

Horizon 2020 - "Automated Road Transport"

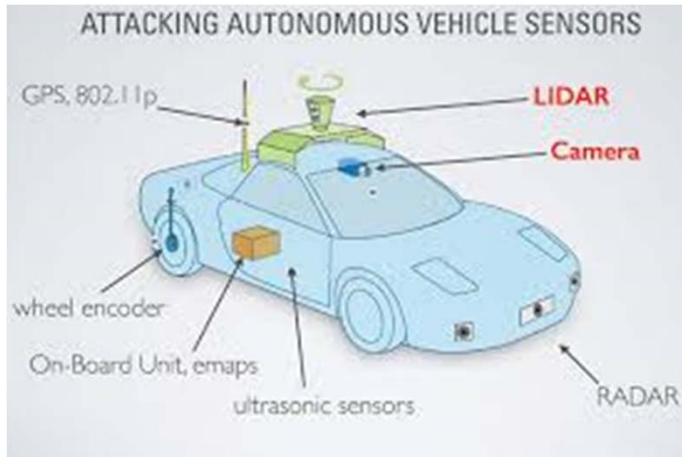
Brussels, 14 December 2017
ALICE Infoday and Brokerage Event

Ludger Rogge
Directorate-General for
Research & Innovation

HORIZON 2020

European Commission

H2020 - Calls on "Automated Road Transport" 2016/17



□ Call "Automated Road Transport" 2016/17

- Budget: € 114 Mio
- Support short term introduction of automated driving systems (level 3) for passenger cars, trucks and urban transport
- First projects resulting from the 2016 call have started in 2017.
- Proposals resulting from the 2017 call are under evaluation.



H2020 – R&I projects (ART call 2016/17)



Automation Pilots for Passenger Cars

- L3Pilot
- AutoPilot



Safety and end user acceptance

- InterAct
- TrustVehicle
- BRAVE



Road infrastructure to support automation

- CoExist
- InfraMix
- TransAid



ICT infrastructure to enable road transport automation



Multi-brand platooning in real traffic conditions



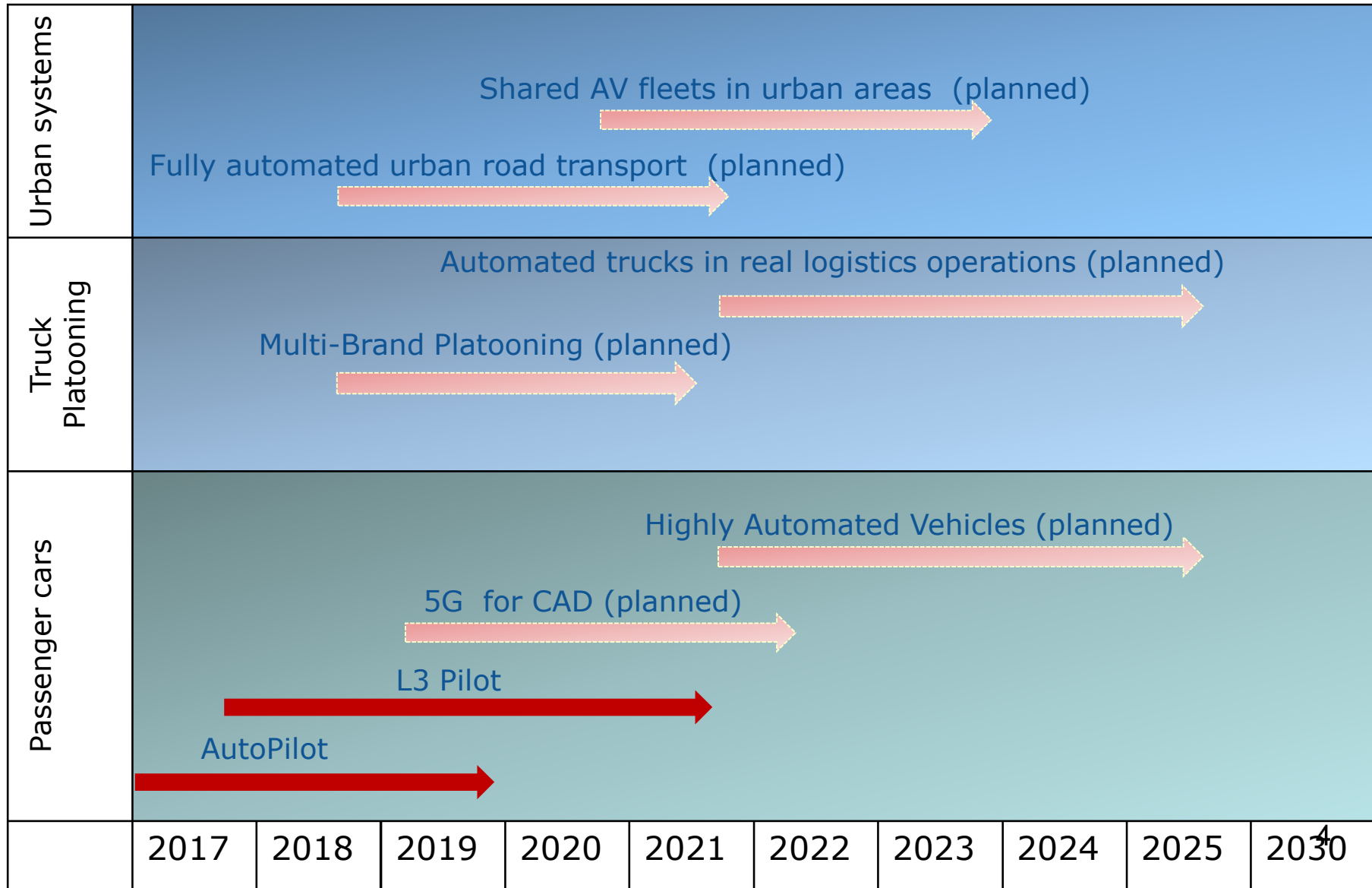
Automated urban transport systems

2016 Call

2017 Call



H2020 – Ongoing and planned large-scale demos





- Builds on previous Workprogramme ART 2016-17
- Focus on large scale demos of highly AD systems (level 4)
- Proposed topics (2018-2020)
 - **Testing and validation procedures**
 - **Assessment of impacts, benefits and costs of CAD systems**
 - **Support for cooperation and networking activities**
 - **Human centred design of AV**
 - **Large-scale demonstrations**
 - Shared automated vehicles in urban areas
 - Highly automated driving functions for passenger cars
 - Automated heavy duty vehicles in real logistics operations
- International cooperation

Calls "Automated Road Transport" 2018-20 – Topics & Budget

	DT-ART	Topic Description	Action type	€ (Mio)
2018	01	Testing, validation and certification procedures for highly automated driving functions	RIA	6
	02	Support for networking activities and impact assessment for road automation	RIA	6
CSA			3	
2019	03	Human centred design for the new driver role in highly automated vehicles	RIA	8
	04	Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all	IA	30
2020	05	Efficient and safe connected and automated heavy-duty vehicles in real logistics operations	INDICATIVE budget!!	50
	06	Large scale, cross-border demonstration of highly automated driving functions for passenger cars		



Shared, connected and cooperative AV fleets in urban areas

Challenge

- How to develop shared automated mobility services which are widely accepted by all types of users?

Topic DT-ART-04-2019 (IA)

Scope

- Analysis of new emerging business/operating models for shared AV fleets
- Design and testing of shared and automated vehicle concepts (SAE level 4 or higher) in different environments for different services:
 - Mobility services of people, complementing existing Public Transport systems
 - Services for delivery of goods
- Special attention to needs of different user groups
- Use connectivity technologies to allow communication/cooperation between vehicles, infrastructure and road users

Expected impact

- Accelerate the uptake of high quality and user oriented mobility services, based on shared automated vehicles
- Create partnering opportunities for developing sustainable and scalable business models

Estimated budget per proposal: EUR 15-30 Mio

Cooperation with projects or partners from the US, Japan, South Korea, Singapore,⁷ and/or Australia is encouraged