

The simulator

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Outline

- Goals
- Setup mock-up
- Scenario
 - Fluid dashtop
 - Cooperative adaptive cruise control
 - Societal aware navigation
- Stand at AutoRAI 2009

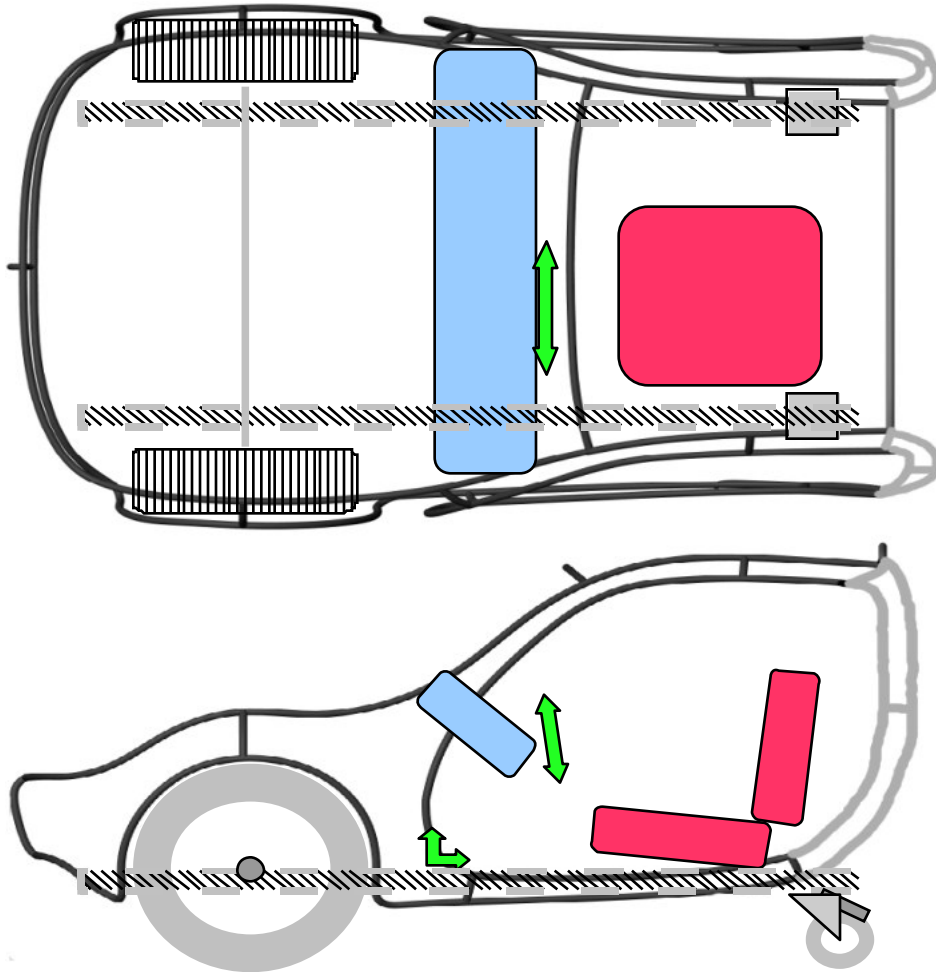


Goals

- Experience a day in 2020
- Show people what 'platooning' actually means
- Show people what societal aware navigation could look like
- Personal mobility can be sustainable



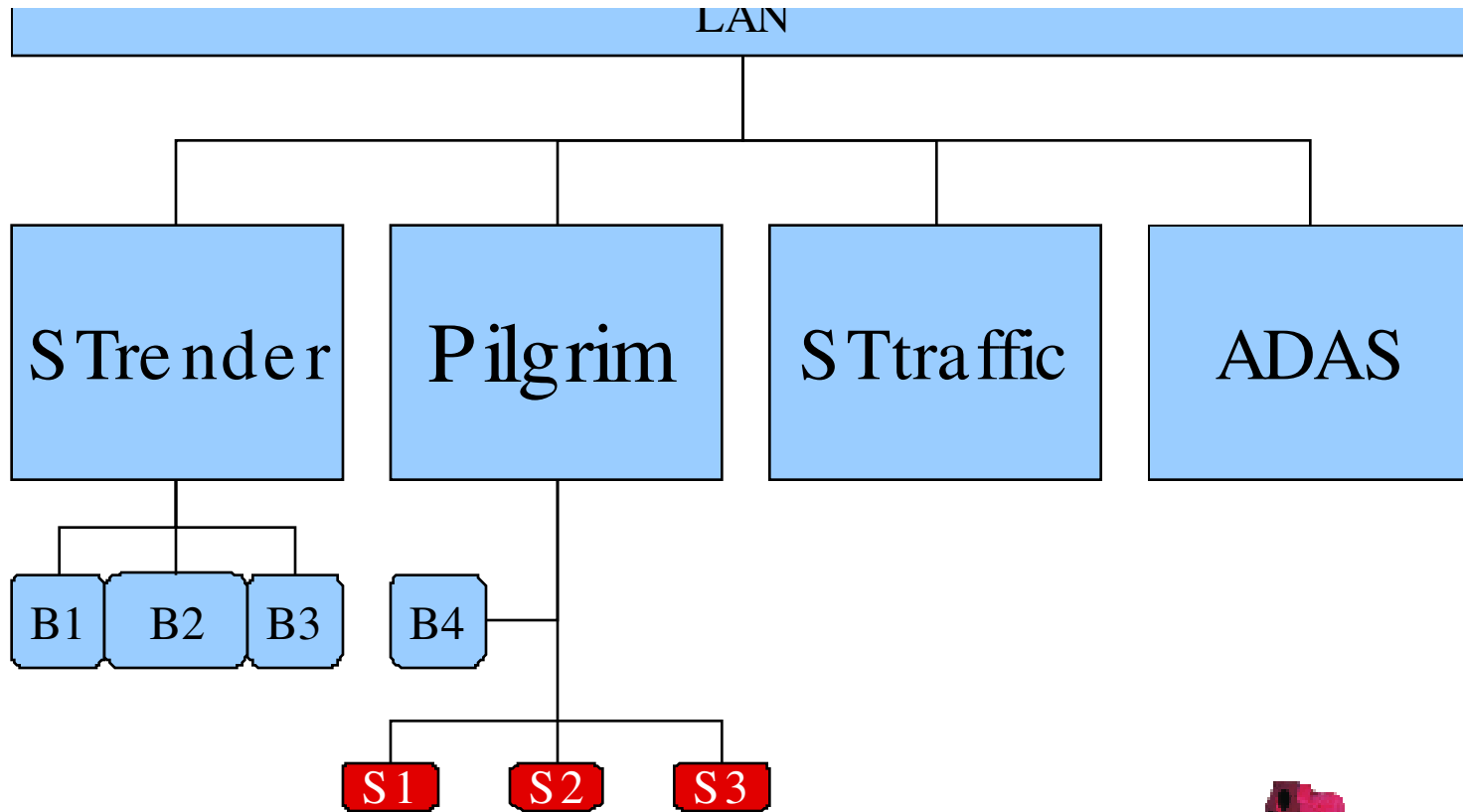
Setup mock-up



- Front of the C,mm,n wire frame
- One seat
- Multi purpose frame
- Traditional controls
- Transportable



Computers



Software

- STrender: Open Scene Graph
- Pilgrim: LUA
- ADAS: open source, open standards

- Every help is welcome!



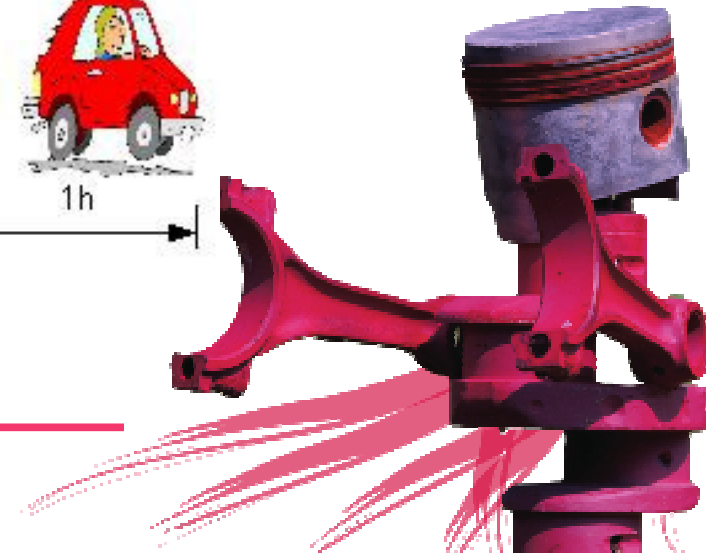
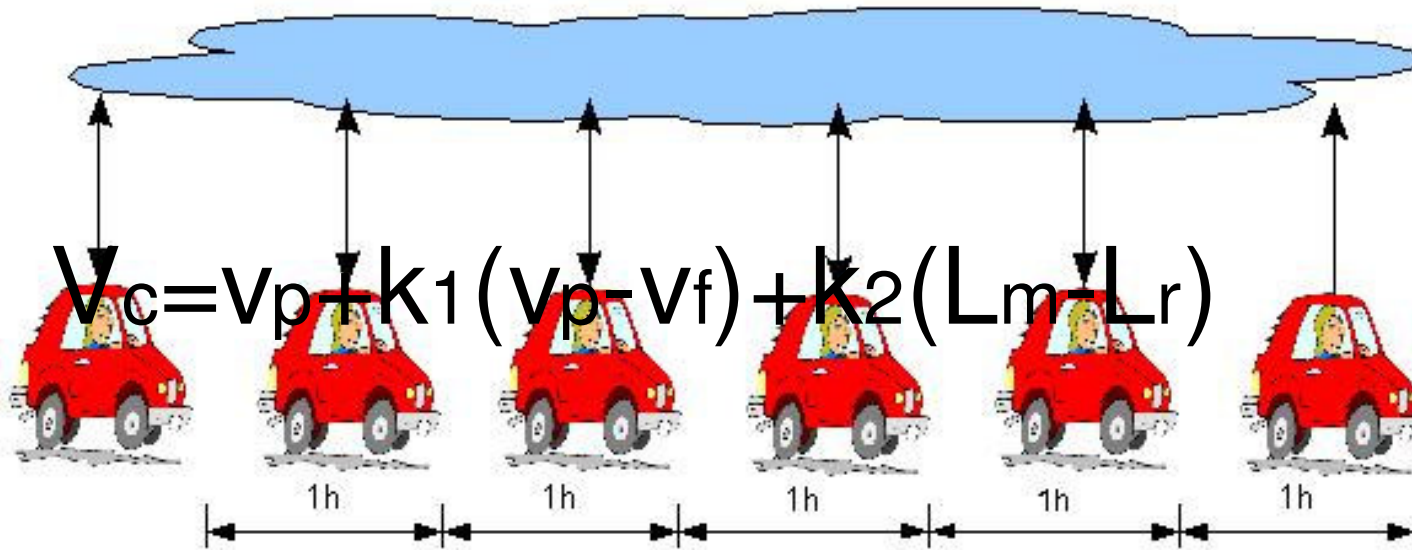
Fluid dashtop

- Context sensitive information
- User specific/configurable
- In simulator: beamer on dashboard
- Future: touch interface



Cooperative Adaptive Cruise Control

- Communication between vehicles
- CACC algorithm
- Equipped car ratio

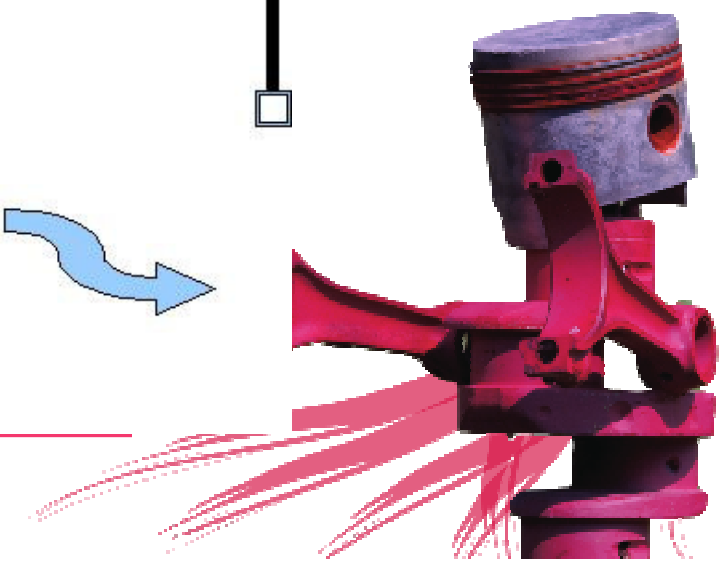
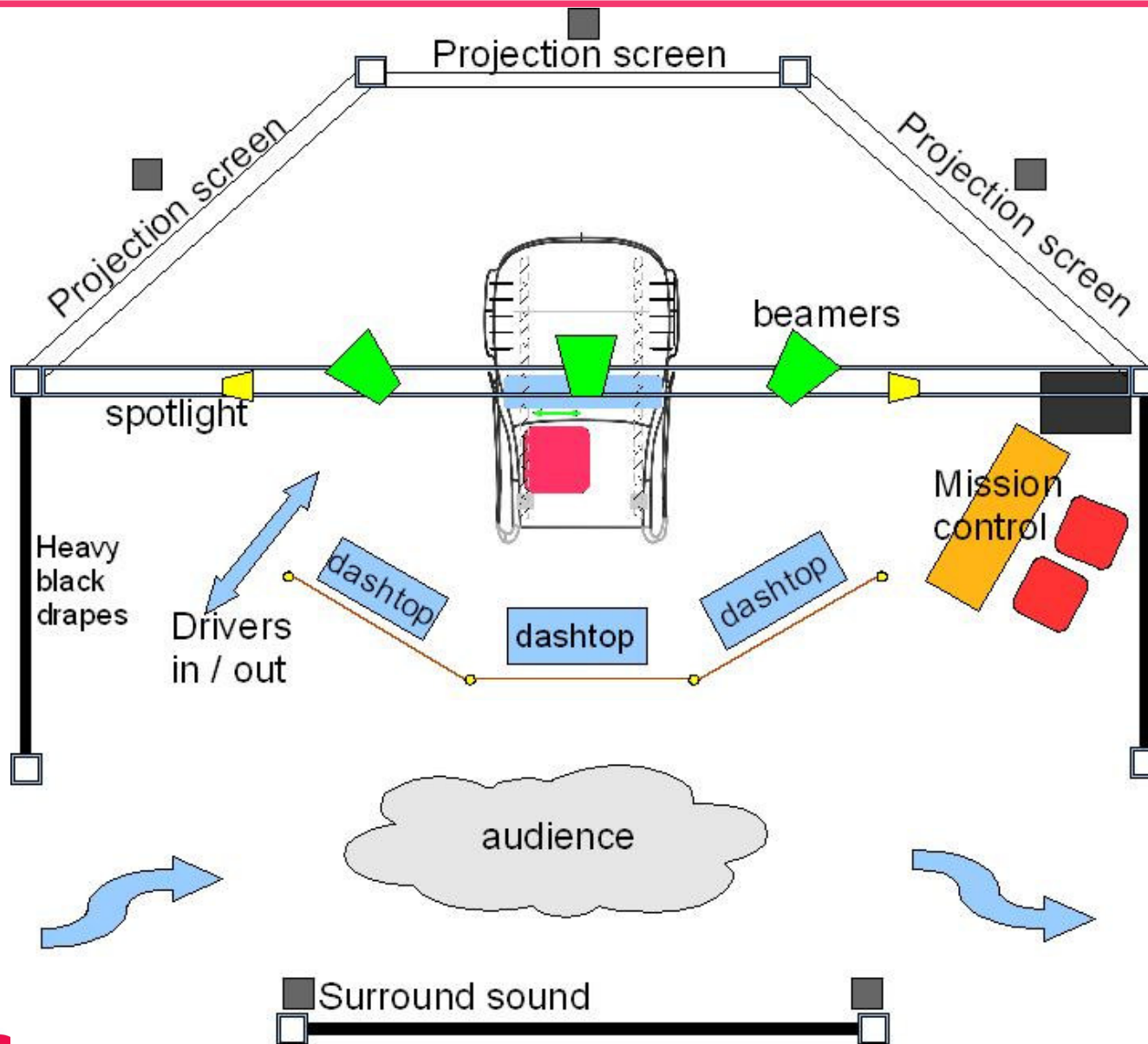


Societal aware navigation

- Externalities will be internalized
- Next to the shortest and faster route:
 - Safest route
 - Most environmentally friendly route
 - Reduce noise impact
 - Travel for A to B for maximum price of € ...
- Unknown how often people will change their mind



Stand at AutoRAI 2009



Experience the (old) simulator yourself in the VR lab

