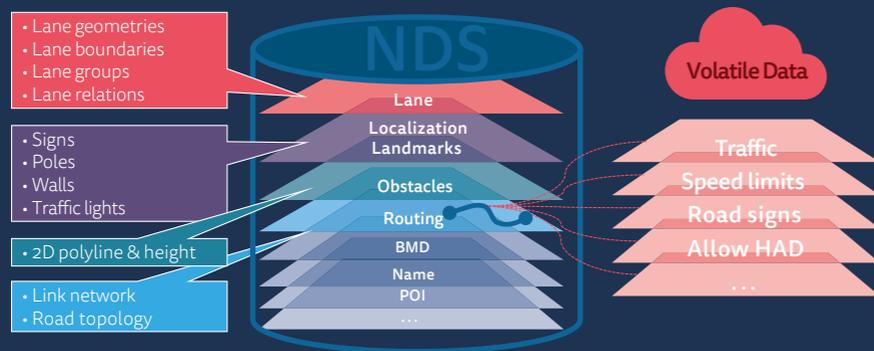


NDS is More Than a Map: It's How We Will Drive Tomorrow

Tomorrow's vehicles will combine map and sensor data for advanced driving automation. A standardized map will provide location references enabling the fusion of map and sensor data. We, the NDS Association members, believe that a common map standard is essential for creating a network effect. Because the automotive industry needs to work together on sharing data: The more data shared using a common data format and referencing system, the more each individual company can benefit from the data in return.

And we see the map as an additional sensor element for automated driving. One that includes the data that vehicle and infrastructure sensors cannot provide.

The map required for automated driving is a high definition map that enables vehicles to precisely locate themselves and data to be geo-referenced to precise locations. NDS offers the data specification for this kind of high definition map. Organized into specific building blocks, the data is layered with interconnected references. Distinct building blocks are defined for lane level data, localization data, obstacles data, and the routing building block with the link network and road topology. The combination of all these building blocks is designed specifically to support automated driving. In addition to a full database, the data relevant for automated driving can be rendered in tile form via an API.



An invitation to the Open Auto Drive Forum

The cross-domain platform driving standardizations in the area of autonomous driving

The Open Auto Drive Forum (OADF) hosts free and open events where automotive OEMs, automotive software and technology companies, start-ups, academia, and students present ideas, concepts, and roadmaps concerning the topics of automated driving, sensor data, and navigation solutions.

- Members of the following four standardization consortia come together at these events:
- ADASIS – defining the data exchange interface for Advanced Driver Assistance Systems.
 - NDS – THE worldwide standard for automotive map data.
 - SENSORIS – defining the interface specification for vehicle sensor data.
 - TISA – defining traffic and travel information services and products.

And you can join too. Sign up as a member to get up-to-date information and news.

ON THE ROAD TO AUTONOMOUS DRIVING



www.openautodrive.org

Sign up as a member to get up-to-date information and news.

NDS



THE worldwide

worldwide coverage and global adoption

standard for map data

one specification with enough flexibility for a customized user experience

data model (structure & semantics), storage format, interfaces, protocols

in automotive eco-systems

in-vehicle applications, companion applications, cloud applications, vehicle related services, supporting navigation, driver assistance and automated driving



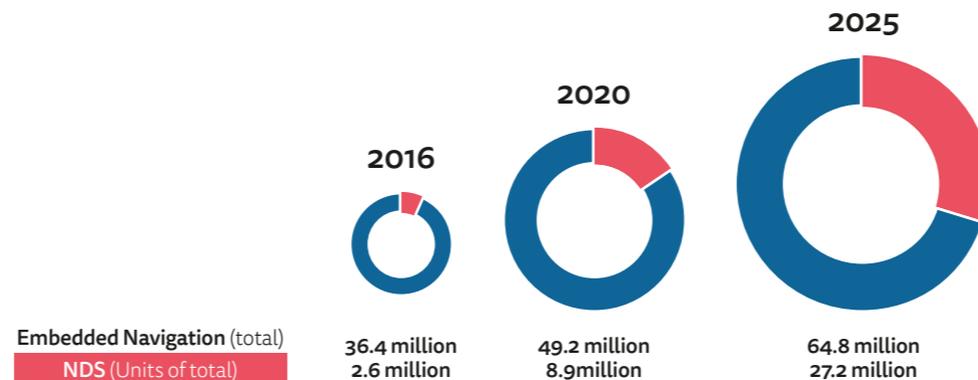
Join the NDS Association and Collaborate With the Industry Experts

- Use NDS specification and technologies in your automotive projects
- Actively define additions and future versions of NDS to meet your needs
- Participate in research and pre-development for automotive technologies

The NDS Association members are car manufacturers, application/compiler developers, as well as map and service providers. The ambition of NDS is to define a common map standard specification that enables the network effect needed to make automated driving a reality and to deliver on the promise of convenience and safety when getting from A to B.

NDS and Autonomous Driving – Growing Together

“NDS is expected to become a must-have solution in the future”, says the Frost & Sullivan study “Navigation Data Standard (NDS) in the Global Automotive Navigation Market”, published in September 2017.



NDS technologies like map streaming and support for mobility technology were not even assessed at the time of the study. The corresponding NDS solutions will give an additional boost to the market share of NDS.



... get in touch today!

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