

# SC7 – Demonstrator 7.3

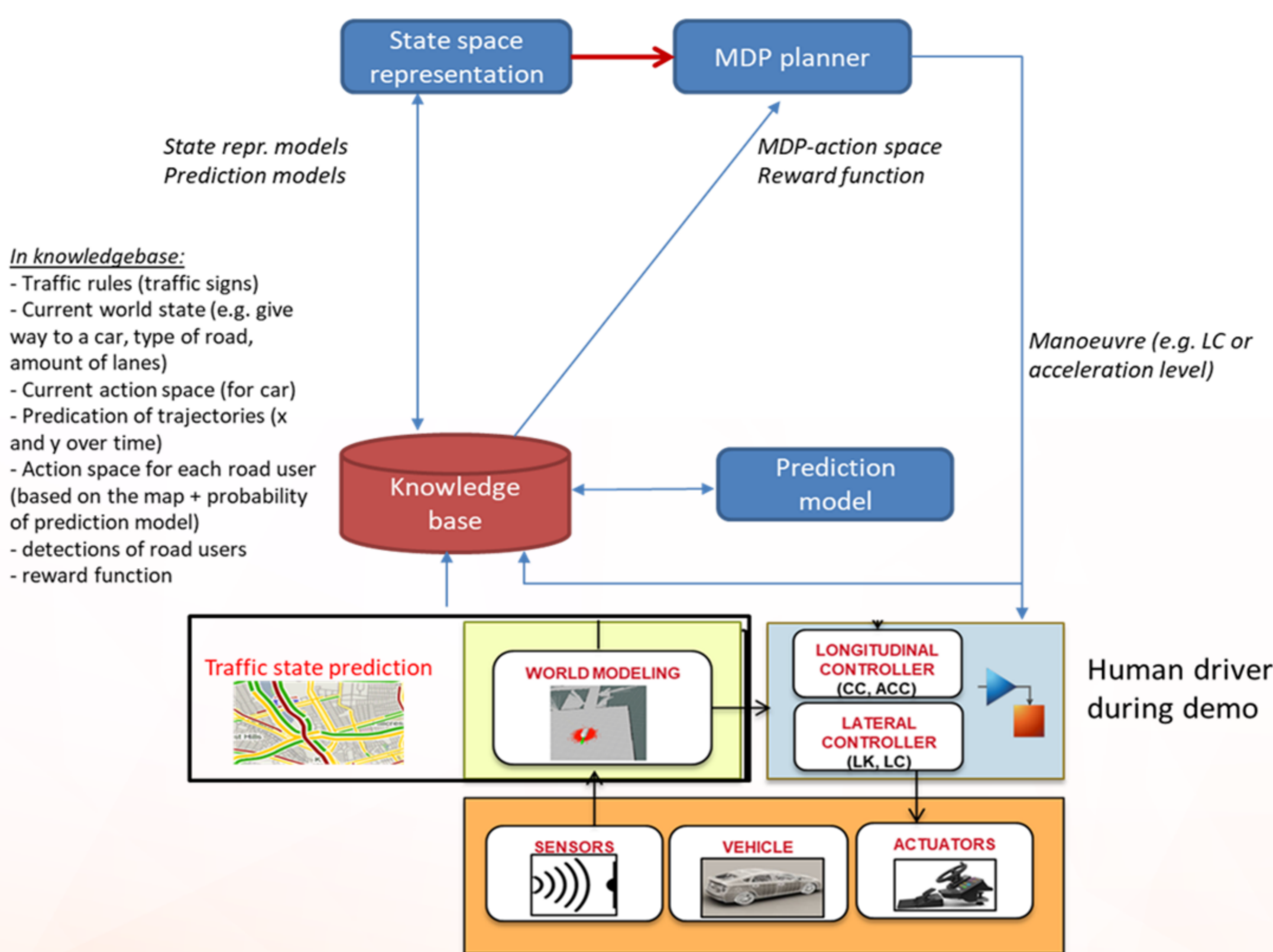
## Highly automated vehicle

(Highway and urban use case)



### Objectives:

- to demonstrate and validate the capability of artificial intelligence methodologies for decision making, in terms of safety, comfort, and possibly throughput.
- to increase situational awareness by using sensors like lidar and radar combined with information on the upcoming traffic state which is communicated (V2N) to the car.



Partners	Activities per partner
TNO	Will implement the FUSION decision making algorithms allowing for a scalable setup of the decision making algorithm. TNO is demonstratorD7.3 leader.
NXP	Will provide the FUSION surround sensing radars and work together with TU/e on integrating those in the system.
INNOLUCE	Will provide the FUSION lidar sensor and will support integration.
DAT.Mobility	Will bring the traffic state and prediction into the vehicle to be taken into account in the decision making process.
ANYWI	Will provide the (fail-operational) communication software and support in setting up the internet communication to the back office / cloud of DAT.Mobility.
TU/e	Will provide the vehicle, FUSION stereo vision equipment and computing hardware for at least the sensor fusion part. Will implement the developed sensor fusion onto the computing hardware.

### Acknowledgment

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme and national authorities under grant agreement No 783190

