

“PM Gati Shakti – A Game changer for Indian Infrastructure?”

Decoding the concept of Gati shakti, and its expected impact on Indian infrastructure in mid-to-long term

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Messe Stuttgart
Key to Markets





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India's logistics and infrastructure landscape is undergoing a transformative shift, propelled by ambitious government initiatives such as **PM Gati Shakti** and the **National Logistics Policy**. These policies are designed to streamline supply chains, enhance multimodal connectivity, and position India as a globally competitive manufacturing hub. **Messe Stuttgart India** takes pride to contribute to this evolution by providing a world-class platform—**LogiMAT India**—that seamlessly aligns with the nation's vision for a **Viksit Bharat 2047**.

LogiMAT India 2025, a premier trade fair dedicated to logistics and supply chain, arrives at a pivotal moment. It brings together industry leaders, policymakers, and solution providers to catalyse growth and innovation within the sector. The event serves as a strategic enabler, facilitating discussions, collaborations, and technology showcases that directly support India's infrastructure modernization efforts.

We are honoured to host the **launch of EAC International Consulting's brief report, "PM Gati Shakti – A Game Changer for Indian Infrastructure?"** at LogiMAT India 2025. This report provides transparency on the long-term impact of the initiative and offers valuable insights for businesses navigating this evolving landscape. Through such collaborations, LogiMAT India reinforces its commitment to being the leading knowledge-sharing and networking hub, driving efficiency, sustainability, and cost optimization in logistics.

As we progress toward a more **integrated, agile, and resilient** supply chain ecosystem, **Messe Stuttgart India** remains steadfast in its mission to empower stakeholders by providing the ideal platform to shape the future of logistics. We look forward to witnessing how the insights from this report further fuel India's infrastructural ambitions and contribute to its journey toward becoming a global powerhouse.





INDEX

1 | **INTRODUCTION: DECODING THE CONCEPT OF PM GATI SHAKTI**

2 | **STATUS-QUO 2024: ACHIEVEMENTS IN LAST 3 YEARS**

3 | **FUTURE OUTLOOK OF PM GATI SHAKTI**

PM GATI SHAKTI – ADDRESSING ISSUES IN INFRASTRUCTURE

India's infrastructure planning suffered from disjointed efforts, underutilization of capacity, and lack of standardization; Gati Shakti aims to standardize procedures and timelines for clearances, reducing delays and improving coordination

ISSUES IN INDIAN INFRA PLANNING & EXECUTION

NEED

DISJOINTED PLANNING

Newly constructed roads are frequently excavated by various agencies for utility work, causing public inconvenience and wasteful spending

- Synergies during the planning stage among government departments to avoid repetitive work
- Integrated execution of projects across sectors

UNDER UTILIZATION OF INSTALLED CAPACITY

Poor planning often leads to completed projects operating below capacity due to connected project delays, resulting in lost revenue & wasted resources

- Aligned timelines of various infrastructure projects (e.g. road, rail, and port connectivity) to avoid underutilization

LACK OF STANDARDIZATION

Previously every infra used to be designed as unique construction and later taken approval from other ministries, causing delays and loss to exchequer

- Design standardization to streamline approvals and reduce project timelines
- Faster execution of infrastructure projects through uniform guidelines and templates










LACK OF COORDINATION, APPROVALS & INTER DEPARTMENTAL ISSUES

Requirement of numerous approvals (regulatory, environmental, land acquisition, etc.) delayed project completion

- Standardized procedures and timelines for all agencies providing approvals
- Expedited clearances by promoting transparency and digitization of approval processes

PM GATI SHAKTI – OVERVIEW

PM Gati Shakti plans to bridge infra and logistics gaps to ensure seamless movement of people, goods, and services; initiative based on 6 pillars focused on integrating and prioritizing all planned initiatives with help of GIS based platform across ministries

 OBJECTIVE	<ul style="list-style-type: none">■ PM Gati Shakti National Master Plan is as an integrated plan to address missing gaps in infrastructure and logistics to ensure seamless movement of people, goods and services■ Aims to enhance ease of living, ease of doing business, minimize disruptions, and expedite completion of work with cost efficiencies						
 FOCUS	 Railways	 Roads	 Ports	 Waterways	 Airports	 Mass Transport	 Logistics Infrastructure

6 PILLARS			
COMPREHENSIVE	Integrating all existing and planned initiatives of various ministries	SYNCHRONIZATION	Providing visibility and coordination in planning and implementation of projects
PRIORITIZATION	Enable different departments to prioritise their projects through cross-sectoral interactions	ANALYTICAL	Providing complete data in one place with GIS based spatial planning and analytical tool
OPTIMIZATION	Assist different ministries in planning for modification/ expansion/ new projects after identification of critical gaps	DYNAMIC	Real-time project tracking and timely adjustments

PM GATI SHAKTI – KEY STAKEHOLDERS AND THEIR ROLES



PM Gati Shakti aims to enable seamless multimodal connectivity through collaboration between Central ministries, State governments, district administrations, and logistics division for infrastructure integration

PM Gati Shakti – Key Stakeholders



Central Ministries (43 ministries)

- Plays key role in breaking silos for multimodal connectivity with initiatives such as Bharatmala, Sagarmala, inland waterways, dry/land ports and UDAN are integrated into this plan
- Responsible for updating PM Gati Shakti GIS portal with new proposals



LOGISTICS DIVISION (Under DPIIT, Central government department)

Collaborates closely with state and central government for infrastructure integration

- Responsible for identifying, developing and monitoring execution of critical projects for multimodal connectivity under National Master Plan (NMP)
- Operationalizes Network Planning Group (NPG) and Technical Support Units (TSUs)



State Government (36 States and Union Territories)

- Manages extensive infrastructure across multiple departments
- Creates PM Gati Shakti State Master Plan for economic zones
- Each State has its own portal to contribute to national infrastructure framework
- Establishes State-level Economic Governance Operations (EGOs)



District Administration

- Supports on-ground implementation and expedites approval processes
- Responsible for mapping necessary data layers on the GIS platform to identify district-level projects that complement initiatives from central ministries and state governments

PM GATI SHAKTI – KEY MINISTRIES

43 Central Ministries are coordinating efforts under PM Gati Shakti to enable seamless integration, efficient infrastructure development, and planning for accelerated economic growth and multimodal connectivity across sectors

INFRASTRUCTURE

- Ministry of Road Transport & Highways
- Ministry of Communications
- Ministry of Heavy Industries
- Ministry of Railway
- Ministry of Coal
- Ministry of Housing and Urban Affairs
- Ministry of Jal Shakti
- Ministry of New & Renewable Energy
- Ministry of Power
- Ministry of Port, Shipping & Waterways
- Ministry of Civil Aviation
- Ministry of Development of North Eastern Region
- Ministry of Environment, Forest & Climate Change
- Ministry of Rural Development

ECONOMIC

- Ministry of Commerce and Industries
- Ministry of Mines
- Ministry of Steel
- Ministry of Co-operation
- Ministry of Micro, Small and Medium Enterprises
- Ministry of Earth Science
- Ministry of Textile
- Ministry of Chemical
- Ministry of Petroleum and Natural Gas

SOCIAL

- Ministry of Sports and Youth Affairs
- Ministry of Consumer Affairs, Food & Public Distribution
- Ministry of Education
- Ministry of Health and Family Welfare
- Ministry of Social Justice and Empowerment
- Ministry of Tourism
- Ministry of Ayush
- Ministry of Culture
- Ministry of Labour and Employment
- Ministry of Minority Affairs
- Ministry of Panchayati Raj
- Ministry of Skill Development and Entrepreneurship
- Ministry of Agriculture And Farmers Welfare
- Ministry of Fisheries, Animal Husbandry & Dairying
- Ministry of Food Processing Industries
- Ministry of Women and Child Development
- Ministry of Tribal Affairs

GOVERNANCE

- Ministry of Electronic and Information Technology
- Ministry of Home Affairs
- Ministry of Defence

Government has launched National Logistics Policy, Comprehensive Logistics Action Plan, and globally aligned Logistics Performance Index (LPI) across infrastructure and logistics sectors for supporting PM Gati Shakti vision

NATIONAL LOGISTICS POLICY

Launched in September 2022

Vision:

- Drive economic growth
- Business competitiveness through a seamless, reliable, and cost-effective logistics network advanced technology and skilled manpower

Key Objectives

- Reduce Logistics Costs
 - Aims to reduce logistics costs from **13-14%** of GDP to global benchmarks of around **8%** by **2030**
- Improve Logistics Performance Index
 - Target ranking among the **top 25** countries by **2030**
- Establish robust data driven mechanism for logistics ecosystem management

COMPREHENSIVE LOGISTICS ACTION PLAN (CLAP)

Launched as part of NLP, CLAP focuses on:

- **Unified logistics interface platform (ULIP)** to link data sources and improve efficiency and transparency
- **Standardization of physical assets and benchmark service quality standards**
- **Logistics human resources development** and capacity building
- Facilitating development of **logistics parks**
- Improve **EXIM logistics**
- Implement **warehousing standards**
- Improve **service improvement framework**
- Improve **sectoral plan for efficient logistics**

LOGISTICS PERFORMANCE INDEX (LPI) ACTION PLAN

- India ranks **38th** in **LPI** out of 139 countries, aim to be in **top 25 by 2030**, driven by transformative initiatives:
- **Enhance logistics performance**
 - Implementing strategic initiatives that streamline operations
 - Improve efficiency across all modes of transport
 - **Establishment of integrated digital logistics systems**
 - Standardization of processes to ensure consistency and reliability in logistics services

PM GATI SHAKTI VISION – SUPPORTING GOVT. POLICIES & REFORMS (2/3)

Other govt policies and reforms are transforming infra across roads, renewable energy, aviation, oil and gas sectors with strategic policies, tech integration, initiatives for improved efficiencies in transportation and enhanced connectivity nationwide

ROAD

Govt Plans/ Policies

Initiatives

- Bharatmala Pariyojana
 - Network of 35 Multimodal logistics park
- Toll collection efficiency improvement
 - Land acquisition
 - E-way bill system
 - Electronic toll collection
 - Hybrid annuity model
 - Viksit Bharat 2047
 - Toll-operate-transfer (TOT) model
 - Payment reforms

RENEWABLE ENERGY

Govt Plans/ Policies

Initiatives

- Net zero by 2070
 - National Electricity Plan
 - Renewable Energy bidding trajectory of 50GW per annum
 - Rooftop Solar Program
 - Offshore wind energy policy
 - Building solar parks
 - Green Hydrogen
- Renewable Generation Obligation (RGO)
 - Renewable Purchase Obligation trajectory
 - National Wind Solar Hybrid Policy
 - ISTS charges waiver
 - National framework for energy storage
 - Green energy open access rules

AIRPORTS/AVIATION

Govt Plans/ Policies

Initiatives

- Asset-based expansion
 - UDAN scheme
 - National Civil Aviation Policy
 - Developing India as an MRO hub
 - Drones policy
 - Vision 2040
 - India to be a transit hub for South Asia
- AERA amendment bill
 - National air cargo policy
 - Digi Yatra for biometric-based travel
 - 100% Foreign Direct Investment
 - 31 States and Union Territories now levy 1%-5% VAT on Aviation Turbine Fuel

OIL & GAS

Govt Plans/ Policies

Initiatives

- Oil and gas exploration
 - Expand Refining capacity
 - 100 mio tonnes of coal gasification
 - Strategic Petroleum Reserve Program
 - Increase LNG terminals
 - Expand gas and pipeline infrastructure
 - City Gas Distribution
- Hydrocarbon Exploration Licensing Policy
 - Rationalise gas pipeline tariff structures
 - National Policy on Bio Fuels
 - Production Sharing Contract (PSC)
 - Discovered Small Field Policy
 - Early Monetization policy of Coal Bed Methane

PM GATI SHAKTI VISION – SUPPORTING GOVT. POLICIES & REFORMS (3/3)

Other govt policies and reforms are transforming infra across telecom, railways, metro, ports and power transmission with strategic policies, tech integration, initiatives for improved efficiencies in transportation and enhanced connectivity nationwide

TELECOM

Govt Plans/ Policies

Initiatives

- Optical fibre cable infrastructure plans
 - 5G subscriber addition targets
 - Prime Minister Wi-Fi Access Network Interface (PM-WANI)
 - Reducing digital divide
 - Localized manufacturing
 - Skilled workforce
- Reforms supportive of operators and attracting investments
 - Licencing-related changes
 - Mobile and Satellite Communication policy
 - Deregulation of Foreign Direct Investment (FDI) norms

RAILWAYS

Govt Plans/ Policies

Initiatives

- National Rail Plan
 - Mission 3,000MT of cargo
 - 3 economic rail corridors
- Merging railway budget with Union Budget
 - Revised Private Freight Terminals policy
 - Amrit Bharat station scheme for redevelopment
 - Semi High Speed Train ecosystem
 - Gati Shakti Multi-Modal Cargo Terminal policy

METRO RAILS

Govt Plans/ Policies

Initiatives

- Metro rollout based on population
 - Metro Rail Policy
- National Urban Transport Policy (NUTP)

PORTS

Govt Plans/ Policies

Initiatives

- Sagarmala program
 - Maritime India Vision 2030 (MIV 2030)
 - Digitisation of ports
 - National Multimodal Facilities and Warehousing
 - Coastal shipping bill
 - Amrit Kal 2047
- Competitiveness of Indian ships
 - Ease of doing business
 - Major Port Authorities
 - Model Concession Agreement for PPP projects
 - FDI
 - Monetization Plan

POWER TRANSMISSION

Govt Plans/ Policies

Initiatives

- Draft transmission capex plan
 - Transmission opportunity for new thermal capacity
 - Transmission system for offshore wind
 - Hydrogen economy and infra
- National Committee on Transmission
 - CTU transmission network
 - Late Payment Surcharge Rules
 - Transmission charges and incentives
 - Open access in transmission

KEY ACCOMPLISHMENTS UNDER PM GATI SHAKTI (1/5)



As of 2024, 434 projects worth 124.1 bln EUR have been evaluated, including the construction of 146 thsd kms of national highways, building 159 new airports, adding 1.5 bln tonnes of rail cargo capacity and 1.6 bln tonnes of port cargo capacity



ROAD

CONSTRUCTION OF NATIONAL HIGHWAY (thsd kms)

Target 2025 announced in 2021

200

Status-quo as of 2024

146

8,891 km
of planned roads



RAIL

CARGO CAPACITY IN RAILWAYS (mio tonnes)

Target 2025 announced in 2021

1,600

Status-quo as of 2024

1,591

27,000 km of planned
railway lines
434 projects identified across
3 railway economic corridors



AVIATION

CONSTRUCTION OF AIRPORTS (no. of airports)

Target 2025 announced in 2021

220

Status-quo as of 2024

159

Aviation ministry developing tool
**to integrate airspace, India
Meteorological Department
data into Gati Shakti**



PORT

CARGO CAPACITY IN PORTS (mio tonnes)

Target 2025 announced in 2021

1,759

Status-quo as of 2024

1,630

10% - 20% modal shift to
waterways by 2030

434 infrastructure projects valued at 124.1billion EUR evaluated under 3 major economic corridor programs: Energy, Mineral, and Cement Corridors; Port Connectivity Corridors; and High Traffic Density Corridors

KEY ACCOMPLISHMENTS UNDER PM GATI SHAKTI (2/5)



Significant strides include identifying 24,680 villages for 4G saturation, progressing 35,750 km of pipelines, achieving 491 thsd ckms of transmission lines, and aligning 13 GW of renewable energy with the Green Energy Corridor



TELECOM

CONNECTION OF GRAM PANCHAYATS (no. of Gram Panchayats in thsd)

Target 2025 announced in 2021

264

Status-quo as of 2024

214

24,680 villages identified
for 4G saturation



ENERGY

RENEWABLE ENERGY INSTALLED CAPACITY (GW)

Target 2025 announced in 2021

225

Status-quo as of 2024

203

13 GW Renewable energy project from Leh
(Ladakh) to Kaithal (Haryana) **achieved
optimal alignment of 'Green Energy Corridor'
for inter-state transmission**

LENGTH OF PIPELINES (kms)

Target 2025 announced in 2021

34,500

Status-quo as of 2024

24,945

10,805
Under
Construction

35,750

TRANSMISSION LINES (thsd ckms)

Target 2025 announced in 2021

454

Status-quo as of FY '24

491

KEY ACCOMPLISHMENTS UNDER PM GATI SHAKTI (3/5)



PM Gati Shakti has integrated GIS, Digital Twins, and AI-powered analytics technologies; it has reduced significant time in project approval and report generation

TECH INTEGRATION



Leveraged Geographic Information System (GIS) with **1,600+ data layers** for real-time decision-making



Digital Twin technology is used to create virtual replicas of infrastructure, facilitating real-time monitoring, and project execution



AI-powered analytics for optimizing infrastructure planning, identifying potential bottlenecks, and project efficiency through predictive modelling and real-time adjustment



Faster project approvals and **reduced delays**, ensuring on-time and within-budget completion



Streamlined process for Detail Route Survey (DRS), reducing time to create reports from **6-9 months to just 1 day** using electronic DRS (e – DRS)

KEY ACCOMPLISHMENTS UNDER PM GATI SHAKTI (4/5)



State-driven initiatives under PM Gati Shakti include Gujarat's planned 300 km coastal road and streamlined permissions process, Uttar Pradesh identifying locations for new schools in underserved areas, and Goa developing a disaster management plan

STATE INITIATIVES



Gujarat planned a 300 km coastal corridor, reduced the number of NoC permissions for clearance from 28 to 13, and improved connectivity between four districts to boost tourism



Uttar Pradesh government employed State Master Plan (SMP) portal to identify locations for new schools in underserved areas via Pahunch Portal



Goa developed disaster management plan for flood-prone areas along Amona River

KEY ACCOMPLISHMENTS UNDER PM GATI SHAKTI (5/5)



PM Gati Shakti has strengthened social development by addressing infrastructure gaps, expanding educational opportunities, improving healthcare access, and fostering skill development through innovative collaborations in the education sector

SOCIAL



Identification of **infrastructure gaps for Particularly Vulnerable Tribal Groups (PVTG)** using PM JanMan portal



PM Shri Schools linked with local industries for district-specific **skill training**



Incorporated **over 10 lakh Anganwadi centers** into National Master Plan, improving planning, delivery of nutritional and educational services for children and mothers



Identification of internet shadow areas, mapped sites for new healthcare facilities



Identification of **suitable locations for new training** institutes near economic clusters



Under Gati Shakti Vishwavidyalaya initiative, signed MoU with Indian Navy, Airforce for Logistics related education and research and signed agreement with Airbus for Aerospace training

PM GATI SHAKTI – CASE STUDIES (1/2)



PM Gati Shakti has accelerated infrastructure development with Utility Right of Way (RoW) for Delhi-Mumbai Expressway, and streamlined Rail-Road Crossing Alignment approval systems portal for enhanced connectivity and efficiency



DELHI-MUMBAI EXPRESSWAY

■ Project background

- Project had a target of reducing travel time from 24 hours to 12 hours between Delhi and Mumbai
- Infrastructure planning faced challenges such as fragmented coordination, repetitive utility work, delays, resource inefficiencies which as a result leading to extended timelines and higher costs

■ Benefits of PM Gati Shakti Initiative

- Utility Right of Way (RoW) **eliminated need for separate utility alignments** and reduced timeline for utility work
- Saved significant time and resources by avoiding **repeated disruptions** during project execution

■ Target and status quo as of June 2024

- Approximately **82%** of the construction has been completed, with 1,136 kms already built across various segments
- Expected to benefit **93 PM Gati Shakti economic nodes, 13 ports, 8 major airports, and 8 multi-modal logistics** parks, enhancing trade and logistics efficiency

RAIL-ROAD CROSSING ALIGNMENT DRAWING APPROVAL SYSTEM

■ Background and challenges

- Lack of inter-departmental coordination caused significant delays and duplicated efforts in rail-road crossing approvals, which previously **averaged minimum 6 months**
- This often led to project restarts or abandonment due to missing approvals resulting in wasting resources

■ Benefits of PM Gati Shakti Initiative

- New online portal streamlines rail-road crossing approvals by consolidating drawings and guidelines
- Standardized designs for over and under bridges minimize redundancy and expedite the process
- Shift to an online system reduces manual intervention and improves efficiency
- Reduced **approval time to 2–3 months**, accelerating bridge construction timelines

PM GATI SHAKTI – CASE STUDIES (2/2)



Implementation of Trans-Haryana Corridor was accelerated with the Right of Way for utilities, resulting in faster project completion, while the digital environmental clearance system reduced clearance time from 600 days to 162 days

TRANS – HARYANA CORRIDOR

■ Background

- 6-lane greenfield expressway spread across 227 kms, initiated under Bharatmala Pariyojana aimed to reduce congestion and improve logistics efficiency
- The project faced challenges such as fragmented planning, repetitive utility digging, and delays in execution, resulting in extended timelines and resource wastage

■ Benefits of PM Gati Shakti Initiative

- Integrated corridor approach
- Right of Way (RoW) for utilities like pipelines, cables, and electricity lines was acquired alongside the expressway RoW
- Streamlined execution processes, minimized disruptions, and eliminated repetitive work, resulting in significant time cost savings
- Completed in 2022, corridor now serves as a vital link in the Ambala-Kotputli Economic Corridor

ENVIRONMENTAL CLEARANCE SYSTEM

■ Background

- Previously, obtaining environmental clearance for projects was a lengthy process, averaging around 600 days

■ Solution and benefits under PM Gati Shakti Initiative

- The Ministry of Environment, Forest, and Climate Change (MoEF&CC) implemented an online system to streamline the submission of environmental clearance applications

■ Benefits

- ▶ **Expedited Process:** The average processing time has been significantly reduced from approximately 600 days to 162 days
- ▶ **Increased Transparency:** Online submission and tracking are expected to enhance transparency in the process
- ▶ **Facilitated Decision Making:** Faster processing is expected to lead to quicker project approval decisions

KEY CHALLENGES IN IMPLEMENTATION OF PM GATI SHAKTI

Overcoming challenges by eliminating data-sharing limitations between government agencies and private companies, increasing state participation in using PM Gati Shakti tool for infrastructure projects, and ensuring data accuracy for smoother execution across country



Data Sharing Limitations

- **Data-sharing limitations** between **government agencies** and **private companies** **impede** quick **decision-making** and **project planning**
- **Concerns** regarding **misuse** of **sensitive infrastructure data** for monetization

*“PPPs (Public-Private Partnerships) and assistance to the private sector in project planning, along with **access to relevant data and maps from the PM Gati Shakti portal, will be provided.**”*

– FM Nirmala Sitharaman, Union Budget 2025

Addressed in Union Budget 2025



Limited Alignment Between State & Central Governments

- **Limited participation from states for onboarding state infrastructure projects** for PM Gati Shakti digital planning tool
- **Only 9 states and UTs** including Madhya Pradesh, Tamil Nadu, Uttar Pradesh, Nagaland, Gujarat, Manipur, Uttarakhand, Andaman & Nicobar, Puducherry and Arunachal Pradesh are **actively using PM Gati Shakti tool**



Validation of Data

- Challenge of ensuring **accuracy and reliability of data used in planning** and **executing** infrastructure projects; inconsistent or outdated data can lead to poor decision-making and ineffective project management

FUTURE PROSPECT



The PM Gati Shakti roadmap outlines the future of private sector involvement, expanding its reach to district-level projects and fostering international collaboration to drive scalable and sustainable infra growth, while establishing global standards for partnerships



PRIVATE SECTOR PARTICIPATION

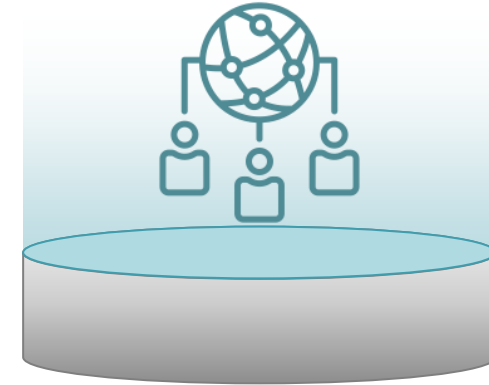
- Initiative is expected to open avenues for **increased private sector involvement**, optimizing planning and execution
- **By providing access to comprehensive data from the Gati Shakti portal**, private entities can contribute expertise and resources, expediting infrastructure development
- Using **data layers from various ministries**, including transport and logistics infrastructure, will help **private sector enhance last-mile delivery, develop smart solutions**, and improve decision-making in logistics and healthcare planning

Addressed in Union Budget 2025



DISTRICT LEVEL PROJECT ADMINISTRATION

- **District Master Plan** launched for integrated infrastructure planning in **27 districts**, with plans to scale up and cover over **750 districts** nationwide within **18 months**, ensuring synchronized growth
- **Future phases of PM Gati Shakti will prioritize district-level projects**, ensuring effective infrastructure growth across all regions
- Promoting inclusive development that addresses local needs and fosters regional equity



INTERNATIONAL COLLABORATION

- **Government plans to take PM Gati Shakti scheme global**
- Ongoing **discussions for initial collaboration** with Nepal, Bangladesh, Sri Lanka, Madagascar, Senegal, and Gambia

REACH OUT TO US!



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