

ITS GA 2021 Annual Meeting

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# How Cities Can Best Leverage **Big Data** for **Actionable** Insights

With Case Studies from the Bay Area, CA  
and Las Vegas, NV

September 20, 2021

**waycare**

A subsidiary of

 **REKOR**

# Transportation and mobility data have proliferated far beyond traditional ITS devices

## Traditional

Typically solely reliant on physical ITS infrastructure

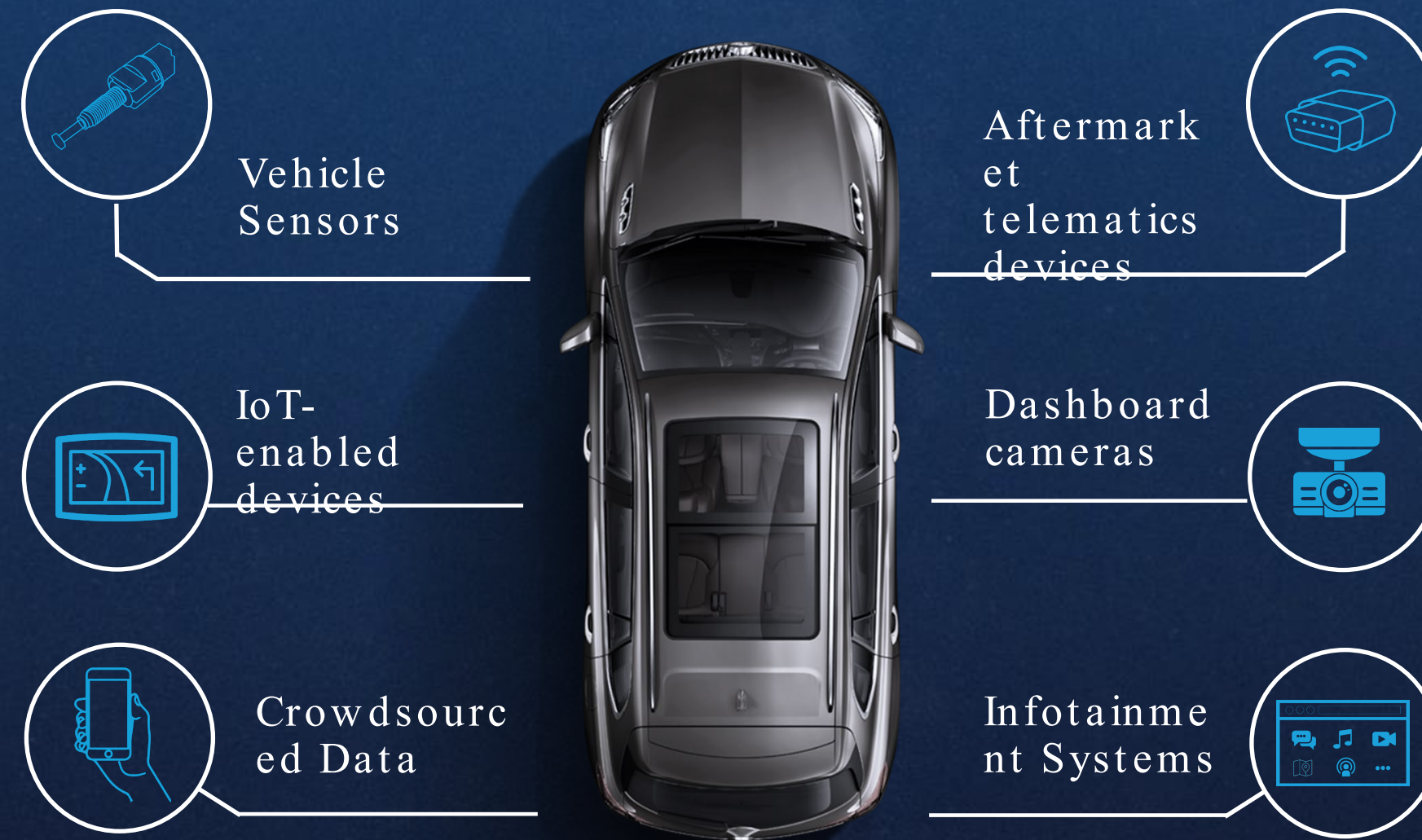


## Today

Physical and virtual data transmitted through connected vehicles and apps



# Connected vehicles are collecting **more data** from a **wider variety** of sensors and on-board devices

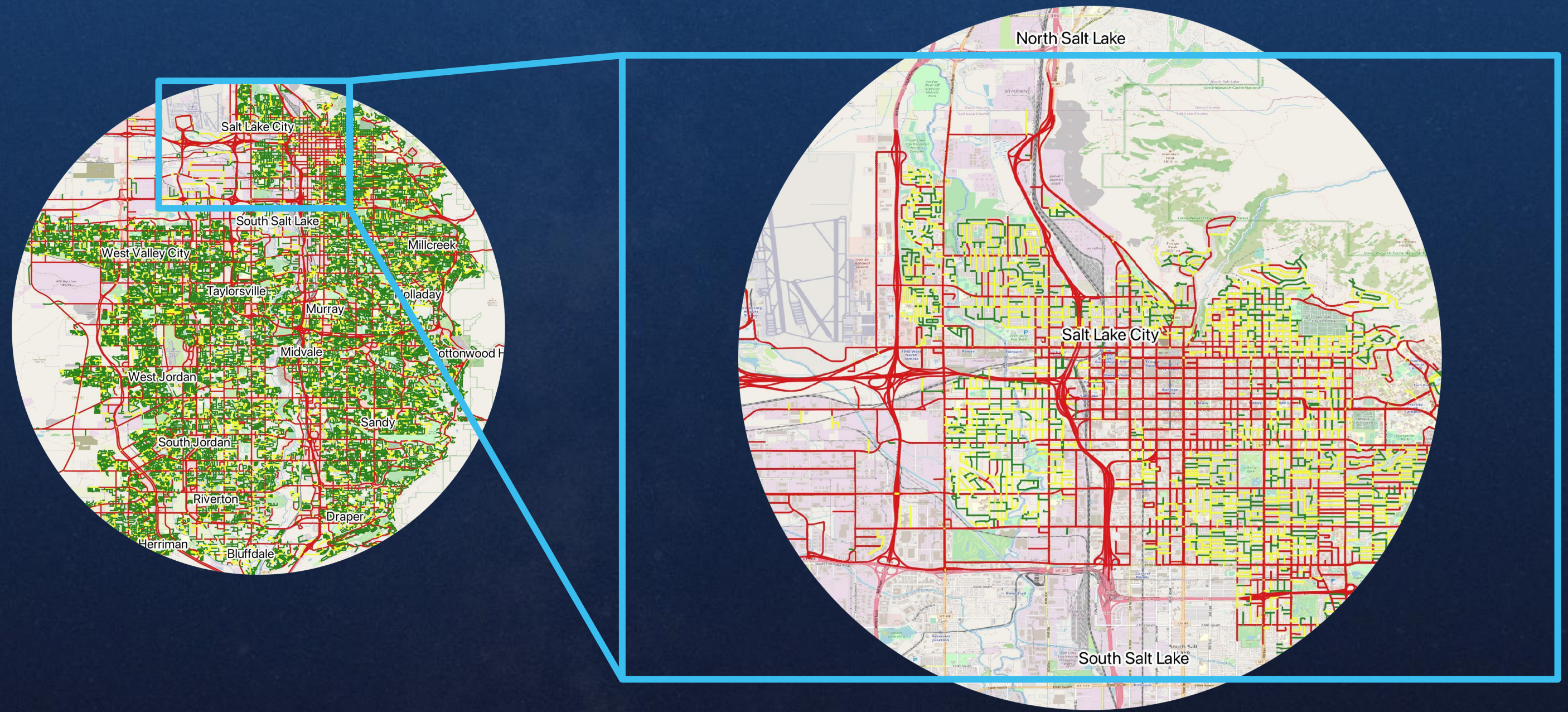


This translates to increased roadway coverage on major roadways as well as arterial streets and rural roadways

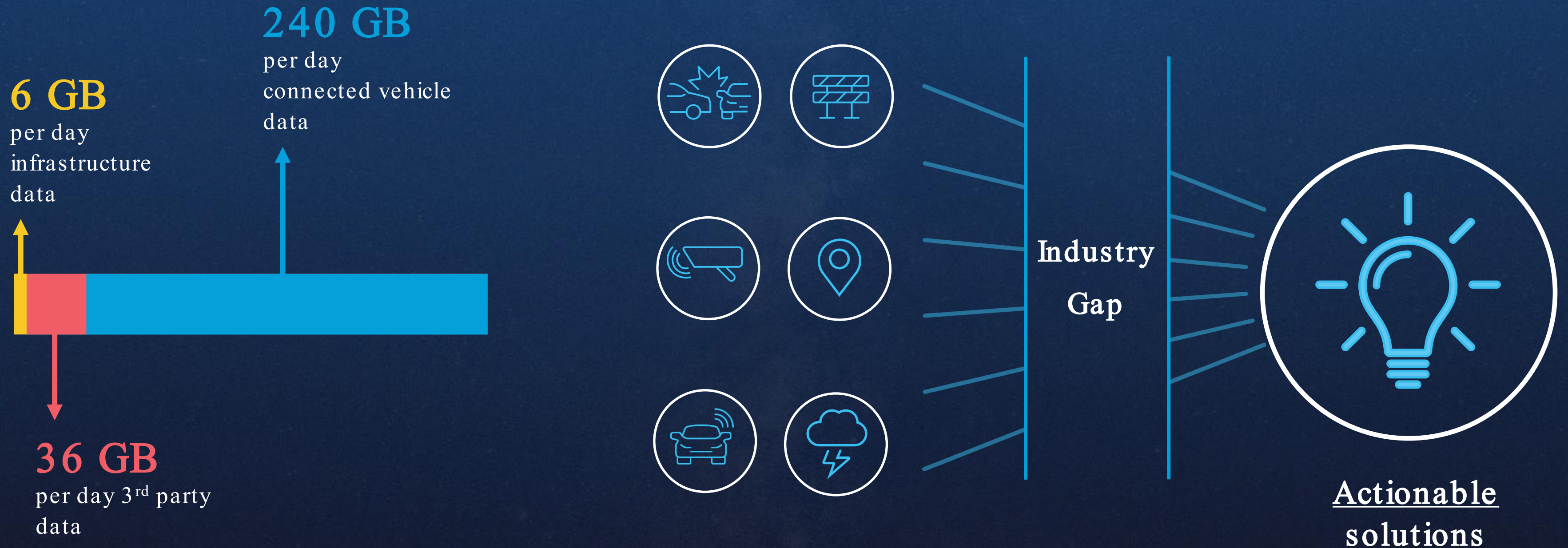
## Legend

Vehicle sample count per typical day

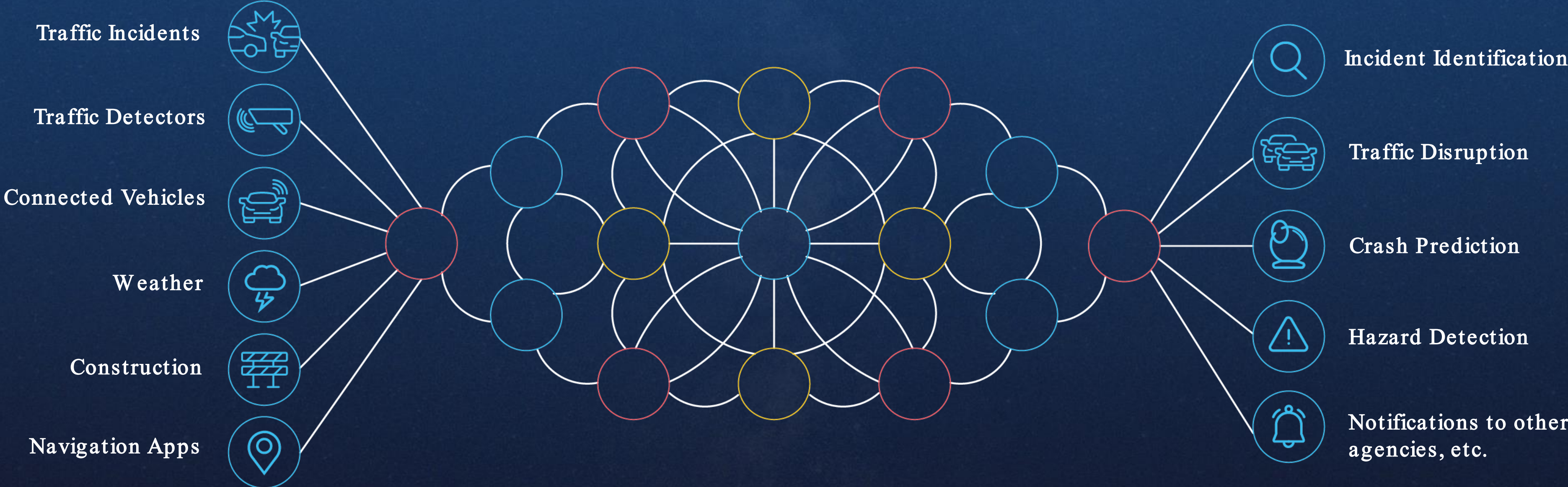
- Low
- Medium
- High



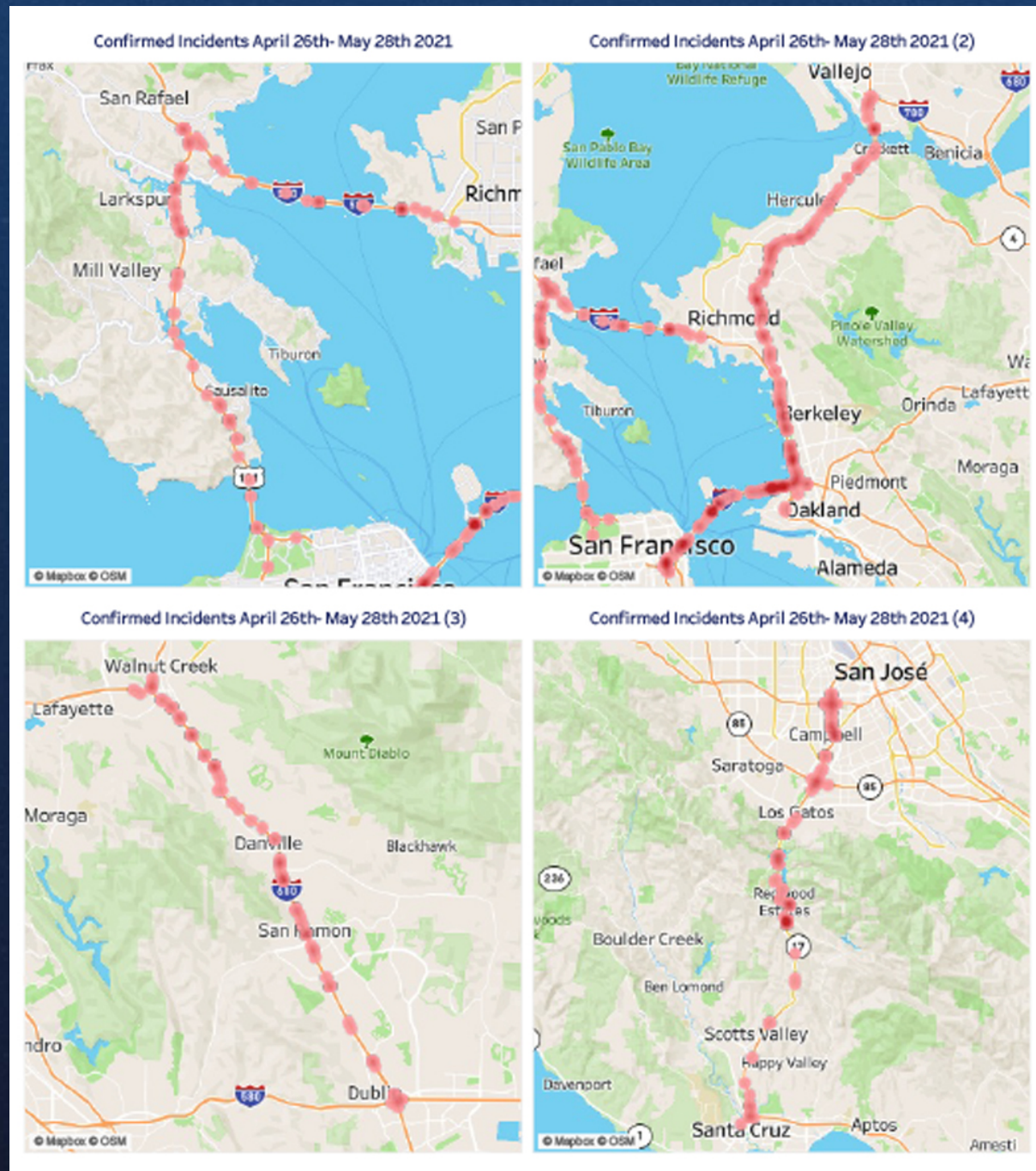
# The sheer **volume** of this data is far beyond what a human being can **process** alone



# Machine learning technology allows us to process mass amounts of data to learn patterns and detect anomalies



# Case Study: Bay Area



Additional incidents



+23

Compared to  
previous incident  
detection methods

Identified Faster



43%

Of incidents  
detected were  
faster than a  
911 call



8 minutes

On average,  
faster than  
traditional  
methods

# Safety and efficiency impact **by the numbers**

9.71%



Decrease in GHG emissions within the spatiotemporal region affected by incident

18%



Reduction in primary crashes on monitored roads.

21%



Increase in incidents identified

43%



Of speeding drivers reduced their speed to adhere to speed limit after Strategic Traffic Management Site

41,547



Previously uninsured vehicles registering into OKUVED program since January '21

9



Minute reduction in incident identification time.



# THANK YOU



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