



raahgiri foundation
TRANSFORMING MOBILITY

“SAFE SADAQ” (Sustainable Mobility and Reformed Transport)

*Improving Road Safety & Mobility in INDIA
Challenges and Opportunities*

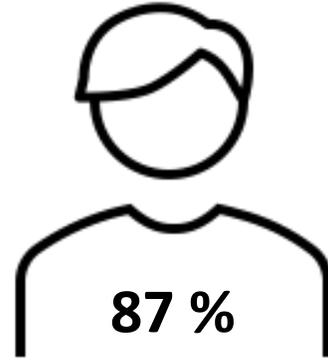
Global Road Infratech Summit & Expo
February 6, 2026

*Sarika Panda Bhatt
Founder Trustee - Raahgiri Foundation
Director - Nagarro*



THE UNSPOKEN STORY

EVERY YEAR
**ROAD
CRASHES**
IN INDIA CAUSE



	India
Daily	500
Hourly	20 +

LH group- **46%** highest number of crashes

Source: NCRB, 2024

A JUMBO JET = BOEING 747 = AIRBUS A380

CAPACITY 500 +



IMAGINE CRASHING 1 JUMBO JET EVERY SINGLE DAY

OR 30 JUMBO JET EVERY MONTH

OR 365 JUMBO JET EVERY YEAR

ROAD DEATHS

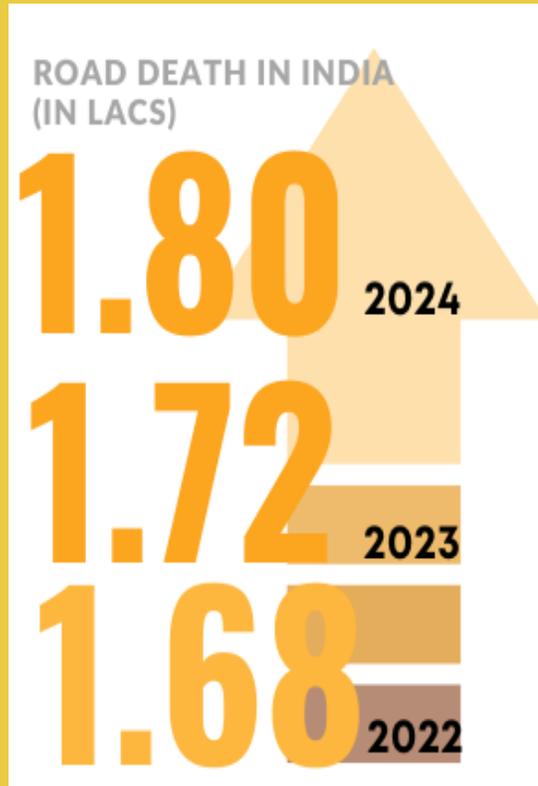
PER HOUR 20+

ROAD DEATHS

PER DAY 500

ROAD DEATHS

PER MONTH 15000



According to the World Health Organisation:

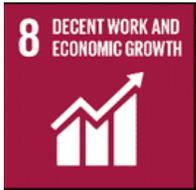
- The total number of road deaths globally **dropped 5%** in 2021 compared to 2010
- India recorded higher numbers of road crash related deaths going from 1.34lakh (11% of global deaths) in 2010 to 1.54lakh (**13% of global deaths**) in 2021, 1.68lakh in 2022, 1.80 lakh in 2024.
- **13** out of 100 deaths of global road crashes were from India
- Low and middle income countries make up 92% of the road crash related deaths globally
- India had almost 46% of the 3.3 lakh such persons killed in the entire South-East Asia Region
- the WHO has estimated the fatalities around 2.16 lakh considering the probability of many victims succumbing to road crash injuries months after meeting with the accidents.
- **European countries** using the safe systems approach saw a **36% decline** in road fatalities from 2010-21
- The number of global vehicles double during this decade, road networks expanded, and the population increased by 1 billion
- Road crashes are the number 1 cause of death for people between 5-29
- Number 12 cause of death for all age groups

WHY DOES INDIA FARE BADLY IN SAVING LIVES?

- Road Safety is a problem of the **individual**
- Lack of **empathy** toward other road users
- Lack of **Safe infrastructure** for pedestrians and cyclists in urban areas
- Poor quality of **road surface**
- **Highway-type** infrastructure built inside city limits
- **Speeding** by vehicles, lack of use of helmets and not following traffic rules due to **lax enforcement**
- Enforcement is not tech-driven
- **Low penalties** for violators
- Inadequate **post-crash** response
- **Data is lacking** – The true scale of the problem is rarely understood and usually underestimated
- **Lack of knowledge** – Limited understanding of what works and the ‘Safe System’ approach

■ What is being done the world over? ■

ROAD SAFETY AS AN ENABLER TO ACHIEVE SDGs

SDGs	Connection	Facts
    		<p>Safer transport access for woman</p> <p>Access to educational & economic opportunities</p> <p>Affordable transportation</p> <p>Transport accessibility</p>
		<p>Reduced traffic fatalities</p> <p>Lower risk for non communicable disease</p> <p>+ Access to outdoor recreational spaces + mental health</p>
		<p>Protection of vulnerable road users</p> <p>+ Political will for sustainability</p> <p>Reduced Noise pollution</p>
		<p>Improved air quality</p> <p>Reduced vehicle GHG</p>



Account for
Human
Error



Safety
Comes First



We are in
Together



Coordinated
Strategy

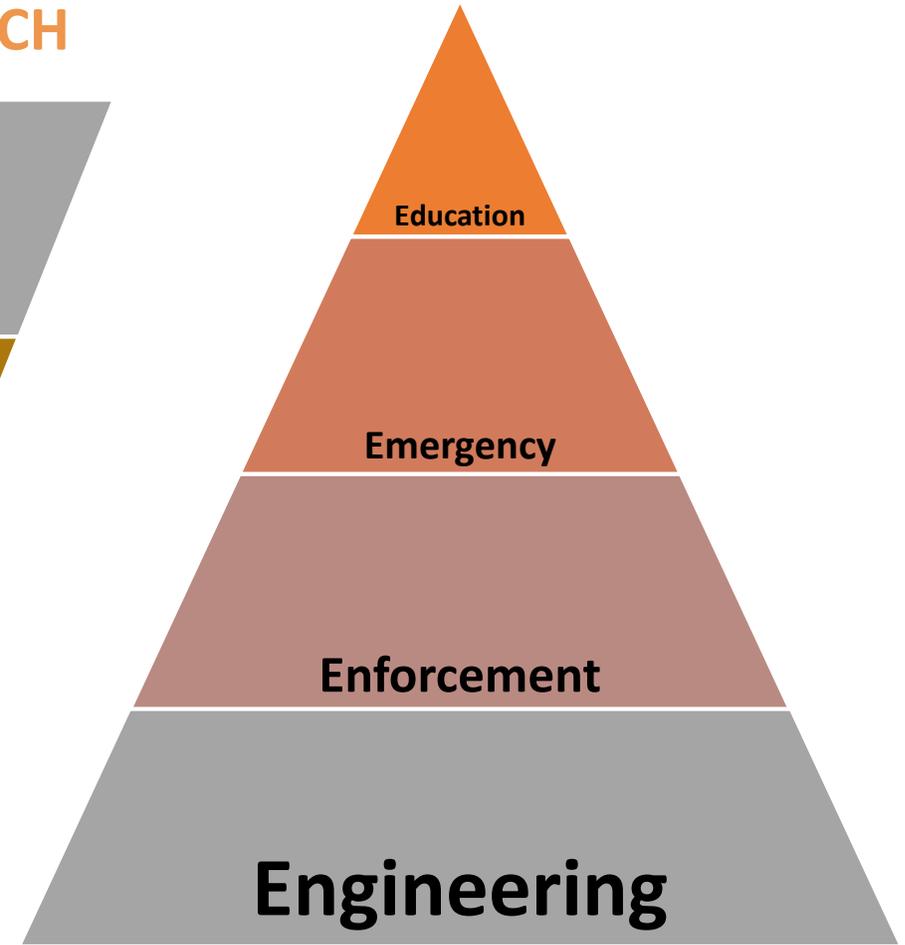
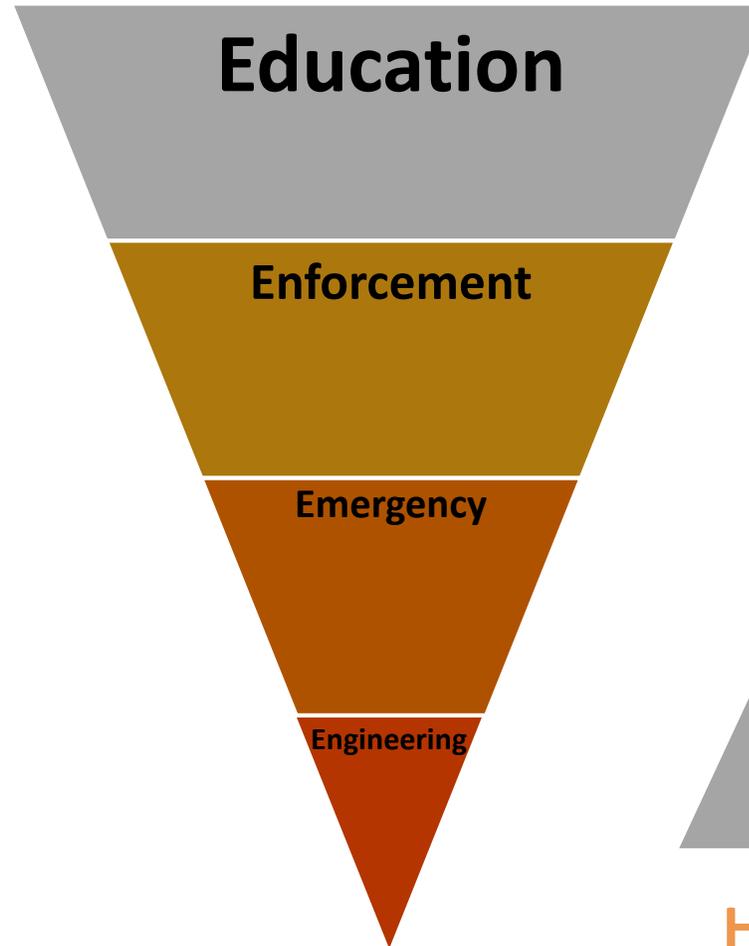


STRENGTHEN THE STATE ROAD SAFETY COMMITTEE



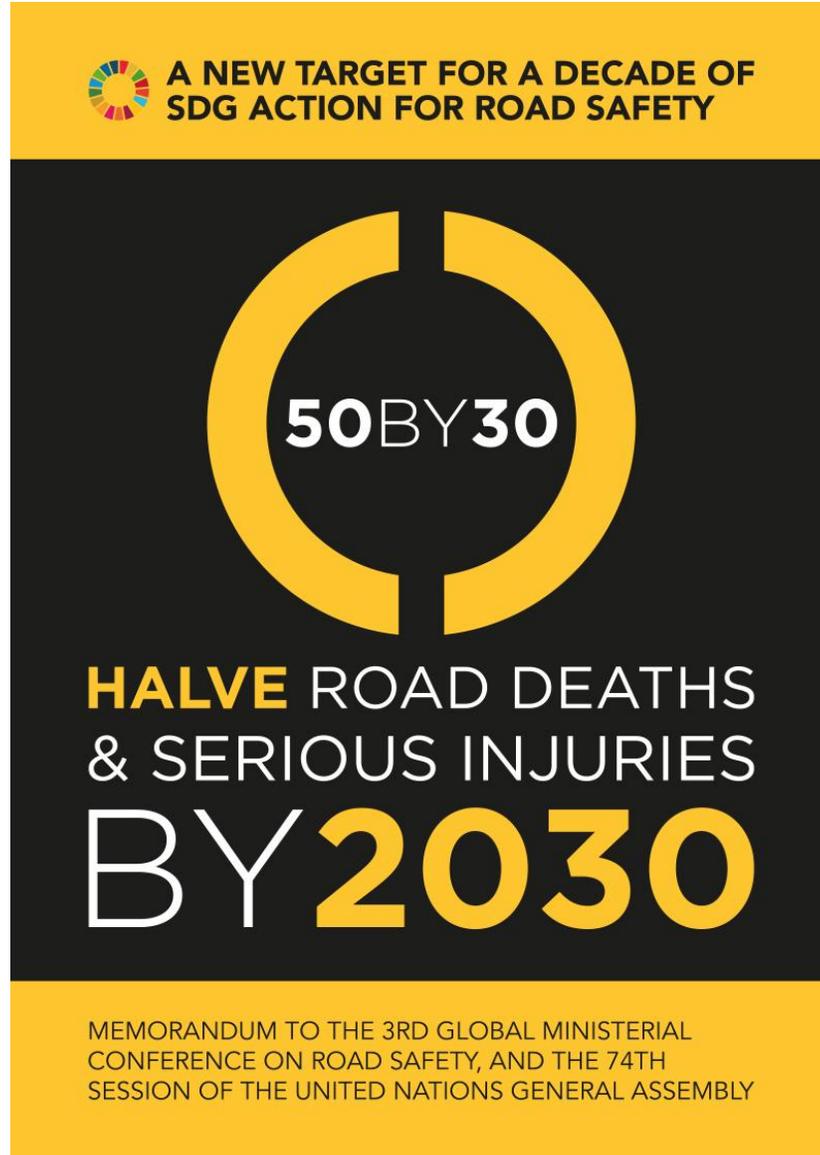
PRIORITIES IN ROAD SAFETY

TRADITIONAL APPROACH



HOW SHOULD WE APPROACH

Way Forward For India!



A NEW TARGET FOR A DECADE OF
SDG ACTION FOR ROAD SAFETY

50BY30

HALVE ROAD DEATHS
& SERIOUS INJURIES
BY 2030

MEMORANDUM TO THE 3RD GLOBAL MINISTERIAL
CONFERENCE ON ROAD SAFETY, AND THE 74TH
SESSION OF THE UNITED NATIONS GENERAL ASSEMBLY

The image shows the cover of a memorandum. It features a yellow header and footer. The main body is black. At the top left of the header is a small circular logo with multiple colored segments. To its right, the text 'A NEW TARGET FOR A DECADE OF SDG ACTION FOR ROAD SAFETY' is written in white. The central graphic is a large yellow circle with a vertical line through its center, containing the text '50BY30' in white. Below this, the text 'HALVE ROAD DEATHS & SERIOUS INJURIES BY 2030' is displayed, with 'HALVE' and '2030' in yellow and the rest in white. At the bottom of the footer, the text 'MEMORANDUM TO THE 3RD GLOBAL MINISTERIAL CONFERENCE ON ROAD SAFETY, AND THE 74TH SESSION OF THE UNITED NATIONS GENERAL ASSEMBLY' is written in white.



Nitin Gadkari Reaffirms India's Commitment to Drastically Reducing Road Accidents by The Year 2030

Union Minister for Road Transport & Highways and MSMEs Shri Nitin Gadkari has reaffirmed India's commitment to the United Nation's goal set under the UN Decade of Action of drastically reducing road accidents by the year 2030.

Addressing the "3rd High Level Global Conference on Road Safety for Achieving Global Goals 2030" in Stockholm in Sweden today, Shri Gadkari said, India is collaborating with stakeholders and other agencies who are assisting us by way of strengthening the capabilities of various institutions, enhancing awareness and improving our engineering designs for safer roads.



Video shows Gadkari apologising in Parliament over road accidents

Union Minister Nitin Gadkari apologised in Parliament over an increase in the number of road accidents and corresponding deaths, a video of which surfaced online. He said the number of road accidents in 2021 stood at 4,12,432, adding that the number increased to 4,61,312 in 2022. The number of accident-related deaths in 2022 was 1,68,491.

ACTION PLAN



• Pillar 1: Road Safety Management

1. Setting Up Crash Recording System
2. Integration, Management and Sharing of data
3. Setting up Post Crash Investigation Committee
4. Capacity Building of Stakeholder



• Pillar 2: Safer Road Infrastructure

1. Establish a specialist road safety unit
2. Speed Calming measures on Highways near inhabited areas
3. Design that reduces the need for vehicle travel in Urban areas
4. Other measures:
 - Provision of separate roads for non-motorized modes like pedestrian, cycle rickshaw, bicycles on all arterial roads and highways.
 - Providing truck lay bays and bus bays, shelters along State Highways.



• Pillar 3: Safer Vehicles

1. **Compulsory installation of GPS Device in Commercial Vehicles:** By installing GPS devices like Vehicle Black Box, there can be also check on rash driving (Speed, Breaking, accelerations, Sharp turns), and the emergency contact can be established through Emergency Calling, Panic buttons. This will keep check the safety and security of vehicle occupants and commercial vehicles used for **Fleets, Logistics, Deliveries, Buses**.
2. To increase visibility of reflective tapes at night as per AIS 090 standards



• Pillar 4: Safer Road Users

1. Contactless Enforcement System for Traffic Violations: Digitization of Database.
2. Modernization of Traffic Management System in cities
3. Introduction of community education initiatives
4. Youth road safety program | Safe to School – Safe to Home



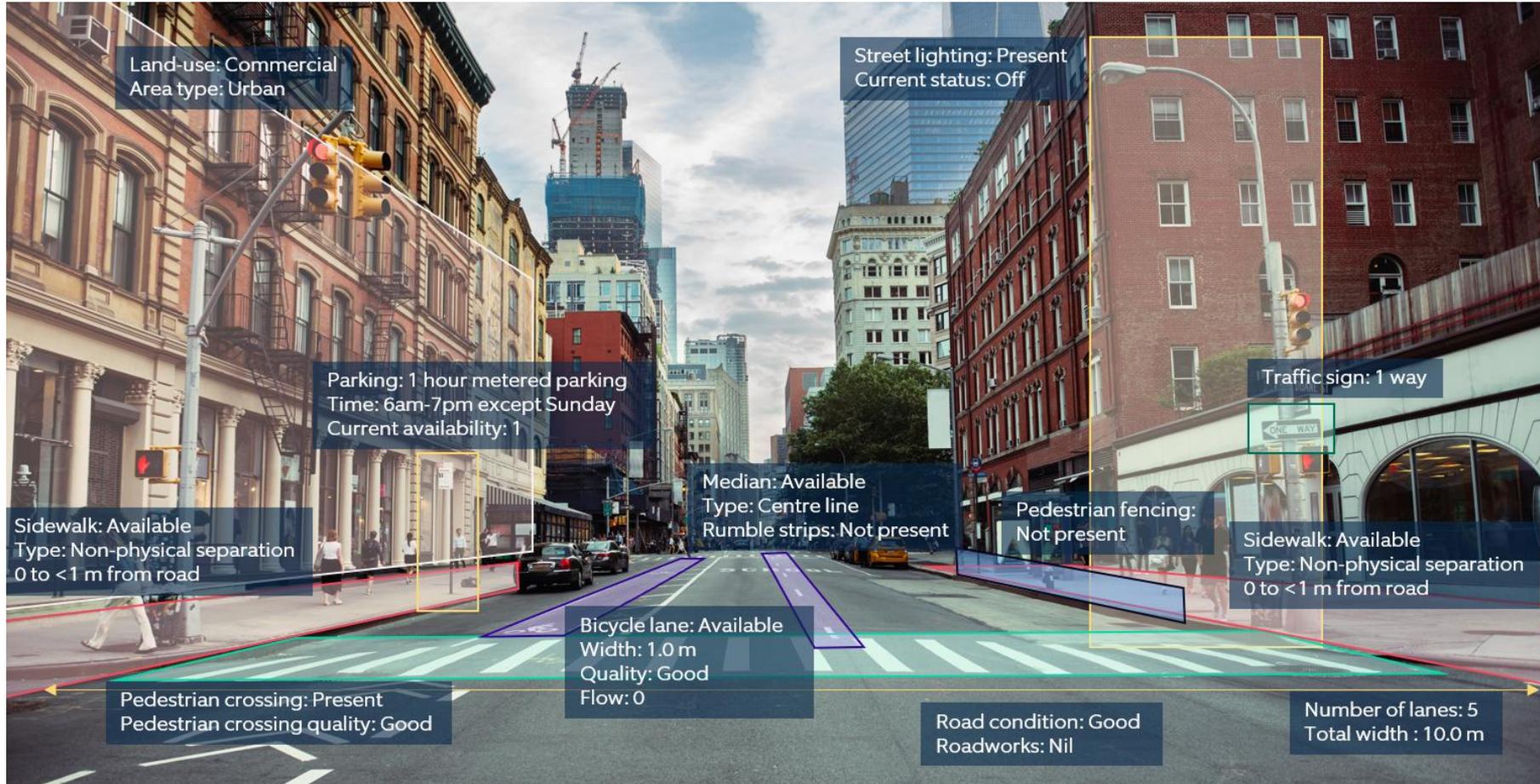
• Pillar 5: Emergency Care

1. Golden Hour Trauma Care Plan.
 - **Equipping State Traffic Control Room.**
 - **GPS Tracking Device enabled Emergency Vehicles**
 - **Upgradation of existing and new Trauma Care Centre**
 - **Development of Emergency Crash Care System**
2. Good Samaritans model

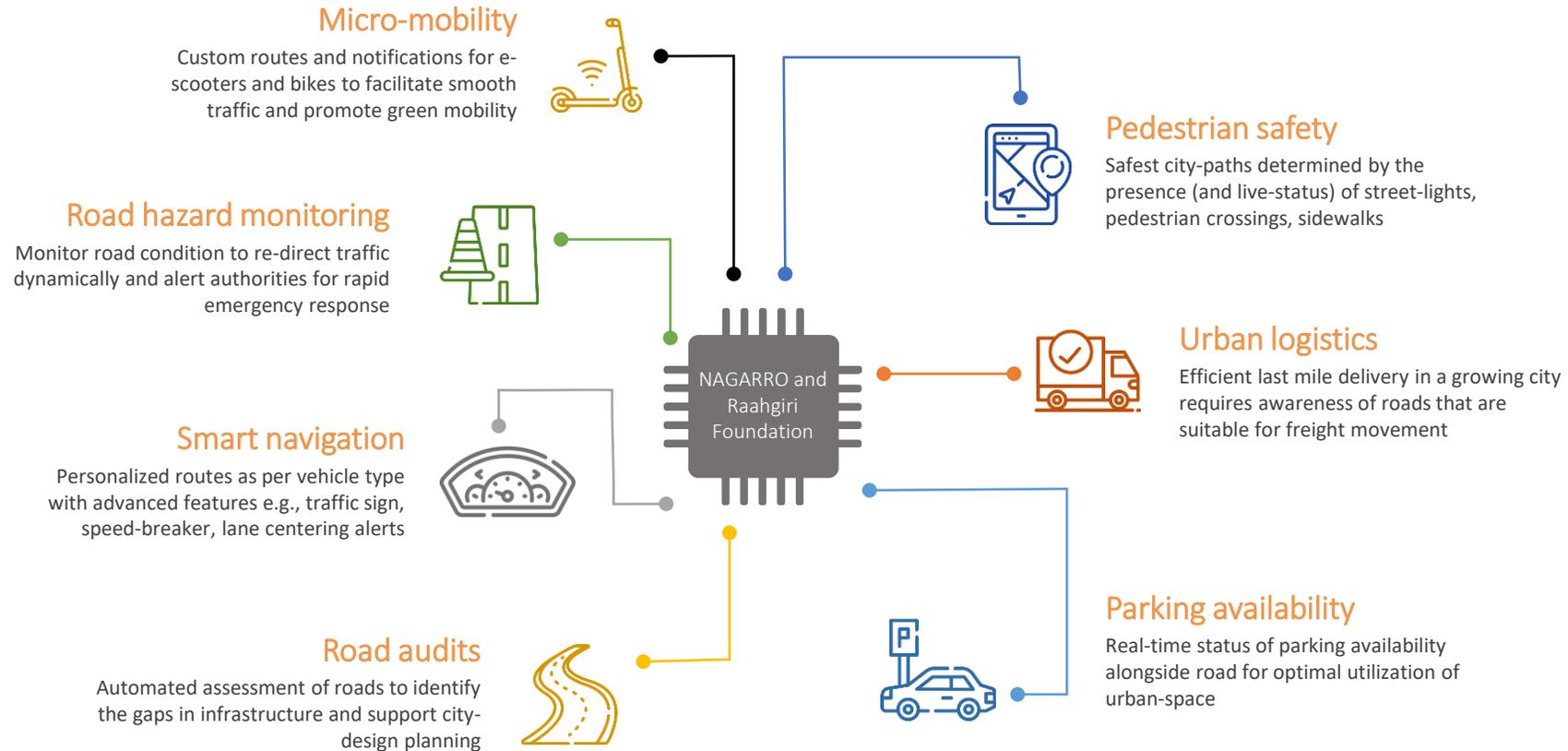


Technology and Road Safety

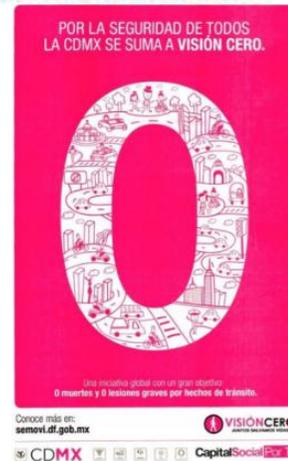
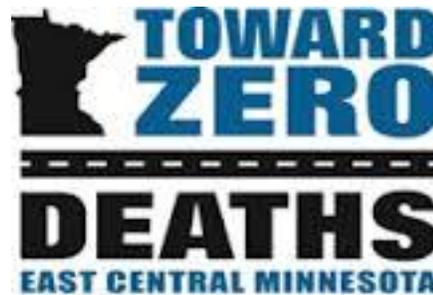
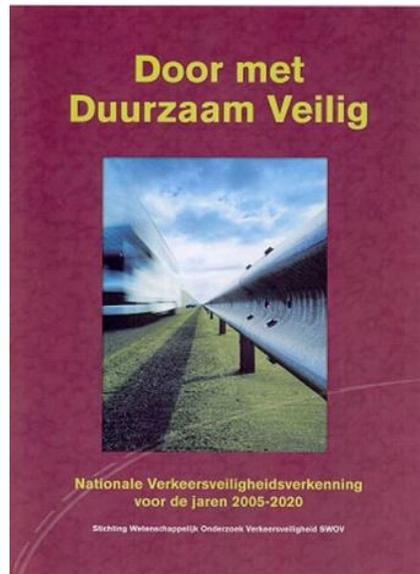
INROADS, our AI-based accelerator, can collect visual information and assess road-infrastructure in real-time. It can help create a live map of the city to detect anomalies and avoid potential mobility disruptions.



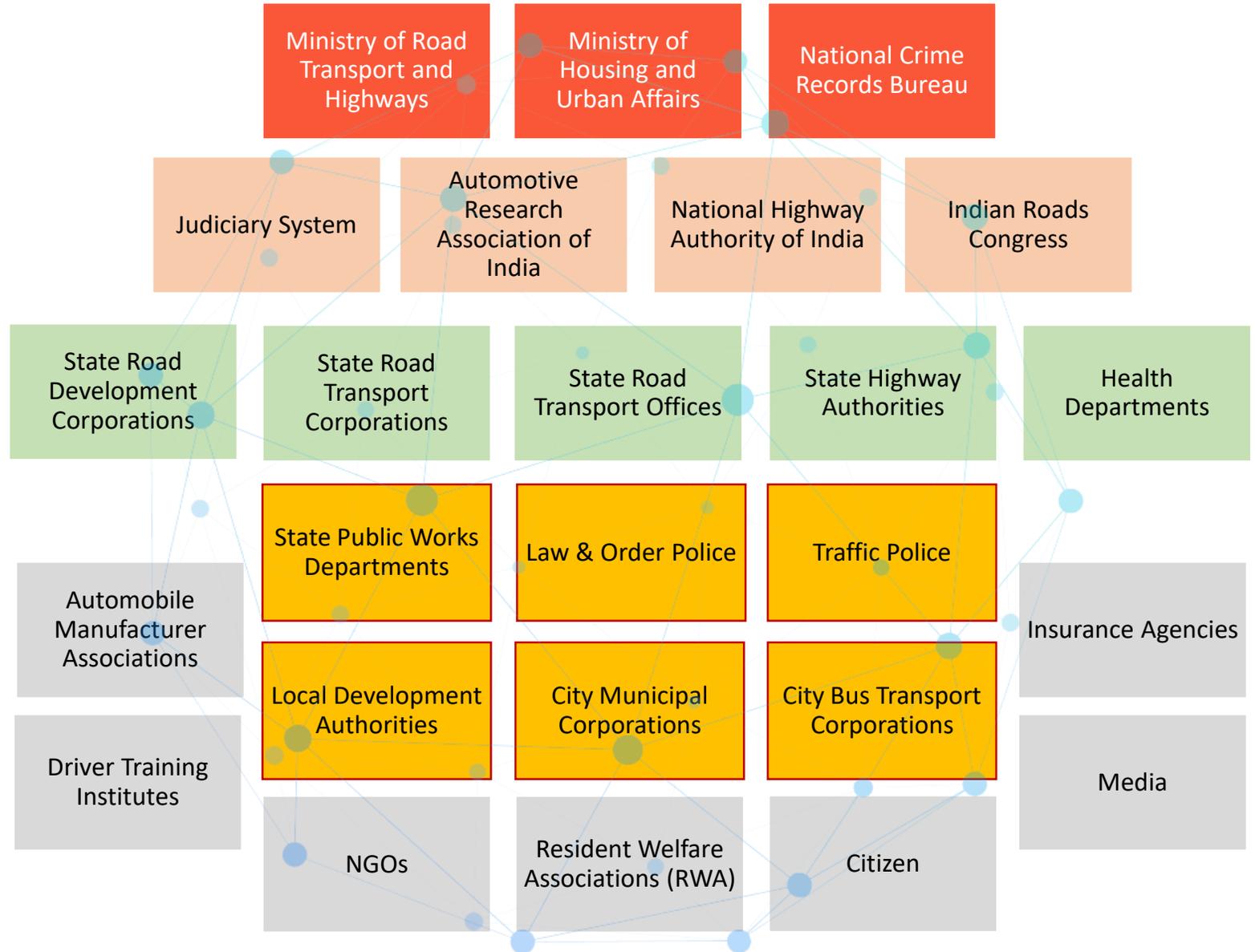
The rich information can create many opportunities that redefine future mobility



SAFE SYSTEMS ACROSS THE WORLD



NEED OF ROAD SAFETY BOARD



MISSION, VISION AND PILLARS

VISION

To create a world where urban streets are **vibrant**, inclusive **public spaces** that prioritize people over vehicles, ensuring **clean air** for all and fostering a culture of **sustainable living**.

MISSION

Through **Data, Safe & Sustainable Infrastructure And Collaboration**, Raahgiri Foundation's mission is to transform urban mobility and create livable, accessible, and equitable and climate resilient cities.

OUR PILLARS

1. **Road Safety:** Making streets safer for all road users.
2. **Air Pollution:** Promoting cleaner air through sustainable mobility.
3. **Gender and Mobility:** Enabling safe, equitable movement for all genders.
4. **Youth and Climate Change:** Empowering youth to lead climate action.
5. **Environmental Awareness:** Inspiring conscious choices for a greener future.



OUR WORK



Complete Street

- Sanath Road Gurgaon
- Sector 58-67 street Gurgaon
- Sector 44 street
- Sector 56 redesign
- MG Road GGN
- South City 1 street
- Faridabad Corridor



Vision Zero Program

- Gurugram Vision Zero
 - **20 Junction Redesigns under DRSC**
 - **Conducted 30 DRSC meetings**
- Tactical Intervention in Road safety
- Haryana Vision Zero
- Punjab Vision Zero



Clean Mobility

- Clean Mobility and Road safety in CAQM, Delhi
- **LEZ in Mathura Vrindavan**
- **LEZ in Varanasi**
- True Emission Studies Delhi and Gurgaon
- Clean Air Zone in Ludhiana
- EV Policy Odisha



Community Empowerment

- Raahgiri Days
- RoundTable conferences
- Podcasts
- Film Screening
- Stakeholder engagements
- Capacity Building workshops
- Publications
- Social Media engagements



Neighborhood Redevelopment

- Sarhaul Village
- Waste Management
- Sector 14
- Sadar Bazaar



In Road Safety We follow 6 E's

Engineering Smarter Road

- Embed safe engineering measures in road projects
- Institute RS auditing for new & existing roads
- Establish wayside amenities

Enforcing Traffic Safety

- Stricter enforcement
- Use of ITS gadgets for enforcement & Traffic Mgmt.
- Check overloading
- Traffic Incident Management

Educating road users & Stakeholders

- Road safety education to children with support of NGOs
- Capacity building workshops
- Awareness campaigns through media-electronic and print

Emergency Response

- Up-gradation of Trauma Care facilities
- Ensure transport of victims to hospital within 20 minutes
- Emergency Care Training

Engagement Strategies

- Collaboration and coordination among various stakeholders
- Regular training, drills, and communication protocols help ensure a cohesive response to road crashes.

Evaluation strategies

- Assessing key performance indicators, such as crash rates, injury severity, and fatalities, before and after the implementation of safety initiatives



GURUGRAM



VISION ZERO
SAFER STREETS SAVES LIVES



GURUGRAM



VISION ZERO
SAFER STREETS SAVES LIVES



Engineering Safer Road

Making pedestrian crossings safer.

- Activities
- 40 Zebra Crossings
 - 13 Rumble Strips
 - 50 Road Safety Signages
 - Badshahpur Safe School Zones

6E'S
OF ROAD SAFETY



Sustainable

Safer

Accessible

Inclusive



6E'S
OF ROAD SAFETY



Sustainable

Safer

Accessible

Inclusive



Educating Road Users & Stakeholders



- Awareness activities in 15+ schools and colleges, as well as corporates and other groups.
- 3600+ Students, and 1400+ public engaged with talks, short films, quiz and painting competition

GURUGRAM

VISION ZERO

SAFER STREETS SAVES LIVES



Engagement Strategies

- Cyclothon with 750+ cyclists and dignitaries
- 1000 Rickshaw No Honking Stickers and 200 Senior Citizen Stickers attached
- Bike Rally
- Republic Day Tableau (Jhanki) on Road Safety
- 🏆 Award Winning 🏆

6E'S
OF ROAD SAFETY



GURUGRAM

VISION ZERO

SAFER STREETS SAVES LIVES



Enforcing Traffic Safety

- Challans given during January 2025
- 1489 Challans for Drunk Driving
- 14170 Challans for Wrong Side
- 14179 Challans for No Helmet

6E'S
OF ROAD SAFETY



GURUGRAM



VISION ZERO
SAFER STREETS SAVES LIVES



सड़क दुर्घटना होने पर डायल करें



☛ यह नम्बर किसी भी मोबाइल फोन व टैबलैट पर डायल किया जा सकता है।
☛ यह नंबर नि:शुल्क है।

हस्तियाणा पुलिस सेवा सुरक्षा सड़क



Emergency Response

-Special campaign was also conducted against the drivers who did not give way to the ambulance and 162 vehicles were challaned in 2024
-In 2024, a total of 45 green corridors were given by the Traffic Police Gurugram. Out of which 9 were given for ambulances.



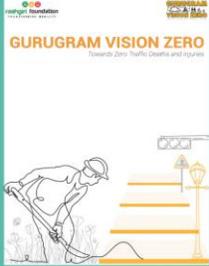
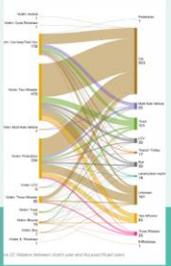
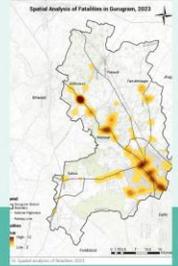
6E'S
OF ROAD SAFETY



GURUGRAM



VISION ZERO
SAFER STREETS SAVES LIVES



Evaluation Strategies

Gurugram Crash Report 2024



Gurugram Vision Zero 2024



6E'S
OF ROAD SAFETY



BEHAVIOUR IMPACT



Inside this circle



SHANKAR CHOWK TACTICAL TRIAL

BEHAVIOUR IMPACT



SAFE SCHOOL ZONE - BADSHAHPUR

BEHAVIOUR IMPACT

At
Badshahpur
School
NH 248 A

Sohna Road
Gurugram



KHUSHBOO CHOWK PERMANENT CHANGES

BEHAVIOUR
IMPACT



IFFCO CHOWK TACTICAL TRIAL

BEHAVIOUR
IMPACT

IFFCO CHOWK

CRASH DATA ANALYSIS



KANHAI CHOWK

BEHAVIOUR
IMPACT

BEHAVIOUR IMPACT

Zero Fatality Street

SANATH STREET

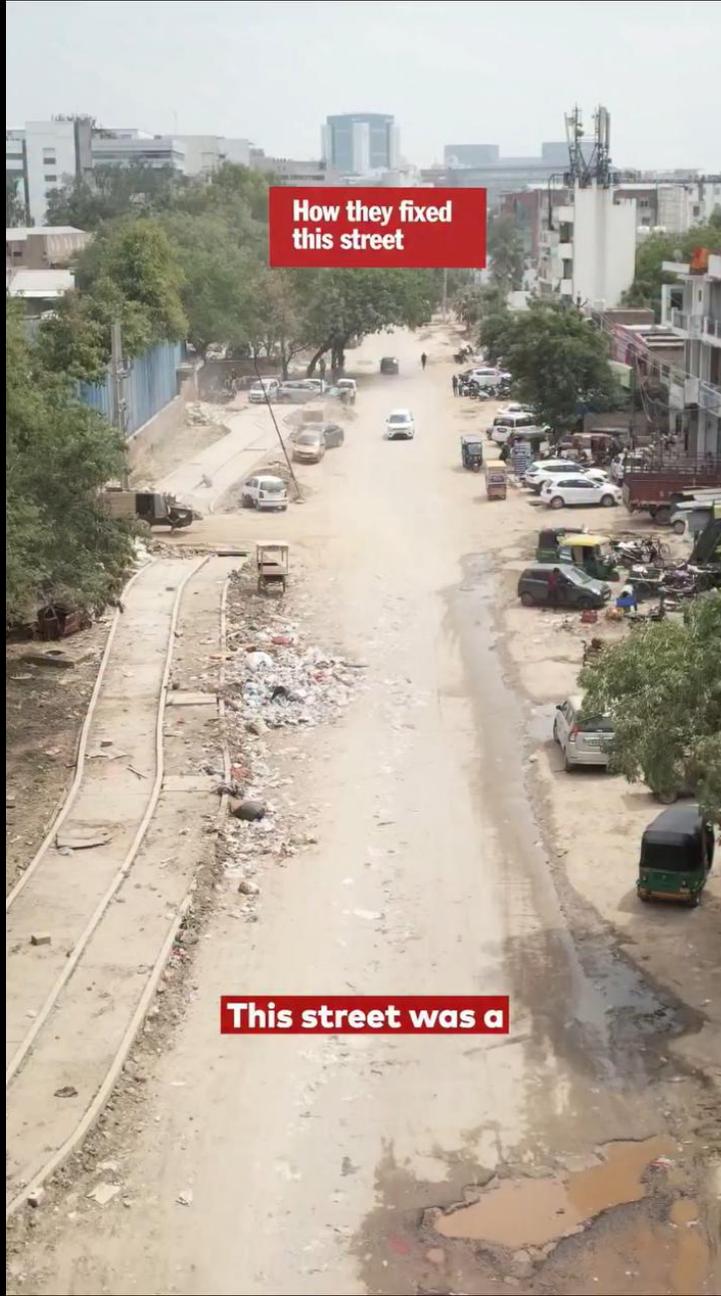


A street where 20,000+ pedestrians & 3000+ Cyclists commute everyday

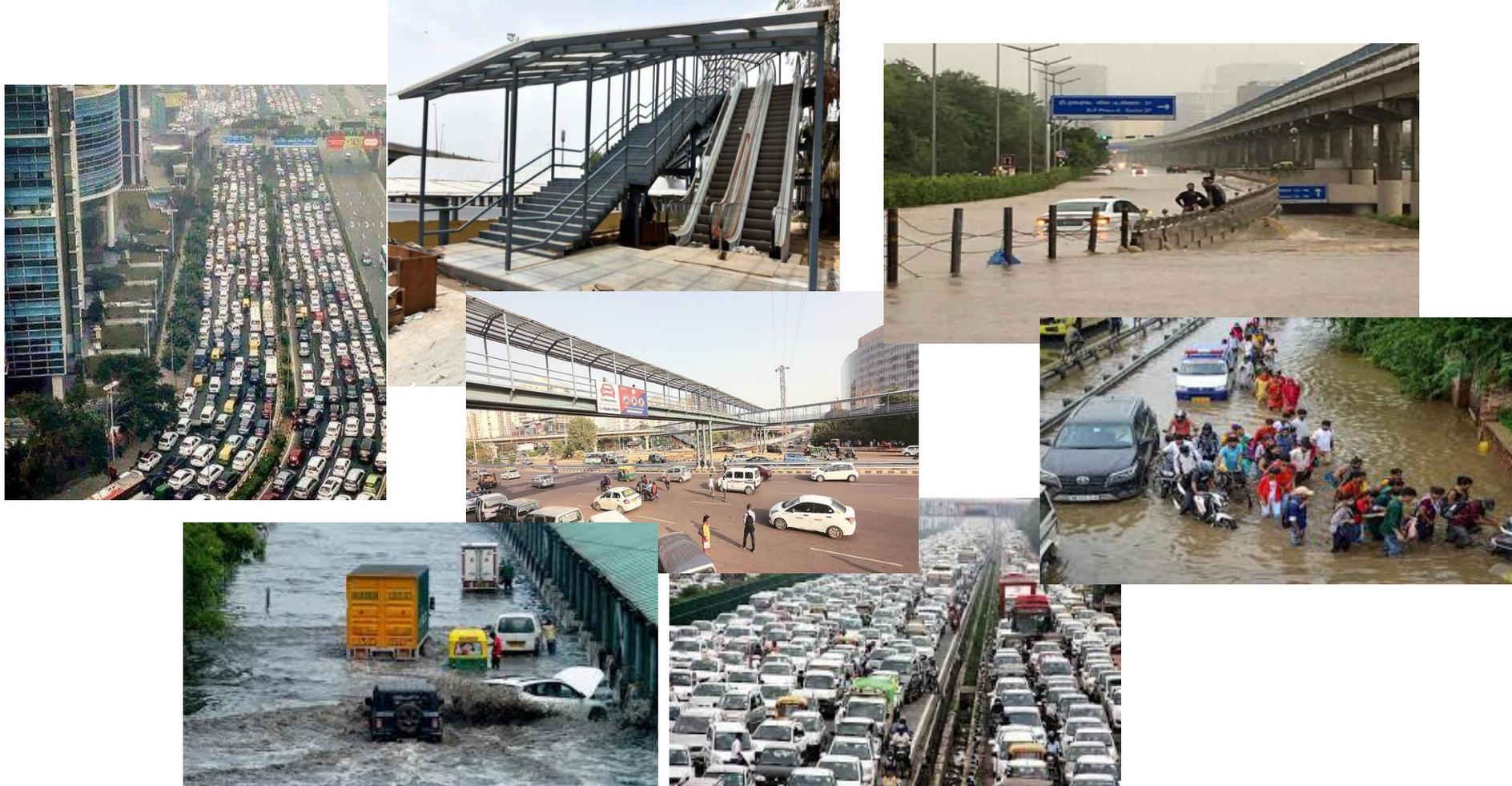
SANATH STREET

BEHAVIOUR
IMPACT

Zero
Fatality Street



THANK YOU



Avoid costly development mistakes that can crush your city!

Let's Build Back Better A Livable Country