



To ***look deeper*** is to fully understand the complexities of the world around us.

Smart Traffic Solution for Smarter Cities

Sarang Deshpande

Principal Solution Architect

August 22, 2024

The Concept of Smart City



Cities that work!

Livable | Sustainable | Thriving

The core infrastructure elements in a Smart City would include

Waste Management

- Waste to Energy & Fuel
- Waste to compost
- Wastewater to be Treated
- Recycling & Reduction of C&D Waste

Energy Management

- Smart Meters & Management
- Renewable Sources of Energy
- Energy Efficient & Green buildings.

E-Governance & Citizen Services

- Public Information, Grievance Redressal
- Electronic Service Delivery
- Citizen Engagement
- Citizens – City's Eyes and Ears
- Video Crime Monitoring

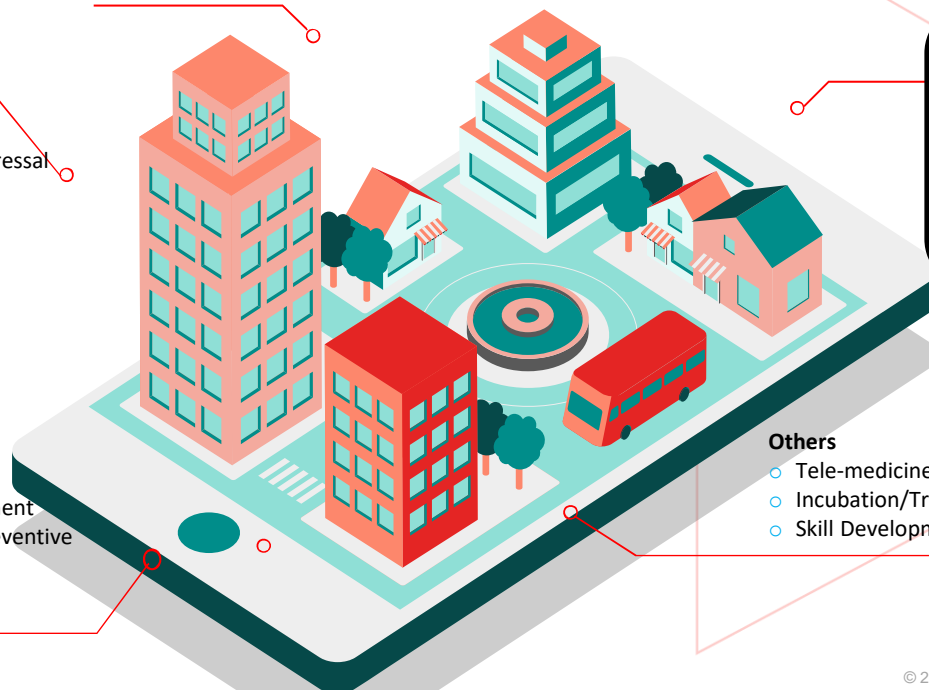
Intelligent Traffic Management

Water Management

- Smart Meters & Management
- Leakage Identification, Preventive Maintenance.
- Water Quality Monitoring

Others

- Tele-medicine & Tele Education
- Incubation/Trade Facilitation Centers
- Skill Development Centers



Areas of Concern

Rapid
Urbanization

~40%

Of the population to live in cities by 2030

Increasing
Vehicles

~2 CR

Vehicles added from 2020 to 2023

Road Safety

~4.61 Lakh

Accidents on road in 2022

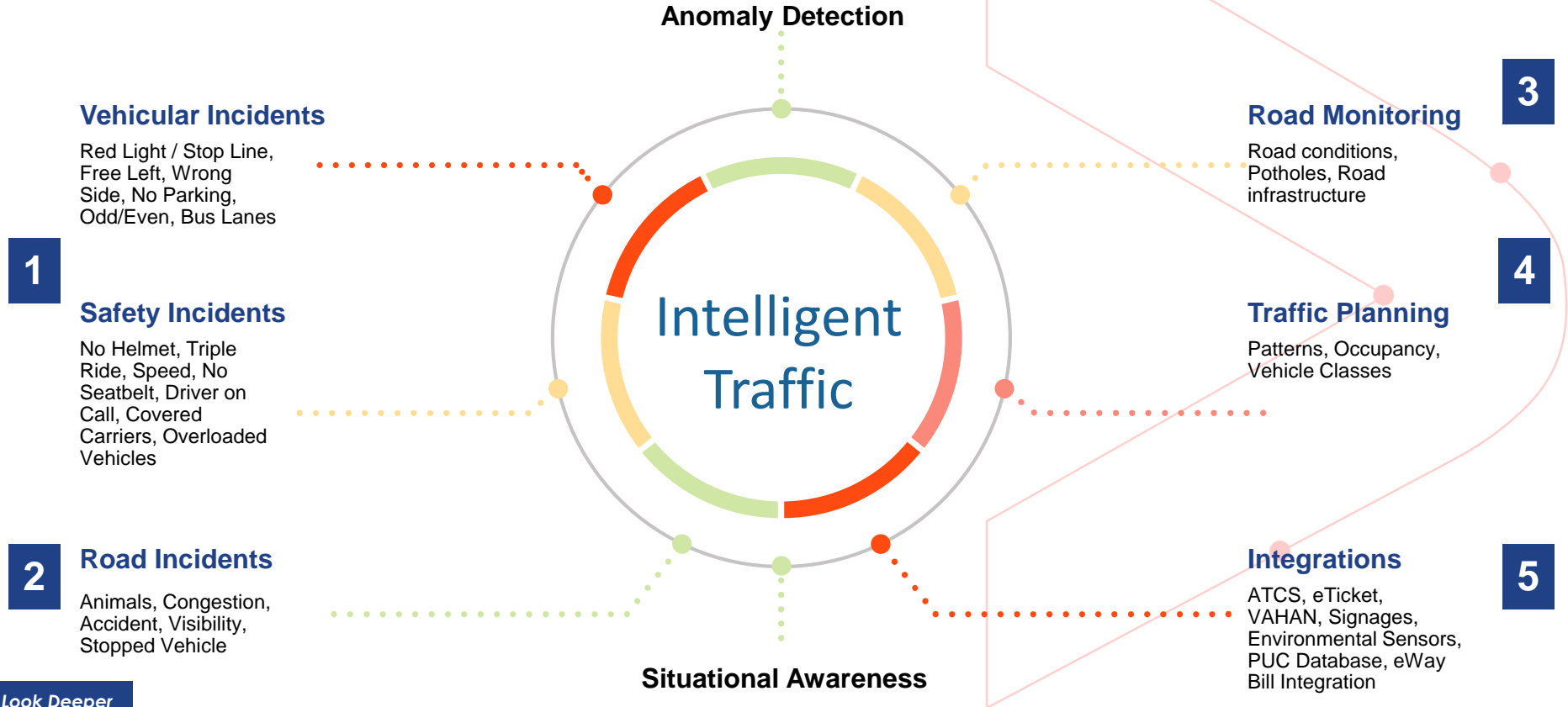
Traffic
Congestions

~ INR 1.44 Lakh CR

Annual loss in 4 Metro's



Traffic Solution for Cities



Solution Characteristics

Homegrown

For solving local problems

Flexible, Resilient, Scalable

Infrastructure challenges, modular compute, centralised and distributed deployment

Actionable

Decision support using charts, graphs for understanding the patterns

Intelligent

AI and Deep Learning, automated enforcements, generative AI

Secured

Information security, centralised management

Tested

Tested solution to make sure the technologies work with complex Indian environment

Upcoming Trends

Contextual Understanding

Understanding traffic patterns with local context

Anomaly Detection

Detect the abnormal patterns – traffic flow, stopped vehicles, drop or increase in average speed

Behavioral Analysis

Detect situations such as pedestrian and vehicle conflicts,

Reconstruct and Enhance

Retrieve useful information from blurry videos

Simulations

Simulate certain scenarios and check preparedness

Conversational Interaction

Searching the data through conversations with computer

Ethics & Concerns

We look deeper to simplify the world.

Making it

Safer. Smarter. Happier.



India | Singapore | Dubai

Corporate Office

Plot No AI/154/1, Action Area – 1A, Utility Building (4th Floor),
New Town Kolkata – 700156, India.

For More Information

Write to us: info@videonetics.com

Visit us: www.videonetics.com

© 2023-24 Videonetics Technology
Private Limited, All rights reserved.

All brand/product/service names may be
trademarks or registered trademarks of
their respective owners and are duly
acknowledged. Design & specifications
are subject to change without notice.