

Third Global Conference on Strengthening Synergies between the Paris Agreement and the 2030 Agenda for Sustainable Development

Side Event

Applying Circulating and Ecological Sphere (CES) Concept for Placing Urban Rural Linkages at the Core of Localization of Climate and Sustainable Development Actions.

CES APPROACH IN THE NAGPUR CITY REGION

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Coordinator, IRDR ICoE RCS,
V.N.I.T, Nagpur, INDIA



July 20, 2022

INDIAN MODEL OF LOCALISATION OF SDGs



Simultaneous focus on:

a) Creating institutional ownership

Improve the implementation of integrated programmes

b) Establishing a robust review & monitoring system

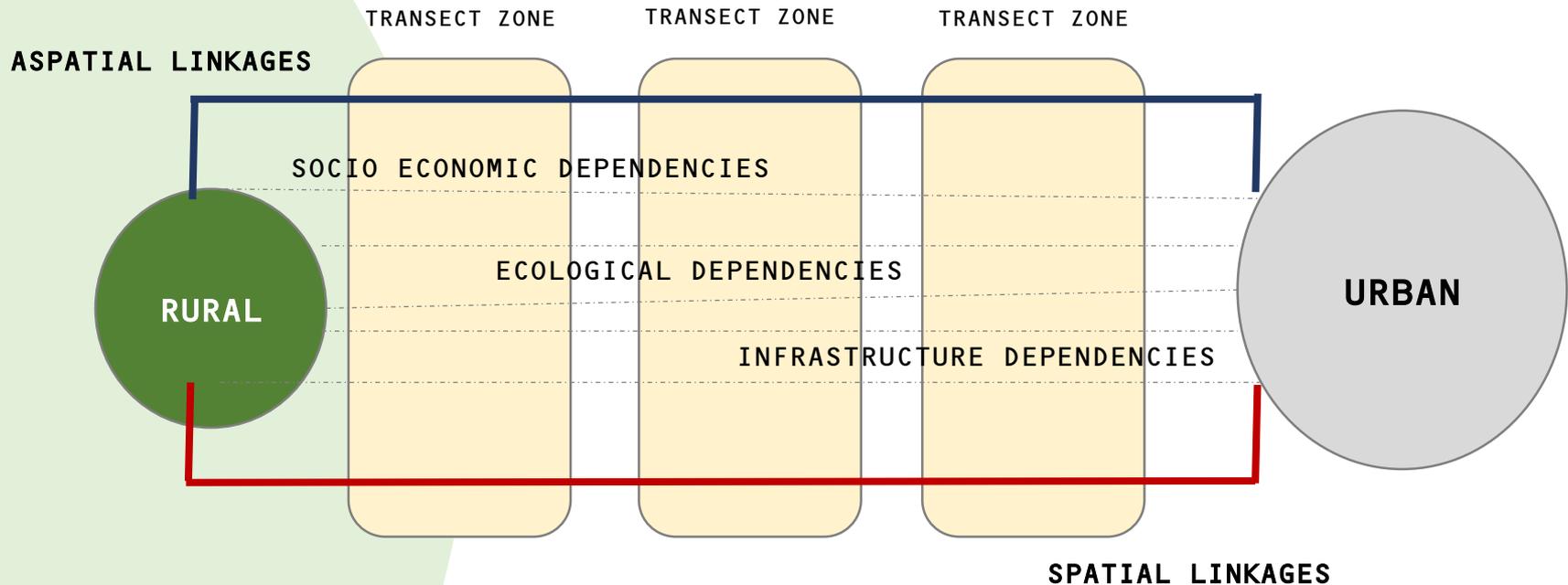
c) Developing capacities for SDG planning & monitoring

Leverage business action to accelerate the progress towards the SDGs

d) Promoting a “whole of society” approach

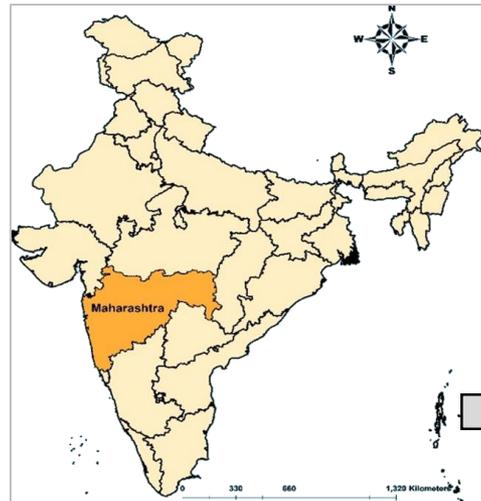
Ensure that the marginalised population has a voice in shaping local agendas.

INTERDEPENDENCY OF URBAN & RURAL REGION



Urban and rural regions are interdependent in a symbiotic manner, and **optimizing that relationship** is a critical aspect of **resilience planning**.

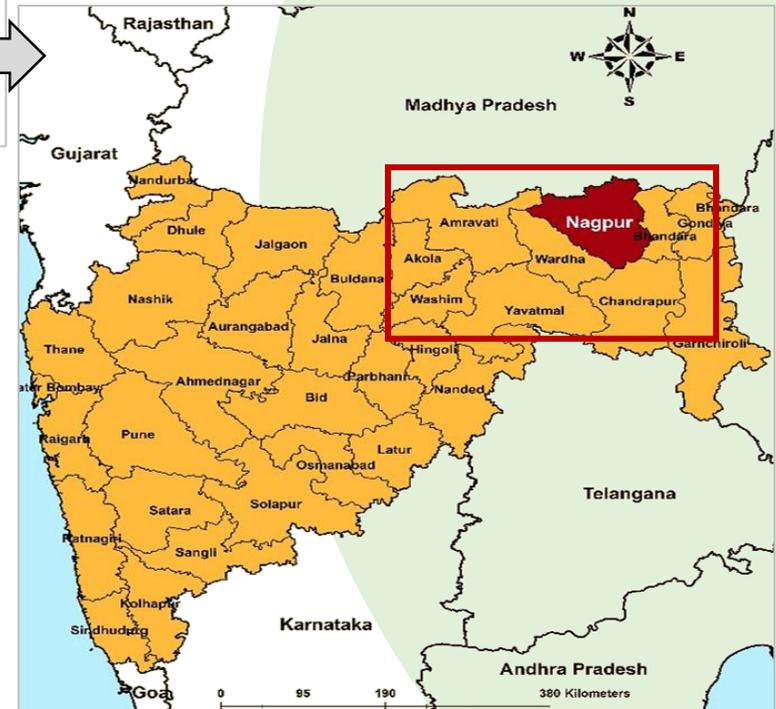
CASE STUDY: NAGPUR



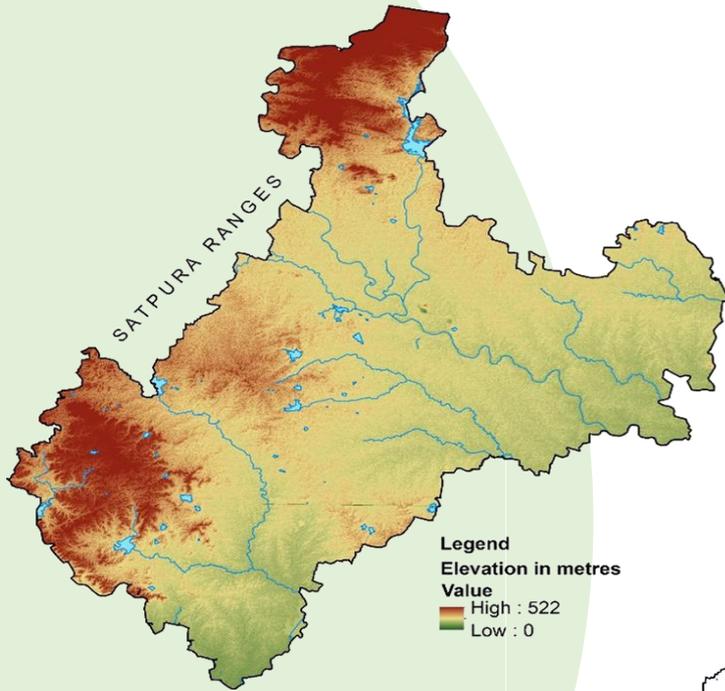
Nagpur is one amongst the 100 **Smart Cities** in India

Nagpur City joins UN led '**Race to Zero**' campaign, which aims at committing to achieve net zero carbon emission by 2050

- Seven out of the top 10 most affected **hotspot districts** in India belong to the Vidarbha region of Maharashtra.
- Nagpur is vulnerable to **changes in average weather**.



PHYSICAL CHARACTERISTICS OF NMA REGION

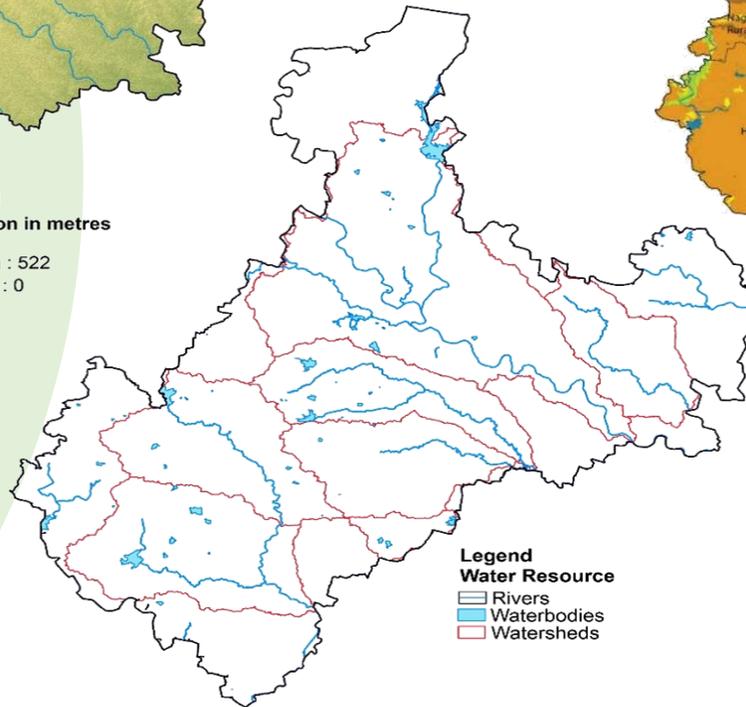


Elevation Map

Raster image sourced from USGS Earth Explorer

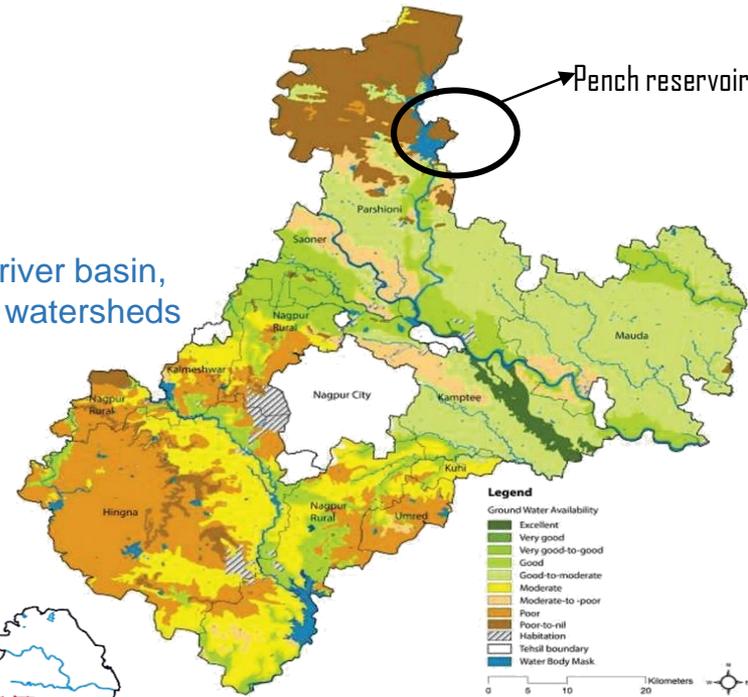
NMA has a natural slope in two directions

NMA lies in the Godavari river basin, but it comprises of several watersheds



Watershed Map

Source: Prepared through DEM image sourced from USGS Earth Explorer



Groundwater Availability

Source: NMA Development Plan: 2012-32 (NIT 2015)

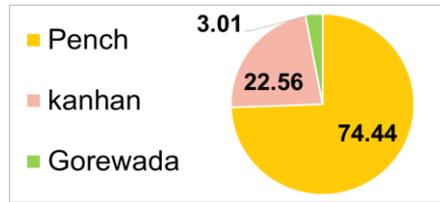
High spatial variation in groundwater availability

Criteria for selection of study area

Distance from City Boundary

Source of water in Nagpur

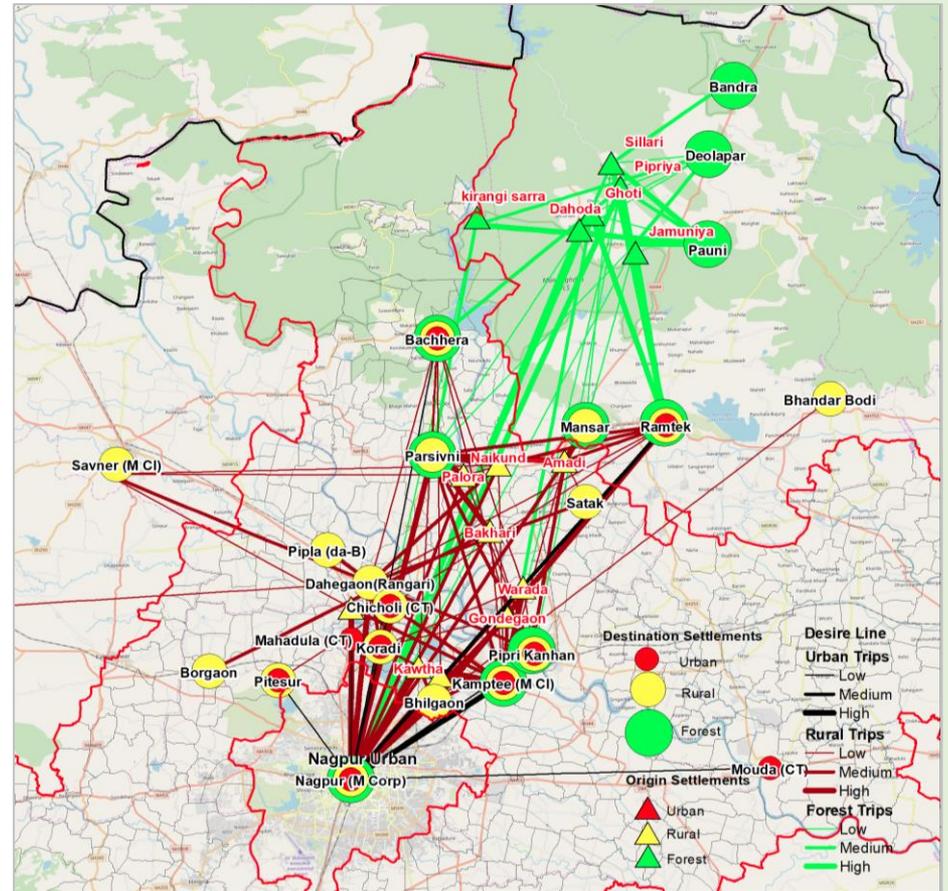
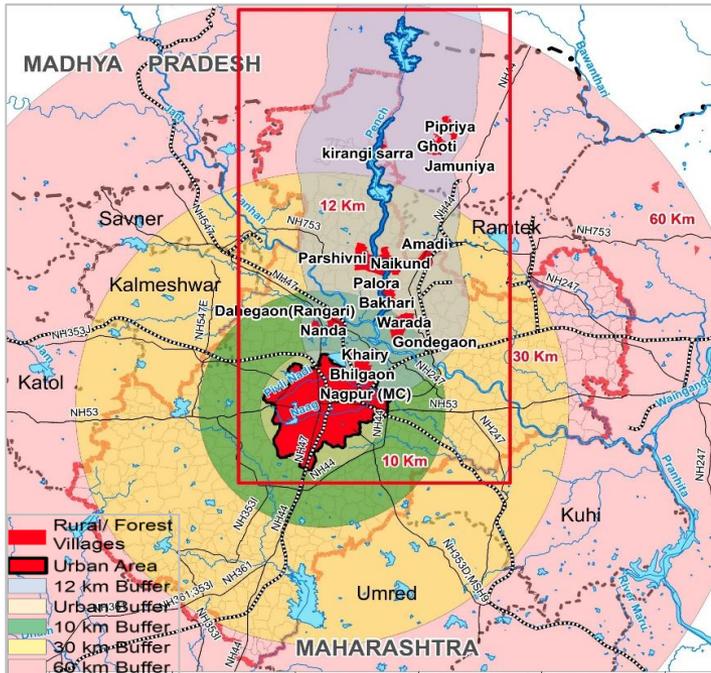
Urban Area	10km
Rural Area	30km
Forest Dweller	60km



Population Size

Forest: less than 500 ; 500-1,000 ; More than 1,000
Rural: Less than 1,000; 1,000-2,000; More than 2,000
Urban: Less than 10,000; 10,000- 20,000; More than 20,000

SELECTED SETTLEMENTS



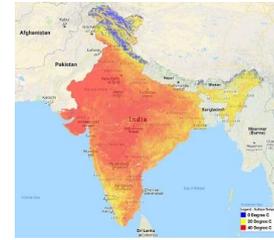
FLOW ANALYSIS OF PEOPLE

For higher order services of **Education, Health, Employment, Market & Recreation** people move towards towns or cities of higher order in settlement hierarchy

CHALLENGES & STRESSORS FOR THE CITY



- Major climatic issues were Droughts and heat waves.
- Major environmental issues included reduction of green cover followed by water, air and soil pollution.
- Poor water management and emergency response infrastructure were highlighted as important infrastructural issues.
- Migration was termed as one of the major social issue.
- Amongst socio economic issues unemployment, inequality of income and poor tax collection held more weightage.



Heat wave



Water pollution



Reduction of green areas



Migration



Lack of environmental initiatives



Unemployment

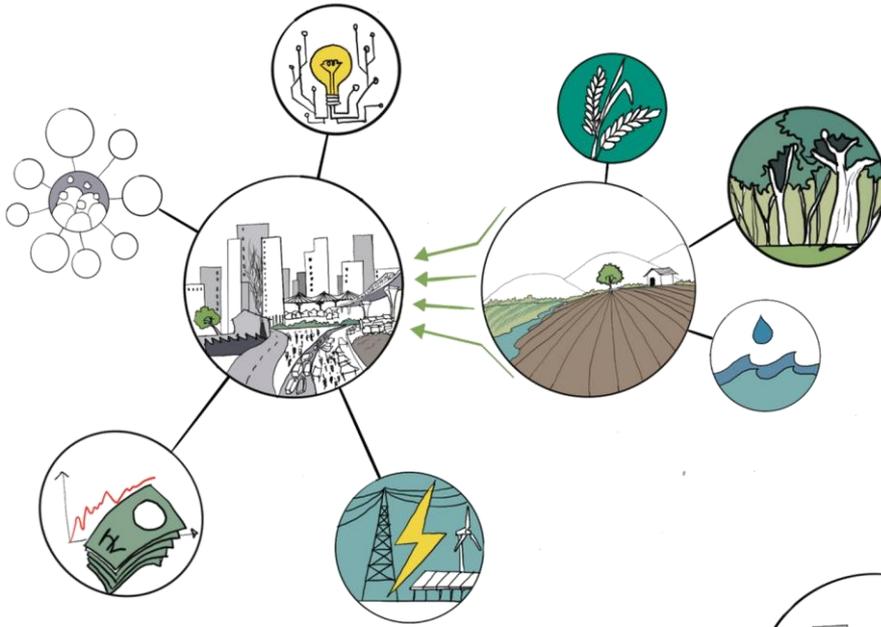


Inequality of income & poor tax collection

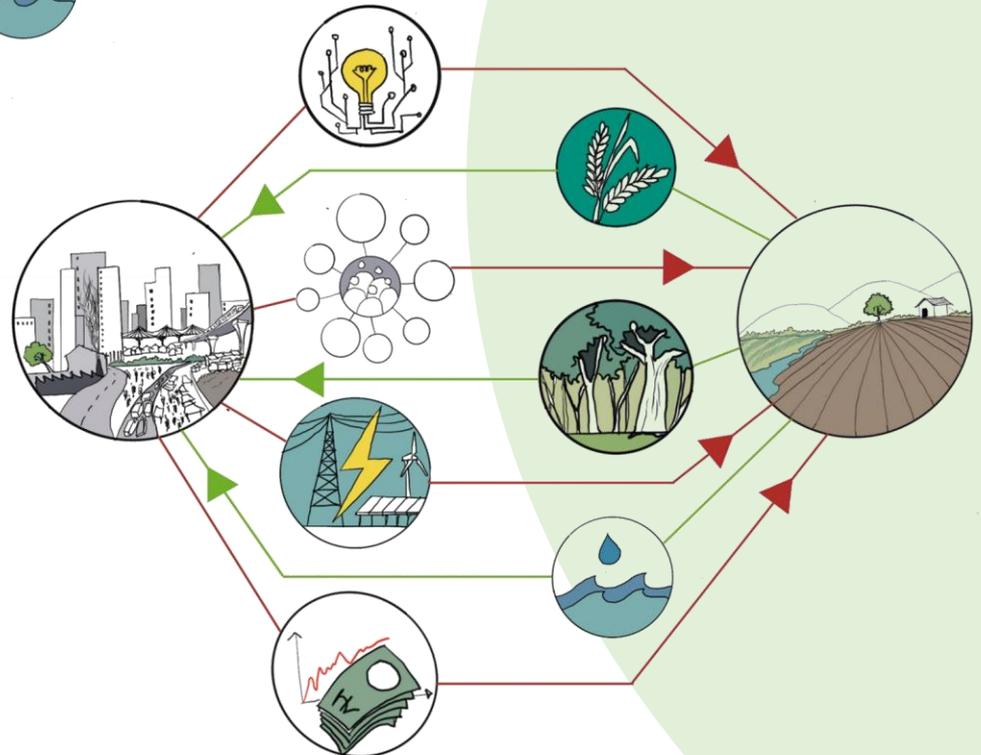


Poor water management

URBAN- RURAL LINKAGE SCENARIO

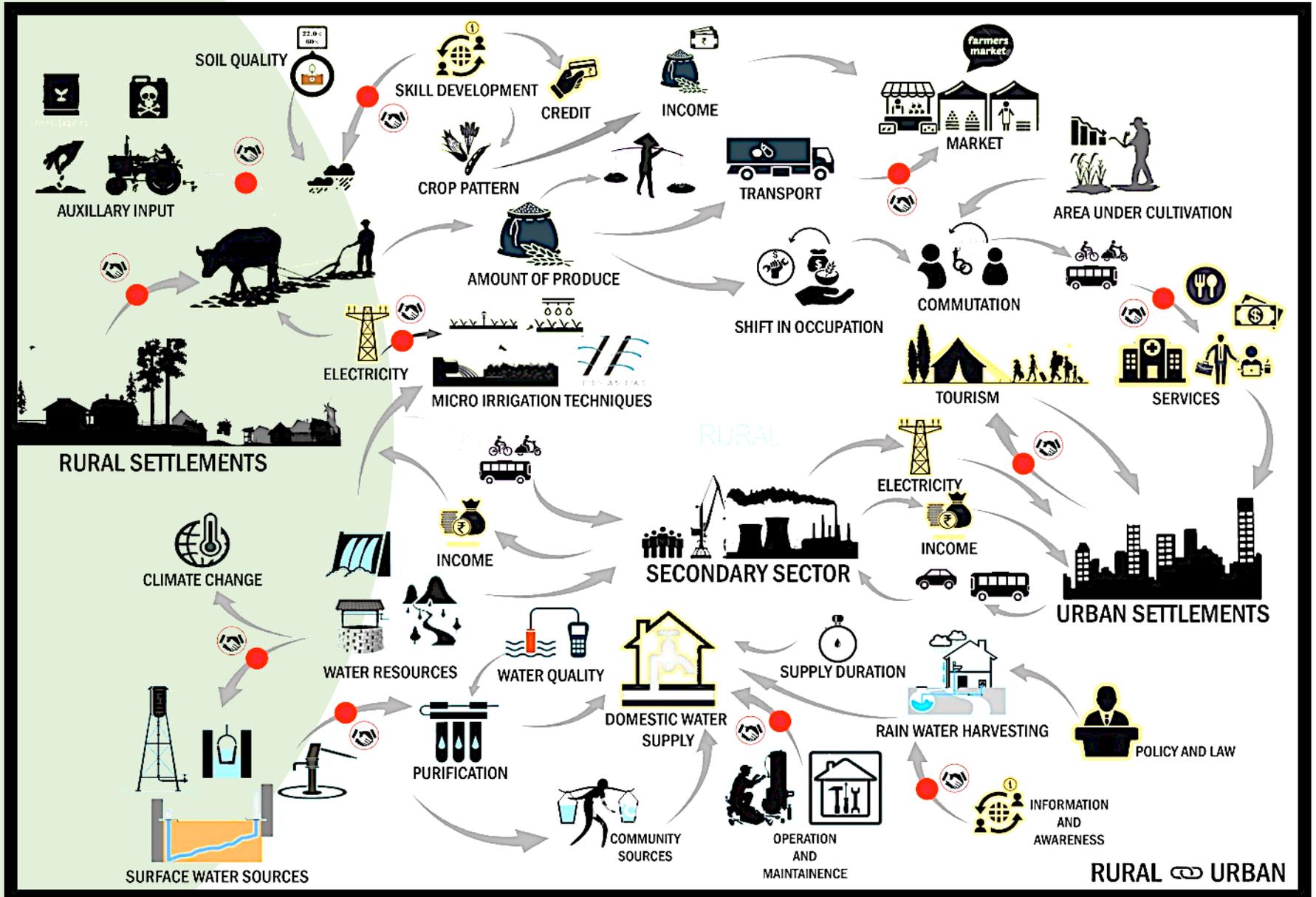


Current urban rural scenario
(According to the Key stakeholder survey)

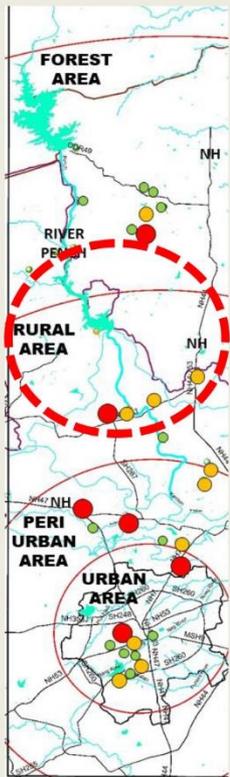


Suggestive Urban Rural scenario
(CES Approach)

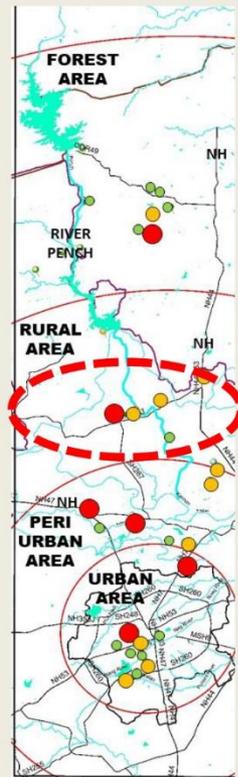
URBAN- RURAL PARTNERSHIP AVENUES



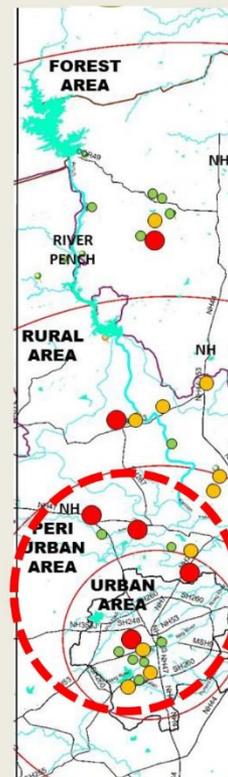
SCALE OF PARTNERSHIP



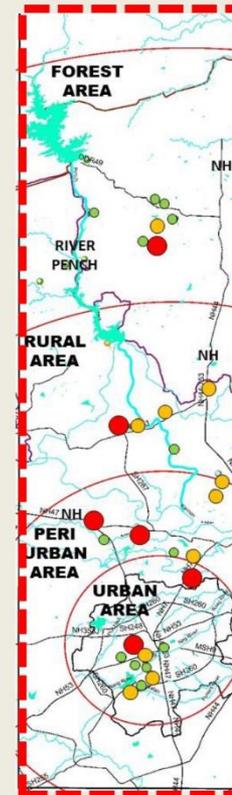
Forest-Rural



Rural-Rural



Periurban-Urban



Forest-Rural-Periurban-Urban



Levels

Forest Dept./Community

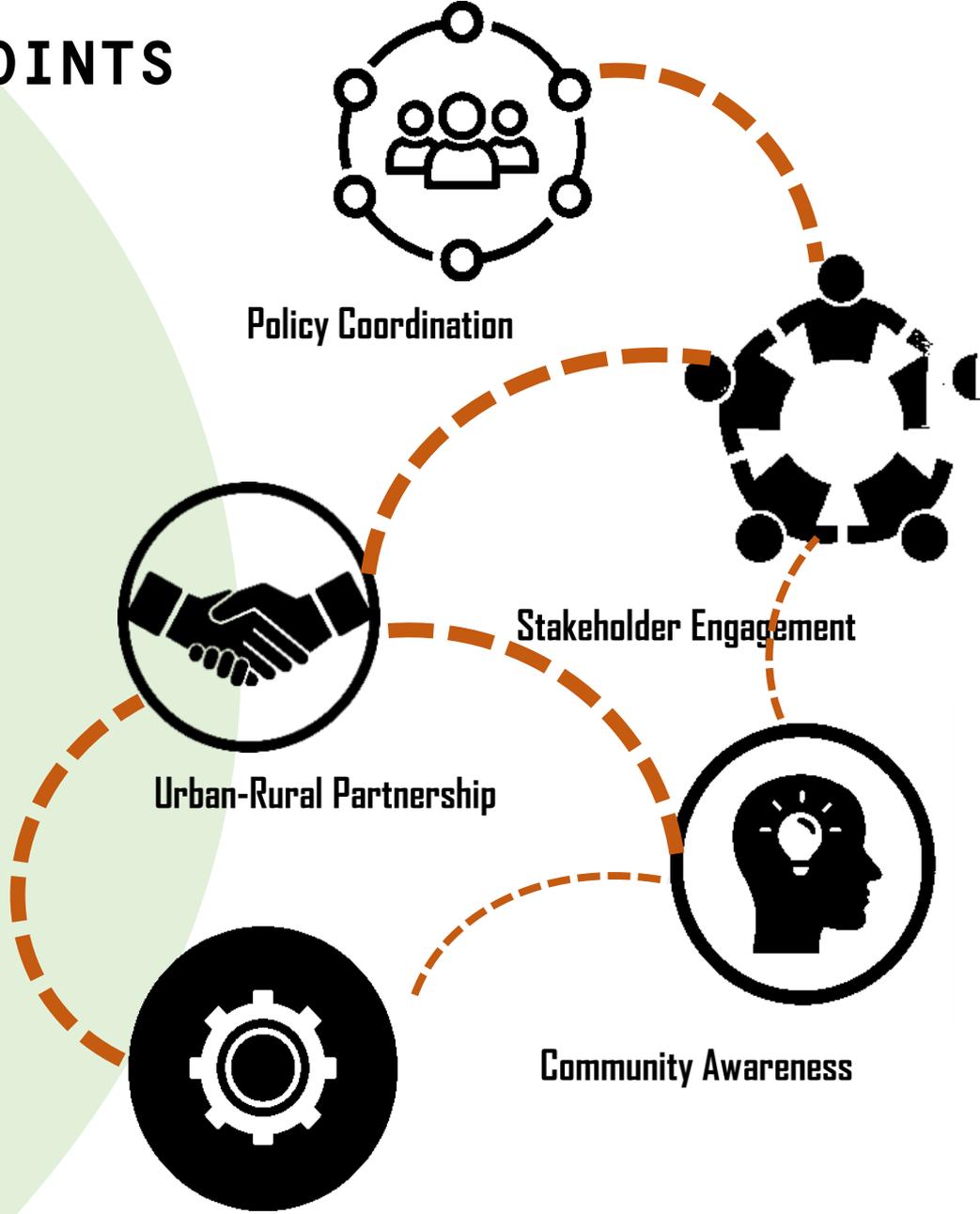
Corporate sector/Community

Corporate sector/MJP/NGOs/CBO/NMC/ULB/VP

MJP/NGOs/CBO/NMCULB/VP/Urban residents/Institutions

Stakeholders

ENTRY POINTS



Technological Interventions

OUTREACH AND IMPACT

NAGPUR MUNICIPAL CORPORATION, NAGPUR

Sau. Nanda Sharad Jichkar
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S.O.S.19

To,
Professor Kazuhiko Takeuchi
President,
Institute for Global Environmental Strategies
Japan

Subject: Letter of appreciation for ISAP 2019 and future engagements with IGES

Dear Professor Takeuchi,
Warm greetings!

I would like to place on record my appreciation for organizing International Forum for Sustainable Asia and Pacific (ISAP) 2019. I am very pleased to know that the event witnessed participation from very diverse interest groups and achieved some remarkable outcomes in terms of strengthening ongoing initiatives as well as making pathways for new collaborations.

Please accept my sincere thanks for your kind invitation as one of the panelist during Thematic Track on 'New Paradigms in Urban-Rural linkages'. The deliberations moderated by Dr. Andre Mader and participated by Dr. Bijon Mitra, Ms. Tomoko Takeda, Prof. Raib Shaw, Prof. Hassan Virji, Mr. Makoto Ishigauka & Dr. Sameer Deshkar very effectively brought out the challenges and opportunities for building sustainable futures through urban-rural partnership. I am very glad that assistance from IGES in this direction for the Nagpur City in India has provided a new perspective for addressing natural resource conservation in the region.

I would like to assure you that the city of Nagpur would be open for collaboration in possible ways particularly in the areas of policy innovations & governance for resilient development and natural resource conservation. I sincerely look forward for your continued support for taking further the initiative on Regional Circular and Ecological Sphere concept for strengthening urban-rural partnership in the Nagpur region in much more effective ways.

Best wishes and regards

(Nanda Jichkar)

Copy to:

1. Mr. Hideyuki Mori, Executive Director, IGES
2. Mr. Bijon Kumer Mitra, Senior Water Resource Specialist, IGES



Stakeholder workshops



CityLine
Nagpur City, Metro Region script urban-rural partnership at VNIT

Mayor Nanda Jichkar, Abhinav Jindal, Dr. Chip Postwa, Dr. Harshad Sawant and others at the inauguration of the workshop.

Staff Report
With the growing urban-rural linkages, climate change scenario is being perceived. The couples existing with the interventions, investments, is essential and needs to consider both urban and rural areas collectively for sustainable natural resource management. Through this concept is being presented the two-day deliberations during meeting held at Sustainable Cities and Metropolitan Region. Coordination workshop organized by Department of Architecture and Planning at Vignyan Vigyan Mahavidyalaya (VNIT) on Building Urban Rural Partnership for Sustainable Nagpur City and Metropolitan Region.

The workshop concept of the individual collaboration was conceptualized by the IIGS International Center of Excellence in Housing, Communities and Sustainable Development (IIGS-CEHSD) together with the Institute for Global Environmental Strategies, Yokohama, Japan. IIGS and Indian Council for Social Sciences (ICSSR), New Delhi.

The workshop that was presided over by Abhinav Jindal, IIGS, Dean of Department of Architecture & Planning, Dr. Rajiv Sawant, IIGS, Nagpur, Japan in its inaugural session. Inaugural session was presided over by Mayor Nanda Jichkar. The workshop was held on 13th June, 2019 at VNIT, Nagpur. The workshop was held on 13th June, 2019 at VNIT, Nagpur. The workshop was held on 13th June, 2019 at VNIT, Nagpur.

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CITY
Bridge urban-rural gap for sustainable development: Ex

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