



Next Generation Integrated Mobility:

Driving Smart Cities

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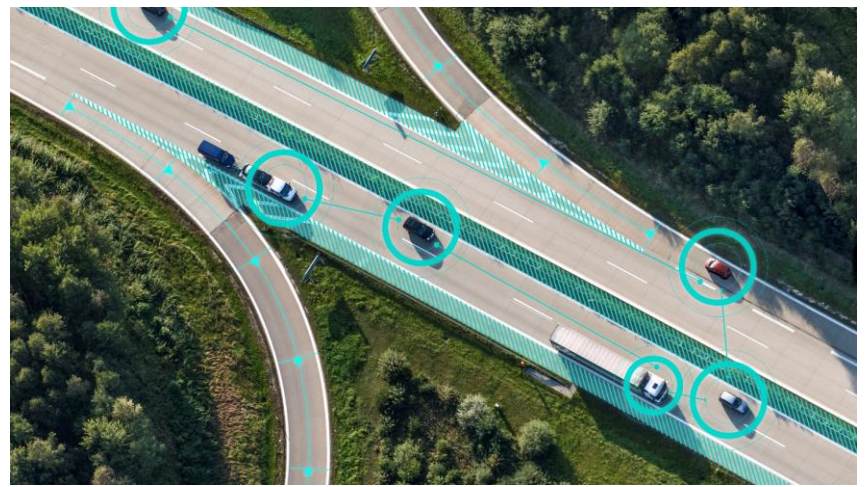
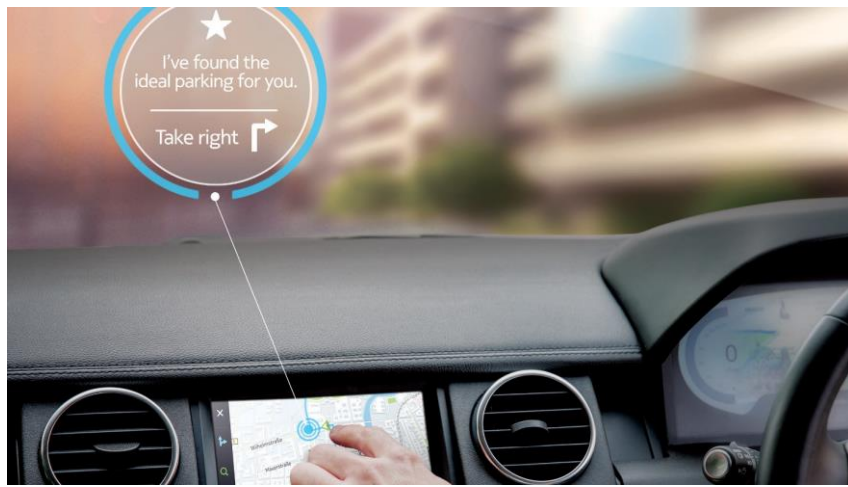
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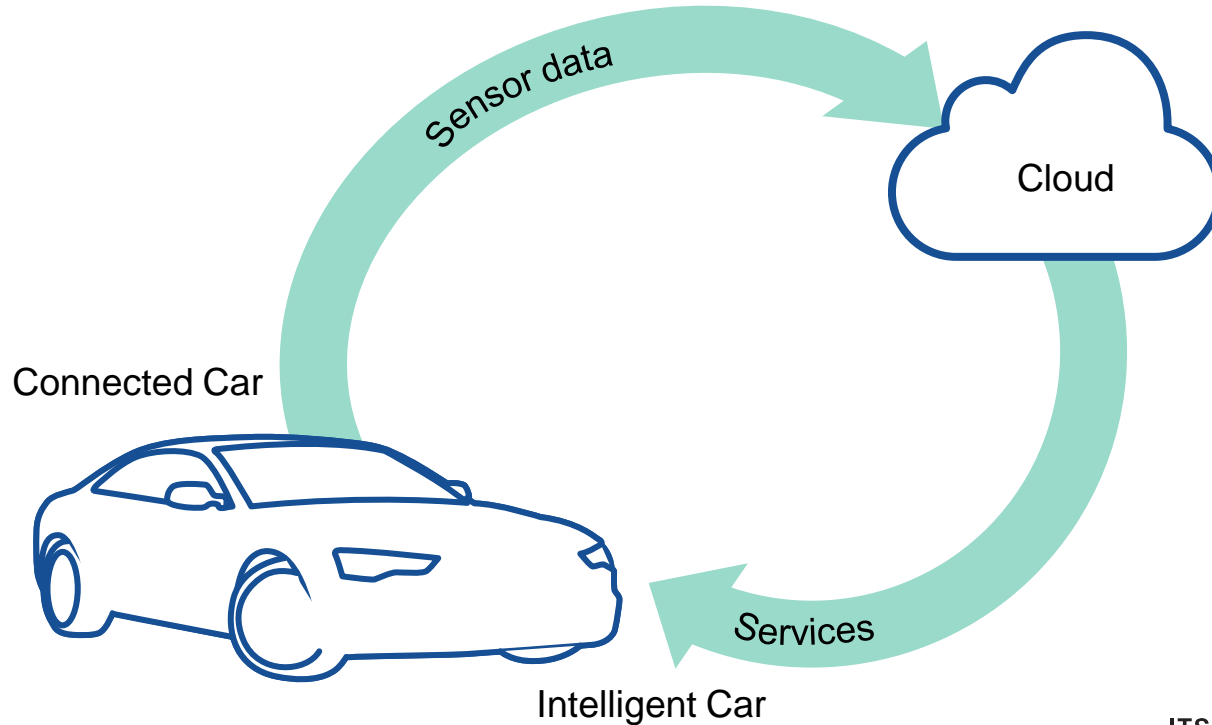
Prokop Jehlicka

HERE Technologies

SENSORIS – Vehicle based Sensor Data Interface



Closed feedback loop between the car and the cloud



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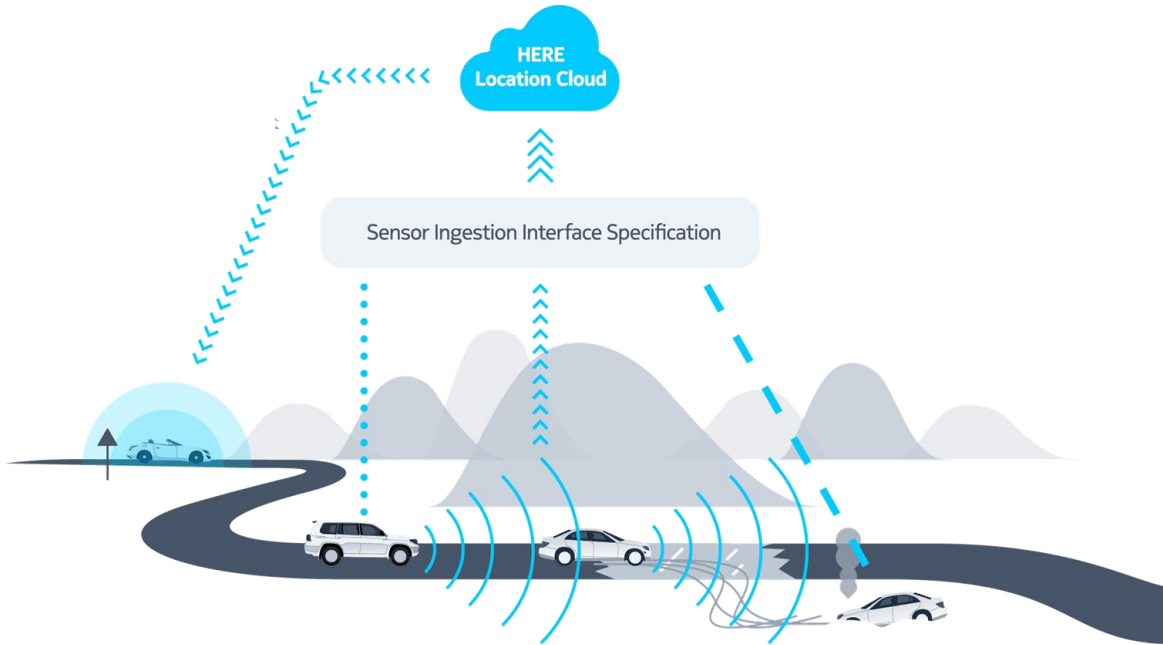
Interface Challenges

- Data incompatibility
- Siloed data streams
- Additional interfaces required to ingest data by third parties
- Data loss
- Implementation overhead



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Introducing SENSORIS

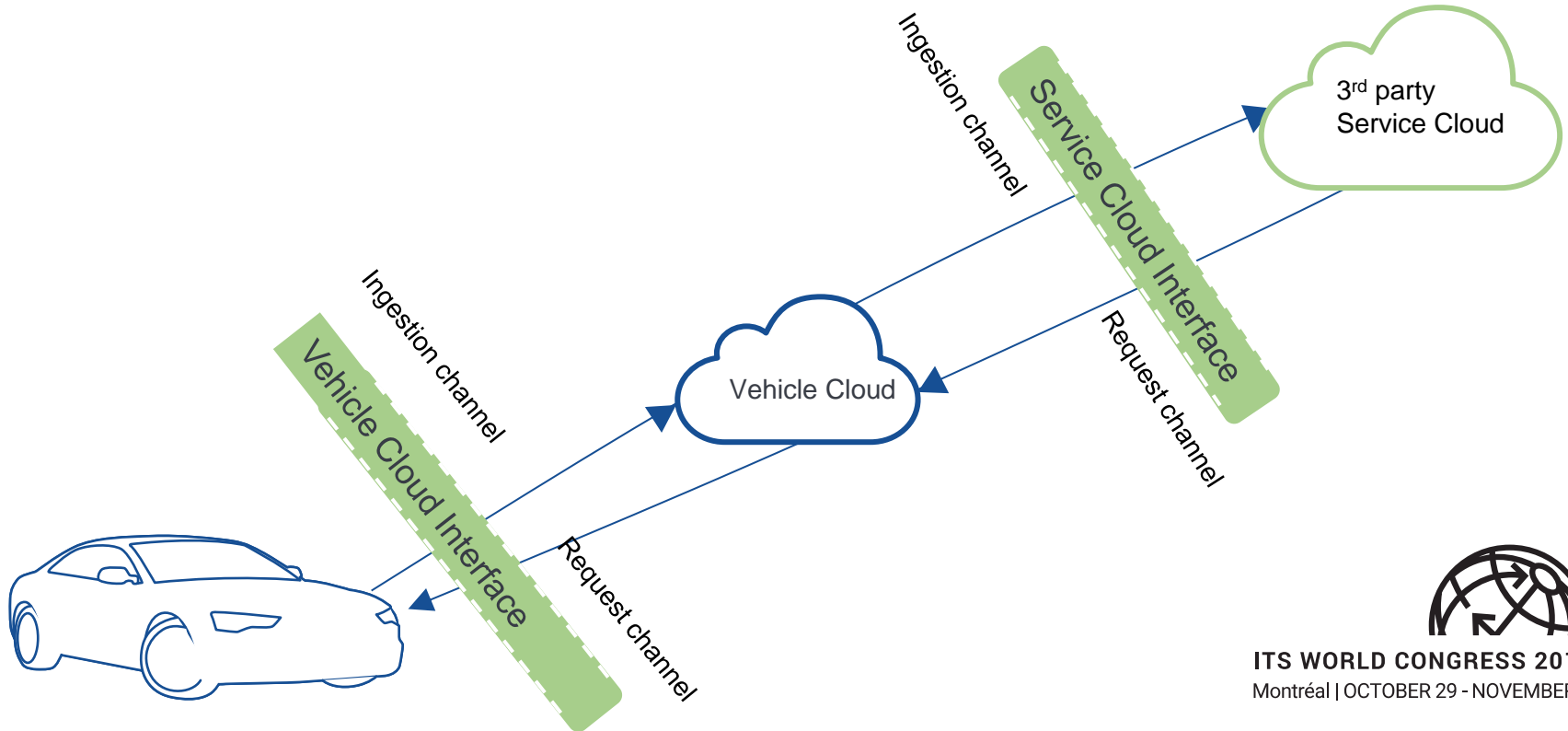


- Standardization of sensor data content
- Vehicle-to-Cloud / Cloud-to-Cloud
 - Sensor manufacturers
 - Car manufacturers
 - Location-based services provider
 - Mobile network operators
- Part of Open Autodrive Forum
 - Focus on Sensor Data upstream
 - Alignment with NDS, ADASIS, TISA
- Liasons with other Sensor Data specifications

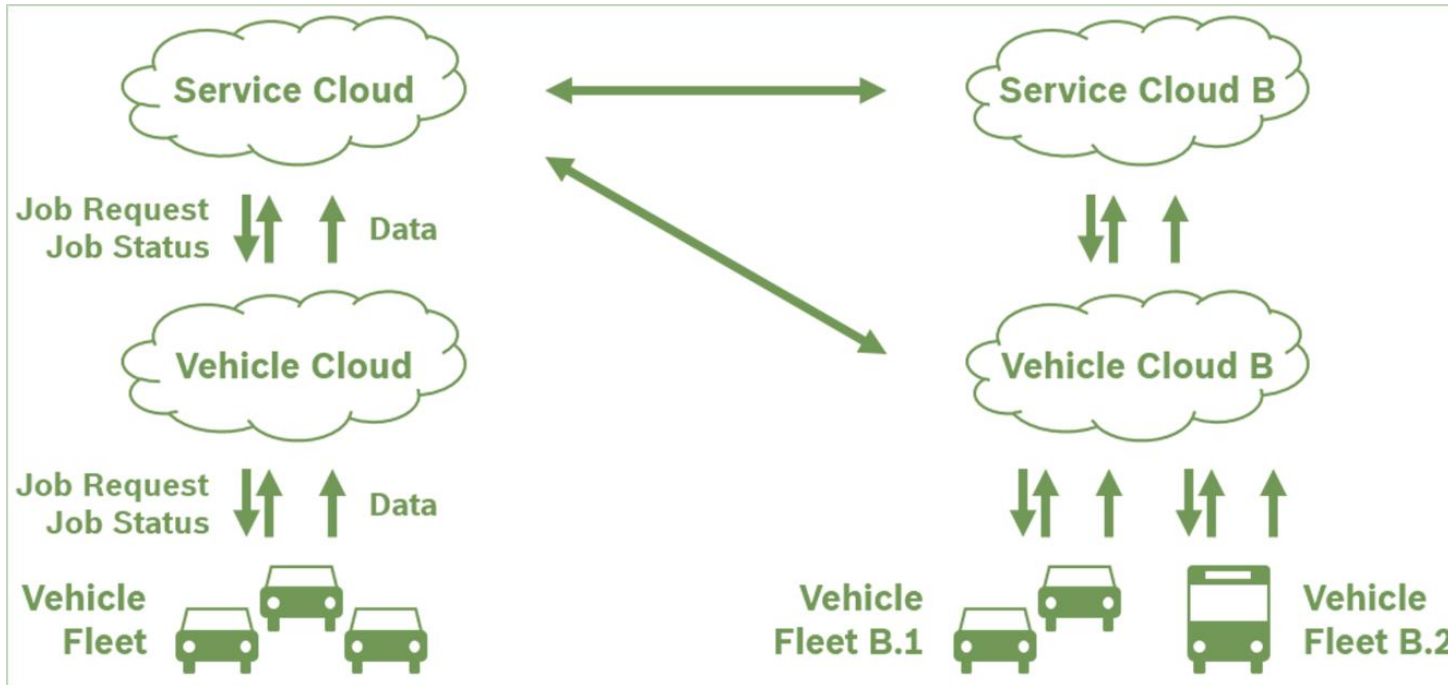


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The sensor data interfaces



SENSORIS architecture: Multi-role model



Use Case: Real-time services



Traffic flow
Traffic incidents



Hazard warnings



Environmental
conditions

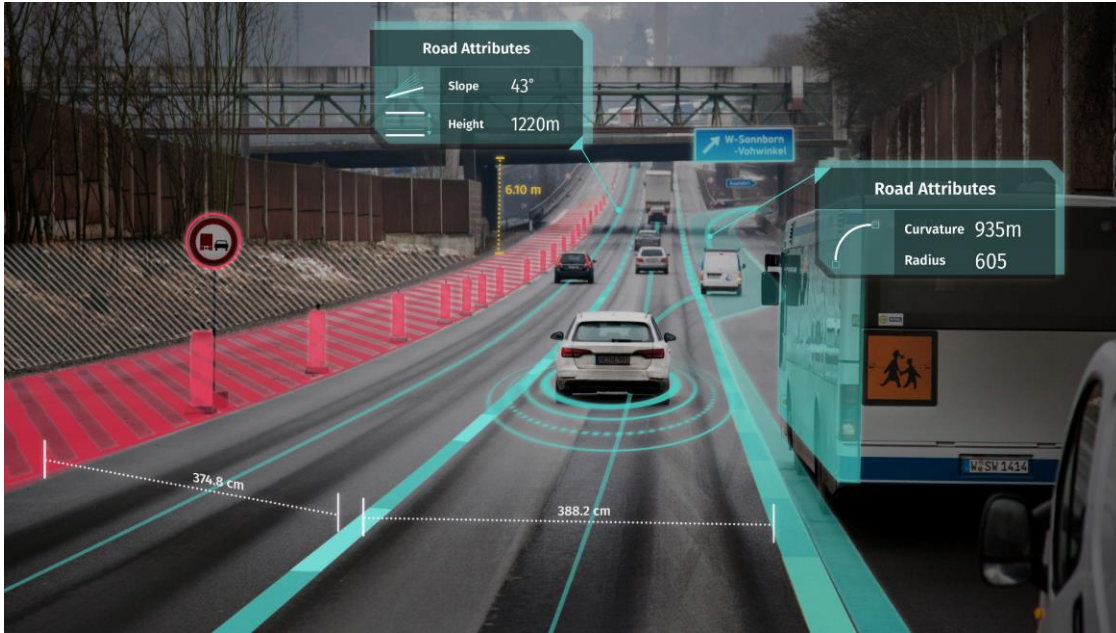


Traffic signage



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Use Case: Self-healing map

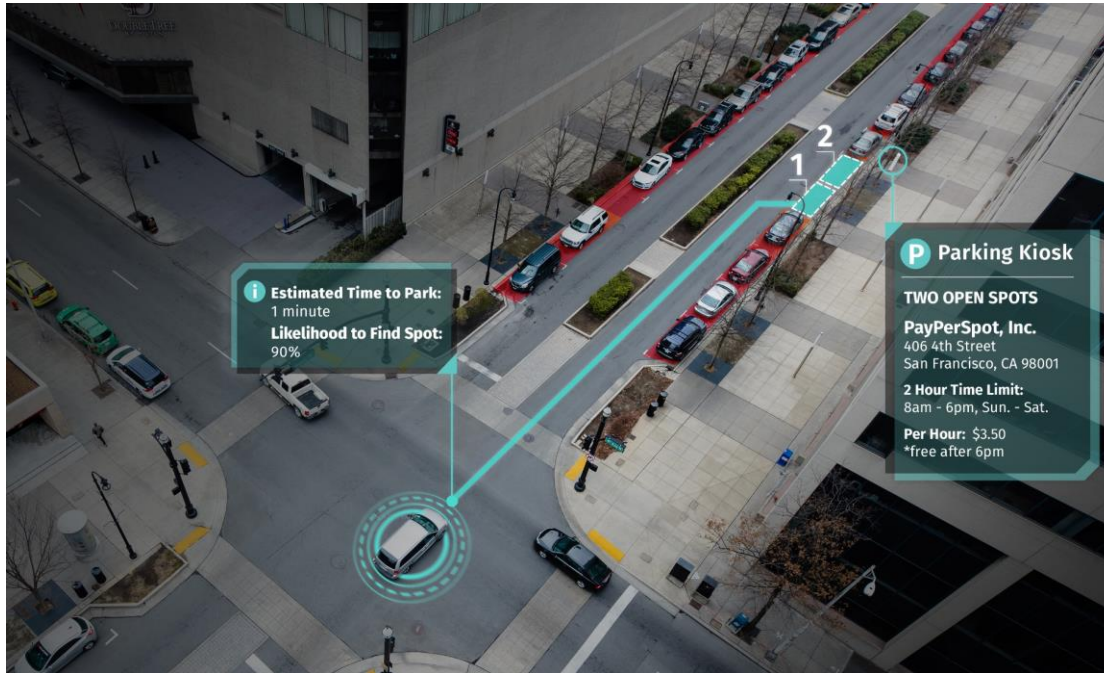


- Road geometry and attributes
- Lane geometry and attributes
- POI entries and exits
- Road condition



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Use Case: Statistical analysis

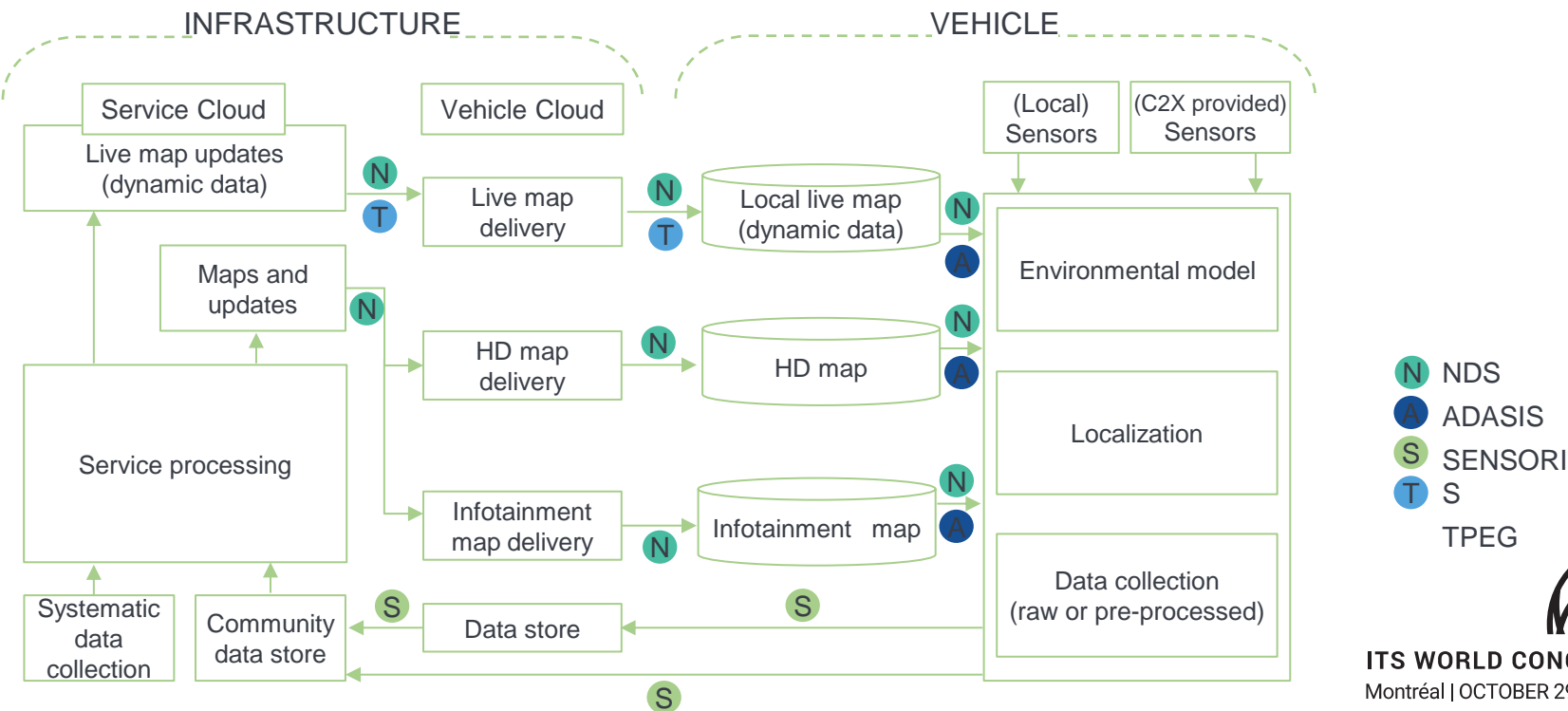


- Historical and real-time data analysis
- Personal preference learning
- POI recommendations



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SENSORIS in the context of other standardization efforts



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Thank you!

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