

RTC

Reducing Traffic Congestion

Smarter Roads | Safer Journeys | Better Tomorrow



Reduced
Congestion



Improved
Safety



Data Driven
Decisions



Better Mobility
Better Life



Presentation on the occasion of
**4th Edition of Safe City and
Intelligent Mobility India 2026 Summit**



Under theme of
**Intelligent Traffic Management
and Smart Mobility**



Presentation by

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Additional Director General of Police

Traffic Directorate, Uttar Pradesh, Lucknow



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Director General of Police,
Uttar Pradesh

— THE VISION BEHIND **RTC** —



Vision of DGP Shri Rajiv Krishna, IPS:

- Urban traffic is not the same throughout the day.
- **Peak hours** bring heavy congestion, while **lean hours** see smoother flow.
- Traffic conditions **vary across different parts** of the city.
Some routes are more congested, some less congested – each route has its own **complexities**.
- This needs a smart, technology-driven and adaptive strategy.
- To address these challenges, the **RTC Plan** was conceptualised.



PEAK vs LEAN HOURS



TECHNOLOGY-DRIVEN
TRAFFIC MANAGEMENT



ADAPTIVE & SMART
STRATEGY



Result: Conceptualisation of **RTC Plan**

An innovative and proactive approach to keep cities moving, safer and congestion-free.



*RTC Plan is the result of visionary thinking, innovative planning
and able leadership of **DGP Shri Rajiv Krishna, IPS.***

RTC – REDUCING TRAFFIC CONGESTION

A Statewide Data-Driven Smart Mobility and Real-Time Traffic Intelligence Framework

INTRODUCTION TO RTC

RTC (Reducing Traffic Congestion) is a first-of-its-kind initiative launched by Traffic Directorate, Uttar Pradesh Police in **April 2026**.

It is a statewide, data-driven smart mobility programme designed to transform traffic management from reactive enforcement to proactive congestion management through scientific route identification, real-time monitoring, travel time analytics and route-specific interventions.

The initiative aims to reduce recurring congestion and improve travel experience across urban corridors.

RTC BASIC



What is RTC Scheme?

A statewide, data-driven smart mobility initiative based on route identification, travel time analysis, real-time monitoring, route-specific interventions and measurable outcomes to reduce traffic congestion and improve mobility.



Since when operational?

Launched in **April 2026**



Implemented by

Traffic Directorate, Uttar Pradesh Police



Coverage

20 Districts | **172** Critical Routes

RTC – MAIN POINTS

1



Statewide Initiative

First-of-its-kind police-led congestion reduction programme.

2



Data-Driven Approach

Uses Travel Time Analytics (Min, Avg & Max). MTT is the key indicator.

3



Real-Time Monitoring

Continuous monitoring and identification of congestion hotspots.

4



Accountability Framework

AOR model & Route Marshal system ensure route-level accountability.

5



Route-Specific Interventions

Customised actions on enforcement, engineering, awareness & e-rickshaw.

6

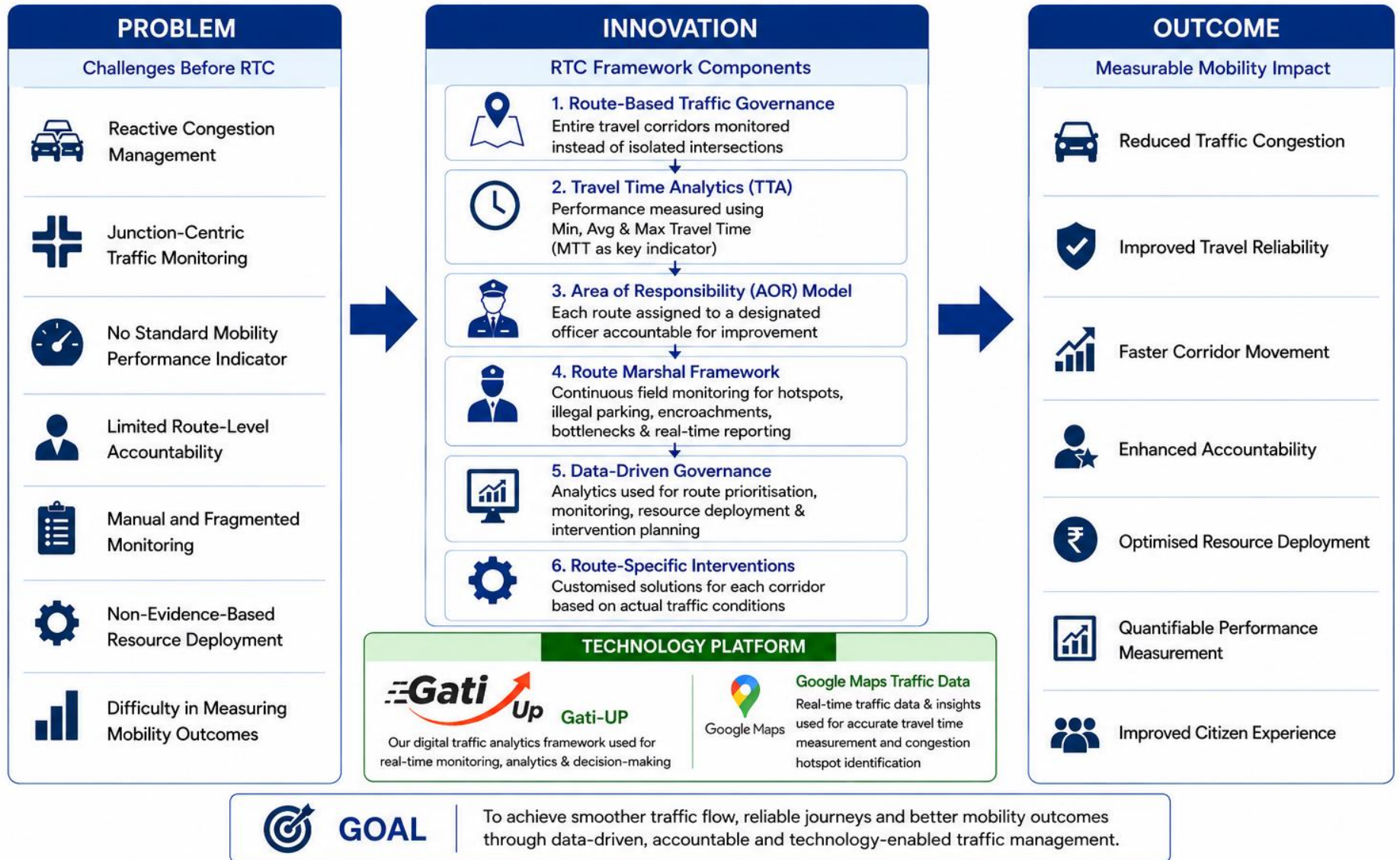


Technology Platform

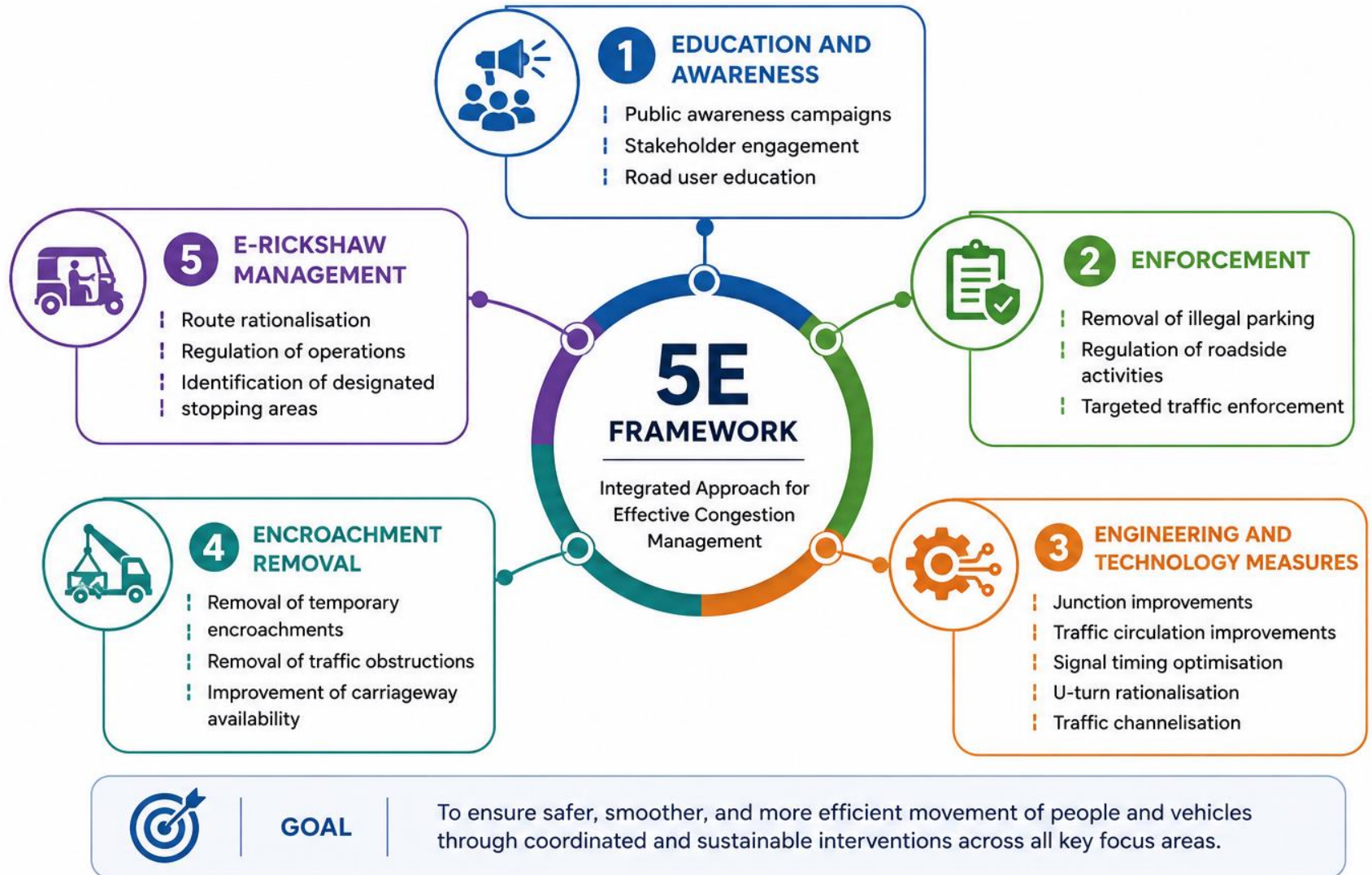
Integrated with Gati-UP for analytics, dashboards & data-driven decisions.

RTC FRAMEWORK

From Reactive Traffic Management to Data-Driven Mobility Governance



RTC INTERVENTIONS IMPLEMENTED UNDER FIVE PILLARS (5E)



RTC – SMARTER TRAFFIC MANAGEMENT THROUGH INNOVATION & DIGITAL WORKFLOW

TECHNOLOGY INNOVATION / नवाचार



UP Gati – A web based application developed and **fully funded through CSR.**



USER FRIENDLY

Intuitive, easy to use and accessible for all.



ACCESS FOR ALL FIELD OFFICERS

Dedicated link provided to all field officers.



NO MANUAL DATA ENTRY

No data feeding required by field officers.



HISTORICAL DATA ANALYSIS

Analyses historical data and identifies congestion when travel time exceeds the defined benchmark.



REAL TIME DATA FROM GOOGLE

Real time traffic data is sourced directly from Google.



REAL TIME MOBILE MONITORING

Monitoring of routes and congestion in real time through mobile phones.



AUTOMATED MONTHLY REPORTS

System automatically generates monthly reports and analytical insights.



FIRST TIME QUANTIFICATION OF "JAM"

For the first time, 'Traffic Congestion (Jam)' has been analysed as a quantifiable parameter.

DIGITAL WORKFLOW

1 ROUTE IDENTIFICATION



Identify key corridors / routes based on traffic volume, user demand and prioritization.

2 TRAVEL TIME ANALYSIS



Analyse travel time across routes during different time periods using data analytics.

3 CONGESTION POINT MAPPING



Map congestion points and bottlenecks using heat maps, GIS and field inputs.

6 FIELD VERIFICATION



Conduct field verification to validate data, observe ground realities and collect feedback.

5 AOR ASSIGNMENT



Assign Area of Responsibility (AOR) to concerned officers / teams.

4 ROUTE MARSHAL DEPLOYMENT



Deploy Route Marshals at critical locations for real-time monitoring and coordination.

7 TARGETED INTERVENTION



Implement targeted measures such as signal optimization, diversion, enforcement, infrastructure changes.

8 PERFORMANCE REVIEW



Review performance regularly using KPIs, dashboards and real-time data.

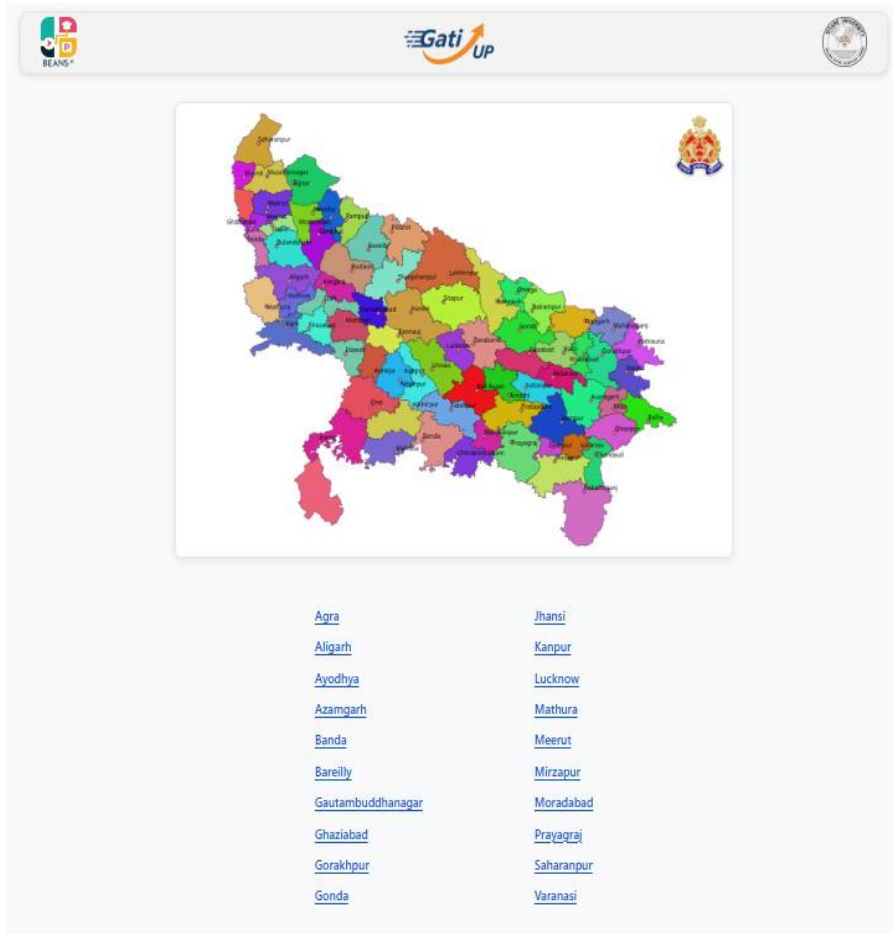
9 OUTCOME ASSESSMENT



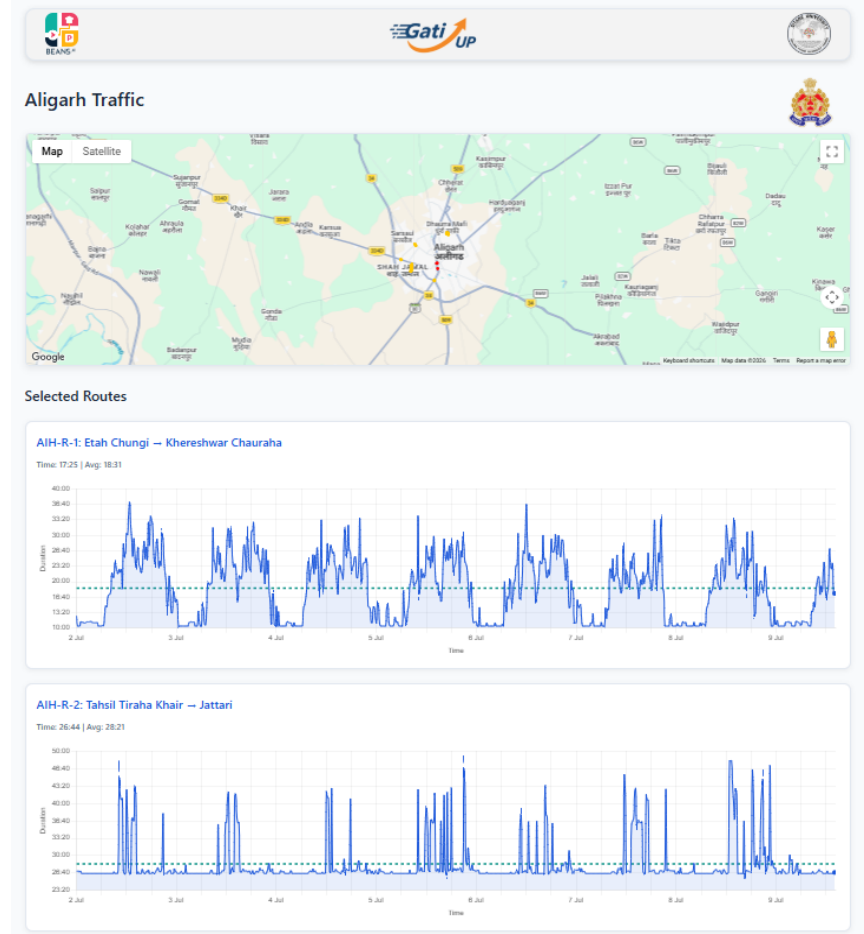
Assess outcomes in terms of reduced travel time, less congestion, improved safety and better citizen experience.

Gati UP : Process for Using the Link

Click on the provided link to display the following screen.



On the first screen, click on the name of the desired district to display the following screen.



RTC PERFORMANCE – AUGUST 2026

TOP 10 DISTRICTS – PERFORMANCE OVERVIEW



TOTAL CHOKE POINTS
MARCH 2026

9,754



TOTAL CHOKE POINTS
JULY 2026

4,539



OVERALL REDUCTION
(MARCH TO JULY 2026)

-53%



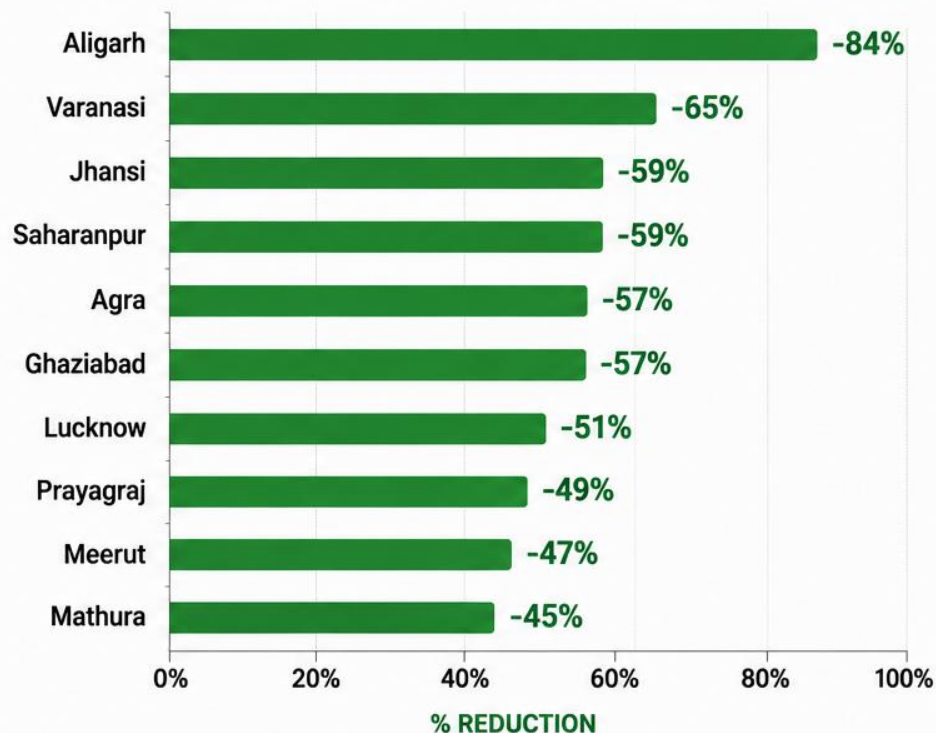
TOP PERFORMER
ALIGARH

-84%

TOP 10 DISTRICTS BY % REDUCTION IN CHOKE POINTS

RANK	DISTRICT	MARCH 2026	JULY 2026	% CHANGE (REDUCTION)
1	Aligarh	655	107	-84%
2	Varanasi	954	334	-65%
3	Jhansi	1559	638	-59%
4	Saharanpur	775	321	-59%
5	Agra	919	397	-57%
6	Ghaziabad	496	215	-57%
7	Lucknow	995	489	-51%
8	Prayagraj	1073	546	-49%
9	Meerut	758	403	-47%
10	Mathura	705	391	-45%

% REDUCTION IN CHOKE POINTS (TOP 10 DISTRICTS)



IMPACT ON URBAN MOBILITY

RTC has contributed towards measurable improvements in traffic flow, mobility and governance

01 Congestion

Reduction in
Congestion
Hotspots

02 Mobility

Improved
Corridor
Performance

03 Travel

Faster Travel
Movement

04 Commuters

Improved
Commuter
Experience

05 Infrastructure

Better Road
Utilisation

06 Accountability

Enhanced
Accountability

07 Governance

Data-Driven
Governance

08 Sustainability

Sustainable Traffic
Management

RTC is enabling more efficient, accountable and data-driven urban traffic management.

RTC → SDG IMPACT

— Driving Sustainable, Safer & Smarter Urban Mobility —



COLLECTIVE IMPACT



Reduced
Congestion



Improved
Safety



Better
Mobility



Lower
Emissions



Sustainable
Cities

Selected newspaper coverage highlighting the impact of the RTC initiative

Times of India

AI-based analytics platform helps cut traffic congestion

- RTC (reducing traffic congestion) system is AI-enabled, Google-based, real-time traffic analytics
- Predicts and detects congestion instantly
- Live travel-time monitoring every two hours

HOW RTC WORKS

- Monitors actual vs average travel time
- AI flags congestion hotspots automatically
- Real-time alerts to traffic officials
- Enables immediate

- 74 major routes
- 710 km monitored
- Across all UP Police Commissionerates
- Thousands of traffic data points

TRAFFIC REDUCTION (34 sec.-Jul. 15, 2005)

- | City | Share of total cases |
|-----------|----------------------|
| Prayagraj | 44.92% |
| Ghaziabad | 43.15% |
| Varanasi | 20.75% |
| Lucknow | 13.67% |
| Kanpur | 13.19% |
| Azamgarh | 10.00% |

KEY INTERVENTIONS

- Scientific route mapping
- Travel-time analysis
- Congestion mapping
- Route marshals
- Area-wise officers
- Daily data review

Times News Network

Lucknow: Uttar Pradesh Police has reported a marked drop in traffic congestion across the state's police commissionerates after rolling out its Artificial Intelligence-based project, Reducing Traffic Congestion (RTC) initiative, an indigenously developed, Google-based real-time traffic monitoring system that monitors, predicts and helps manage road snarls using live data and

The technology-driven programme is being implemented in line with chief minister Yogi Adityanath's 'Smart City' vision, with a time-bound commitment. The RTC project is being led by director general of police Rajeev Krishna under the supervision of the director general of police (traffic) A Satish Ganesh, with the aim of introducing traffic-free, predictable traffic management and saving time.

According to the Uttar Pradesh Police Headquarters, the system will identify congestion hotspots, analyse traffic conditions in near real time and trigger timely interventions. "We are not just Officials said the system marks a departure from conventional approaches that rely on manual traffic checks, local experience and reactive deployment after

Pioneer

॥ आरटासा याजना स ट्राफक जाम स राहत

परिष्कारात्थः विशेषः

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Dainik Jagran

एआइ से लग रही ट्रैफिक जाम
पर लगाम, लखनऊ फिर पीछे

- भारतीय रेलवे के वार्षिक बजट (2013-14) और विगत-वर्ष का वार्षिक बजट के मध्यम से वास्तविक प्रवर्धन में बड़ा अंतरांतर किया है। पुलिस मूल्यांकन की ओर से लागू की गई विद्विष्टिपूर्ण टैक्निक कोलेज
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नोट्स का बदलना निम्नतर विधिवर 10000 के अनुसार प्रस्तावित है टैक्स जमाने में 44.92 प्रतिशत, गजिरीकरण में 43.15

प्रतिशत को क्या दर्शाते हैं।
अतः इसी सूची पुलिस द्वारा
निर्दिष्ट है। जो अगले तब
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 ही किसी बात पर विचार दायम
 है वहाँ उसके सम्मान अर्थात् सम्मान
 है अधिक ही जहाँ ही है उसे भी-सुख
 दायम इसलिए सम्मान-यहाँ सम्मान
 ही पर नहीं पर तब ही, जिसके
 मते सम्मान सम्मान नहीं है फिर
 सम्मान अधिक ही जहाँ ही है।

Hindustan

कुल 710 किमी सड़कों पर रियल टाइम निगरानी का परिणाम

एआई की मदद से सात शहरों में नियंत्रित हुआ ट्रैफिक जाम

राहत

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Amar Ujala

आरटीसी योजना से सार्वजनिक कमिशनरेट में घटी जाम की समस्या

[illegible]**Voice of Lucknow**

सात शहरों में एआई की मदद से नियंत्रित हुआ जाम

[illegible]



THANK YOU

THANK YOU FOR YOUR TIME
AND ATTENTION

From

A Satish Ganesh, IPS

Additional Director General of Police
Traffic Directorate, Uttar Pradesh Police
Lucknow