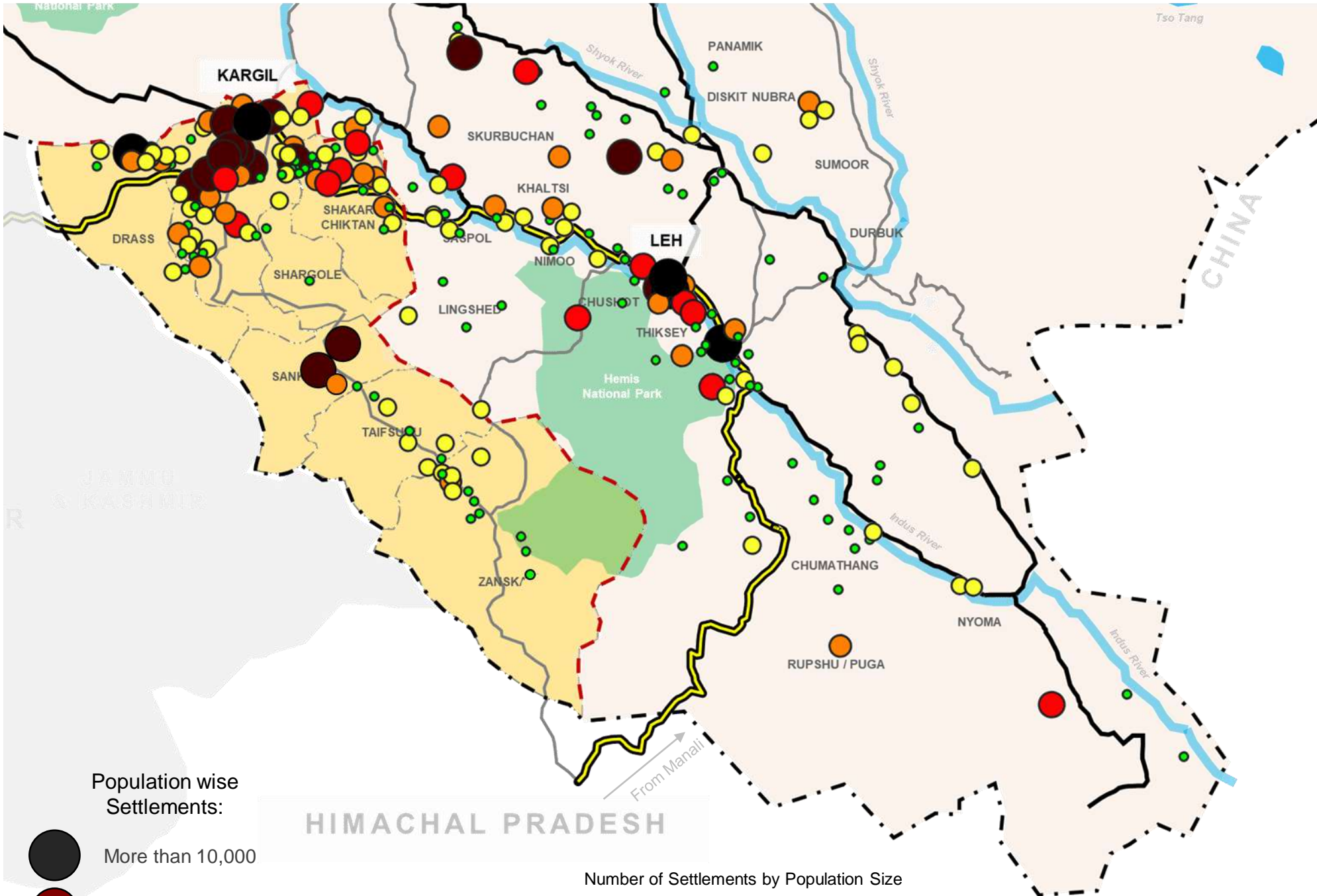
Population wise Settlements:





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Population in Y-2050



Population is expected to double up by 2050
(~ 5 Lakh)

Leh and Kargil cities will continue to witness urbanization and become major Economic centres

Share of settlements with <1000 population will decrease from 70% to 44%

Need to decentralize the development activities for balanced regional development

Most of the development activities are concentrated in Leh and Kargil. For balanced growth of UT, it is imperative to develop other regions

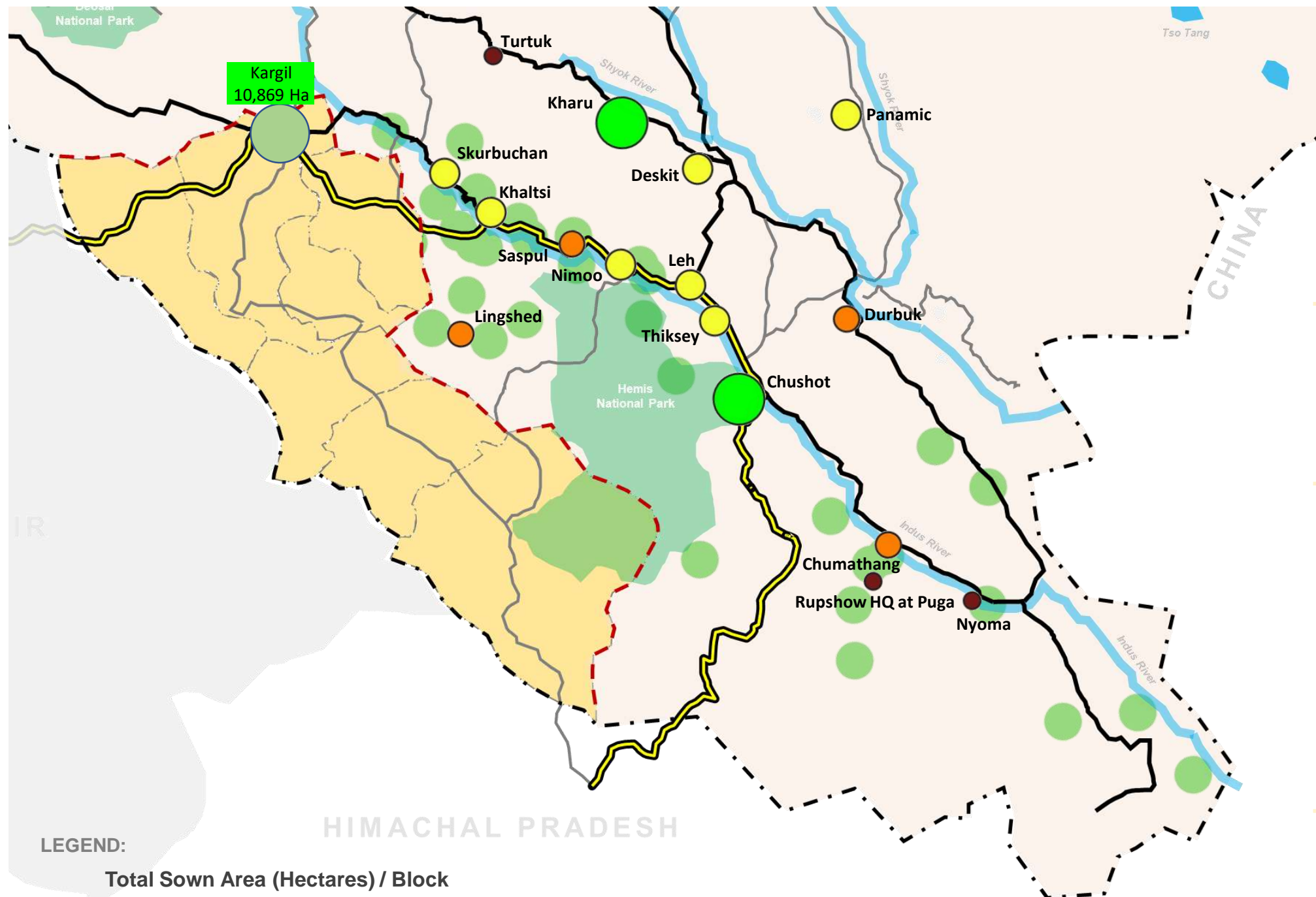


Economy – Agriculture, Industries & Tourism



Agriculture & Horticulture

1.1



LEGEND:

Total Sown Area (Hectares) / Block

1000 - 1500

500 - 1000

250 - 500

30 - 250

Settlements with Organic Farming

Basic Statistics:

Area sown: 33%

Food Grain
Production: 1.0 Lac Qtl pa

Fruits
Production: 1.6 Lac Qtl pa

Demand Supply Gap

73 % food grains are imported
85 % of Fruits are Imported

Average consumption of Fertilizer/Pesticide

Fertilizer: 60 kg/ha
National average: 123 kg/ha

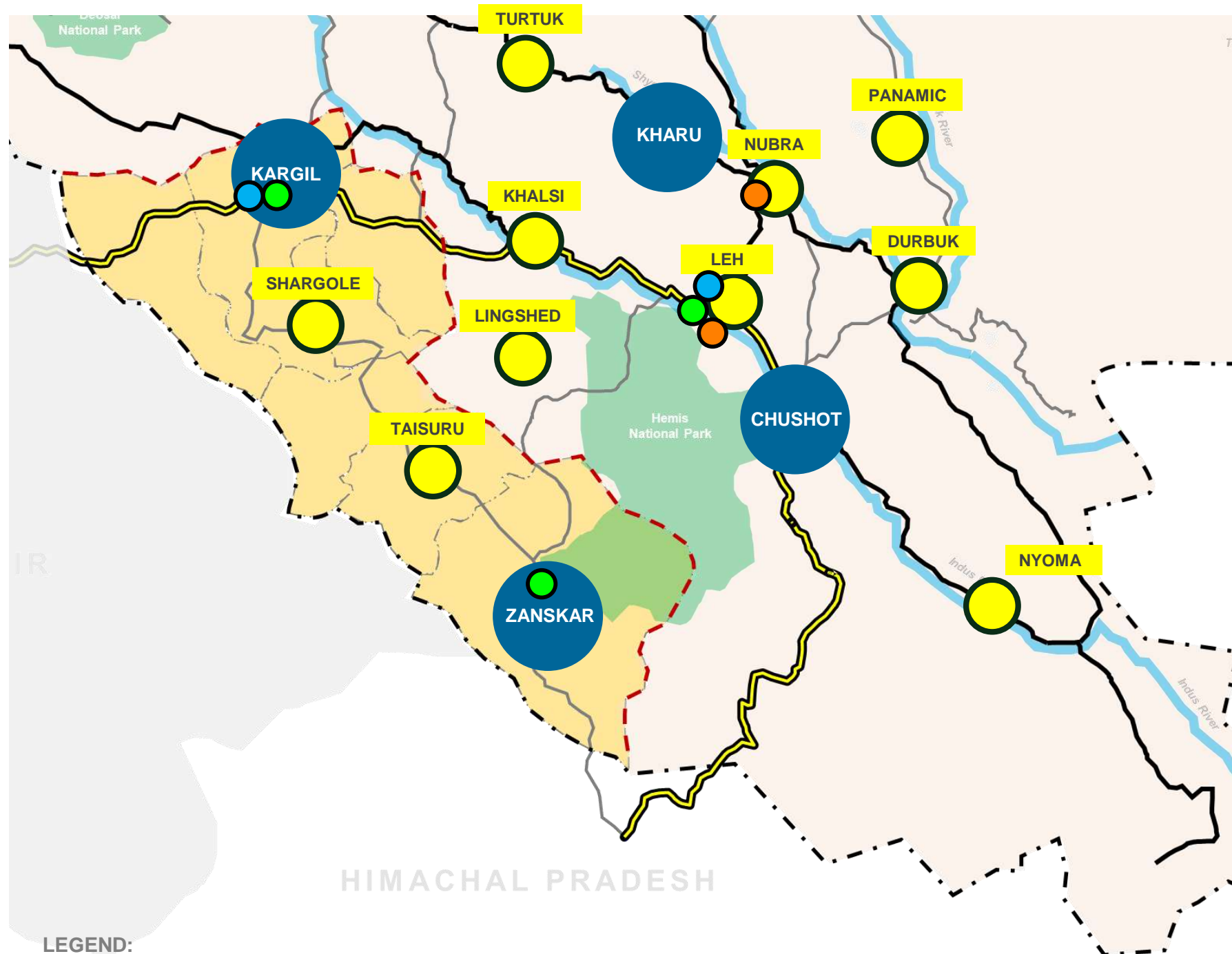
Pesticide: 0.073 kg/ha
National average: 0.26 kg/ha

Seabuckthorn:

Potential Area
for growth: 13,000 Hectares

Harvested Area: 5- 10%

Total Production: 581 MT



LEGEND:



These Hubs would act as market areas for provision of seeds and fertilizers at subsidized rates and warehouses for logistics movement from UT



These centres would enable establishment of FARM MARTS and post harvest treatment centres would be covered under marketing schemes such as e-NAAM



Greenhouse



Controlled Cultivation Nursery



Skill Development Centre

DEVELOPMENT STRATEGIES

1

Development of clusters to produce high value crops in bulk

2

Development of Model organic villages and model farm marts and integration with Hub and Spokes

3

Integration of Organic Farming with Markets, value chains, and trade

4

Branding and marketing of organic products of the District

5

Encourage army, Hotels and local commercial establishments to buy organic farm produce

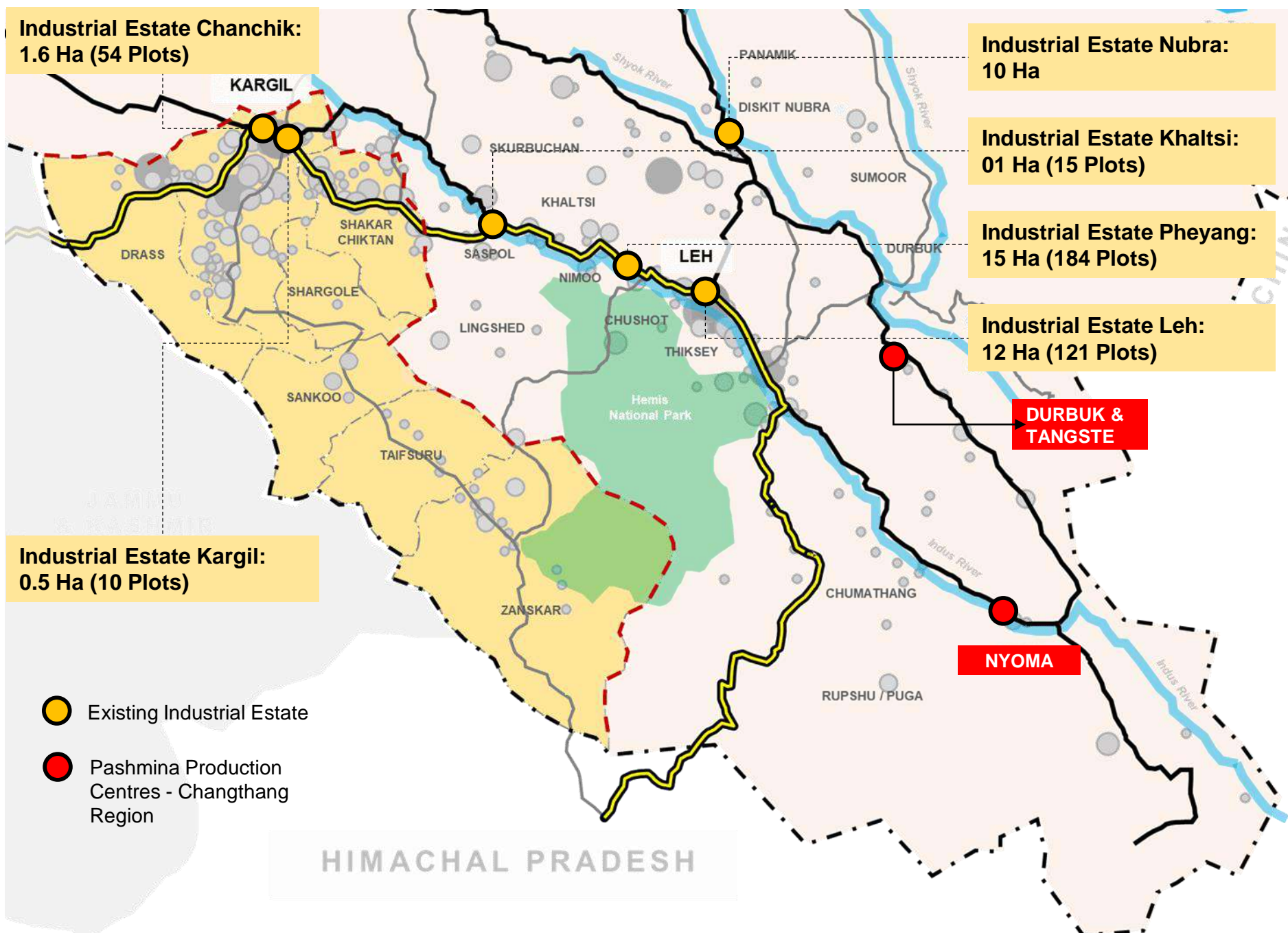


Industries and
Manufacturing

1.2



Industries and Manufacturing



95% Micro and Small Industries operated at Household Level

Out of 1270 total industrial units, small scale food processing are less than 50 and cater to domestic demand only

40-50 Ton of Pashmina wool produced per year in Ladakh, less than 1% of the global production per year

Handicrafts serves as the secondary revenue generator after agriculture and tourism

34 Handicraft Training Centres, but only 3000 trainees trained in last 5 years
(23 Centres in Leh District & 11 in Kargil District)

MICRO AND SMALL SCALE INDUSTRY



Handloom



Metal based



Handicrafts and Wood Work



Repairing & Servicing



Others

SHARE OF TOTAL NO. OF UNITS

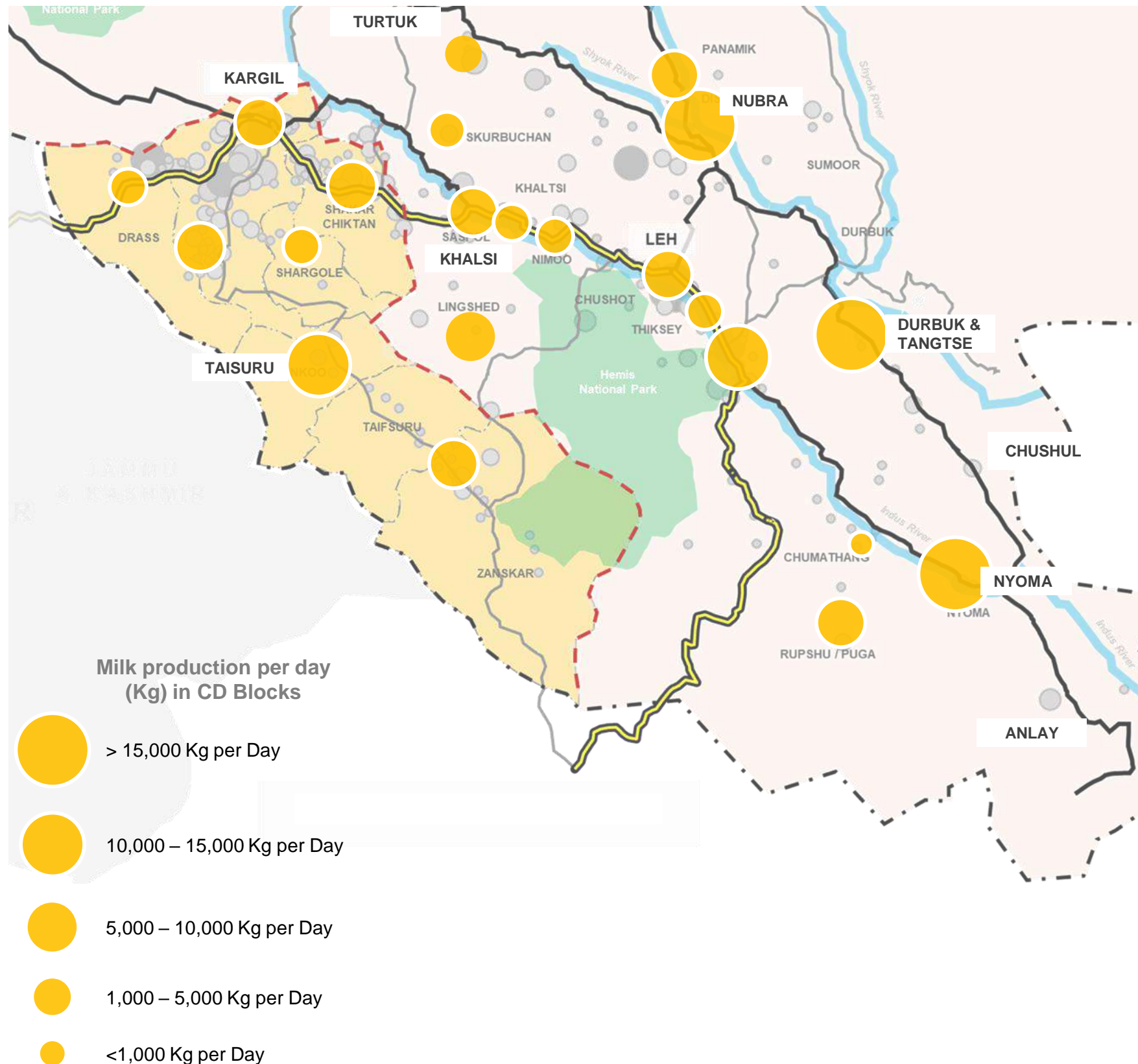
12%

19%

13%

14%

42%



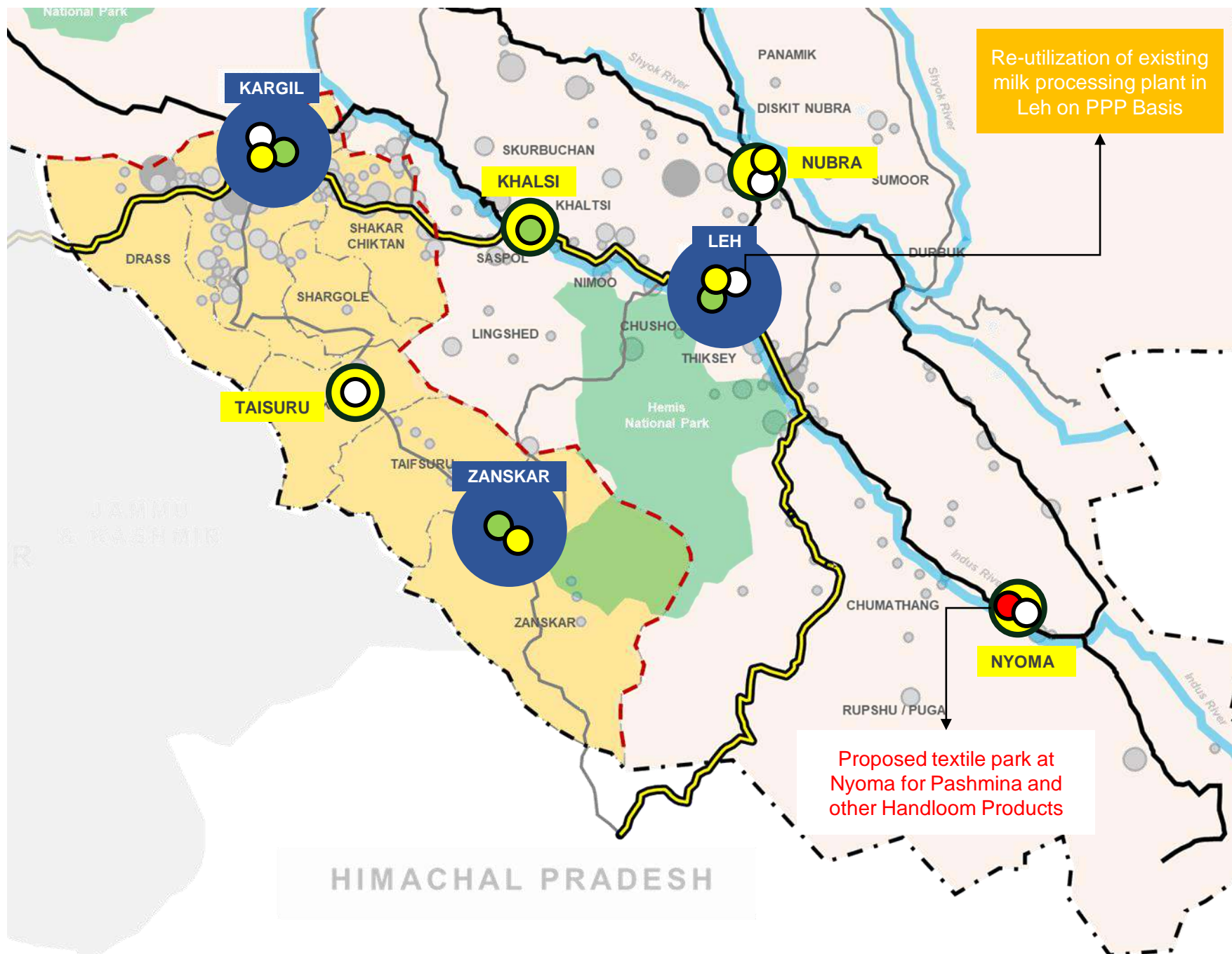
MILK AND DAIRY SECTOR

Availability of Milk in Ladakh = 2,38,000 Kg per day i.e. ~ 600 gms / capita / day (including army population in Ladakh)
(National average = 394 gms / capita / day)

Estimated INR 250 Crore+ industry but has not developed in an organised manner to utilize its full potential

~50% Surplus production of milk in Ladakh, with a potential to process / export and generate revenue

- Avg daily demand ~ 94,000 Kg
- Avg. daily availability ~ 2,38,000 Kg



DEVELOPMENT STRATEGIES

- 1| Framework for “Ease of Doing Business’ for attracting investment promotion
- 2| Creation and sustenance of SME clusters with common infrastructure
- 3| Support infrastructure (dedicated freight network, way-side amenities and warehousing)
- 4| Strengthening co-operative societies to support village level growth opportunities
- 5| Quality standardization with international QC organizations
- 6| Trademark to support branding and marketing of finished products
- 7| Investment attraction through marketing and promotion in domestic and international markets
- 8| Adoption of technology centric breeding and rearing of animals for milk and wool
- 9| Capacity building of producers in animal health care, maximizing yield and quality control

Tourism

1.3





Tourist attractions in Ladakh

- Major Tourist Destinations
- ▲ Monasteries & Heritage Sites
- ◆ Mosques

Tourism contributes ~50% to the GDP of Ladakh

Tourist inflow doubled ~ 2 - 4 Lakh in last 5 Years (CAGR = 15%)

Average stay duration per tourist ~7-10 Days

87% Domestic tourists in 2018-19

88% of the tourist accommodation facilities in Leh District

Tourist season restricted to summer season (4-5 months)

Absence of regulatory and monitoring framework

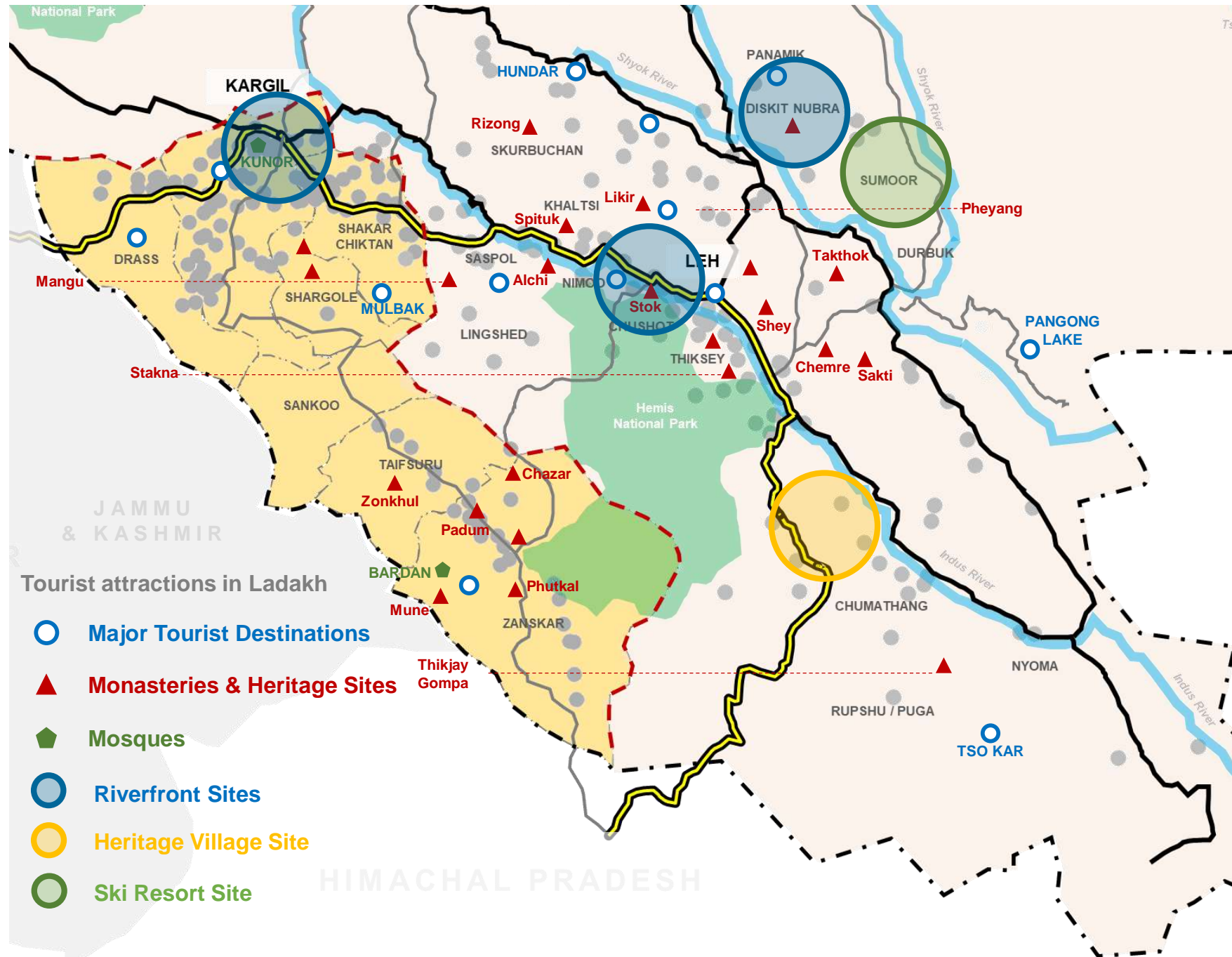
Insufficient infrastructure for safety and tracking of tourists

Limited Branding and Media Reach



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All Weather Tourism



Diversification through theme based development:



Eco
Tourism



Agro / Organic
Tourism



Winter
Tourism



Adventure
Tourism



Pilgrimage
Tourism



Cultural &
Heritage
Tourism



Film
Tourism

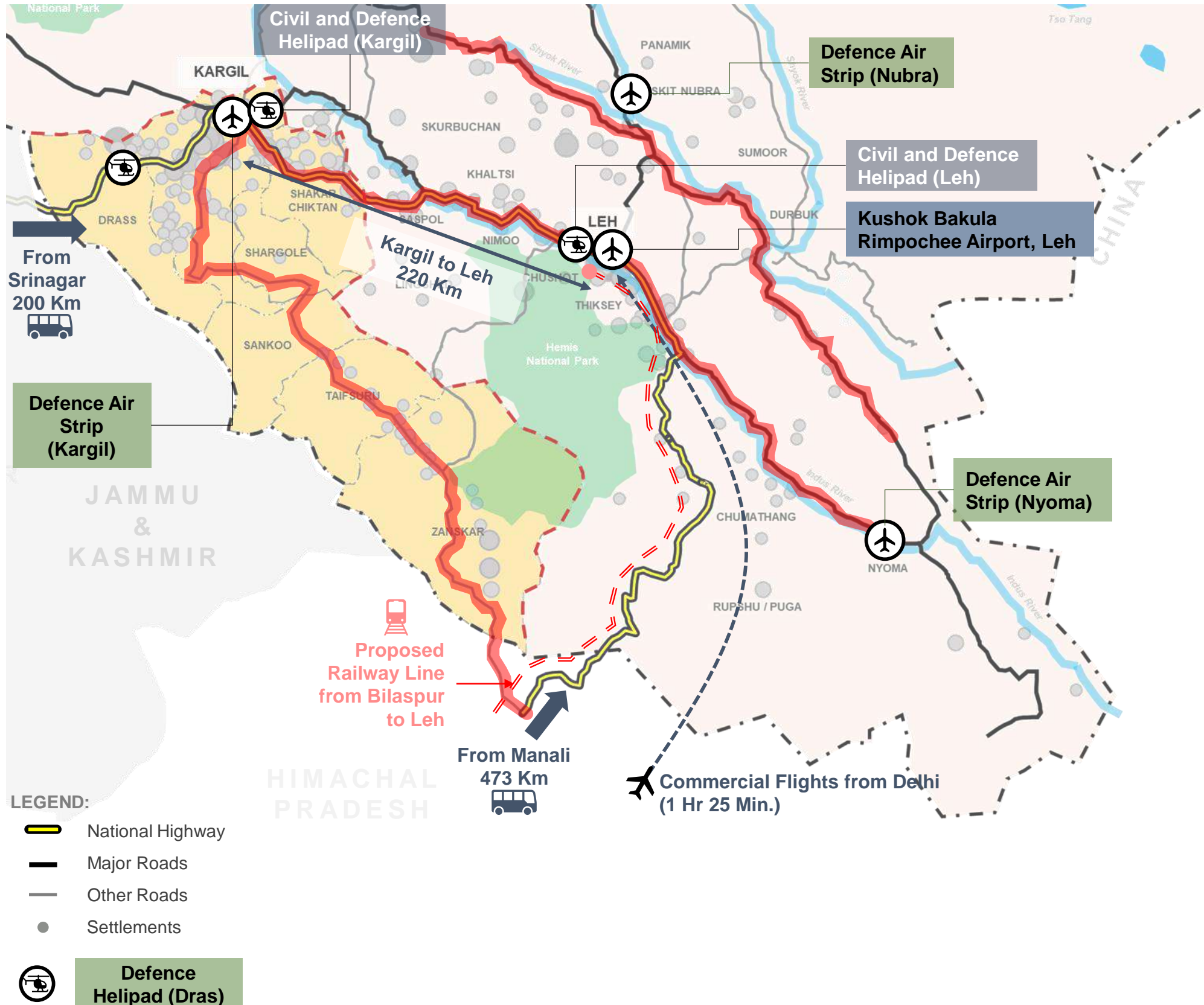
DEVELOPMENT STRATEGIES

- 1 To provide safe, secure and unique "All Weather Tourism"
- 2 To create an enabling environment for investments for sustainable tourism
- 3 To promote Tourism Diversification through theme based development
- 4 To build capacity and develop quality human resources through skill development and cooperatives
- 5 To ensure that sustainable tourism primarily benefits host communities



Connectivity and Transport

2



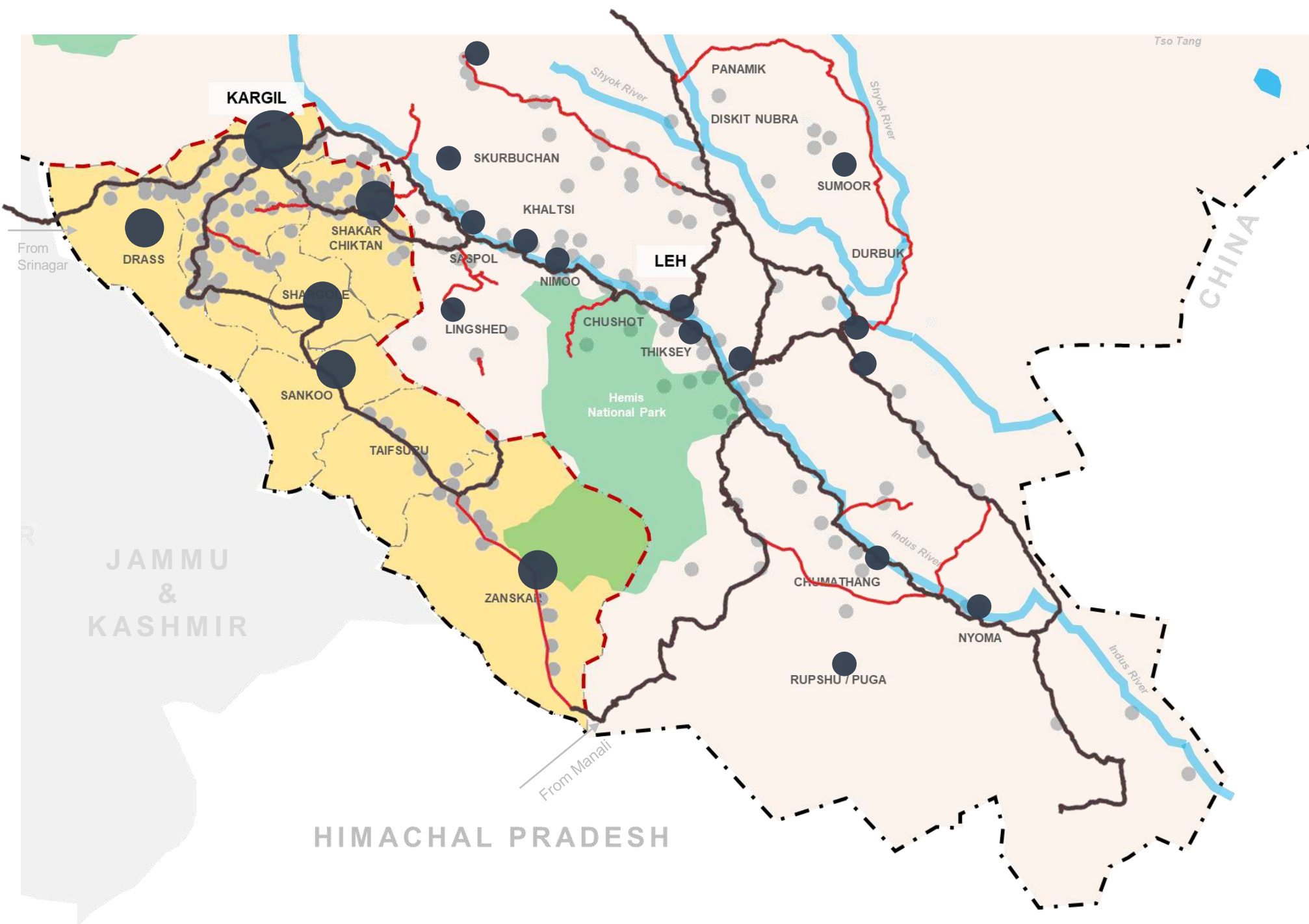
Only 2 roads connecting Ladakh to rest of India, with limited access during winter season

Minimal inter-state and inter-city public transport by road

Only 1 Airport operating limited Commercial Flights

Proposed Railway Line from Bilaspur to Leh

Proposed Heli Services from Leh and Kargil to remote locations



LEGEND:

- Major Access road (Surfaced)
- Major Access road (Unsurfaced)
- Settlements

Length of Unsurfaced Roads in CD Blocks

- 0 – 50 Km
- 50 – 100 Km
- > 100 Km

~4300 Km of Road Length
(39% under PWD & 61%
under BRO)

54% villages
(25% population) do not have
access to 'Pucca Roads'

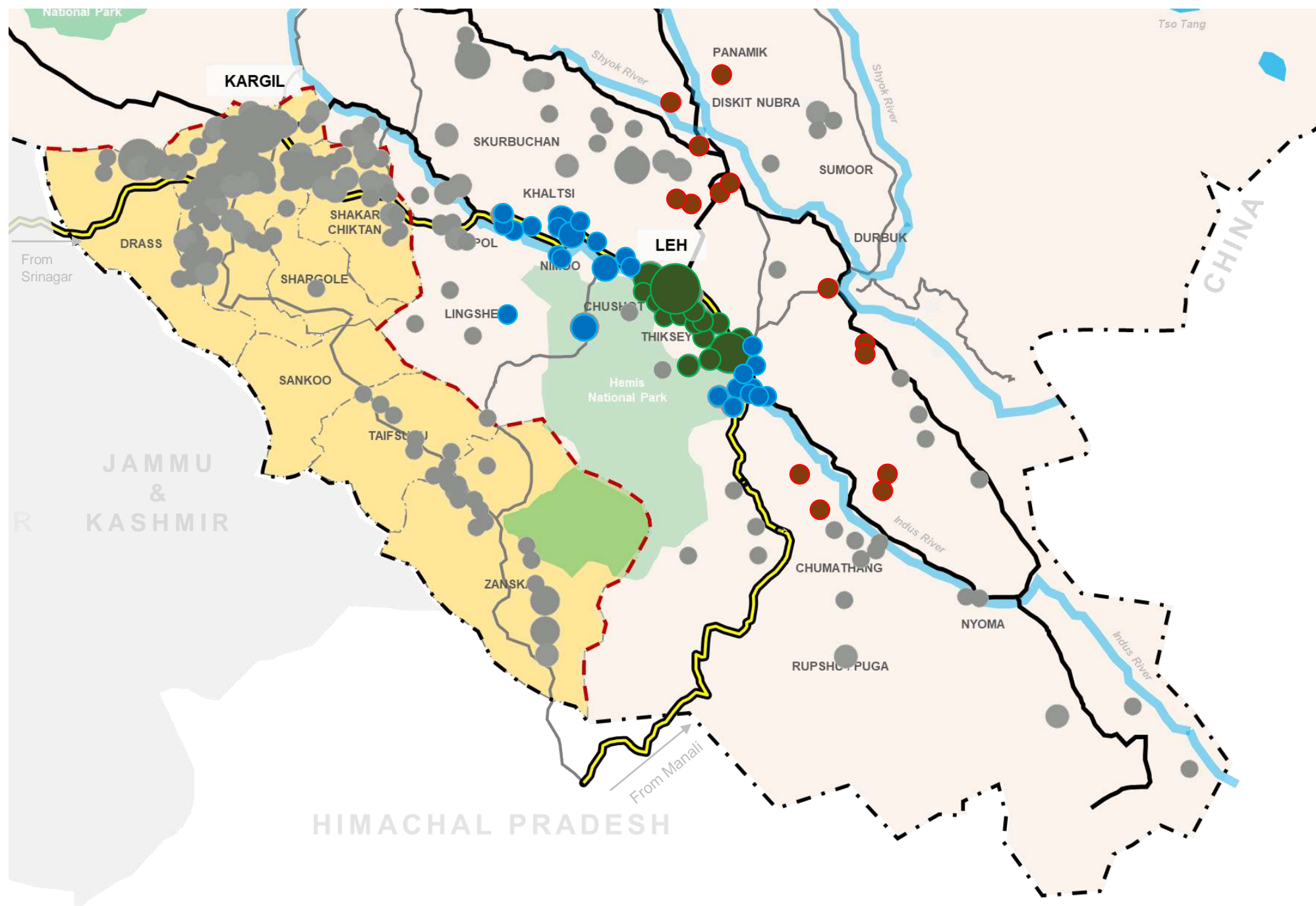
Majority of roads with
intermediate / 2 lane
configuration (6-10 mt.)

Lack of road side
infrastructure for convenience
of road users



Ladakh
Now

Public Transport



LEGEND:

Public Transport Frequency		National Highway
●	5-60 Mins	— Major Roads
●	Once Daily	— Other Roads
●	Once Weekly	● Settlements

Limited public transport services through SRTC and cooperatives

54% villages in Leh do not have access to regular bus service

Availability of Buses per 1000 Population = 1.61

100% overaged buses (more than 10 Years of age) with BS-III technology

Only 2.2% share of Buses in total registered vehicles

Lack of public transport infrastructure – terminals, depots, stop/shelters and other passenger and staff facilities



Ladakh
Next

Connectivity by all weather roads by 2030 Green & Sustainable Public Transport



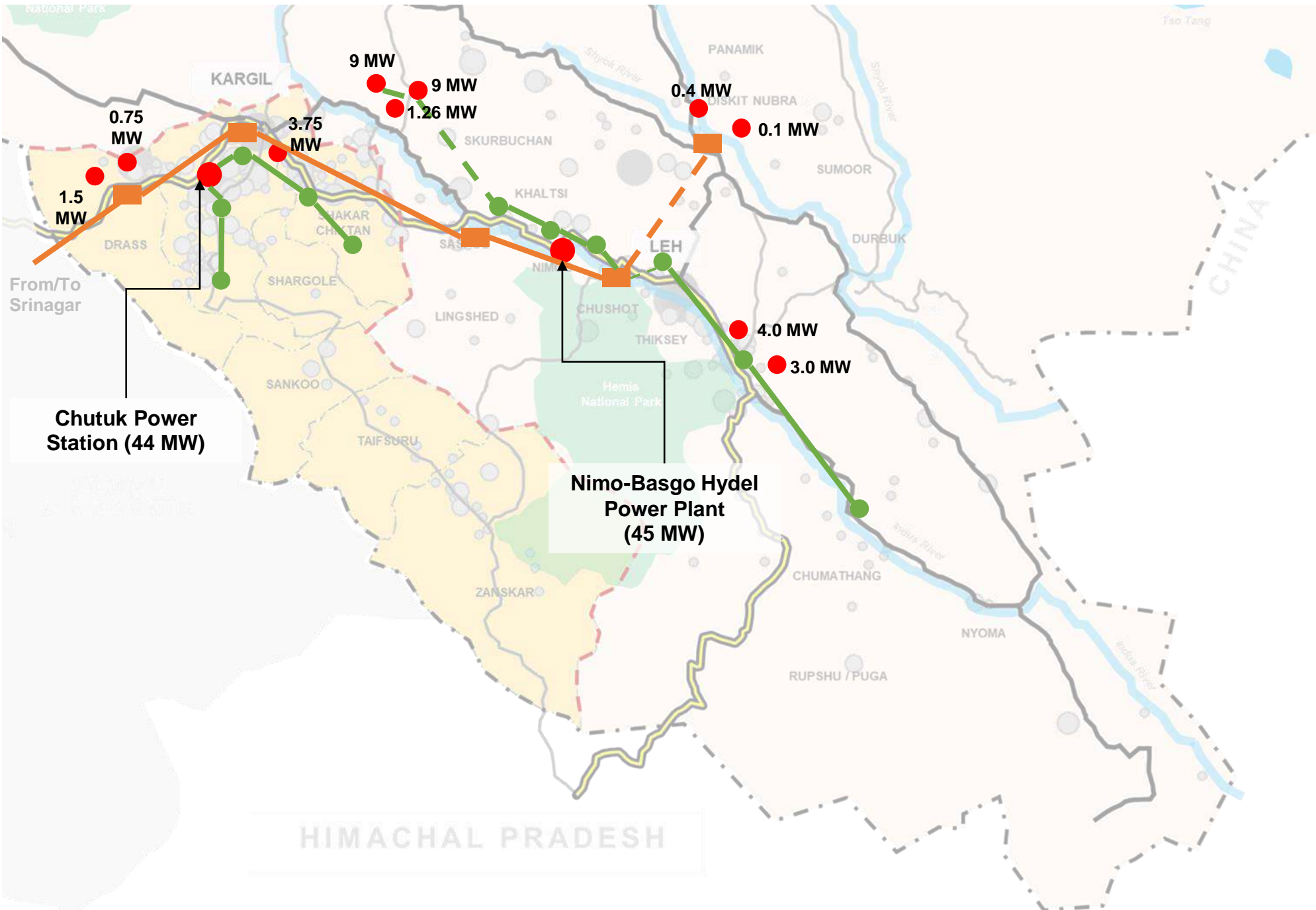
DEVELOPMENT STRATEGIES

- 1| Connecting all settlements with all weather roads
- 2| Upgradation in capacities of regional road network
- 3| Connectivity by Bus Transport System to Economic & Social Growth Centres
- 4| Transition to Green fuels: Electric and LNG for carbon neutrality
- 5| Development of allied infrastructure
- 6| SMART technologies for operation, management and monitoring
- 7| Digital payment mechanism for public transport

3

Power and
Energy





LEGEND:

- | | | | |
|---------------------------------------|-------------------------|---------------------------------------|------------------|
| ● | Power Generation Source | — | 220 kV Network |
| ■ | Grid Sub-Station | — | 66 kV Network |
| ● | 66 kV Sub-Station | — | Existing Network |
| | | --- | Proposed Network |

90% Household Electrification in Ladakh

~140 MW Installed Generation Capacity

19% Diesel Power

- 72% Hydel Power
- 19% Diesel Power
- 9% Solar + Hydro Mix

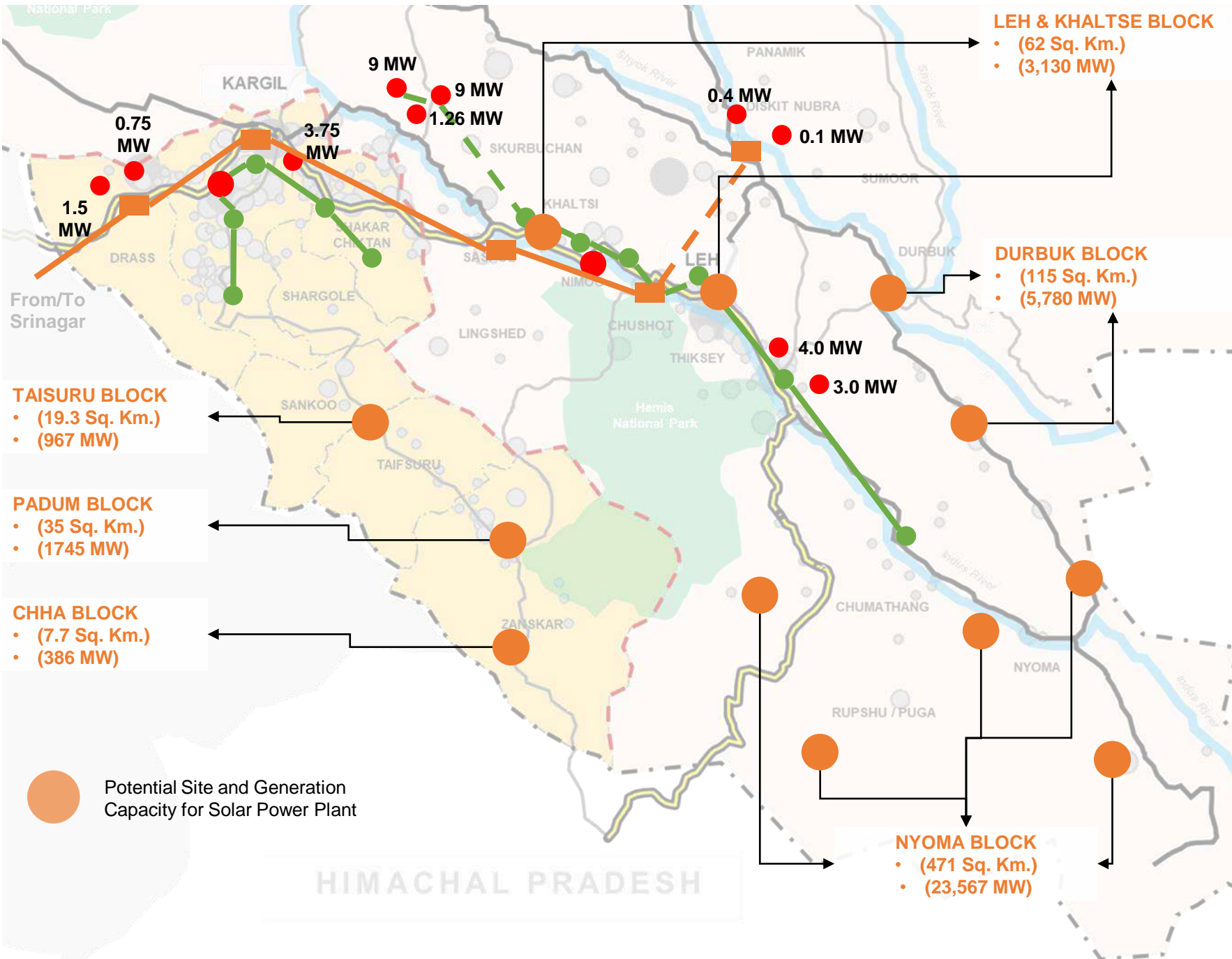
Only 74% utilization of Installed Capacity (i.e. 105 MW)

~ 25% Transmission & Distribution Losses

~ 64% Energy Deficit in Winter

- Demand: ~50 MW
- Supply: ~18 MW

~15 Hours of power supply per day



DEVELOPMENT STRATEGIES

- 1| Harnessing the potential of other renewable energy sources (wind and geothermal power) available
 - Solar Potential = 35 GW
 - Wind Potential = 4 GW
- 2| System planning for transmission and evacuation infrastructure to support potential growth in installed capacity
- 3| SMART Grid with Smart Metering for efficient demand side management and reduction in T&D losses
- 4| Micro Grids for power supply to remote areas not connected to main grid

35 GW of
Solar
Potential

- 32 GW in Leh (91%)
- 3 GW in Kargil (9%)

Only state
with 100%
clean energy

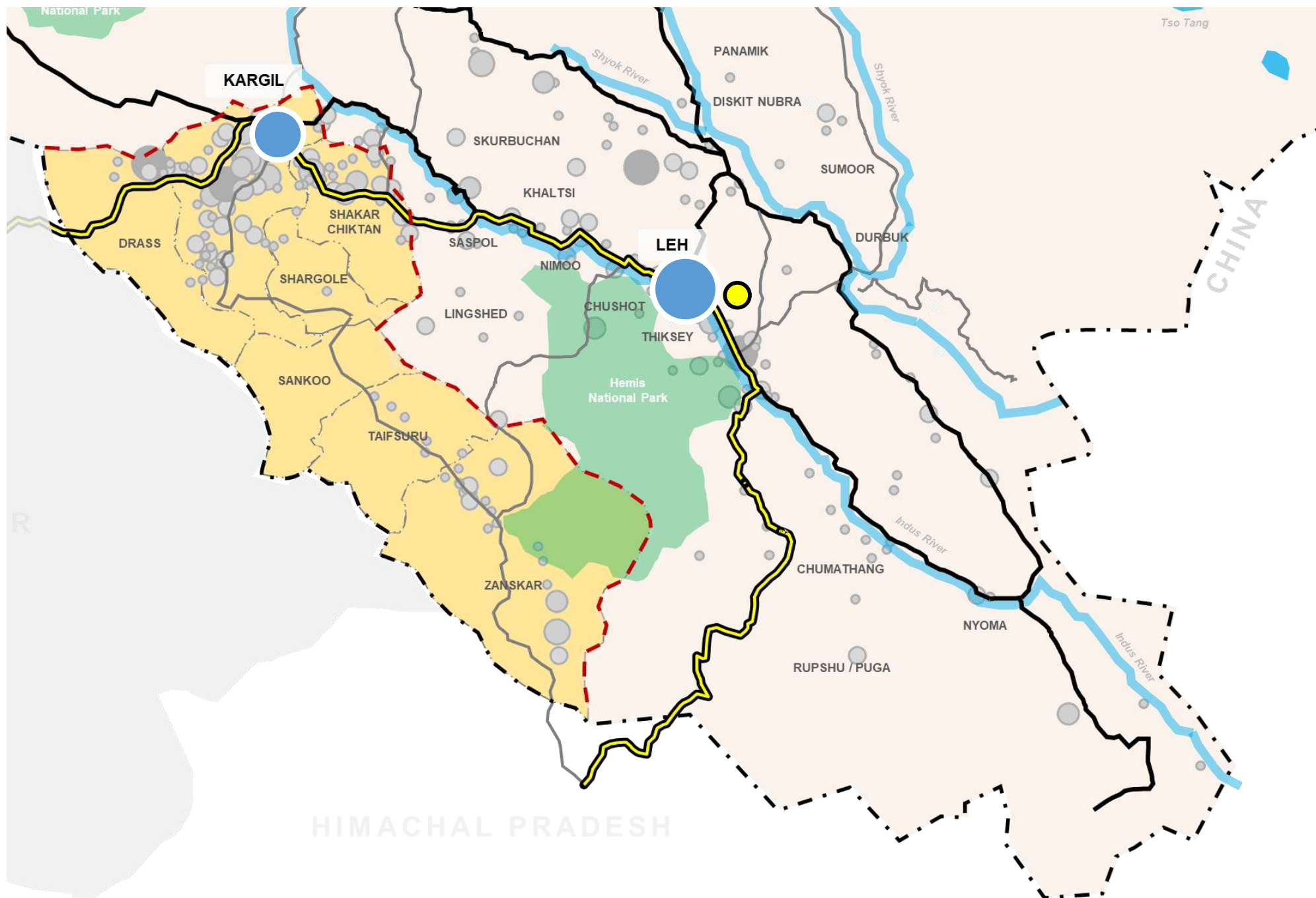
Potential to become
**1st ever state in
India** running on
100% clean energy

Major source
of revenue
generation
for UT



4

Water Supply and Waste Water Management



96% Households without Functional Tap Water Connection

~38% Water Supply Deficit

- Demand: 63 Lakh Gallons/Day
- Supply: 39 Lakh Gallons/Day

Only 1 Faecal Sludge Treatment Plant (FSTP) in Ladakh for the city of Leh

More than 75% of the households are dependent upon on- site sanitation facilities
(Septic Tanks, Pit latrines, etc.)

WATER SUPPLY

1269 Households with FHTC in Leh City, out of 15,973 Households

168 Households with FHTC in Kargil City, out of 17992 Households

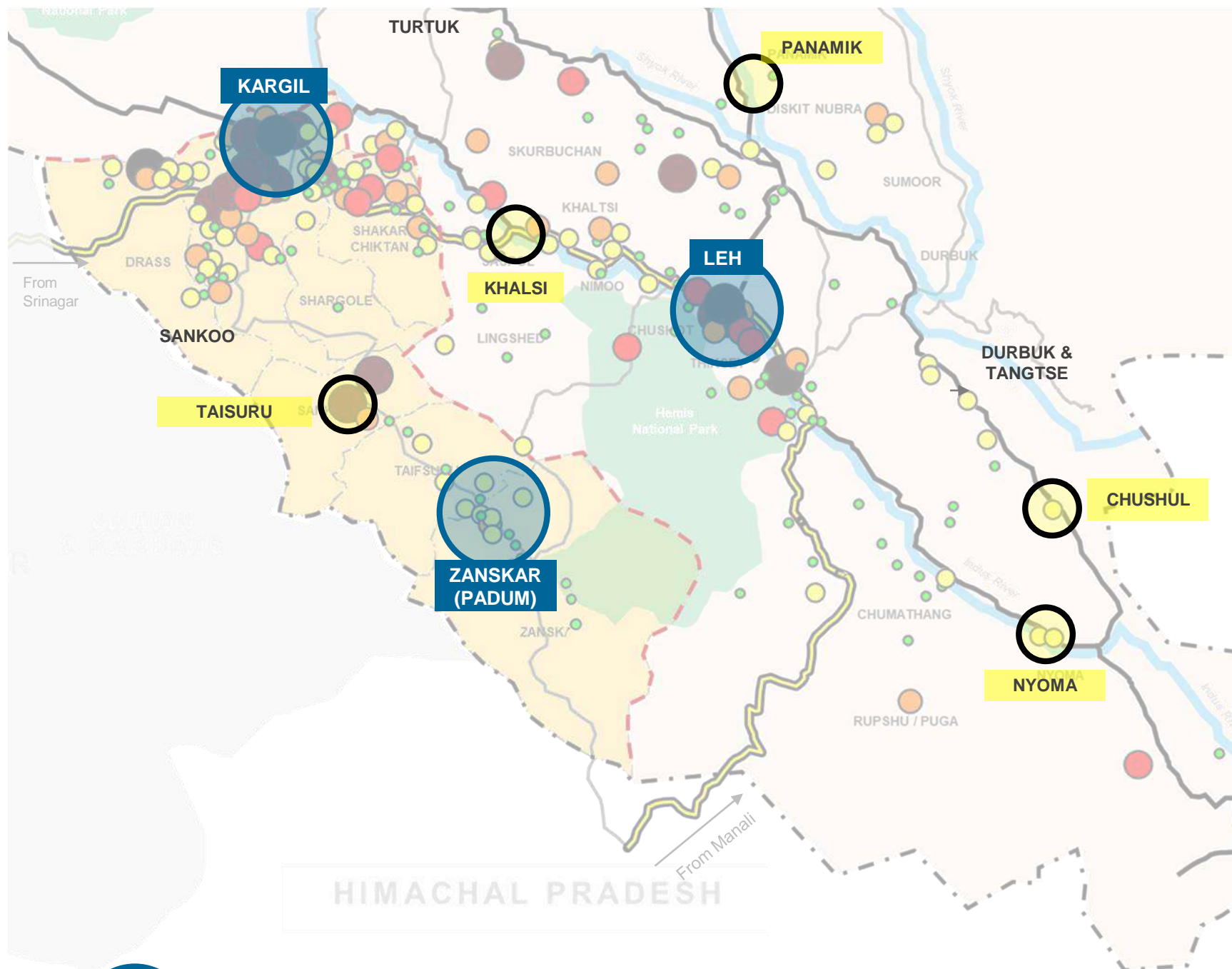
WASTE WATER

Partial Network of piped sewerage system in Leh City

No network of piped sewerage system in Kargil City

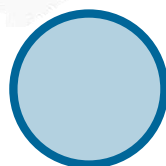
1 Faecal Sludge Treatment Plant (FSTP) at Leh

*FHTC – Functional Household Tap Water Connection



DEVELOPMENT STRATEGIES

- 1| Large scale harvesting and storing of winter water which can be used during peak demand in summers
- 2| State Level accredited water testing laboratories for water quality testing
- 3| Functional Household Tap Connections for water supply for every household under Jal Jeevan Mission
- 4| Technological interventions to provide piped water supply at sub-zero temperature during winter season
- 5| Decentralised Faecal Sludge and Septage Management for waste water treatment (1 FSTP for a cluster of 20,000 Population)



These centres would act as treatment centres and provide concentrated urban utilities to various spokes

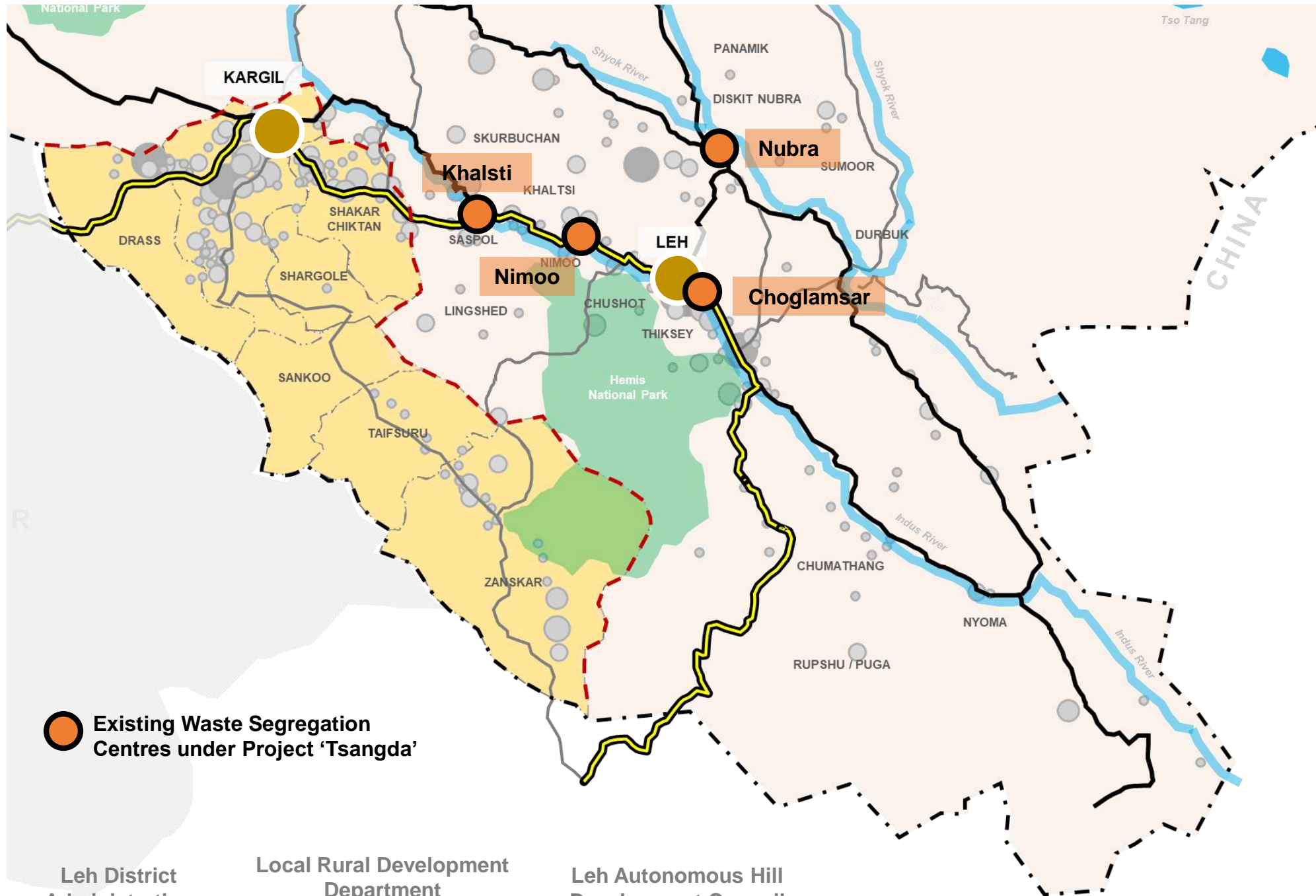


These centres would act as collection centres with storage and small scale treatment facilities which would also supplement the urban utility centres



5

Solid Waste
Management



~96 Ton of Solid Waste generated per Day

Nearly 0.35 Kg waste generated per capita per day

Waste generation sources – Household, commercial establishments, hospitality sector, medical institutes, construction sites and street sweeping

Inefficient collection, transport, storage and disposal

No source segregation of waste

Unorganised secondary storage of solid waste on roadside

Manual handling of solid waste

Lack of waste treatment facilities

No engineered sanitary landfill site

Industrial waste is managed by the individual industry itself and there is no Effluent Treatment Plant (ETP)

Existing Waste Segregation Centres under Project 'Tsangda'

Leh District Administration

Local Rural Development Department

Leh Autonomous Hill Development Council

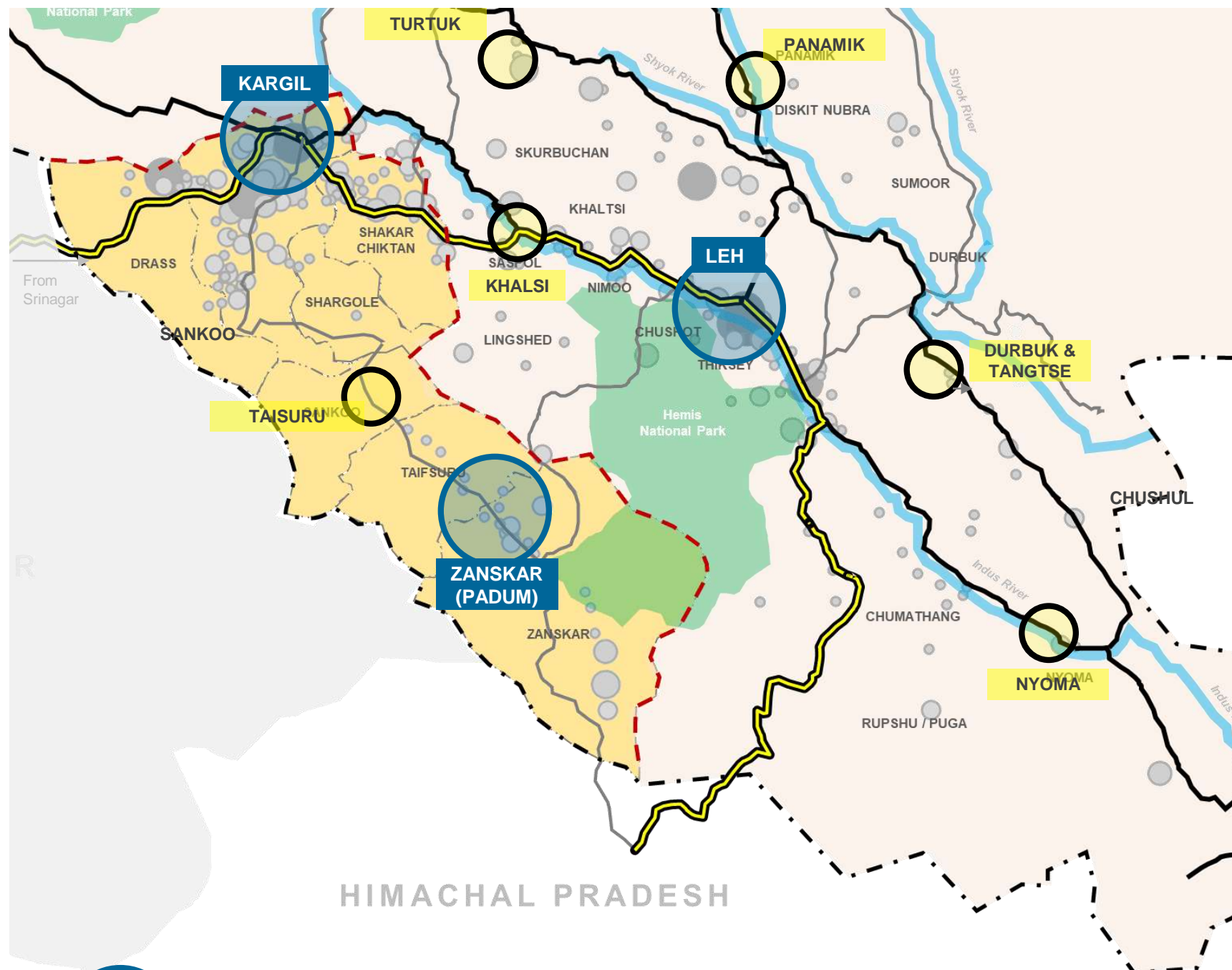
Project "Tsangda"


Dry Waste at Household / Commercial Level


Daily Collection from Households


Segregation Centres

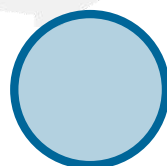

Dry Waste is segregated into 20-22 categories for further recycling & reuse



HIMACHAL PRADESH

DEVELOPMENT STRATEGIES

- 1 | Sustainable Integrated Solid Waste Management System in Urban Areas
- 2 | Development of plants for efficient treatment and disposal of waste
- 3 | Project "Tsangda" in rural areas for solid waste management
- 4 | Policy & regulation, awareness & enforcement and management of plastic waste at Tourist locations
- 5 | Intelligent Solid Waste Management for efficient waste management and monitoring



Intelligent solid waste management system, treatment plants, and institutional system to define operation procedures, policies and guidelines for monitoring and management of solid waste

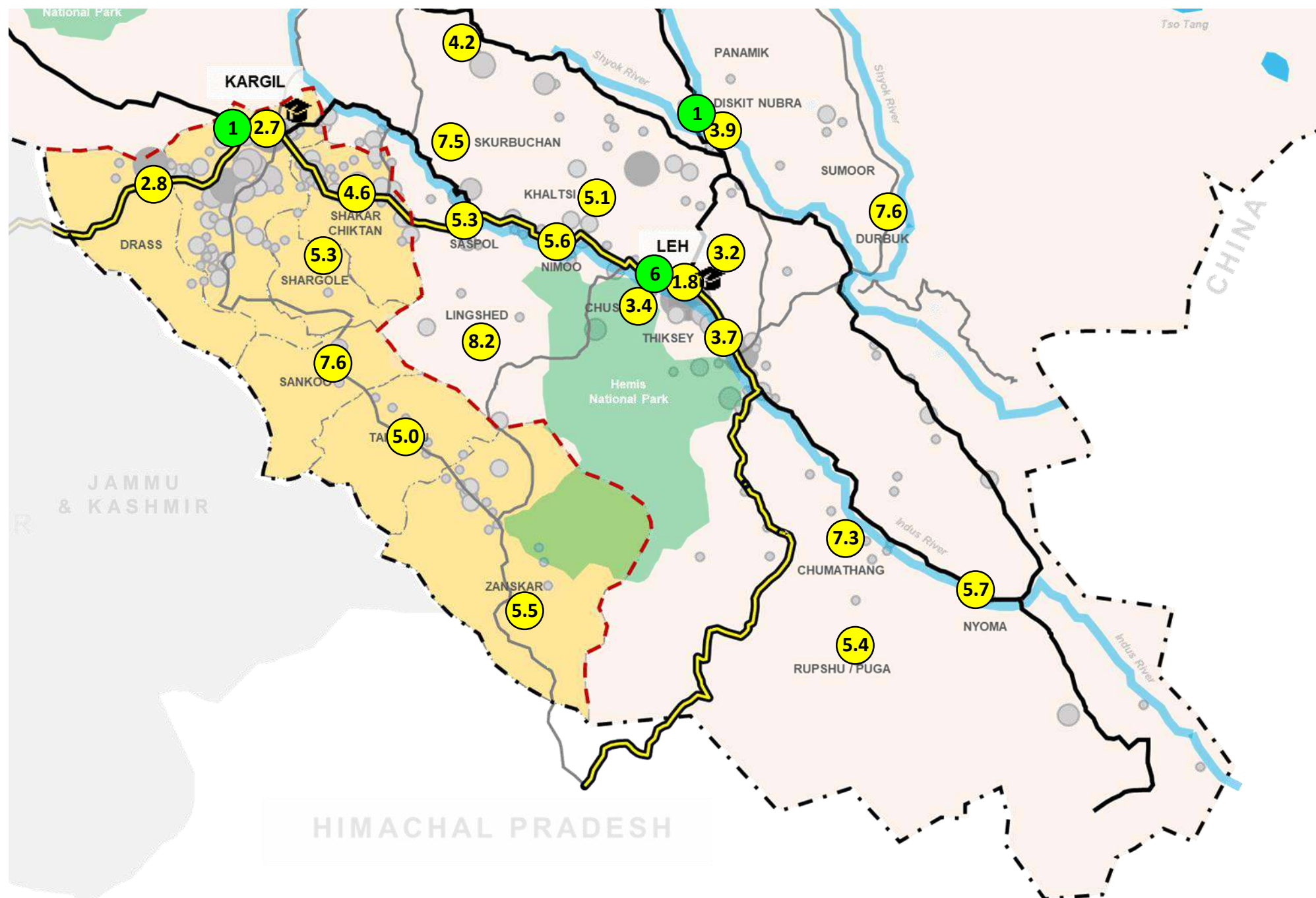


Collection centres, composting plants, distribution system to nearest waste management plant



Education & Skill Development

6



LEGEND:

- Number of Colleges
- Schools per 1000 Population
- Industrial Training Institute

Literacy rate in Ladakh

Leh : 77.2 %

Kargil : 71.1 %

Initiatives such as 'Student Educational and Cultural Movement of Ladakh' and operation 'New Hope'




Limited access to digital education in schools

Challenges of physical facilities in government schools

Only two Industrial Training Institute



LEGEND:

-  Existing Industrial Estates
-  Proposed Industrial Training Institute
-  Proposed COEs, Research Institutes and Colleges

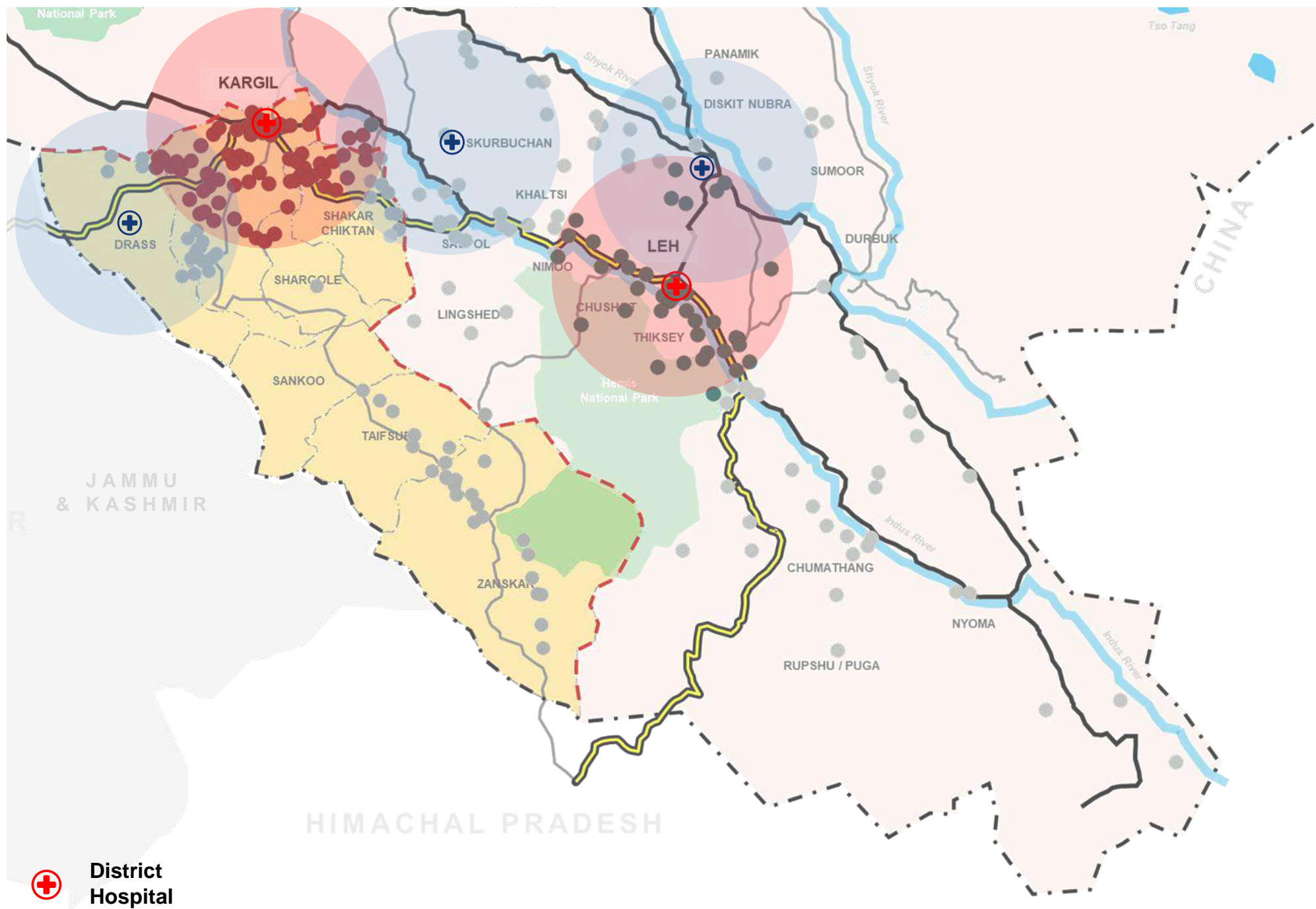
DEVELOPMENT STRATEGIES





- 1 | Development of an active learning environment through SMART and digital educational platforms
- 2 | Development of higher Education paradigm by introduction of career focused institutions, Mentor model - Research Centres
- 3 | Participation of private sector in Vocational Education and Industrial Training for Employability
- 4 | Incentivising institutes to make 'Teaching' as a Secure and Attractive Career choice



7

Good Health &
Wellbeing



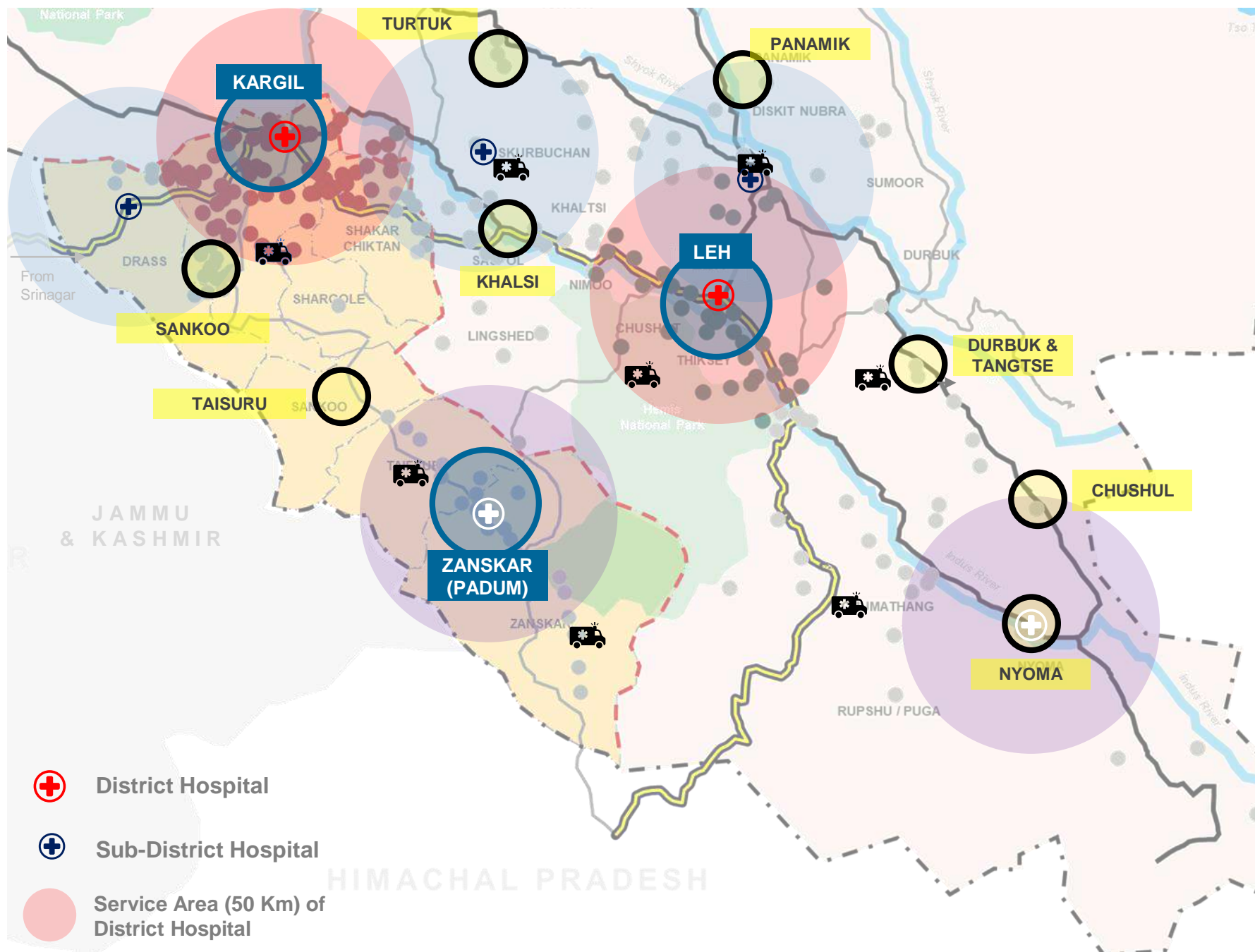
-  District Hospital
-  Sub-District Hospital
-  Service Area (50 Km) of District Hospital
-  Service Area (50 Km) of Sub-District Hospital

District Hospital = 02
Sub-District Hospital = 03
PHCs = 57
FW Centres = 270
Bed Strength = 811

20% population having
difficult access to District /
Sub-District Hospitals

Doctor Population ratio of
1:1973 against the
recommended 1:1000 by
WHO

Lack of digital infrastructure
in terms of connectivity
among PHC's, sub-district
and district hospitals



SECTOR POTENTIAL / GROWTH OPPORTUNITY



Digital Transformation
of Healthcare



Enhanced proximity
of Health facilities

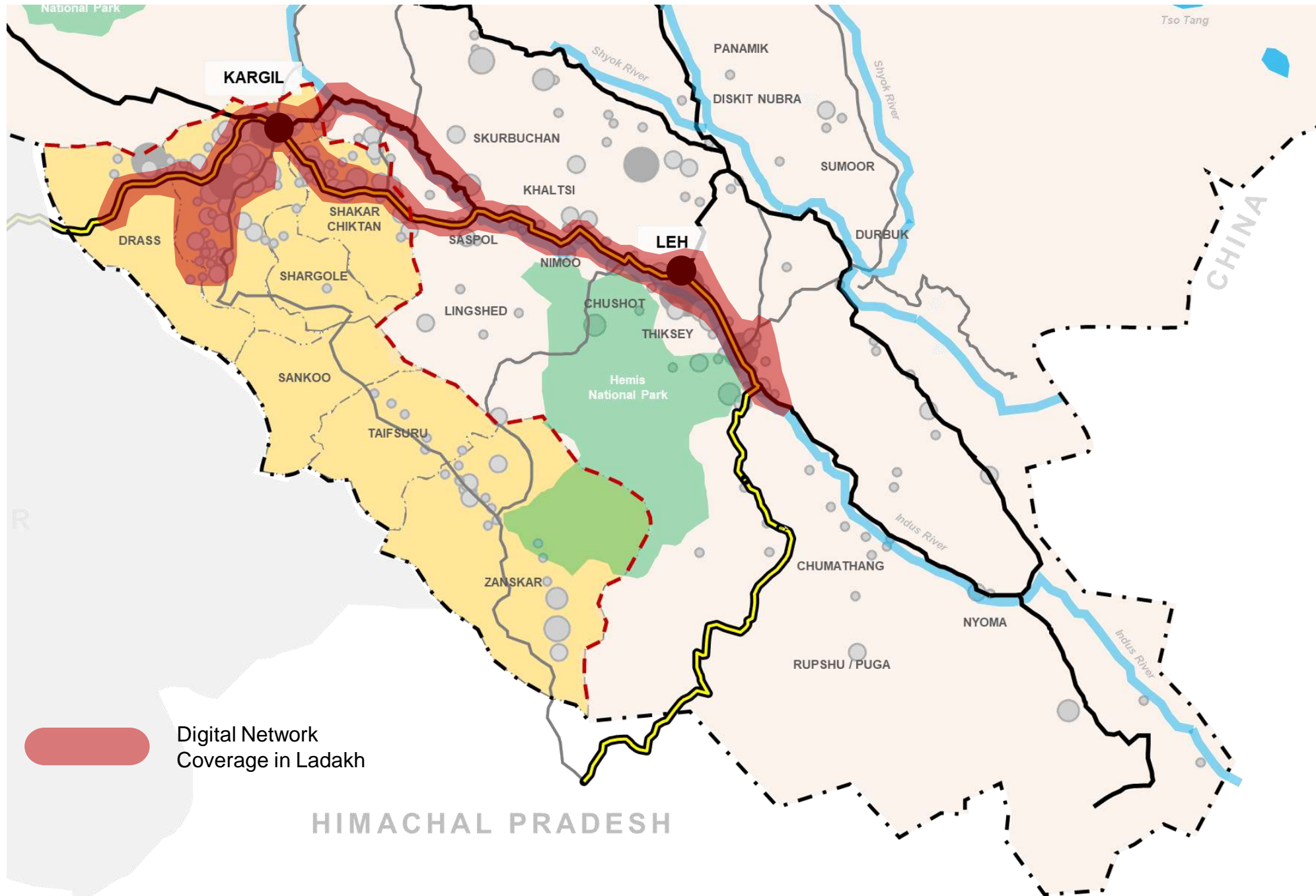
DEVELOPMENT STRATEGIES

- 1| Expanding the medical resource base in the region
- 2| Door-step medical services to remote population
- 3| Providing high level healthcare facilities within one hour of reach
- 4| Creating digital connectivity in healthcare to promote social distancing
- 5| Developing advanced healthcare infrastructure with best quality services



8

Information Technology
and Digital Infrastructure



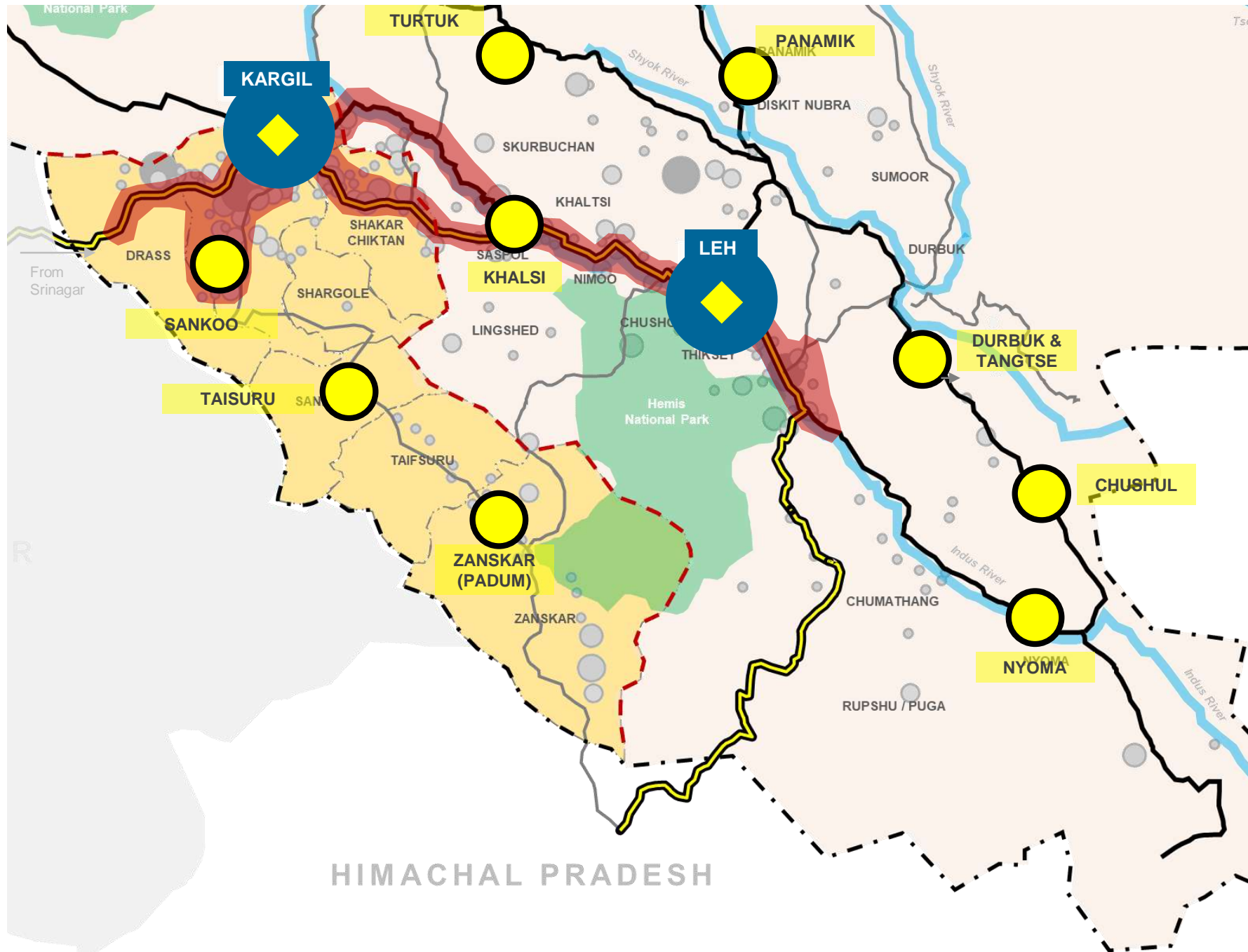
115 villages (47%) out of 243 without any data connectivity

National Optical Fibre Network (NOFN) in Ladakh is V-SAT based, with 165 sites installed with V-SAT out of 172 targeted

‘Mobi-density’ in Ladakh = 121%
(i.e. 121 mobile phones per 100 population)

LEGEND

- National Highway
- Major Roads
- Other Roads
- Settlements



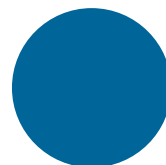
LEGEND



Digital Network Coverage in Ladakh



District Command and Control Centres



Integrated Command and Control centre with Traffic and Transport Management, SMART grid, SMART urban utilities, agriculture and tourism



Citizen Service Centres, sub-nodal centres for providing services to surrounding inaccessible areas and infrastructure requirements

DEVELOPMENT STRATEGIES

- 1| Establishment of IT Connectivity throughout Ladakh
- 2| Integrated Command and Control Centre at UT and District Level
- 3| Digitalization of Govt Depts like Health, Education, Transport etc.
- 4| Implementation of all ICT Citizen Services

The background is a composite of two photographs. The top photograph shows a rugged, arid mountain range with steep, rocky slopes and patches of snow or light-colored rock. The bottom photograph shows a wide, flat landscape, likely a salt flat or a dry lake bed, with a group of people standing in the distance. The sky is a pale, hazy blue. The entire image is overlaid with several semi-transparent geometric shapes: a large blue triangle on the left side, a smaller blue triangle at the top left, and a large, light blue triangle on the right side. The text 'Ladakh in 2050' is positioned in the bottom right corner, overlaid on the light blue triangle.

Ladakh in 2050

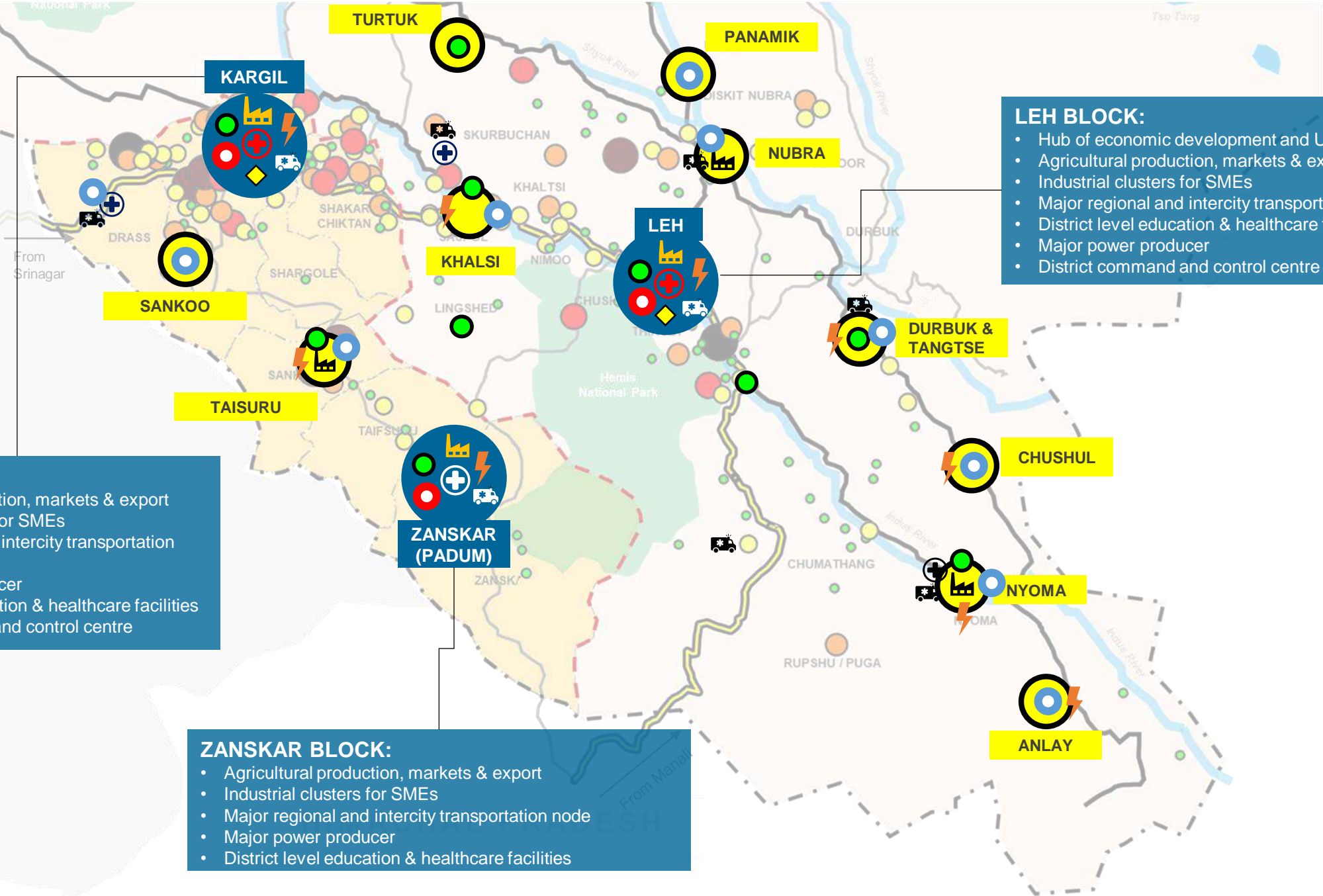


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Ladakh's Outlook in 2050



- Agricultural Clusters
- Industrial Clusters
- Transportation Nodes
- Power Hubs
- Medical Zones
- Mobile Medical Units
- District Command Control Centre



KARGIL BLOCK:

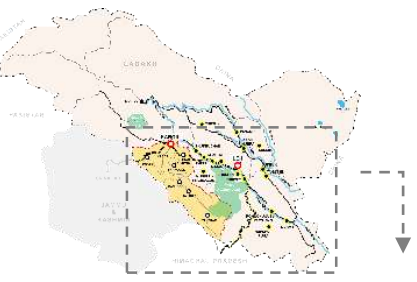
- Agricultural production, markets & export
- Industrial clusters for SMEs
- Major regional and intercity transportation node
- Major power producer
- District level education & healthcare facilities
- District command and control centre

LEH BLOCK:

- Hub of economic development and UT administration
- Agricultural production, markets & export
- Industrial clusters for SMEs
- Major regional and intercity transportation node
- District level education & healthcare facilities
- Major power producer
- District command and control centre

ZANSKAR BLOCK:

- Agricultural production, markets & export
- Industrial clusters for SMEs
- Major regional and intercity transportation node
- Major power producer
- District level education & healthcare facilities

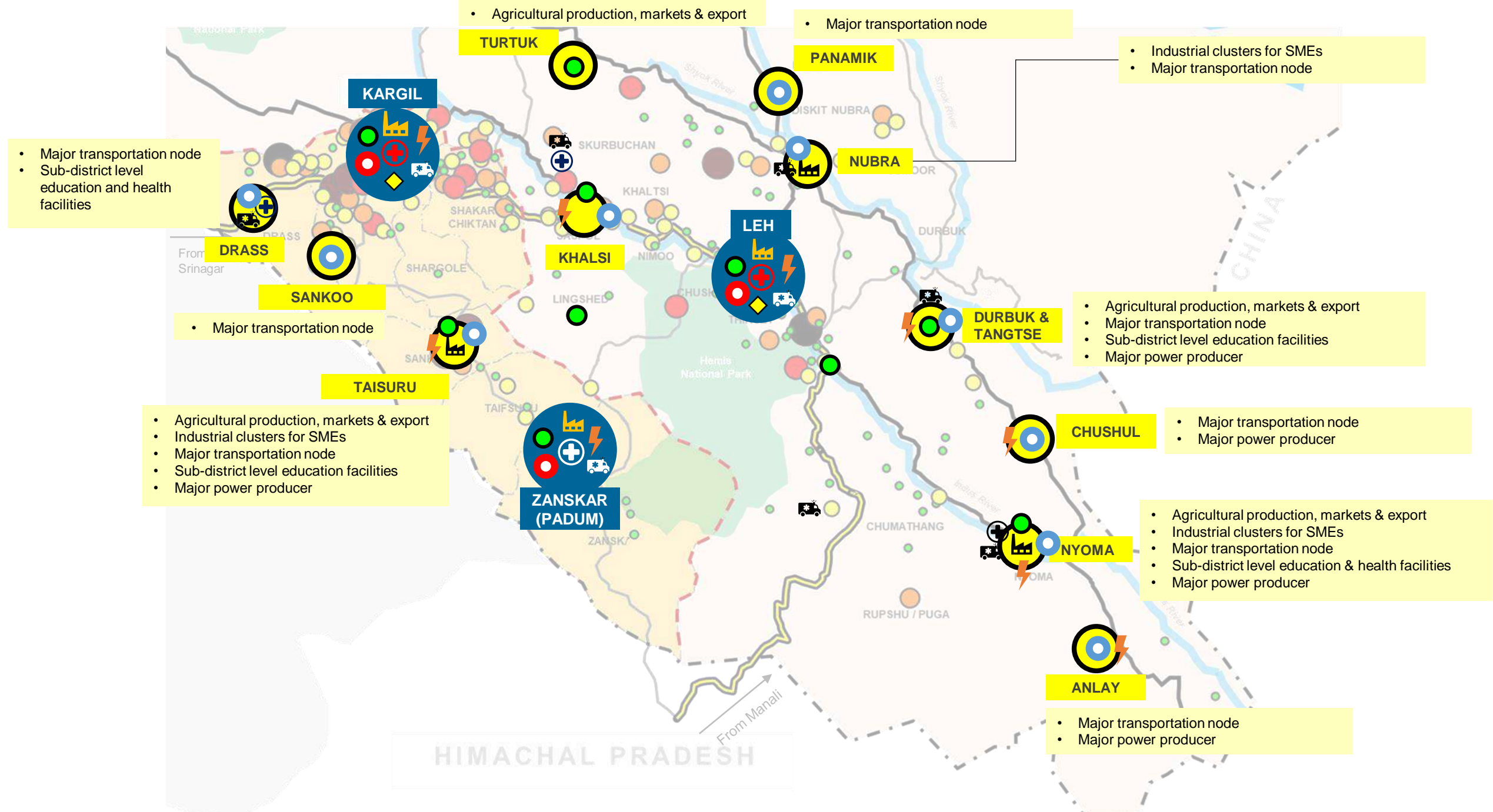


Ladakh
Next

Ladakh's Outlook in 2050



- Agricultural Clusters
- Industrial Clusters
- Transportation Nodes
- Power Hubs
- Medical Zones
- Mobile Medical Units
- District Command Control Centre



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