**2020 On-line College Tour Automated Driving**

**Spatial and Transportation Impacts and Meaningful Human Control**

# For today

| | | | | |
|---|---|---|---|---|
| **Duration** | **Questions** | **Microfone and Video** | **Presentations** | **Recording** |

**90 minutes**

**Introduction: 10 minutes**

**Three presentations**
**1. Bart:  15-20 minutes**
**2. Filippo: 15-20 minutes**
**3. Jane: 15-20 minutes**

**Panel discussion: 20- 25 minutes**

- **via chat**
- **After every presentation (urgent) informative questions**
- **General discussion points are for the panel discussion**

**Standard OFF**

**To be published on: www. http://stad.tudelft.nl/**

# Agenda

- *Introduction*: Wim Korver (Goudappel Group)

- *Spatial and Transport impacts of Automated Driving (STAD):*
    Presented by Bart van Arem (TU Delft)

- *Meaningful human control*
    Presented by Filippo Santoni De Sio (TU Delft)

- *Assessing the tipping point for AV herd immunity*
    Presented by our keynote speaker, Jane Lappin (chair of the TRB Committee on Vehicle-Highway Automation)

- *Panel discussion*

    Closing up: 16.30 hour

# Why it is important to study possible societal impacts of Automated Driving?

- Argumentation to stimulate technology development

- Knowledge for long term investments
  - (Road) infrastructure has at least a lifetime of 50 years
  - Parking garages and street parking
  - Public Transport and
  - Mobility as a Service (MaaS)

- Anticipating on needs for the physical and digital infrastructure

# What kind of knowledge of the future do we need in 2020

- What kind of future do we want?
  - Do we need less cars?
  - A safe(r) society
- What will be the impact of automated driving on traffic safety, environment, traffic jams?
- What kind of infrastructure is needed in the future?
  - Can and if so; how can/should we prepare the infrastructure
- How can we prevent undesirable results, e.g. new accidents, social exclusion etc .
- How will self-driving cars be used?

# Question 1

**Self-driving vehicles (level 4) will come into the market the coming decades. What do you think is for our society the most important benefit:**

A. Traffic Safety

B. Accessibility

C. User needs (comfort, easy to travel, lower costs)

D. Sustainability (less $CO_2$)

E. Livability

Other … (please use the chat for other benefits)

# Question 2

**From a technology perspective fully automated vehicles are possible, but what kind of control and trust will consumers have about the or their automated vehicle?**

A. In 20 years' time, kids go to school in their personal automated vehicle

B. In selected areas or at dedicated infrastructure fully automated driving will be possible

C. Automated vehicles will always be supervised by a human operator

# Next webinars

- Webinar 2: Infrastructure – 18th of June (15.00 – 16.30)
  - Bahman Madadi, Jeroen van der Gun and Maaike Snelder


- Webinar 3: Mobility – 25th of June (15.00 – 16.30)
  - Baiba Pudane, Giulio Mecacci and Francis Östermeijer
- Webinar 4: Freight/Platoon – 27th of August (15.00 – 16.30)
  - Anirudh Kishore Bhoopalam and Simeon Calvert
- Webinar 5: Behaviour – 10th of September (15.00 – 16.30)
  - Pablo Nunez Velasco, Daniel Heikoop and Reanne Boersma

Spatial and Transport Impacts of Automated Driving