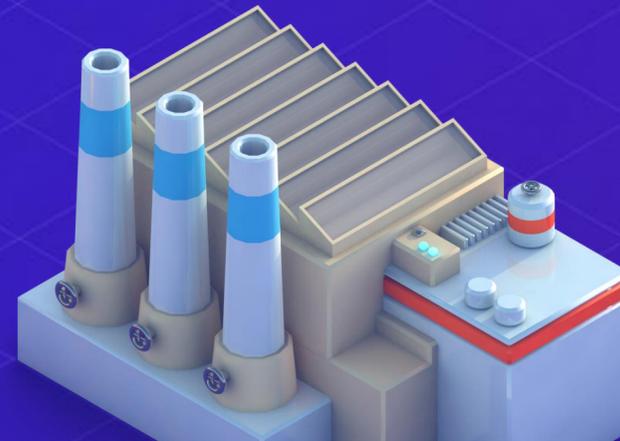




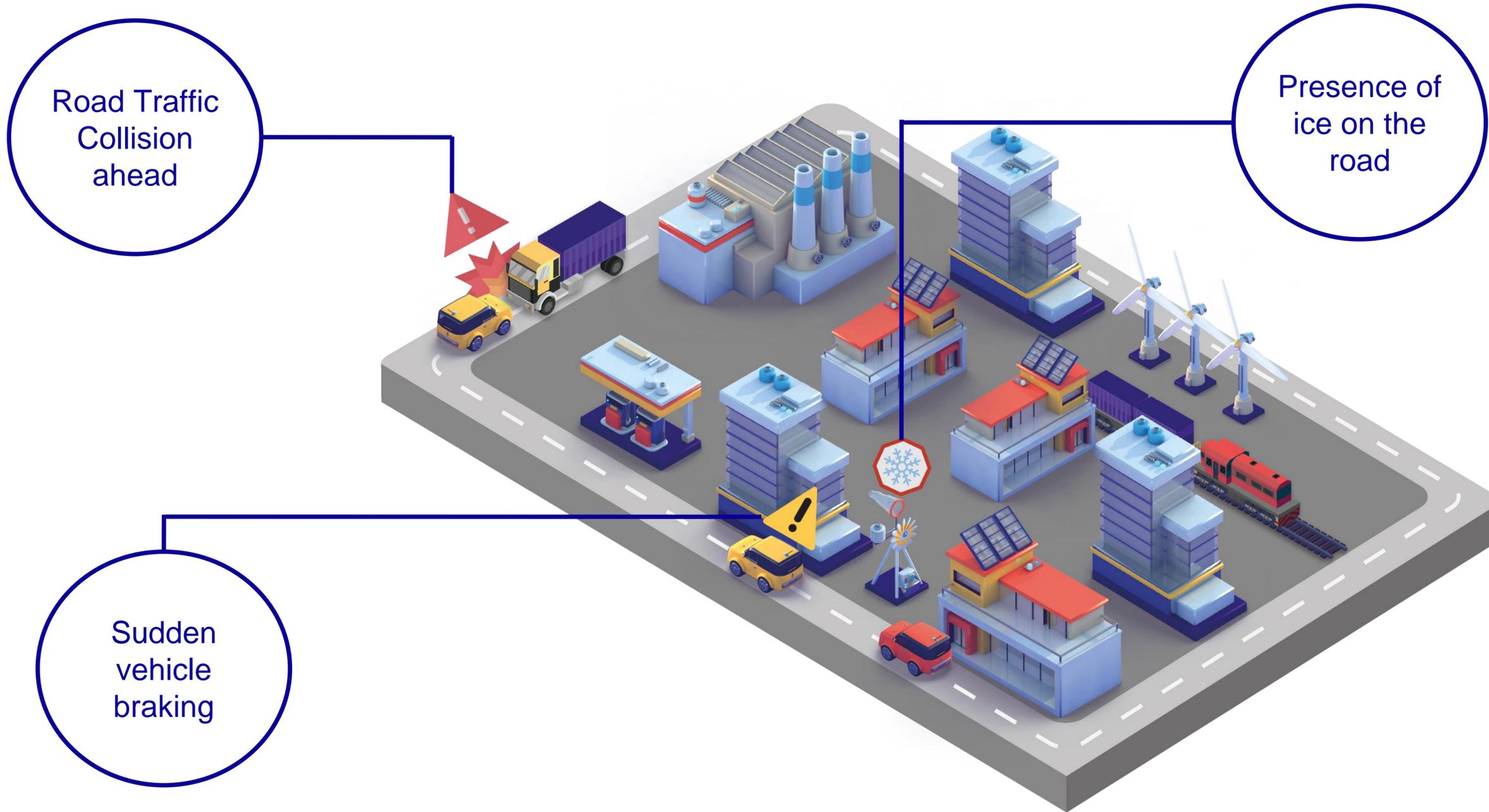
Streamr and Machine Witness with TIOTA



MARTIN MORAVEK
SOLUTIONS ARCHITECT



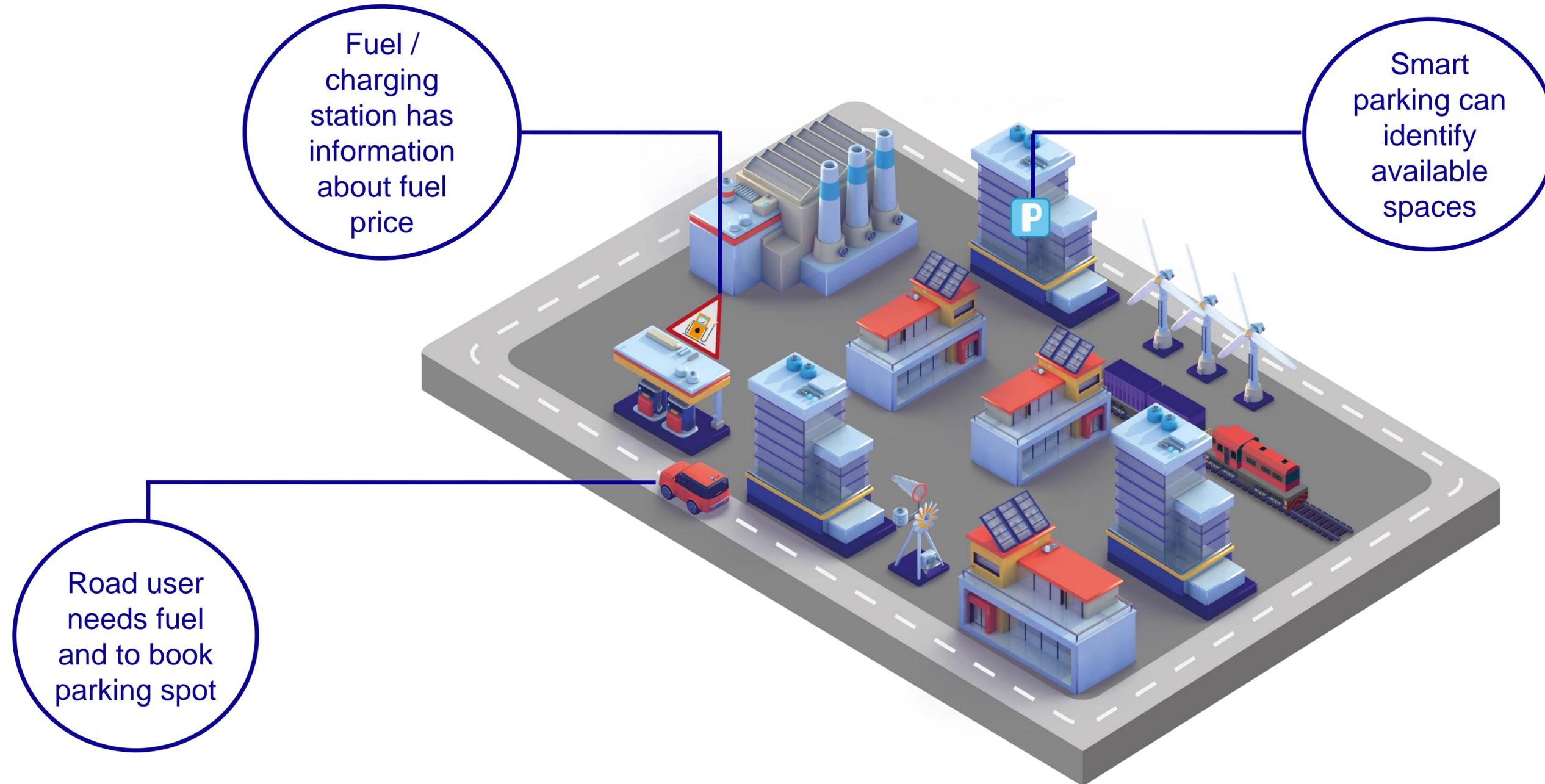
 Road users face multiple hazards while driving on roads...



Better access to data will lead to safer roads, more reliable journeys and better information

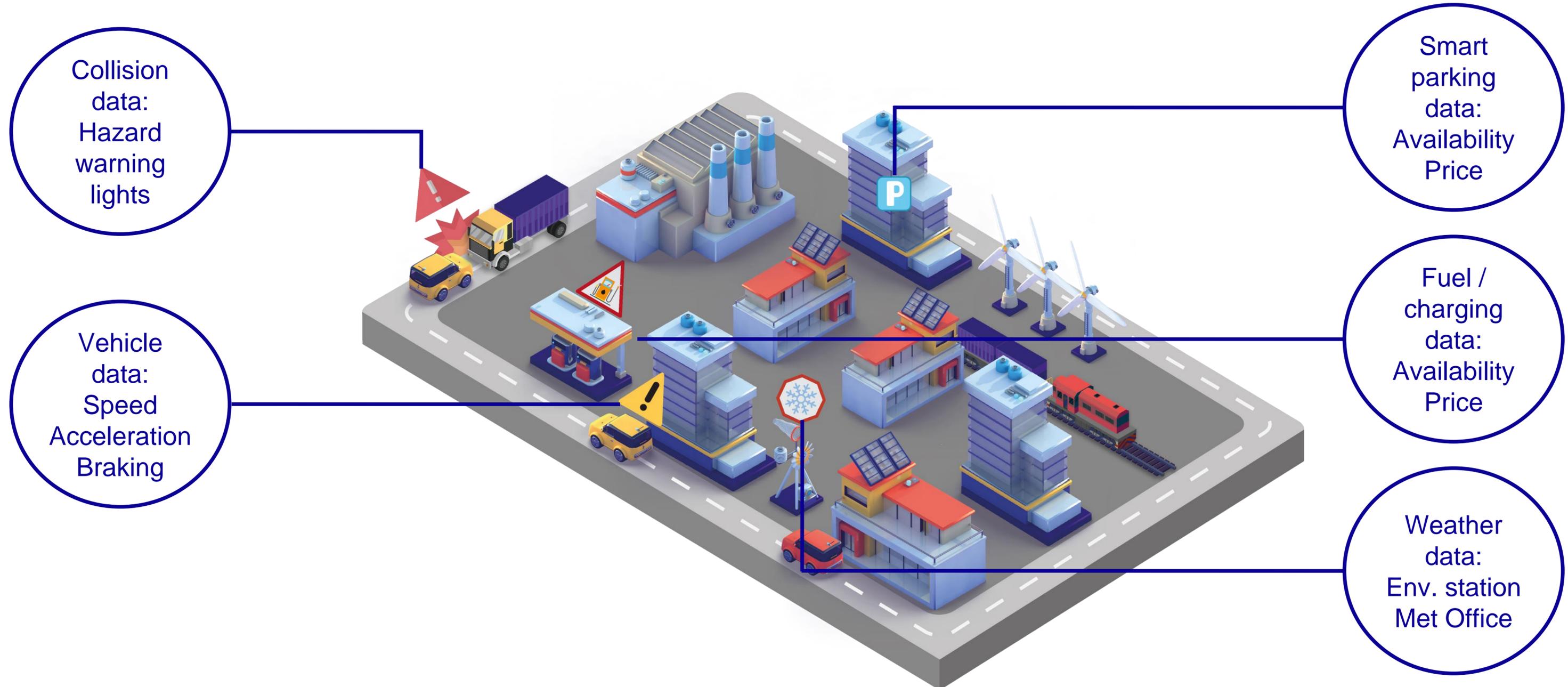


Various actors need to interact with a road user during a trip



Multiple independent data sources that can benefit road users

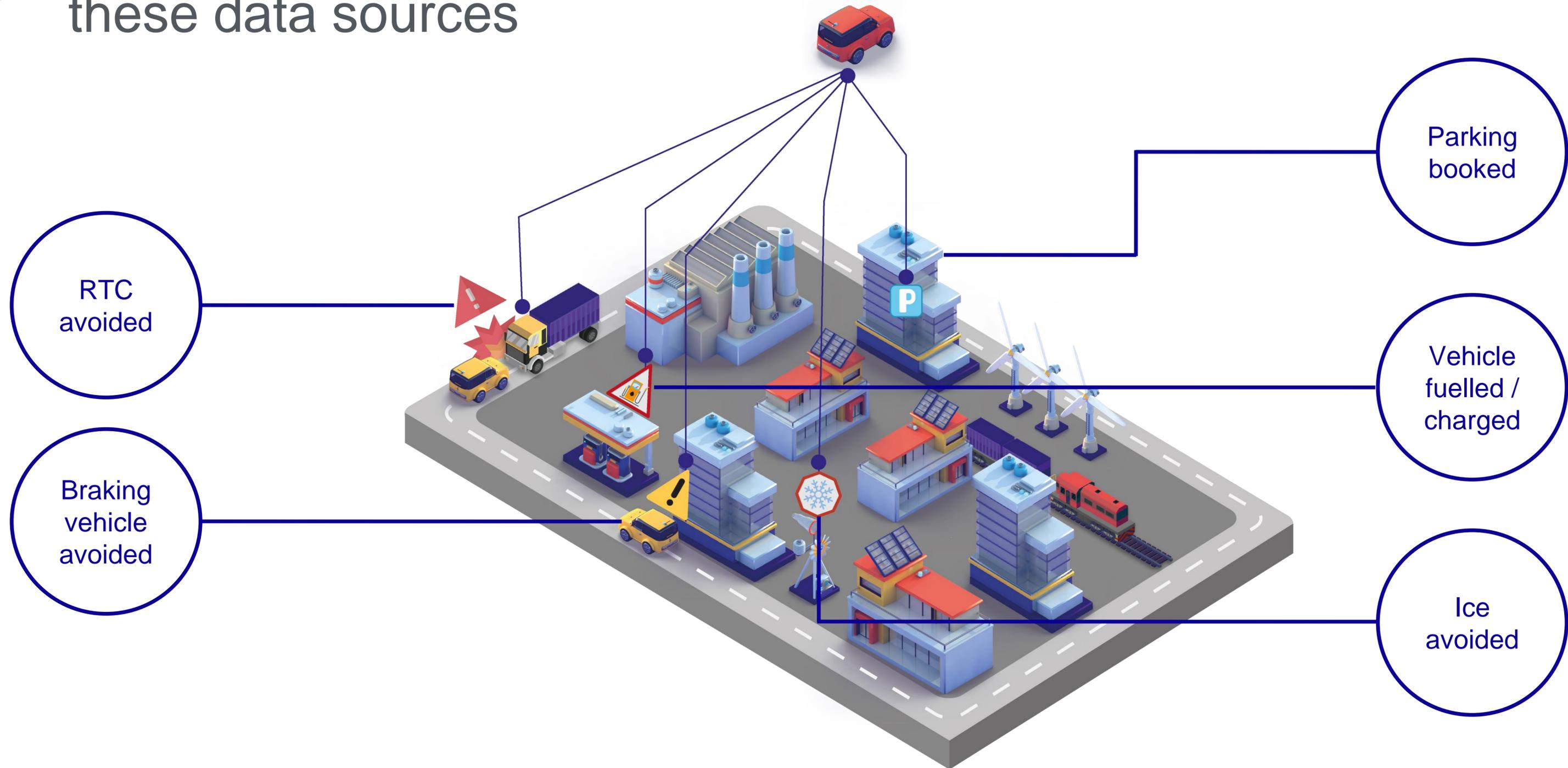
Multiple data sources that are unable to interact



There is an inadequate data infrastructure to connect all of these data points



If only there was a technology that could seamlessly connect these data sources



A scalable network infrastructure is required that connects data points in real-time, enabling drivers to navigate their journey safely and efficiently.



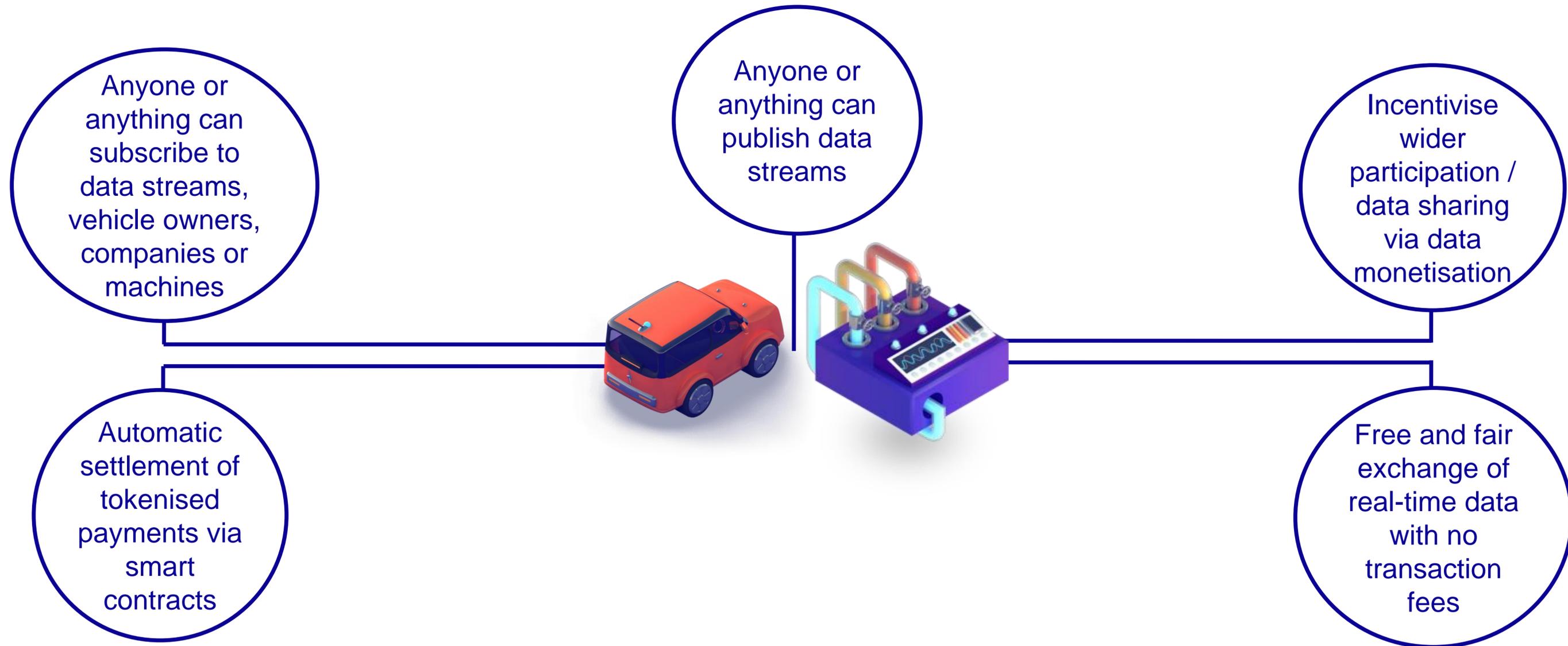
Solution: The Streamr Network

- Decentralised, peer to peer
- Resilient
- Low latency
- Scale
- Open ecosystem
- Less prone to cyber attacks



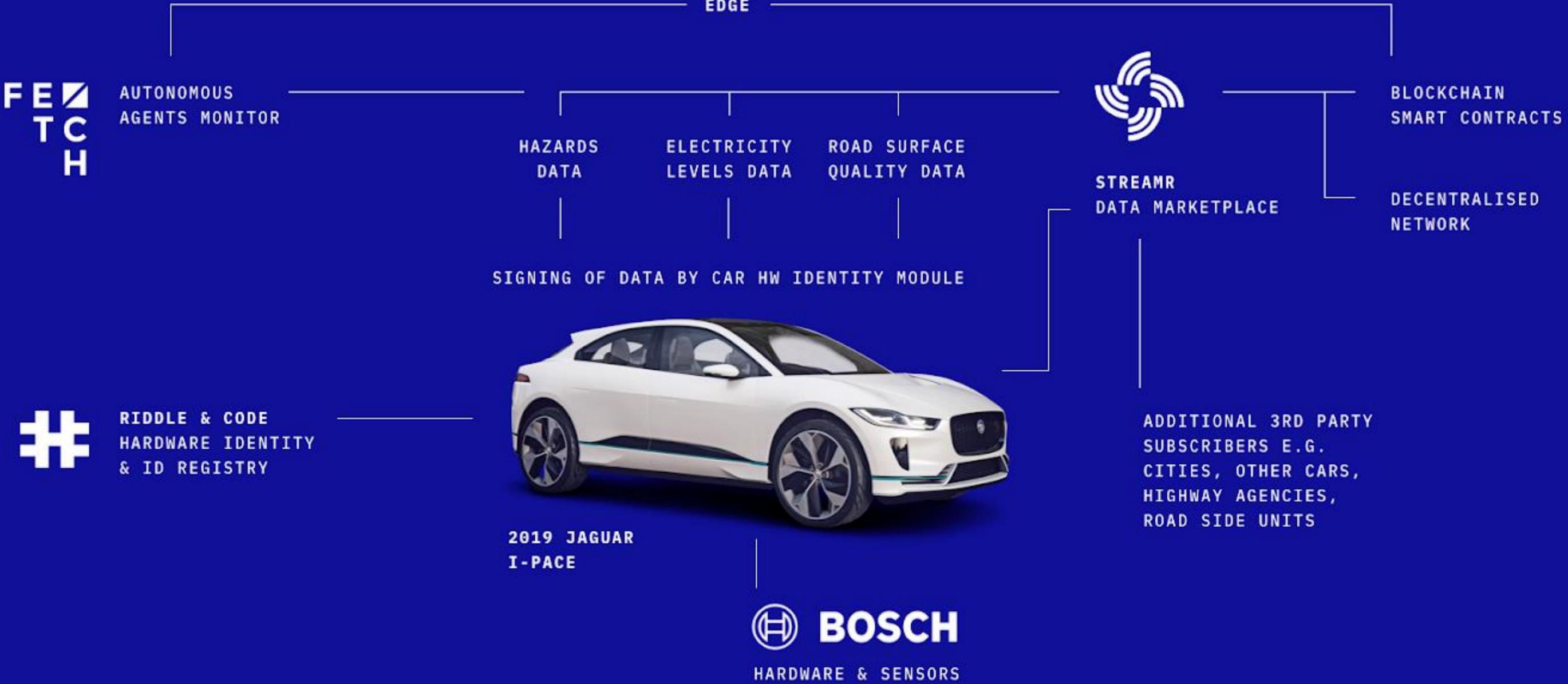
The Streamr Network can act as the real-time data delivery pipeline, connecting vehicles to vehicles, vehicles to infrastructure and vehicles to many.

Streamr data marketplace monetizes realtime data



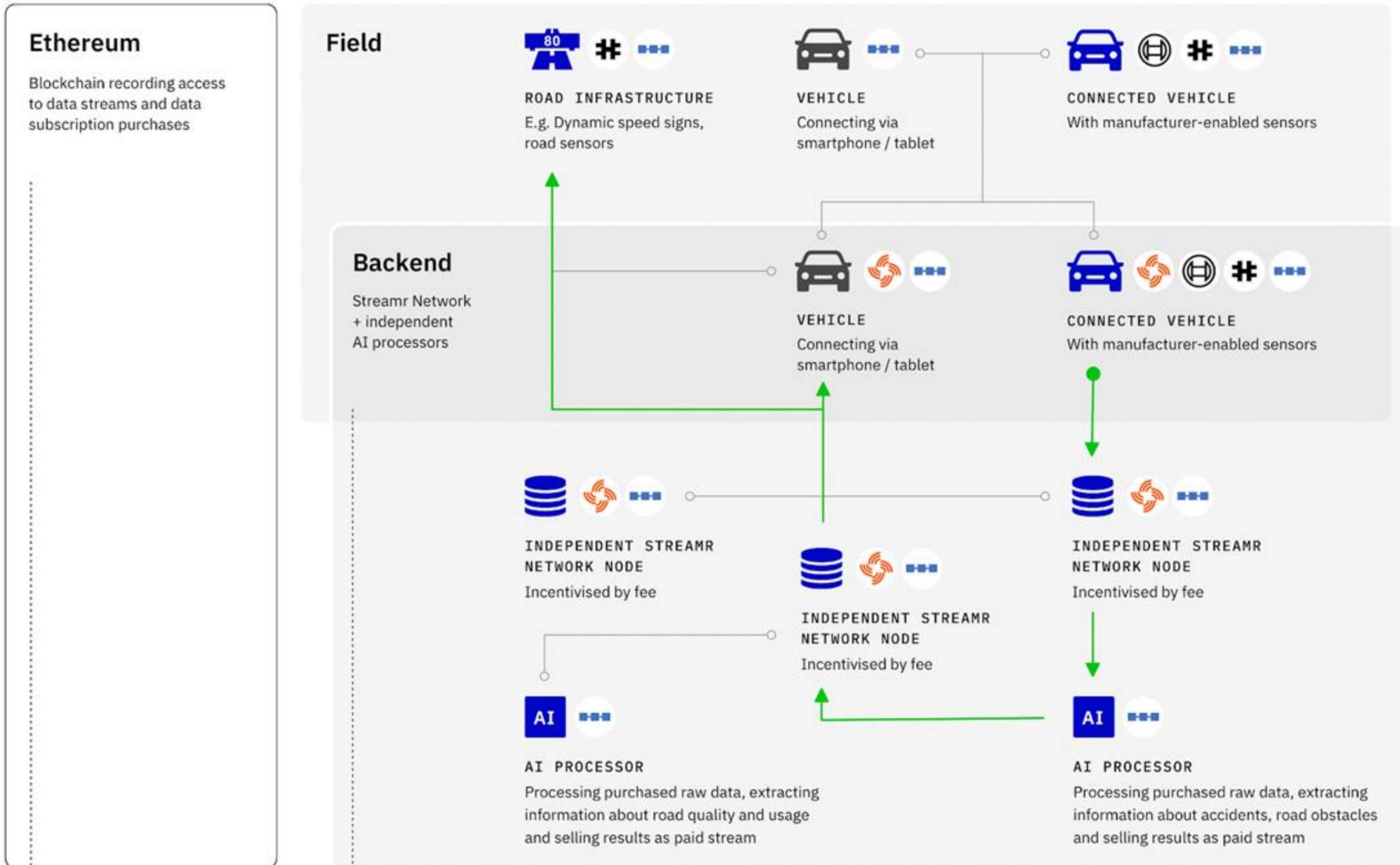
Decentralized data delivery, storage and monetization

IIoTA Machine Witness Use Case





Machine Witness Use Case Architecture



LEGEND

- RIDDLE&CODE hardware identity
- Streamr Network node, routing messages through the Streamr Network
- Bosch sensors and gateway
- Each participant has an Ethereum identity and connection to the blockchain
- Possible data flow
- Example of data flow

Sensor data is not stored on Ethereum blockchain, it is routed via Streamr Network

Field and Backend are overlapping. Participants can optionally support the Network by running a Streamr node

Streamr nodes operating in vehicles



The car has the option to utilise its unused resources (CPU and bandwidth) to support the Streamr network. Node runners are also incentivized by a fee from every transaction - this is an additional monetisation for driver.

When EV is parked and charging all its computing resources are unused. These do not have to remain wasted and can instead be monetised.

Utilizing unused resources to deliver additional income



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