

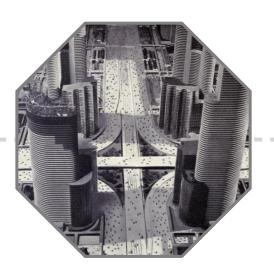
History of Autonomous Vehicles



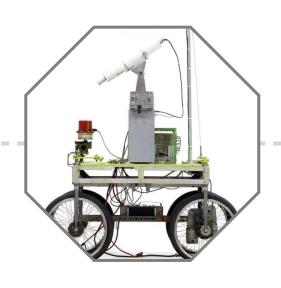
16th Century Leonardo da Vinci self propelled



1925 Houdina radio-controlled car



1939 NY Futurama Exhibit



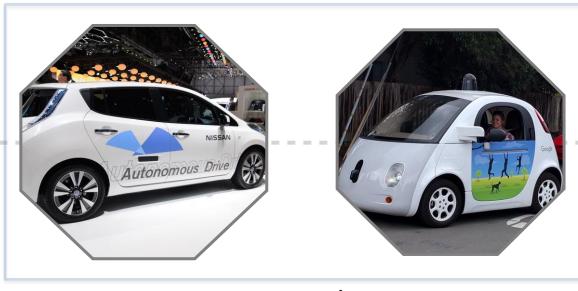
1961 Stanford Moon Cart



1995 Navlab 5



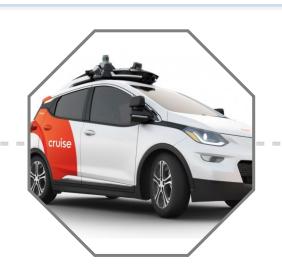
2004 DARPA Grand Challenge











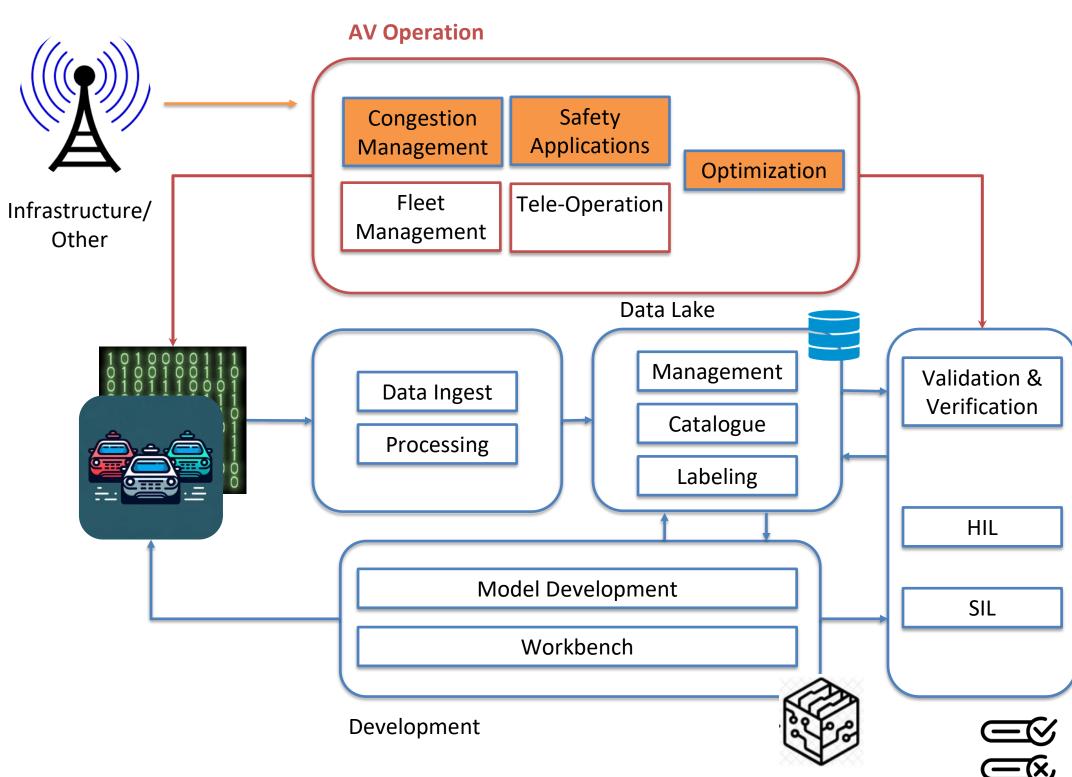




NOW

Data & Autonomous Vehicle





Optimization Sustainability Digital Transform Digitization Digitalization Data Collection & Data Awareness & **Data Storage &** Data Analytics, **Data Visualization &** Continuous **Data Governance** Integration Culture Management **Insight & Apps** Communication **Improvement** Maturity Siloed Storage Digitization **Analytics** Web-based Security Offline Ingestion Dynamic **Cloud Repository** Interactive **Data Fusion** Complexity Machine Learning Real-time **CCPA** Large-Scale Gen-Al **GDPRA** Data Lake **Predictive Analytics** Data-driven **Applications**

Services

davteq



Sustainable Autonomous Mobility



Data & Digital Transform



Analytics, Machine Learning and Al



Software Development



UX & UI



Technical Program Management

davteq



Harm Jan Mostert

Sr. Advisor, Automated Driving RDW

"Data and Automated Vehicles"

Public agency perspective

Use Cases

Challenges and Path Forward



Dr. Liam Pedersen

Chief Scientist Nissan Advanced Technical Center – Silicon Valley

"Infrastructure-Based Solutions for Connected and Automated Vehicles"

OEM/Private Sector perspective

Use cases

Challenges and Path Forward



Randy Iwasaki

CEO Iwasaki Consulting Services

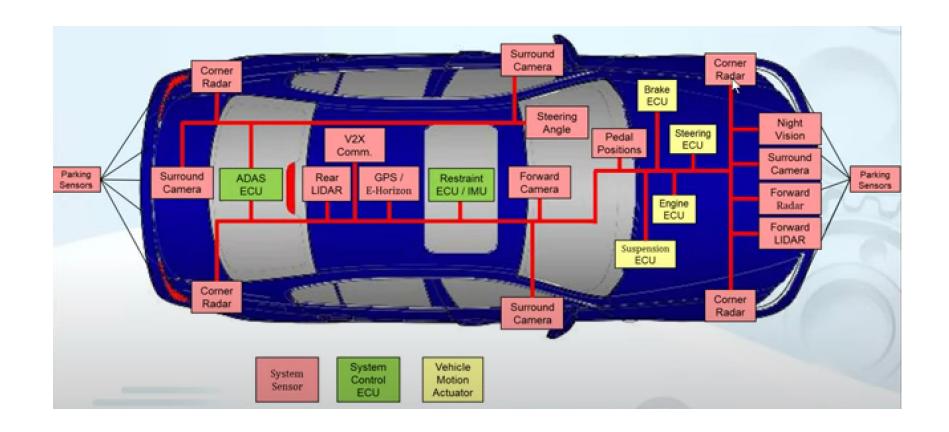
"CAV Technology Update"

Connecting both public and private perspectives

New use case

Challenges and Path Forward





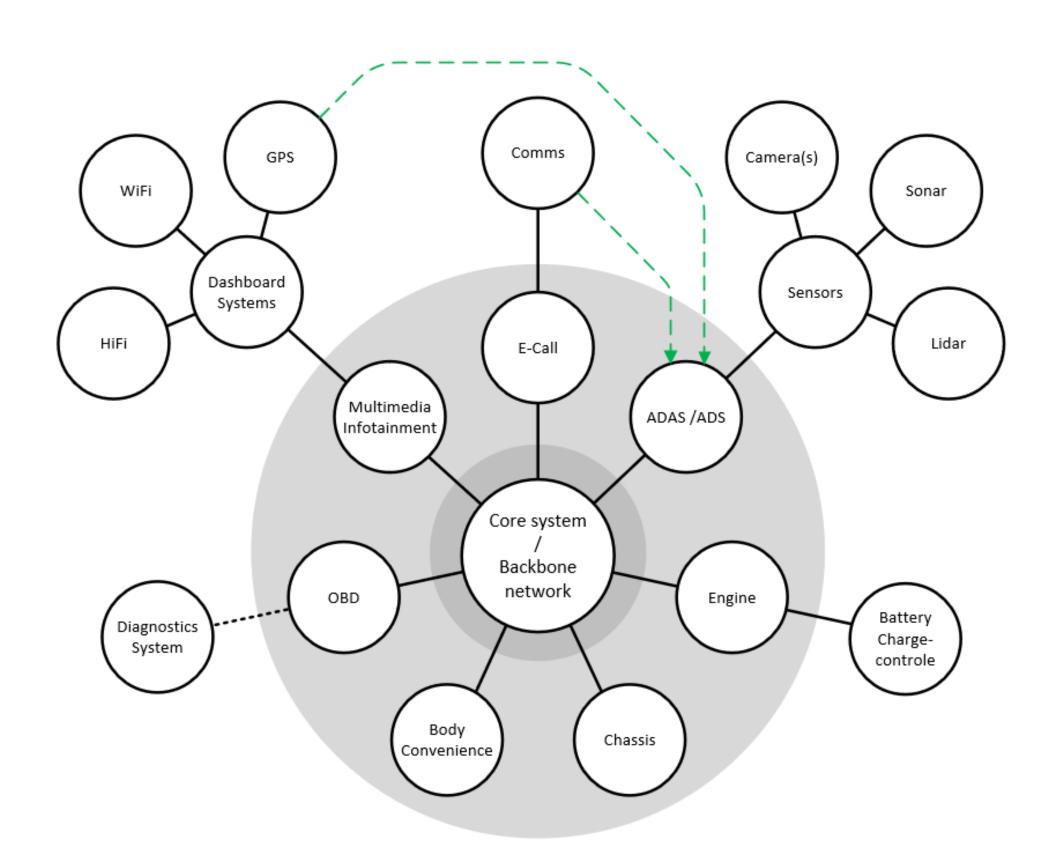
Data and automated vehicles

Vehicle authority perspective

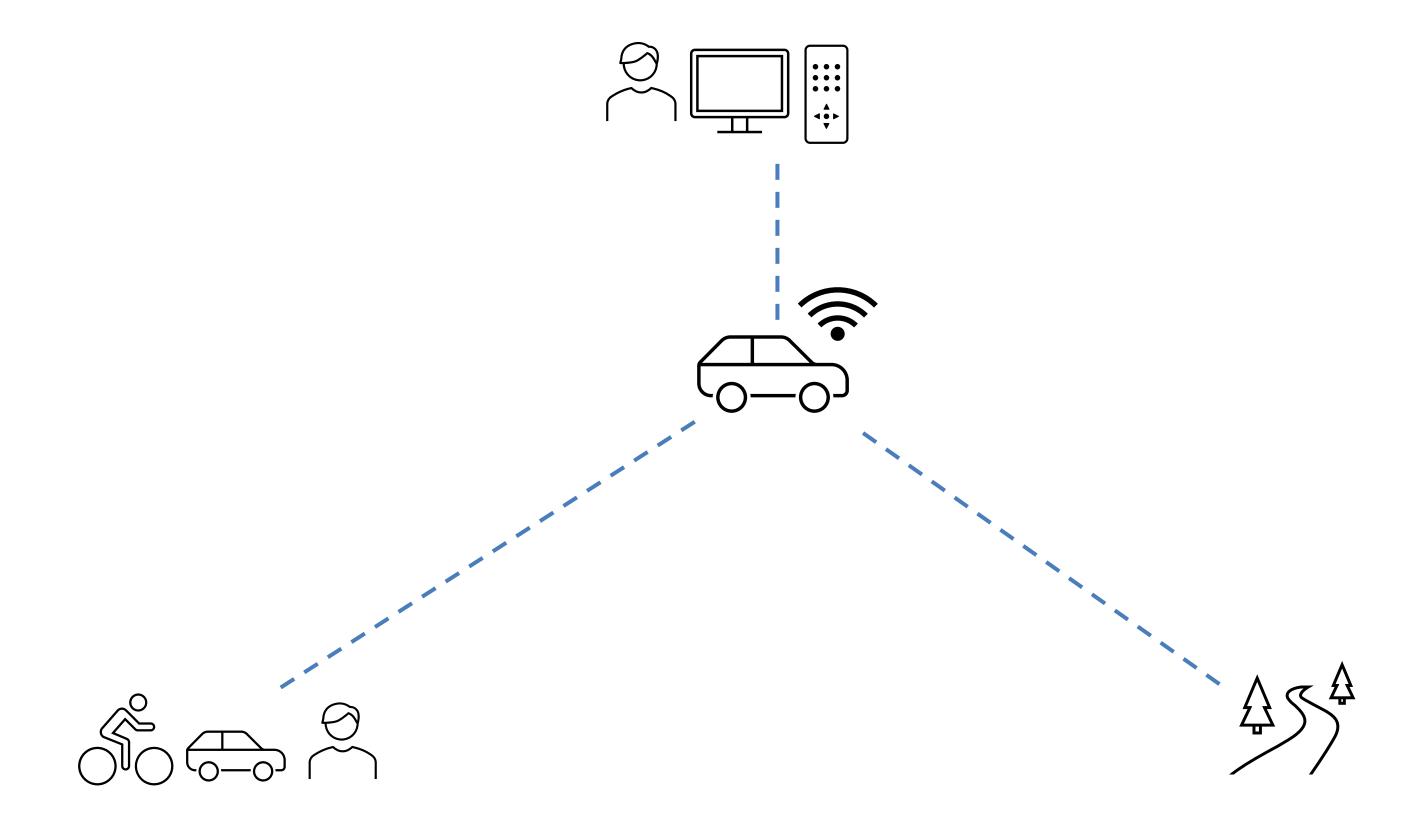
April 16th 2024, Harm Jan Mostert

Netherlands Vehicle Authority Safety, sustainability and liability in mobility

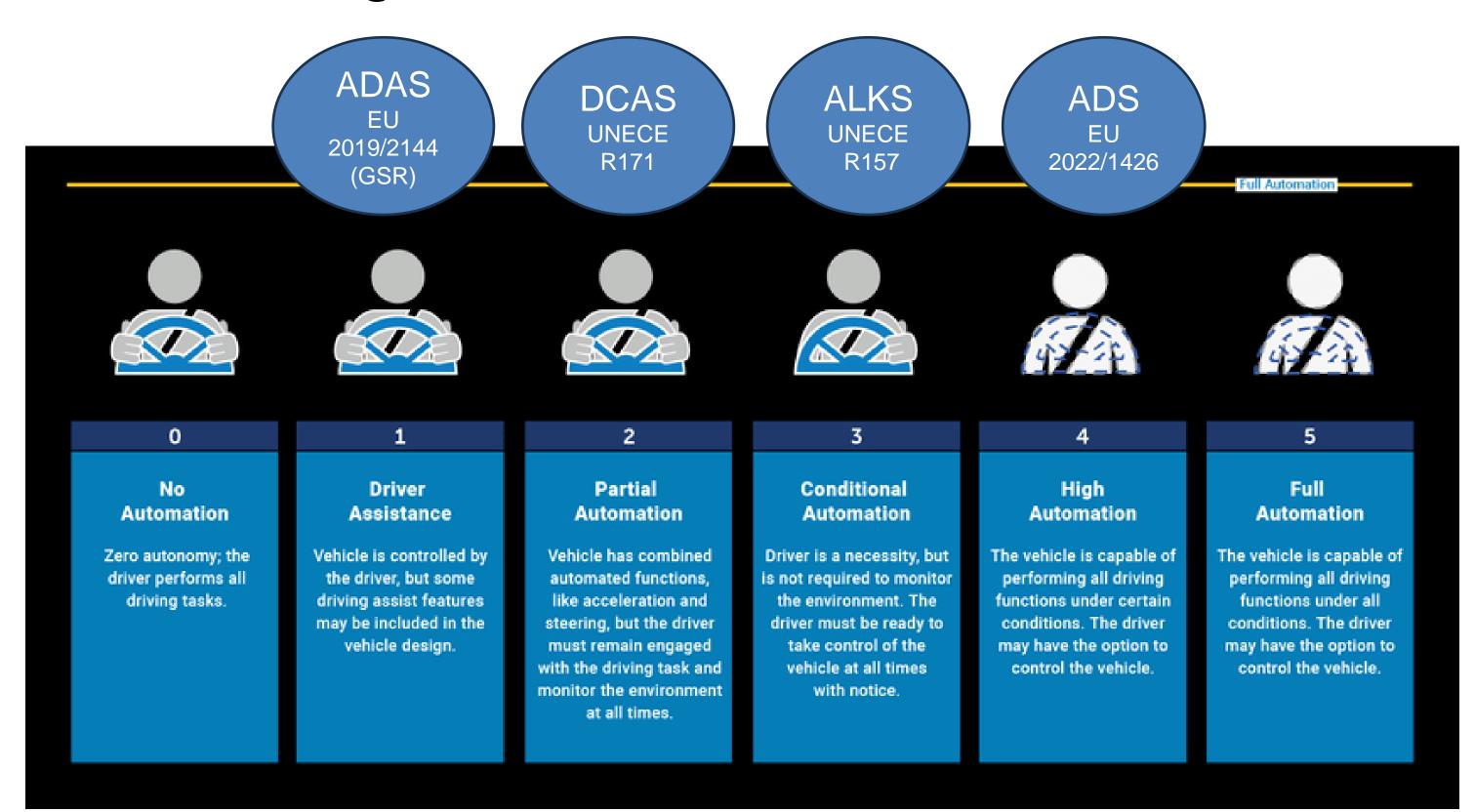
Automated vehicle = 'data'



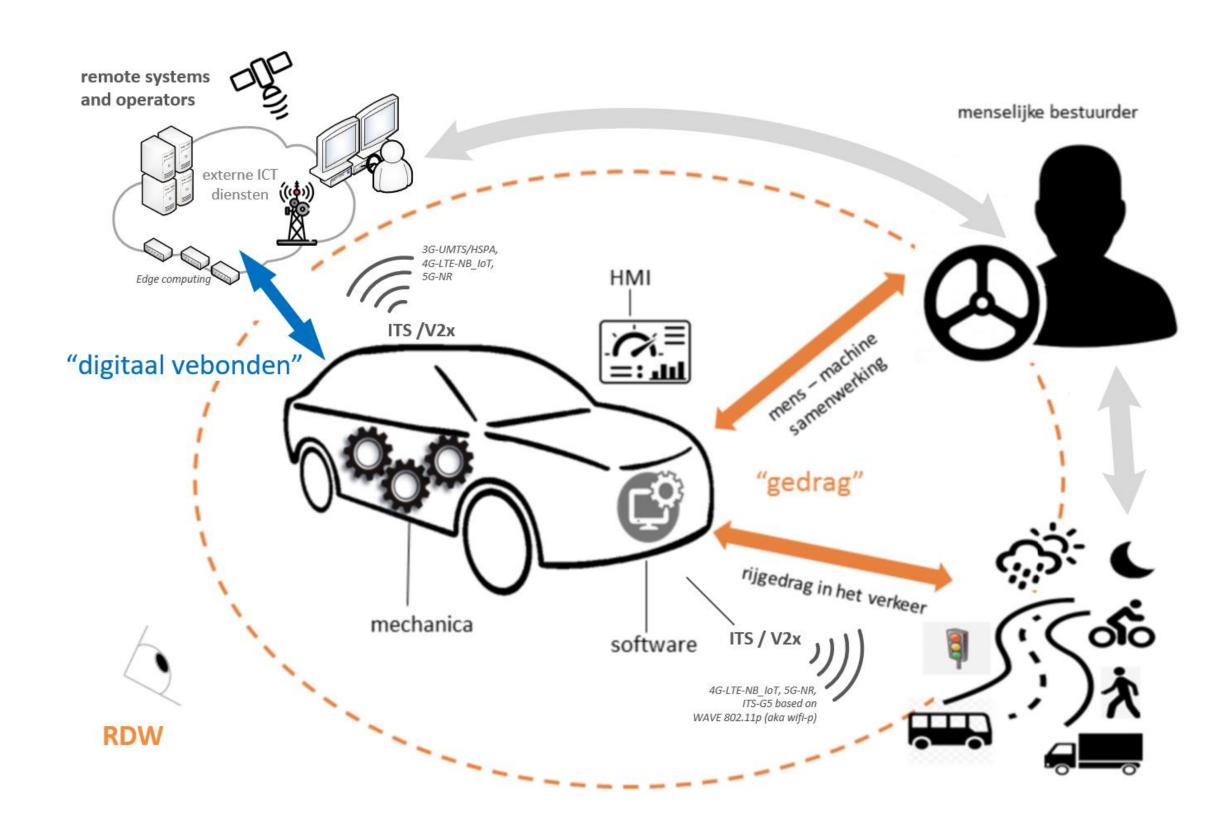
Communication of the ADS vehicle



Regulations for ADAS and ADS vehicles



Digital and connected



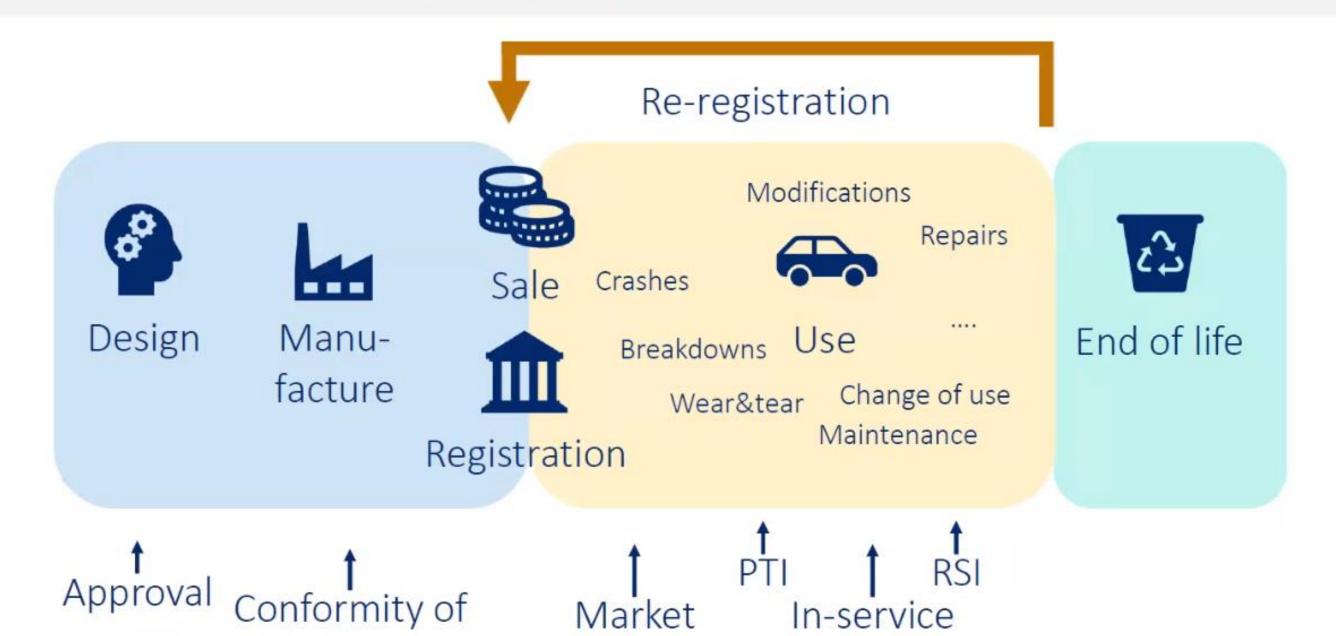
Use cases for automated driving support

- Earlier and smoother automated actions
- Automated parking
- Merging
- Cooperative automated driving: platooning, coordinating intersection
- Collision warning and avoidance
- Remote driving

THE VEHICLE'S LIFE

Production





surveillance conformity

Focus on the use cases that have most positive impact on society: safety, sustainability and liability

Data is the key, but also the lock

Regulation and standardisation is needed to make impact

Consumer should be in the lead and on the steering wheel

Level playing field

Thanks for your attention!