

# *IoT and Cloud-based services for Connected and Automated Vehicles (VI-DAS use cases)*

Cristian Olariu

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# IoT and Cloud based services for connected and automated vehicles (VI-DAS use cases)



- Connected car enablers:
  - Cognitive IoT
  - V2X and 5G
  - Cloud-based services

By 2020, the connected car will be the

**#1**  
connected application\*

**200**  
million

cars will be connected in 2015 and fully packed with sensor technologies\*\*

By 2020, connected vehicles will produce

**350** MB  
of data per second\*\*\*

## What is “self-driving?”

**Automated:** Driver must be present

- *Partially* – Driver monitors automatic functions, cannot perform non-driving tasks.
- *Highly* – System recognizes its limitations and calls driver to take control, if needed. Driver can perform some non-driving tasks.
- *Fully* – System handles all situations autonomously without monitoring by driver. Driver allowed to perform non-driving tasks.

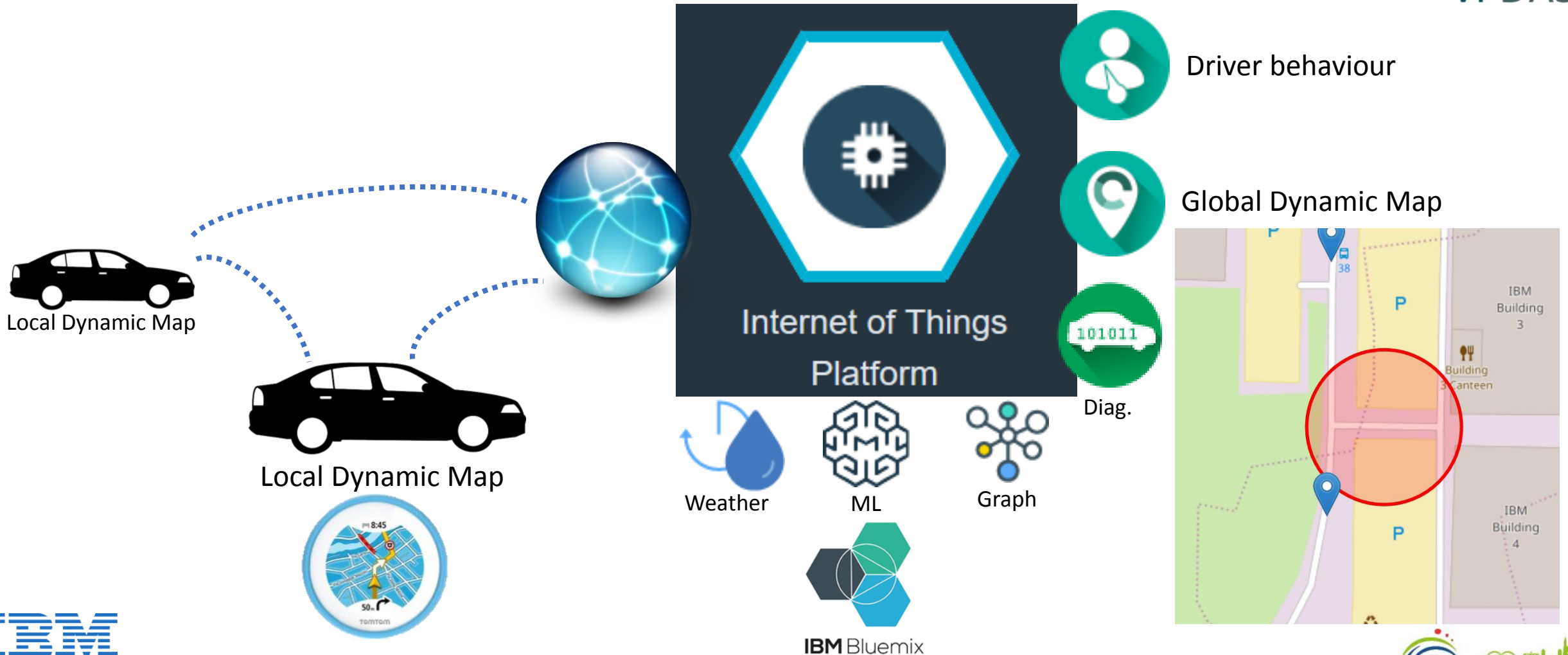
**Autonomous:** No driver required

- *Limited* – Designated areas where vehicles, infrastructure and the environment are controlled.
- *Fully* – Integrated with other vehicles in normal driving conditions.



Strasbourg, France | 19-22 June 2017

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## Global Dynamic Map

### Applications

Driver assessment

Manoeuvre support

Driving recommendations

### Services

Vehicle location

Driver status

ADAS status

Alert vehicles

Vehicle geofencing

Road condition





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