



HAPS FOR THE AUTOMOTIVE MARKET



"HAPS services could be a complementary valuable data source for some use cases"

Car manufacturer (about HAPS complementarity with in-car sensors)

250 million connected cars,
including 10 million self-driving ones, in 2020

Self-driving is already a reality
and different actors have launched their programs

Customers are moving to mobility-centric uses



Example of integration of HAPS in HERE value chain

Sensor Ingestion Interface Specification

The definition of a Message



A Message includes three core elements:



One Envelope (mandatory)
The envelope provides fundamental information about the originating vehicle. It does not identify a single vehicle or driver.



One Path (mandatory)
Each message contains one single Path and is a sequential list of PositionEstimates, ordered by UTC Timestamp



Path Events (optional but typically included)
Path Events provide additional information along a Path that may be of singular or continuous nature

UTC Time:

2015-06-24

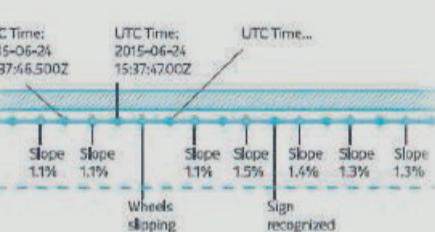
15:37:46.500Z

UTC Time:

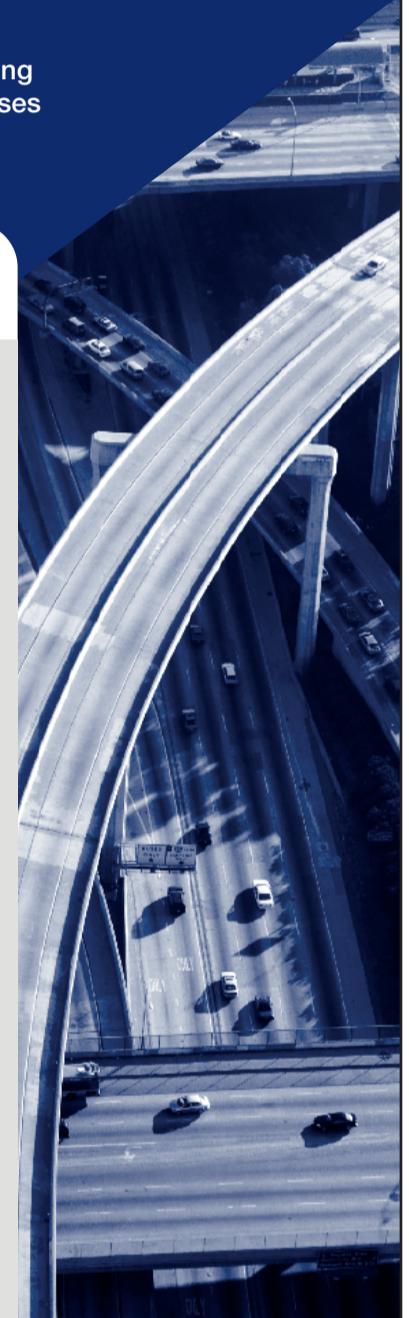
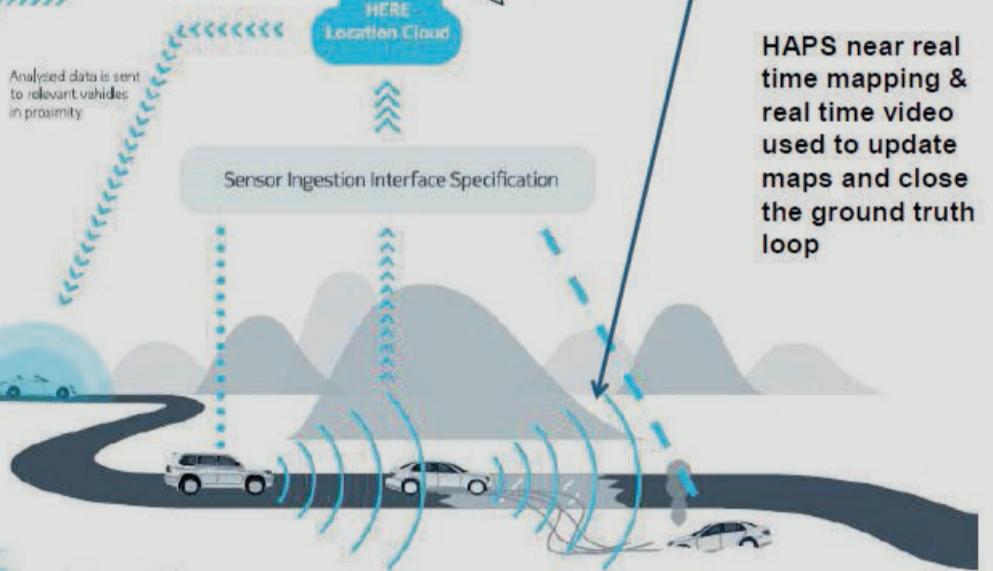
2015-06-24

15:37:47.00Z

UTC Time...



A message contains two types of Path Events:
A- Continuous nature
B- Singular Nature



What can Airbus Defence & Space HAPS do for the Automotive market ?

Provide frequently updated, high resolution digital mapping

Actual map lack accuracy and frequent updates



Provide real-time response to changing situations

Some obstacles are unpredictable and situations change fast

By providing very up-to-date images frequently



By providing frequent video clips of road traffic and situations

Mapping companies



Mapping companies

