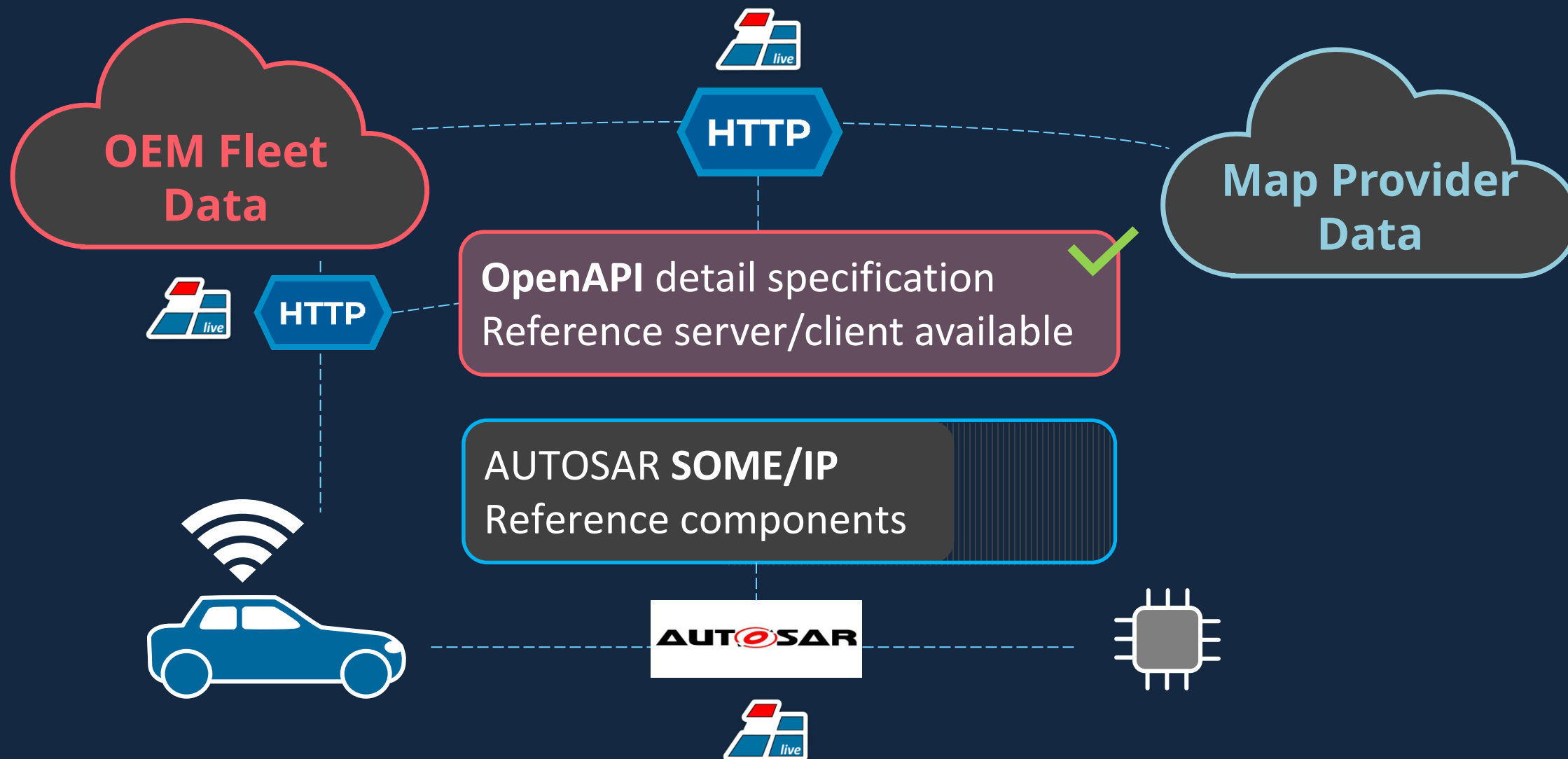


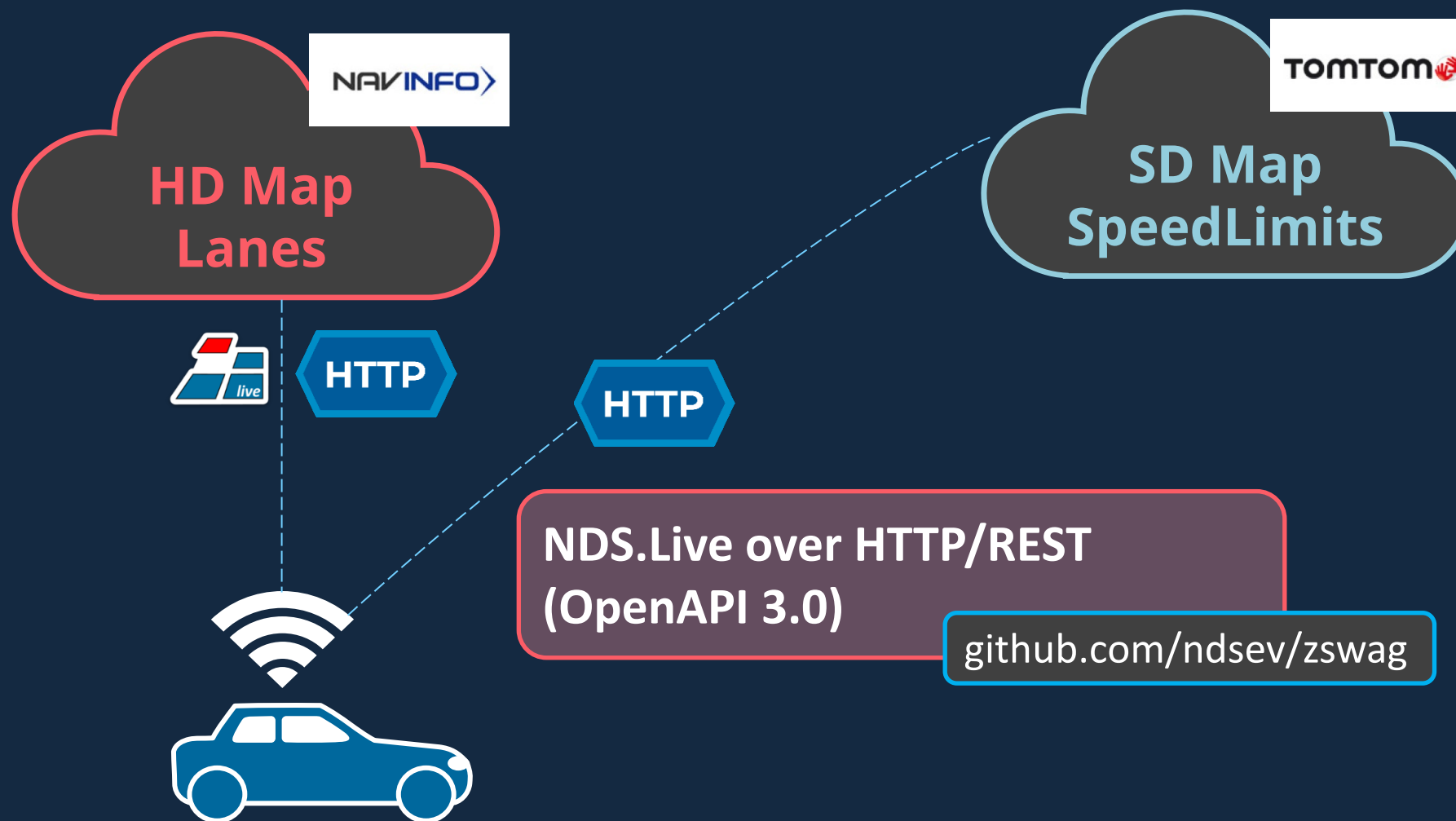
# HD Lanes and SpeedLimit App

Android Automotive OS using NDS.Live over HTTP/REST and SOME/IP

**Fabian Klebert, Technical Lead**



# Demo Architecture – Cloud services



# Demo Architecture – In-car communication



Android Automotive OS 11

Raspberry Pi OS

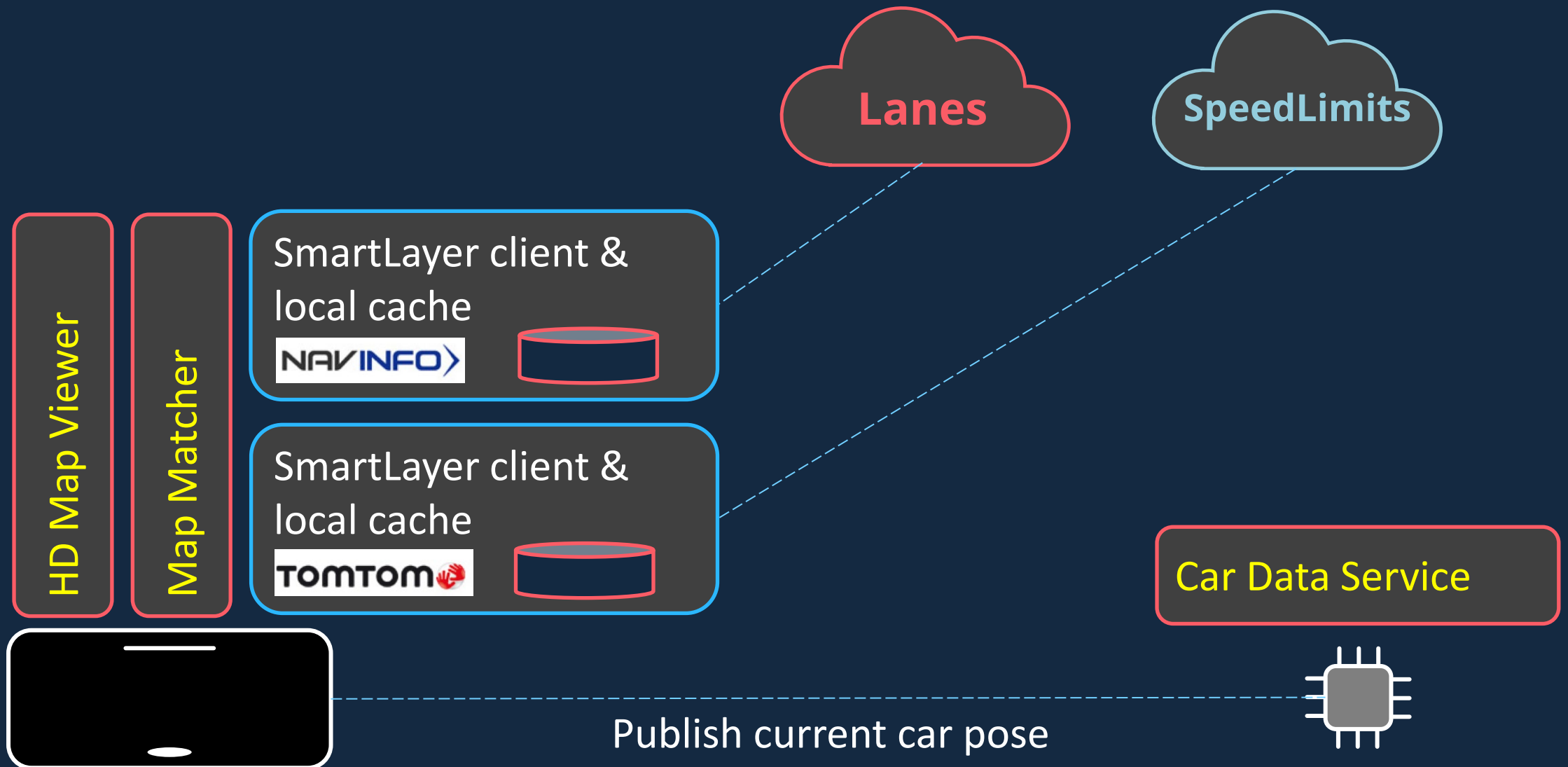


NDS.Live over SOME/IP

[github.com/klebert-engineering/zsomeip](https://github.com/klebert-engineering/zsomeip)

uses

[github.com/COVESA/vsomeip](https://github.com/COVESA/vsomeip)



Coverage: A81 motorway, Germany

**NavInfo** SmartLayerTiles

LaneLayer

LaneGeometryLayer

**TomTom** SmartLayerTiles

RoadGeometryLayer

RoadCharacteristicsLayer

RoadRulesLayer

HD Map Viewer

Map Matcher

Source code will be fully **made available to NDS members** after

... more documentation

... some refactoring

Yet to be decided by NDS Steering Committee if sources will be available for NDS.Live eval users

Plan to extend functionality in the upcoming **NDS.Live Hackathon**

## Built with

C++17, Qt 6.3, Cmake, Android NDK, OpenGL ES v3 .... and a lot of ❤️ 🧑🏿 🤖

## Built by



## Does not use

Android VMS  
real GNSS data yet

## Worth noting

Waypoints playback generated with LiveLab MapViewer extension  
Also runs on sample map NDS.Island 4

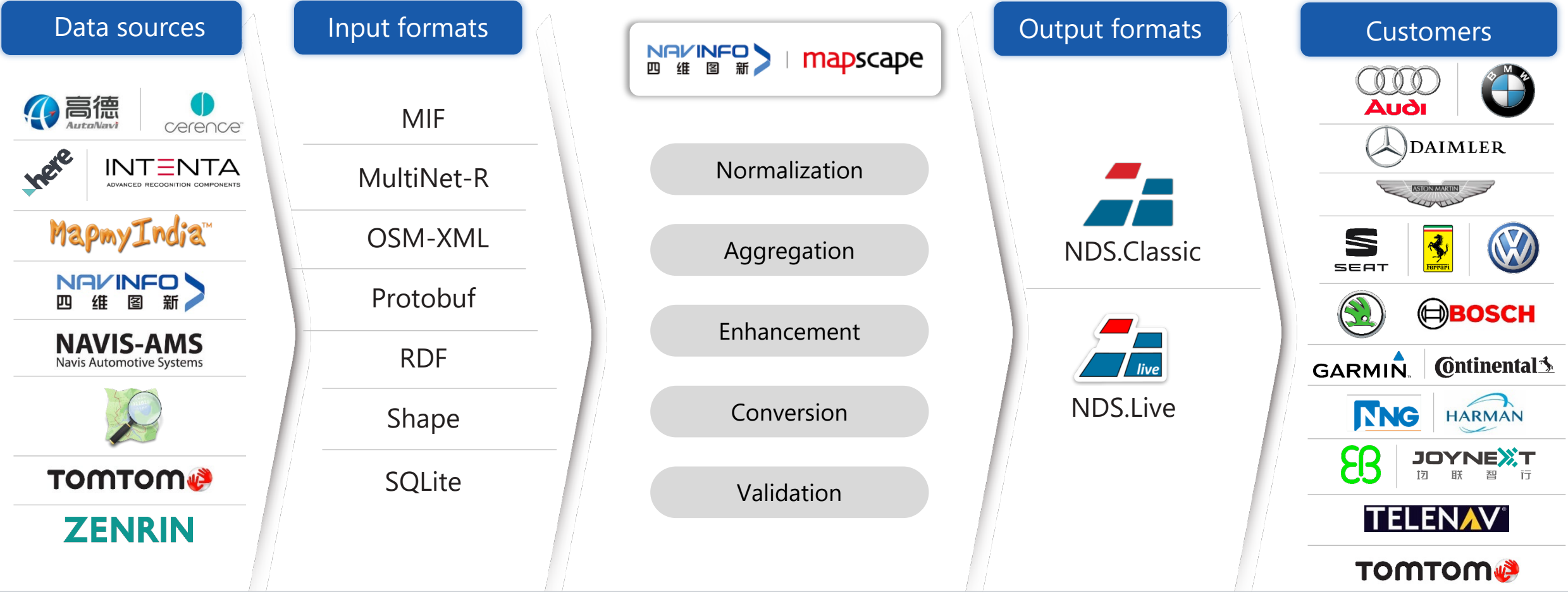
# NavInfo Europe - Mapscape

participating at NDS Public Conference

2022 May



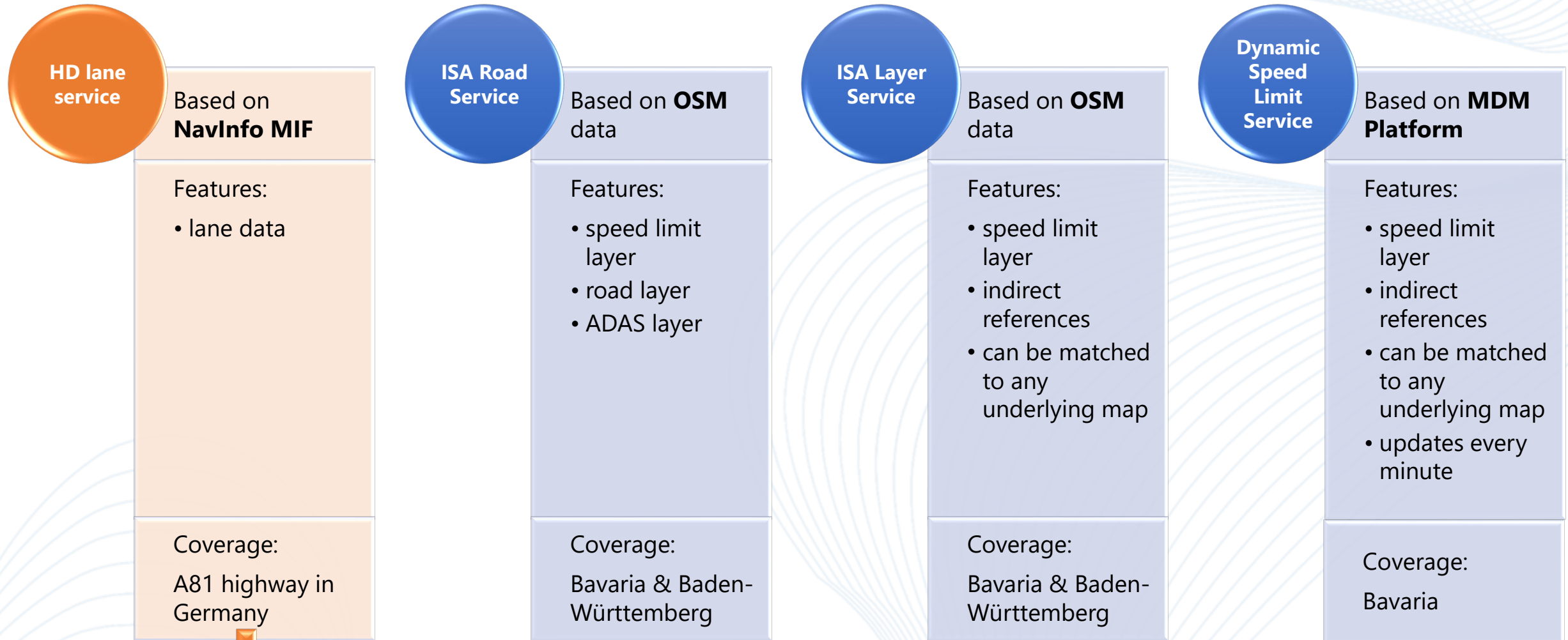
# NavInfo - Mapscape NDS Services



## CERTIFICATIONS



# Available NDS Live Services POCs



Used in demonstrator made by Klebert Engineering

# THANK YOU

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