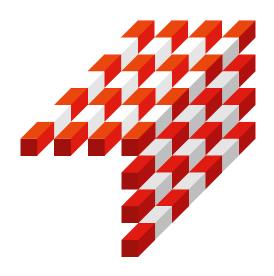
Mapping the road to autonomous driving

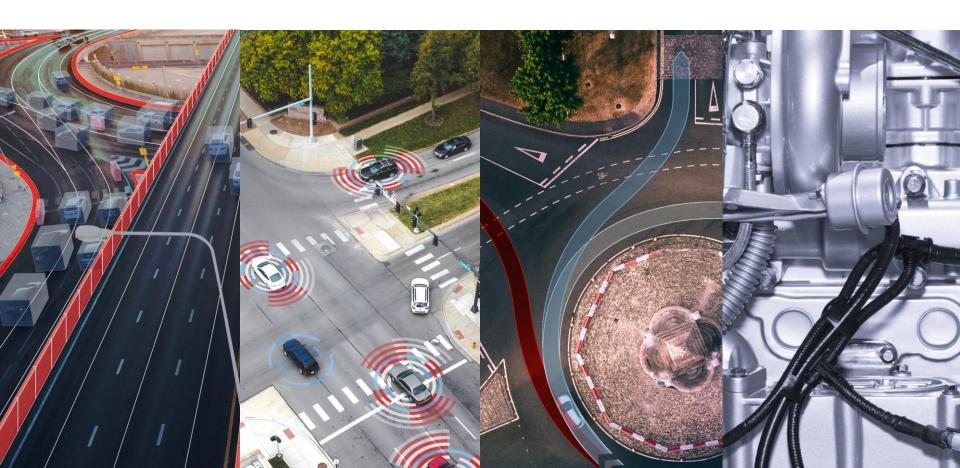


Willem Strijbosch
Head of Autonomous Driving





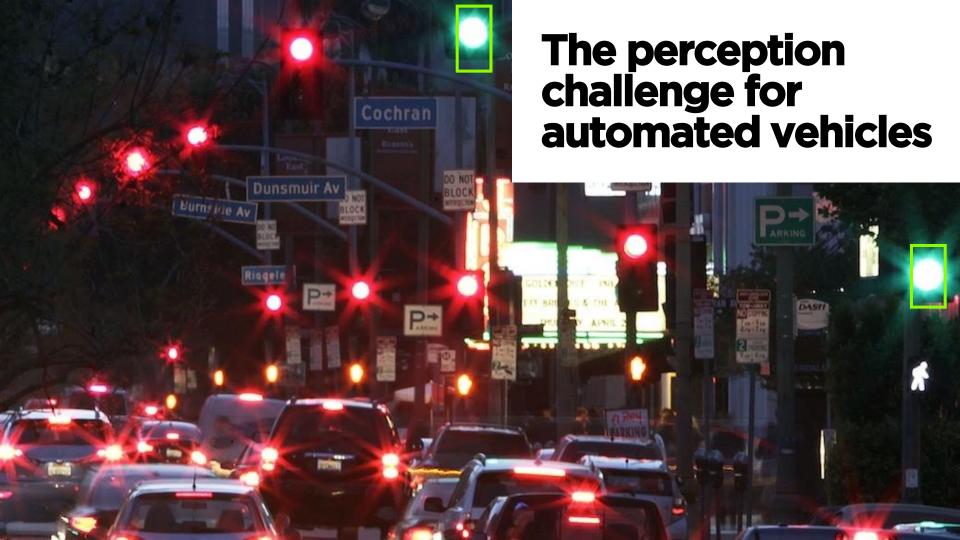
The pillars of autonomous driving

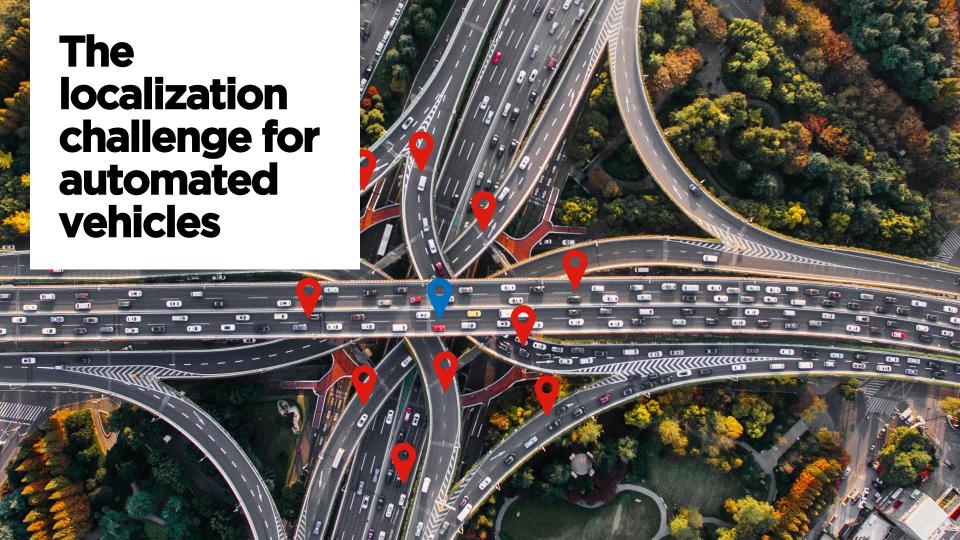




TomTom maps for ADAS & AD

			_		
LEVEL O	LEVEL 1	LEVEL2	LEVEL 3	LEVEL 4	LEVEL 5
Driver controls all aspects of driving	Automated subsystems	Combined automated subsystems	Hands-off conditionally	Automated on certain roads	Automated on all roads
ADAS Map	ADAS Map	ADAS / HD	HD Map	HD Map	HD Map
	ADAS			AD	

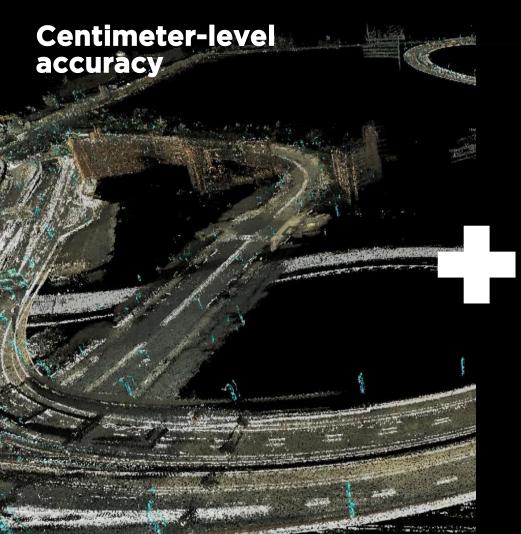


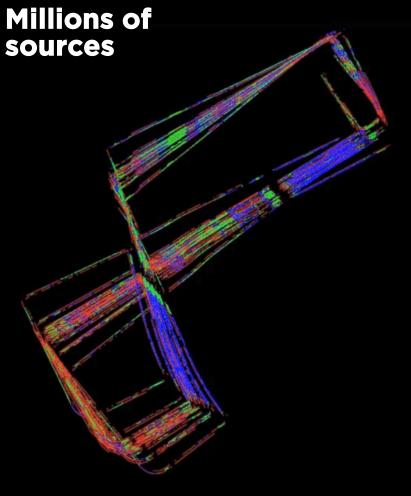


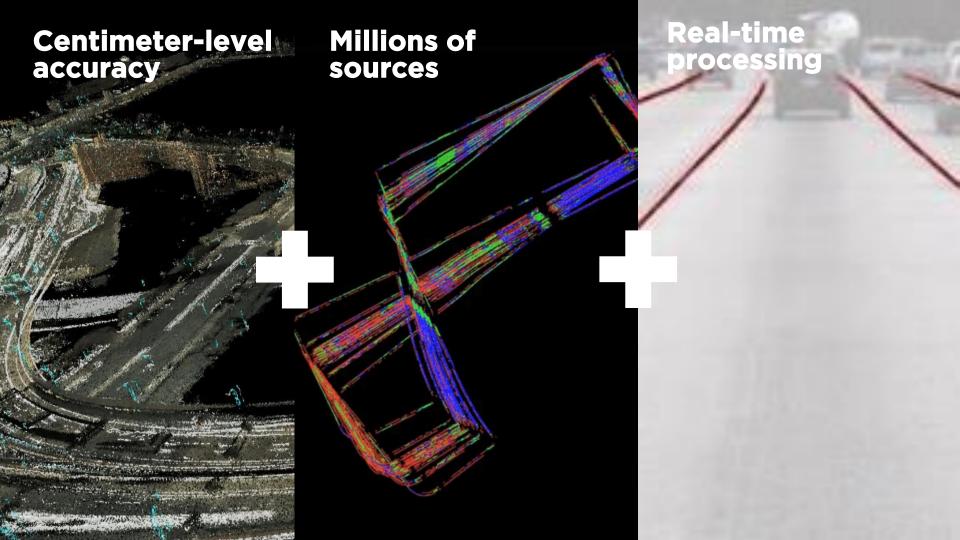


How do we make HD maps?









AutoStream

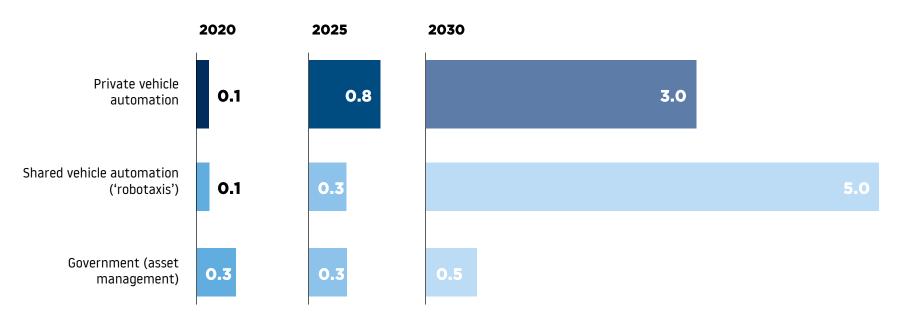
Map Delivery for Autonomous Driving

Start



Large opportunity, first in private vehicles, later in robotaxi

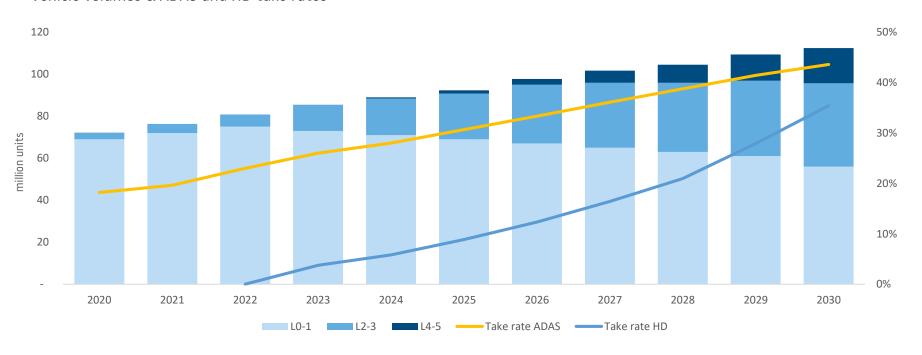
Market value (€ billion) - all products (ADAS Map, HD Map, Hazards Service)



Rising volumes in levels of automation

Technology developments bringing new and improved features into the car and driving costs down for consumers

Vehicle volumes & ADAS and HD take rates



Competitive advantage

Customer experience

- Automotive sales force
- Cumulative domain knowledge
- Global presence
- Independence

Leading technology

- Transactional map making
- Shortest cycle times
- Technology built up over the years (AI, computer vision)

Most complete product portfolio

- AutoStream
- SD Map
- Real-time service capability (Live Map)
- Automotive system integration services



TOMTOM LEADS IN HD MAPS



MARKET SHARE IN AWARDED DEALS AS MEASURED BY TOTAL CAR VOLUME



GLOBAL MAPPING COMPANY THAT HAS FULL AUTONOMOUS STACK IN HOUSE FOR TESTING AND DEMONSTRATION





TO COVER HIGHWAYS IN EUROPE, US, JAPAN, SOUTH KOREA

Important Notice

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This document contains certain forward-looking statements with respect to the financial position and results of TomTom's activities. We have based these forward-looking statements on our current expectations and projections about future events, including numerous assumptions regarding our present and future business strategies, operations and the environment in which we will operate in the future. These forward-looking statements are subject to risks and uncertainties that could cause actual results to differ materially from those expressed in the forward-looking statements, and you should not place undue reliance on them. Many of these risks and uncertainties relate to factors that are beyond TomTom's ability to control or estimate precisely, such as levels of customer spending in major economies, changes in consumer preferences, the performance of the financial markets, the levels of marketing and promotional expenditures by TomTom and its competitors, costs of raw materials, employee costs, exchange-rate and interest-rate fluctuations, changes in tax rates, changes in law, acquisitions or disposals, the rate of technological changes, political developments in countries where TomTom operates and the risk of a downturn in the market. Statements regarding market share, including TomTom's competitive position, contained in this document are based on outside sources such as specialized research institutes, industry and dealer panels in combination with management estimates.

The forward-looking statements contained herein speak only as of the date they are made. We do not assume any obligation to update any public information or forward-looking statement in this document to reflect events or circumstances after the date of this document, except as may be required by applicable laws.

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Thank you

