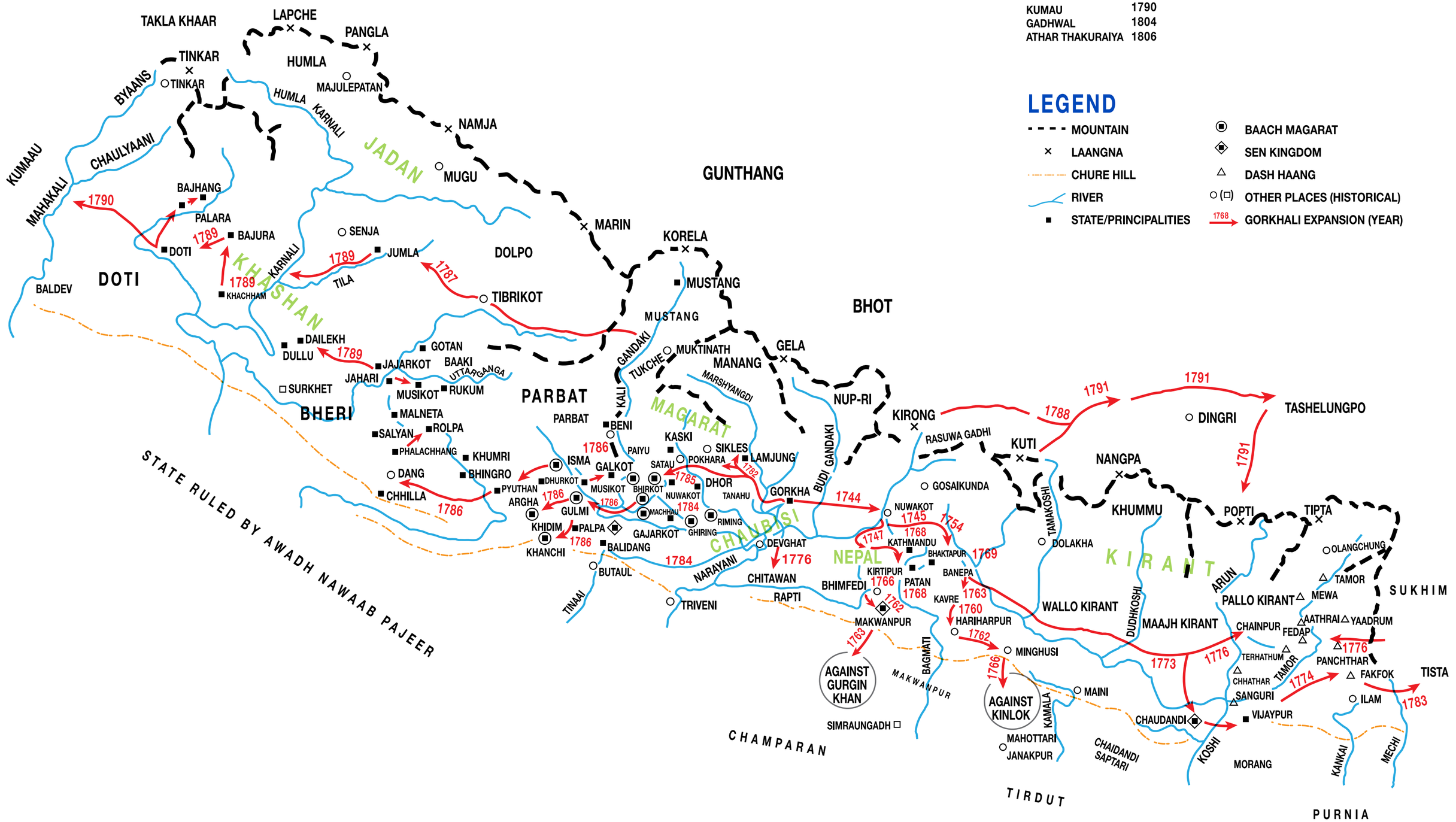
Nepal

DEVELOPMENT Atlas

Socio-Economic Development

Nepal in Data

2019



18TH CENTURY MAP OF NEPAL

SOURCE: PANCHAYAT SMARIKA

NEPAL

DEVELOPMENT Atlas

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FOREWORD

The advancement of Geographic Information System (GIS) has brought significant changes when it comes to capturing, storing, analyzing, managing and presenting spatial and geographical data. As an interactive visualization and decision-support tool, GIS, nowadays, plays a crucial role in evidence-based development planning by showing the distribution of development across Nepal. It also helps the decision makers at provincial and local spheres by identifying the potentialities of and barriers to development of their respective areas.

Bikas Udhyami's Nepal in Data (NiD) initiative has come out with the 'Nepal Development Atlas', which visualizes Nepal's current development status through GIS based visualization. We hope that the very first attempt of Nepal in Data to bring out this comprehensive and interestingly presented visualizations of Nepal's development status along with geographical status will help researchers, policy makers, development practitioners, journalists, academia, students, and people to make an insightful and evidence-based decisions.

The Atlas consists of 15 chapters on the political status, socio-economic status and geography of Nepal including all the seven provinces. The chapters visualize data and information on public administration, elections, physical geography, demography, housing and amenities, socio-economic development, education, health, employment, agriculture and land, economic, market and finance, energy and environment, industry, infrastructure, communication and technology, law and justice, and state and politics.

I would like to thank our hardworking and dedicated team of Nepal in Data specially Bipin Sinjali for generating GIS maps, Niraj Shahi, Pramesh Dangol for presenting them and Sajani Lama Jimba for collecting and cleaning the data for the Atlas. I also extend my thanks to all who encouraged and supported us while bringing out the Atlas.

Santosh Gartaula, CEO
Bikas Udhyami

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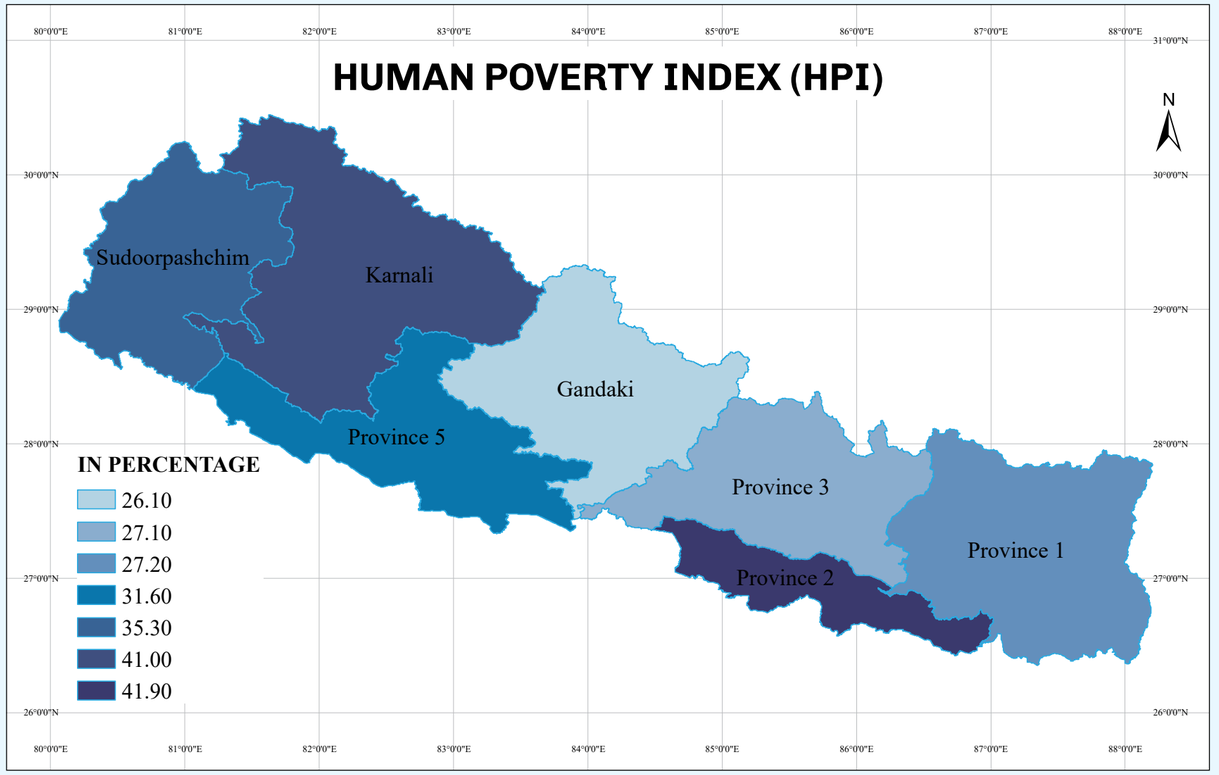

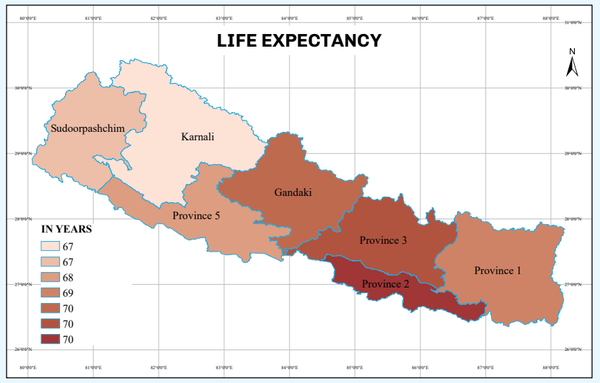

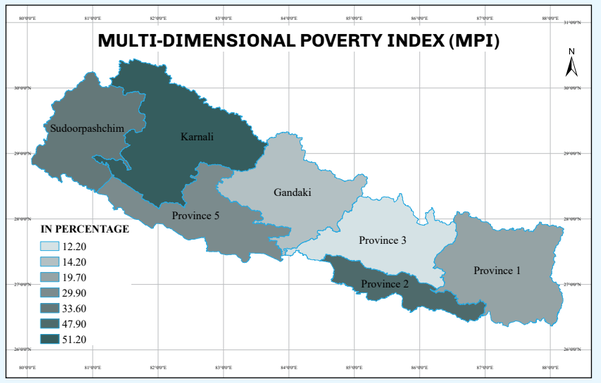

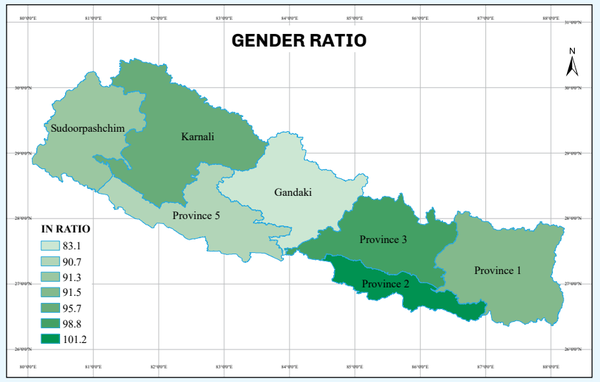

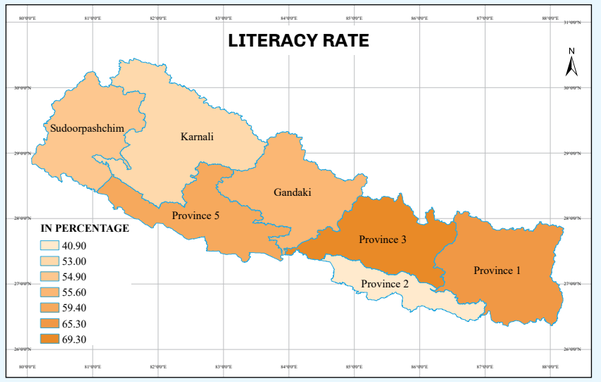

DEVELOPMENT INDICES, 2018/19

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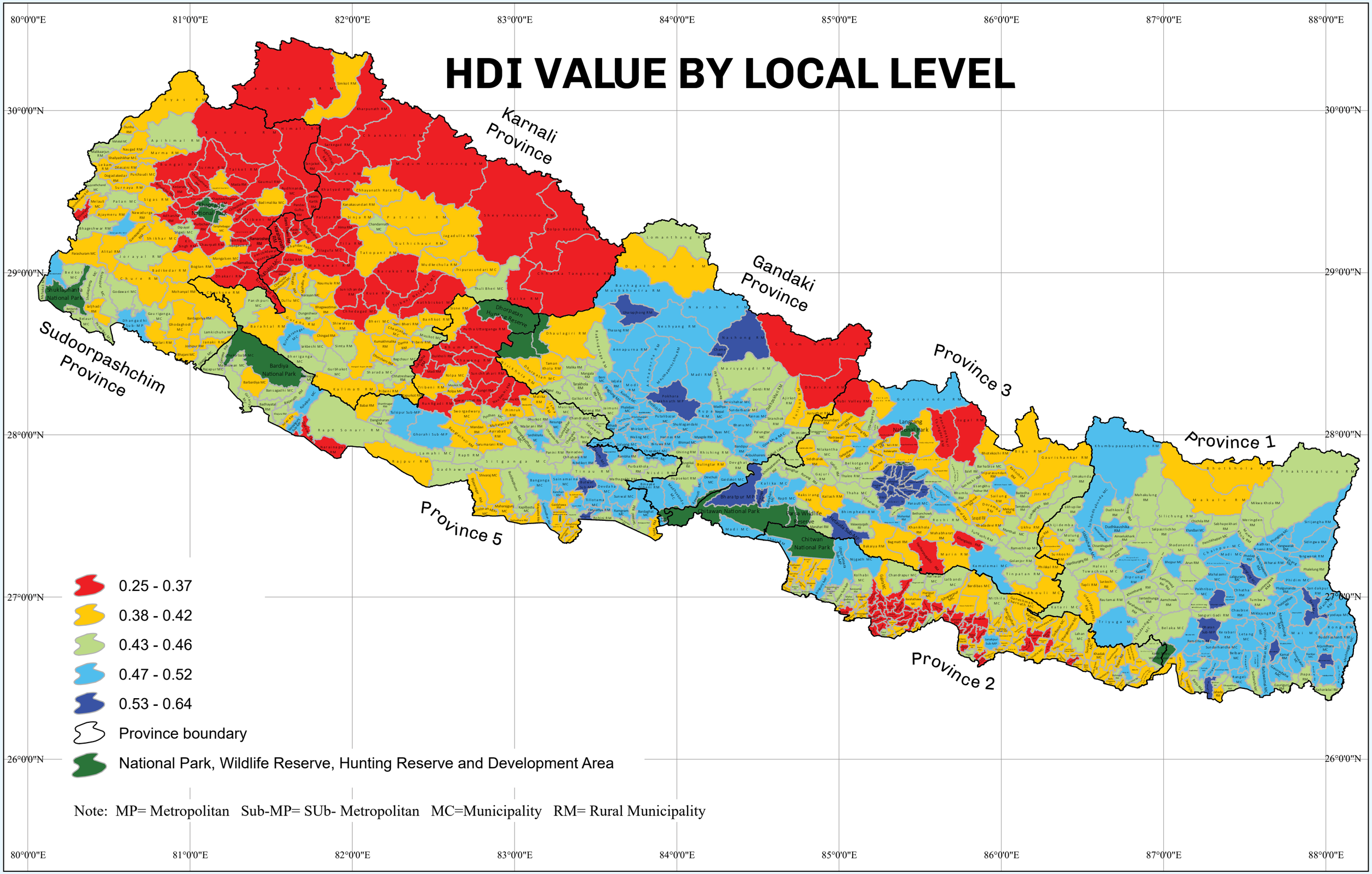

Note: MP= Metropolitan Sub-MP= SUb- Metropolitan MC=Municipality RM= Rural Municipality

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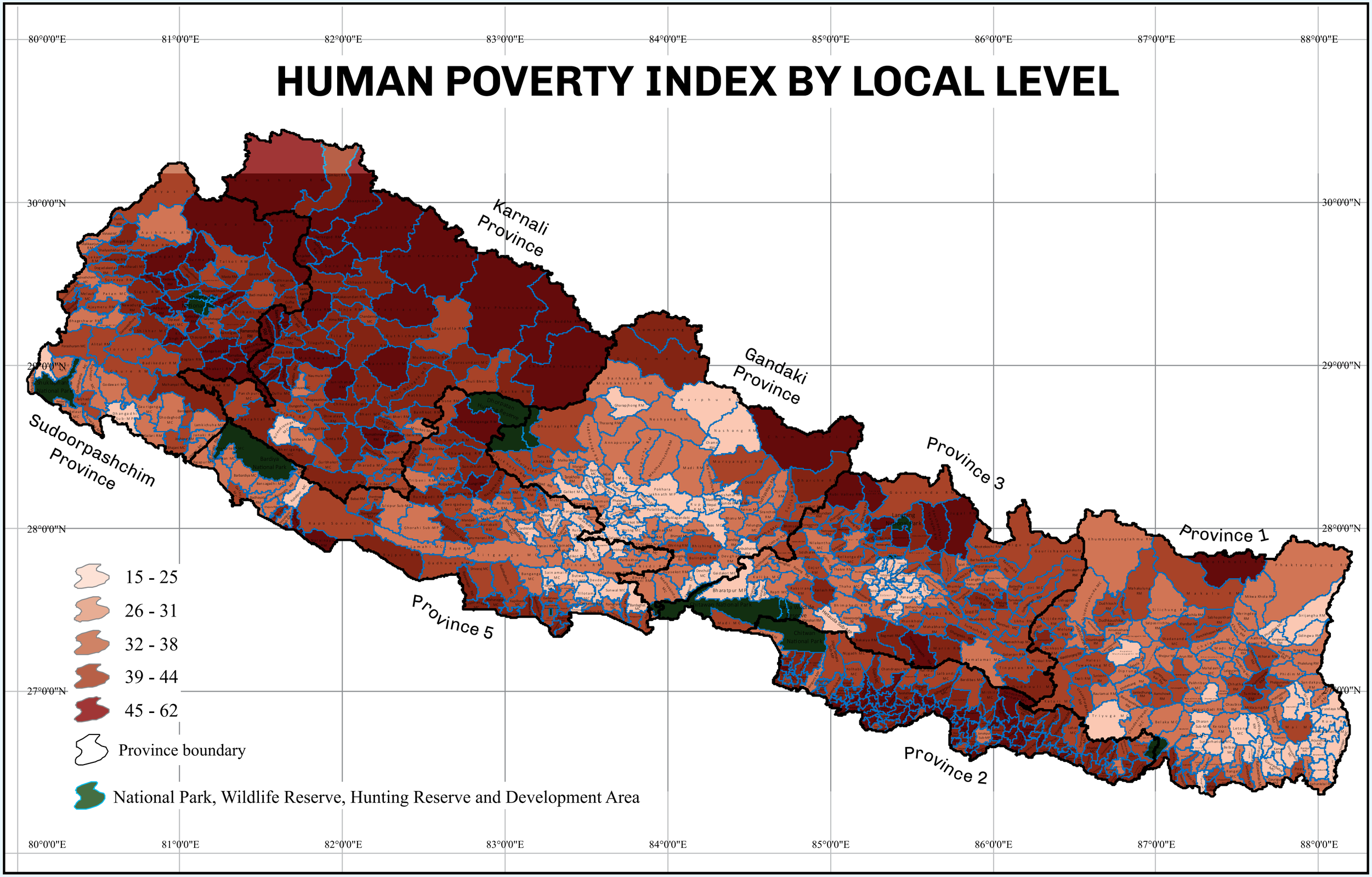

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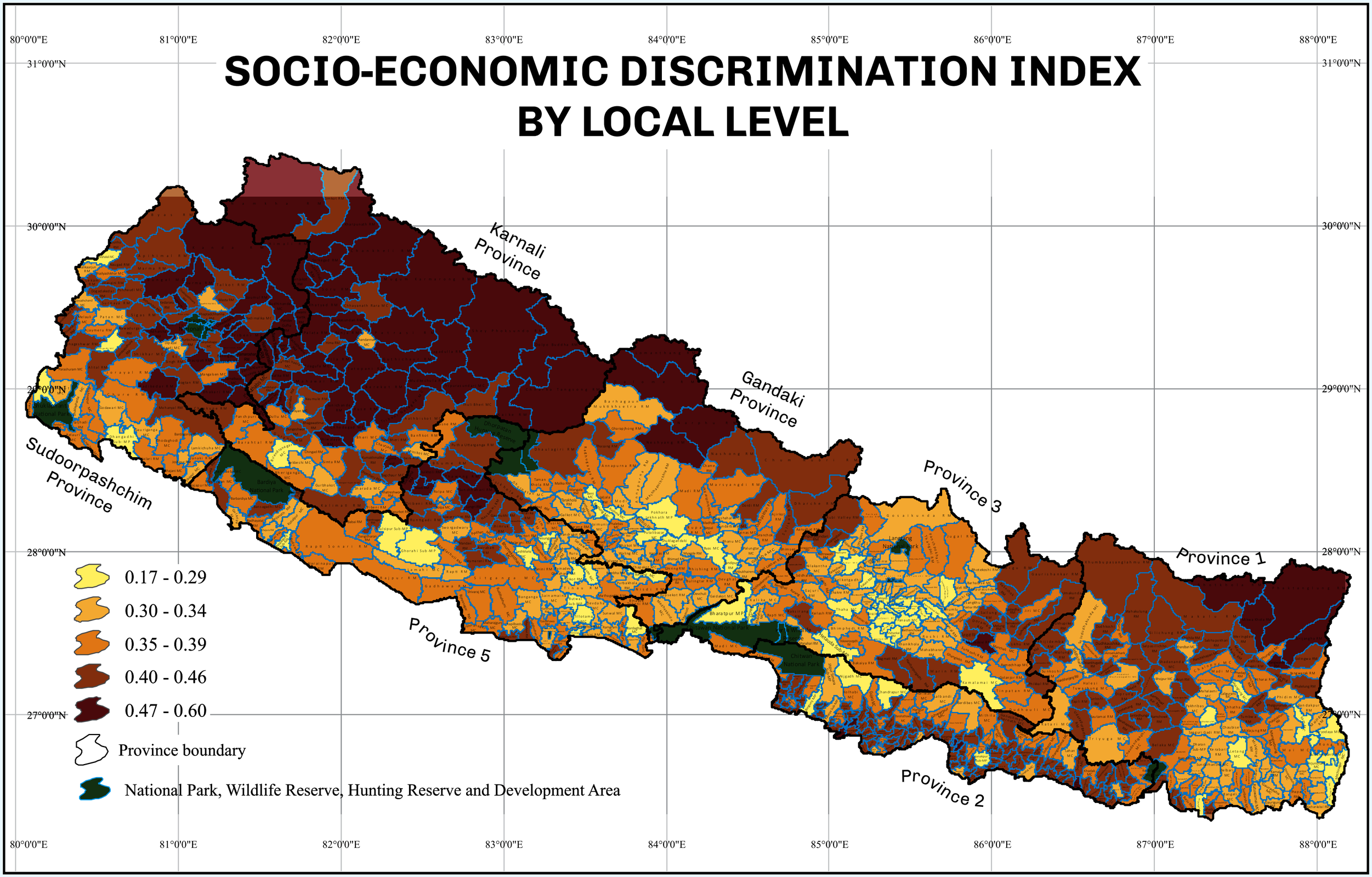

DEVELOPMENT INDICES, 2018

REFERENCES

01 Administration and Election

Survey Department. Retrieved from dos.gov.np, Google Earth

Electoral Constituency Delimitation Commission. (2017). District wise Constituency Map. Kathmandu, Nepal; Election Commission Nepal.

02 Physical Geography

Earth Explorer. Retrieved from https://earthexplorer.usgs.gov/icimode.org. The International Centre for Integrated Mountain Development (ICIMOD). Retrieved from http://rds.icimod.org/Home/DataDetail?metadataId=1889, and Soil Metadata Catalogue. Retrieved from https://data.isric.org/geonetwork/srv/eng/catalog.search#/metadata/

03 Demography

Central Bureau of Statistics. (2011). Province Summary Population Census 2011. Kathmandu, Nepal; Central Bureau of Statistics

04 Housing and Amenities

Central Bureau of Statistics. (2011). Province Summary Population Census 2011. Kathmandu, Nepal; Central Bureau of Statistics

05 Socio-economic Development

Ministry of Federal Affairs and General Administration. Retrieved from http://mofaga.gov.np, and National Natural Resources and Fiscal Commission. Retrieved from https://www.nnrfc.gov.np/

06 Education

Ministry of Education, Science and Technology. (2018). Nepal Education Figure 2017. Kathmandu, Nepal; Ministry of Education, Science and Technology

Ministry of Federal Affairs and General Administration. Retrieved from http://mofaga.gov.np

Central Bureau of Statistics. (2011). Province Summary Population Census 2011. Kathmandu, Nepal; Central Bureau of Statistics

07 Health

Department of ealth and Service. (2017). Glimpse of Annual Report 2016/17. Kathmandu, Nepal; Ministry of Health and Population

08 Labour and Employment

Ministry of Labour and Employment. (2018). Labour Migration for Employment. Kathmandu, Nepal: Ministry of Labour and Employment

Central Bureau of Statistics. (2019). National Economic Census- 2018, Province Report. Kathmandu, Nepal; Central Bureau of Statistics, and Central Bureau of Statistics. (2019). Report on the Nepal Labour Force Survey, 2017/18. Kathmandu, Nepal: Central Bureau of Statistics.

Central Bureau of Statistics. (2019). Report on the Nepal Labour Force Survey, 2017/18. Kathmandu, Nepal; Central Bureau of Statistics.

09 Agriculture and and Land

Central Bureau of Statistics. (2011). Province Summary Population Census 2011. Kathmandu, Nepal. Central Bureau of Statistics

Ministry of Agriculture and Livestock. (2018). Statistical Information on Nepalese Agriculture 2016/17. Kathmandu, Nepal; Ministry of Agriculture and Livestock.

10 Economy, Market and Finance

Central Bureau of Statistics. (2019). National Accounts of Nepal- GDP, 2018/19. Kathmandu, Nepal; Central Bureau of Statistics.

Nepal Rastra Bank: emap (2019). Financial Inclusion Dashboard 2019. Kathmandu, Nepal; Nepal Rastra Bank

Ministry of Finance. (2019). Budget Speech, 2018/19. Kathmandu, Nepal; Ministry of Finance.

11 Energy and Environment

Alternative Energy Promotion Centre. Retrieved from https://www.aepc.gov.np/statistic/

World Climate Data-Version 2. Retrieved from http://worldclim.org/version2

National Seismological Centre. Retrieved from https://www.seismonepal.gov.np/

12 Industry

Ministry of Finance. (2018). Economic Survey 2017/18. Kathmandu, Nepal; Ministry of Finance.

13 Infrastructure, Communication and Technology

Ministry of Federal Affairs and General Administration. Retrieved from http://mofaga.gov.np

14 Law and Justice

National Human Right Commission - Nepal. Retrieved from https://www.nhrcnepal.org/, Informal Sector Service Center (INSEC). Retrieved from https://www.insec.org.np/, and Nepal Police. Retrieved from https://www.nepalpolice.gov.np/

15 Election

Election Commission Nepal. Retrieved from http://www.election.gov.np/election/np

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