DATACORP TRAFFIC PRIVATE LIMITED

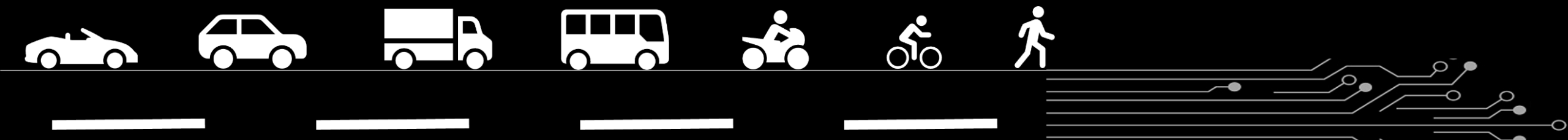
ITS INDIA CONGRESS 2026 · PLENARY SESSION

One Nation, One Network

Using PM Gati Shakti to make urban mobility seamless, safe and inclusive for every citizen - by 2047

SESSION OUTCOME

Safe & Integrated Urban Mobility Roadmap 2047



Safe, convenient and seamless urban networks – for all users

01

For every commuter

One journey, one ticket, one app - from doorstep to destination.

02

For women

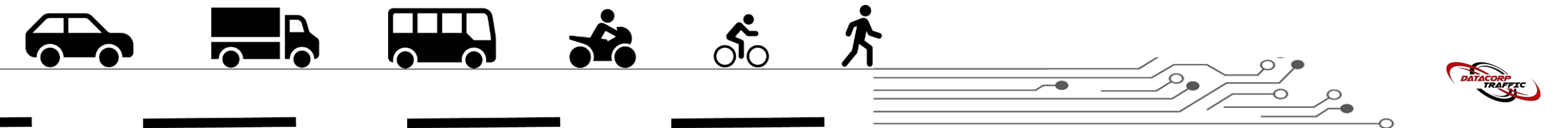
Safe, lit and monitored streets, spaces and public transport - at every hour of the day.

03

For every road user

Streets designed so no one is killed or injured getting to work or school.

PM Gati Shakti is the platform that can connect them all — with safety built in



Cities - outgrowing their safety guardrails & Public Transit capacity

MOVING PEOPLE

13.3

city buses per lakh people — the benchmark is **44**

400+

cities with no organised city bus service

1,013 km

metro in 23 cities — **1.12 cr trips per day**

STAYING SAFE

1.73 lakh

road deaths in 2023 — **20 every hour**

65%

of deaths are pedestrians (20%) and **two-wheeler riders (44.8%)**

40%

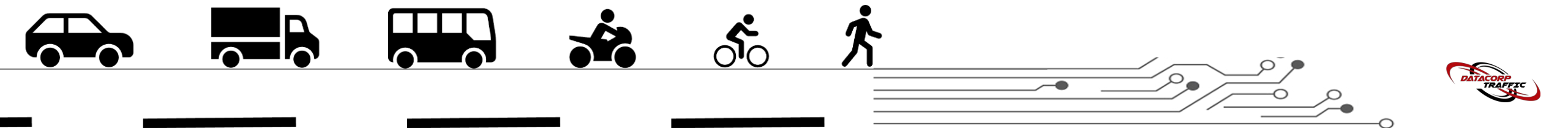
of urban **women feel 'not so safe' or 'unsafe'** in their city

29%

of harassment incidents happen on public transport

Urban mobility is not only a capacity gap — it is a safety gap, and women often feel it the most

Sources: CSE–CITIES Forum (Aug 2026); PIB (metro, 2025); MoRTH, Road Accidents in India 2023 (Aug 2025); NARI 2025 — 12,770 women, 31 cities.



It is not the modes - it is the unsafe gaps between them

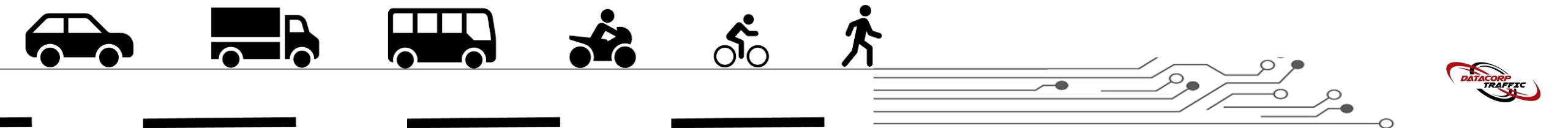
TODAY

Home — No footpath, unsafe crossing — Walk / auto — Dark, unmanned stop; no arrival info — Bus — Another ticket; crowded, no CCTV — Metro — Long, unlit walk at night — Office

SAFE & INTEGRATED

Home — Safe, lit first mile — Walk / auto — Lit stop, live arrival, help point — Bus — One tap; CCTV & panic button — Metro — Timed transfer, safe last mile — Office

Every gap adds time, cost and risk - so people choose private vehicles, and many women choose not to travel using public transit



Four levers turn infrastructure into one safe network

PLAN
together

Gati Shakti NMP · City digital twins

MOBILITY

One map for metro, bus, parking & land use

SAFETY

Crash black-spots & women's safety audits mapped

CONNECT
the modes

Multimodal hubs · RRTS · PM-eBus Sewa

MOBILITY

Metro, bus, RRTS & feeders meet at one hub

SAFETY

Well-Lit, clean, accessible, staffed interchanges

PAY
once

NCMC · Digital ticketing · MaaS

MOBILITY

One card and one app for every mode

SAFETY

Cashless boarding; women's concessions on NCMC

OPTIMISE
with data & AI

ITS · AI · Open data

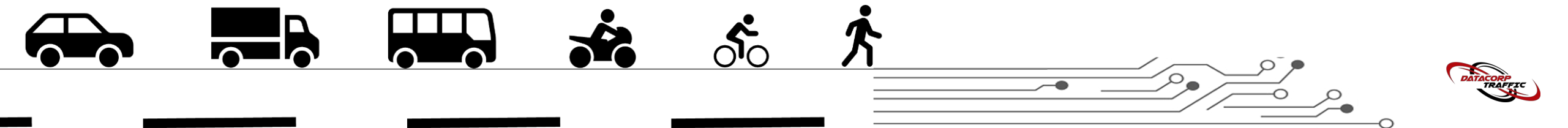
MOBILITY

Smart signals, bus priority, live info

SAFETY

Speed enforcement, CCTV analytics, 112 alerts

Safety for women and every road user across all four levers



One digital map already links 57 ministries - extend it to every city

1,700+

data layers on the Gati Shakti National Master Plan

57

ministries & departments planning on one platform

Add a safety layer

Put iRAD / e-DAR crash black-spots and women's safety audit data (lighting, footpaths, CCTV, stop locations) on the same map as every new project.

NEXT STEP: CITY-SCALE DIGITAL TWINS

1. **Link city mobility plans to the NMP**

   Metro, bus, parking and land use on the same map as national corridors

2. **Build digital twins**

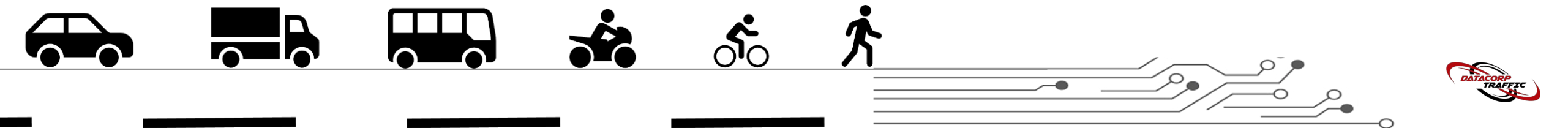
   Test new routes, stations and junction redesigns virtually - including pedestrian and crash risk

3. **Predict, don't react**

   Forecast demand, congestion and crash risk from live data

Plan the city and its safety - on the same map

Sources: Economic Survey 2025-26; Ministry of Commerce & Industry (Aug 2026); MoRTH iRAD / e-DAR.



New urban systems prove what integration can deliver

WHAT WE ARE BUILDING

82 km · 180 km/h

Namo Bharat RRTS Delhi–Meerut, linked with Meerut Metro; a women's coach on every train

~6,000 e-buses

awarded under PM-eBus Sewa across 86 cities

1,013 km

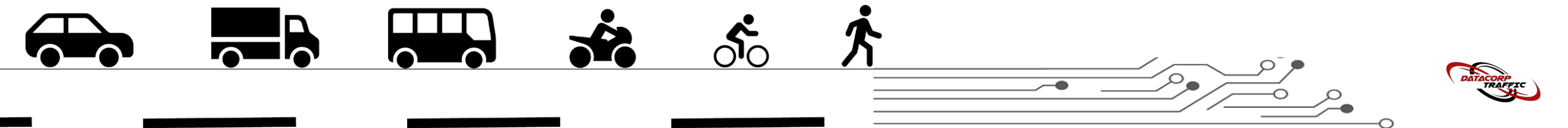
metro in 23 cities — the world's 3rd-largest network

Design every hub for women's safety

- Bright lighting and CCTV on platforms, exits and feeder stops
- Staffed help desks and women security marshals at interchanges
- Interchanges that allow access to clean & hygienic facilities
- Step-free access, safe drop-off bays and signalised crossings
- Women's coaches / reserved seats and priority boarding
- Late-evening feeder services so no one walks home in the dark

Design every station and depot as a safe interchange, not an endpoint

Sources: NCRTC (Feb 2026); MoHUA PM-eBus Sewa portal; PIB (metro, 2025).



One card and one app should work on every mode, in every city

Tap

One NCMC card or phone

Ride

Metro, Bus, RRTS, suburban rail

Transfer

No new ticket, fare capped

Plan

One MaaS app — with SOS built in

Common standard

One NCMC standard accepted by every metro and city bus operator

Fare integration

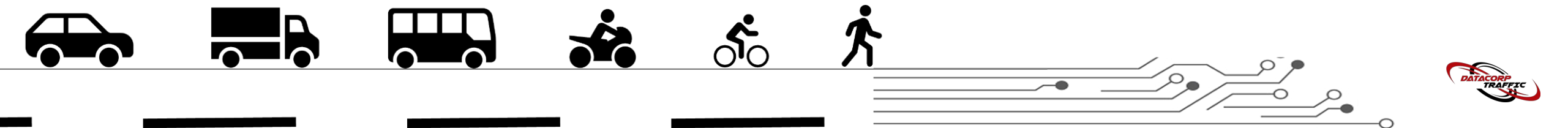
Transfers priced as one trip, so switching modes costs nothing extra

Inclusive fares

Free or Subsidized trips for women: 2000 crore+ free trips by women since 2023 in states such as Tamil Nadu Telangana, Delhi, Karnataka, Punjab etc. Deliver such concessions on NCMC -cashless, targeted, measurable

NCMC is India's 'One Nation, One Card' - the goal now is universal acceptance

Sources: NPCI / MoHUA (NCMC); Citizen Matters, BMTC data on Shakti scheme (Sept 2025).



ITS and AI should make every urban trip faster and safer

68%
of road deaths linked to over-speeding

20 / hour
road deaths across India in 2023

2019
VLT + emergency button mandatory in new public service vehicles

112
single emergency number to link every alert to

For commuters

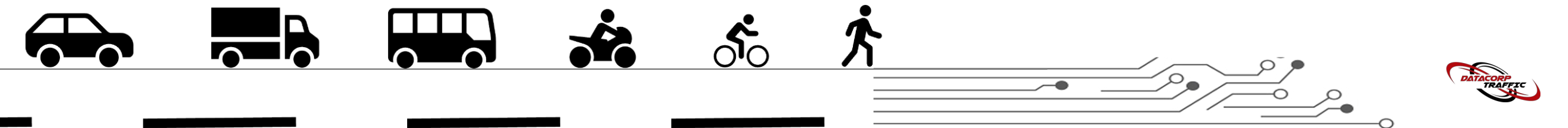
- Adaptive traffic signals & bus priority lanes
- Real-time arrival info at every stop
- Demand-responsive feeders, especially during late evenings

For safety

- Automated speed & red-light enforcement at black-spots
- VLT + panic buttons live-linked to 112 control rooms
- CCTV analytics at stops; AI crash-risk prediction (iRAD)

Build an open urban mobility data platform - with safety data at its core

Sources: MoRTH, Road Accidents in India 2023; MoRTH notification on VLT & emergency buttons (CMVR Rule 125H); 112.gov.in.



A network women use with confidence — at every step, at every hour

40% of urban women feel 'not so safe' or unsafe

29% of harassment happens on public transport

1 in 3 incidents is ever reported

01 First & last mile

Continuous lit footpaths, safe crossings, verified shared-auto & e-rickshaw drivers

02 At the stop

Lighting, CCTV, help points and live-arrival, so no one waits long in the dark

03 On board

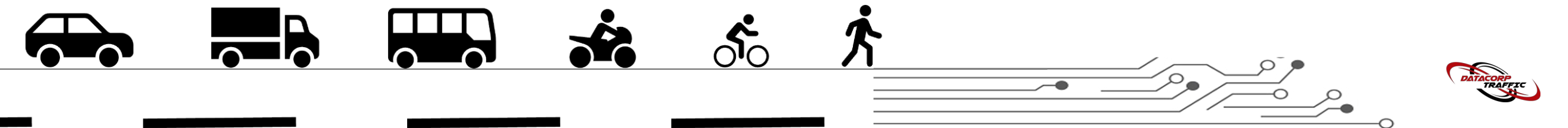
VLT + panic buttons to 112, women drivers, conductors & marshals, reserved seats

04 Report & respond

One-tap SOS in the MaaS app, anonymous complaints, time-bound response

Measure women's ridership and perceived safety in every city - what gets measured gets fixed

Source: National Annual Report & Index on Women's Safety (NARI) 2025 — 12,770 women across 31 cities.



Halve urban road deaths by 2030: walkers and riders first

1,72,890

people killed on India's roads in 2023, up by 4.2% in 2022

1,457 deaths in Delhi — the highest of any city

20% Pedestrians

44.8% Two-Wheeler riders

A SAFE SYSTEM FOR CITY STREETS

Safe speeds

30 km/h zones near schools, markets and stops; automated enforcement

Safe streets

Continuous footpaths, raised crossings, protected cycle tracks, junction redesign

Safe buses & drivers

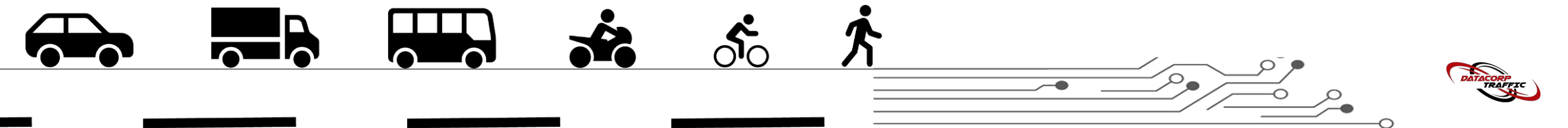
Driver telematics, fatigue alerts, ADAS and blind-spot cameras on city buses

Post-crash care

ITS incident detection linked to 112 for golden-hour response

Public transport is the safest and most sustainable way to travel - every shift from private vehicles saves lives and improves livability in the city

Sources: MoRTH, Road Accidents in India 2023 (Aug 2025); India's Stockholm Declaration commitment to halve road deaths by 2030.



One safe, integrated network advances six SDG targets

SDG 11.2

Safe transport for all

Safe, affordable public transport — with special attention to women

400+ cities still lack city buses

SDG 3.6

Road safety

Halve deaths and injuries from road crashes

1.73 lakh road deaths in 2023

SDG 5.2

Gender equality

End violence against women and girls in public spaces

29% of harassment is on transit

SDG 11.7

Safe public spaces

Safe, inclusive, accessible streets, stops and stations

Lit, step-free, monitored hubs

SDG 13

Climate action

E-buses and a shift away from private vehicles

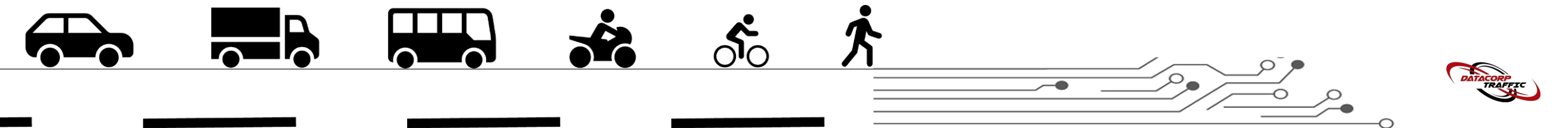
~6,000 e-buses awarded

SDG 10

Reduced inequalities

Affordable access to jobs, education & services

One low-cost card for all



A three-stage roadmap for mobility and safety

1 2 3

2030 — INTEGRATE

MOBILITY

NCMC on all metro & city bus networks; bus fleet towards greater than the benchmark of 44 per lakh inhabitants

SAFETY

Road deaths halved; VLT + panic buttons live on 112 in every city

2035 — CONNECT

MOBILITY

MaaS in every million-plus city; city digital twins

SAFETY

Safety audits in every city; women's ridership & safety tracked yearly

2047 — SEAMLESS

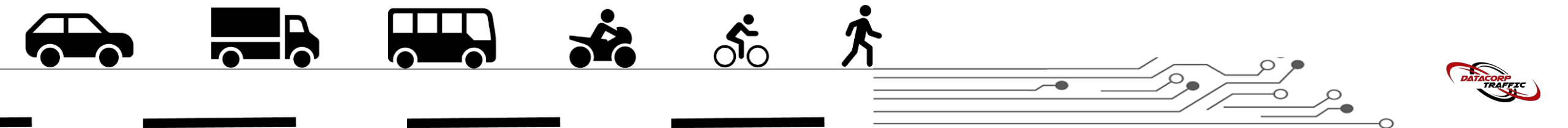
MOBILITY

Public transport the first choice; mostly electric fleet

SAFETY

Vision Zero streets; women travel as freely as men, day and night

2030 items build on existing targets (MoHUA bus benchmark, NCMC roll-out, Stockholm Declaration, CMVR Rule 125H). 2035 and 2047 are proposals for this session to shape.



What we leave with — for policy, implementation and monitoring

POLICY 01

Set the rules

- Bring every city mobility plan onto PM Gati Shakti
- Mandate NCMC acceptance on all metros and city buses
- Adopt the Safe System approach and 30 km/h zones in urban street codes
- Gender-responsive transport policy with safety standards for stops, vehicles & hubs

IMPLEMENTATION 02

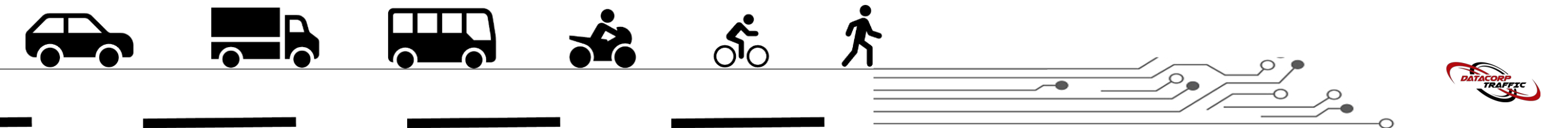
Build it safe

- Safe, lit, step-free interchanges and continuous footpaths
- VLT + panic buttons in all public transport, live-linked to 112
- ITS at scale: adaptive signals, bus priority, speed enforcement
- Hire and train women drivers, conductors and marshals

MONITORING 03

Measure what matters

- Open urban mobility data platform, safety data included
- Publish road deaths by city, mode and junction (iRAD / e-DAR)
- Track women's ridership, perceived safety and SOS response time
- Annual city scorecard against Roadmap 2047 targets



THE CALL TO ACTION

We have built the pieces.
Now let's connect them — safety for every citizen.

- Bring cities onto Gati Shakti
- Safe for her, safe for all
- Halve urban road deaths by 2030

Thank you · Questions welcome

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