

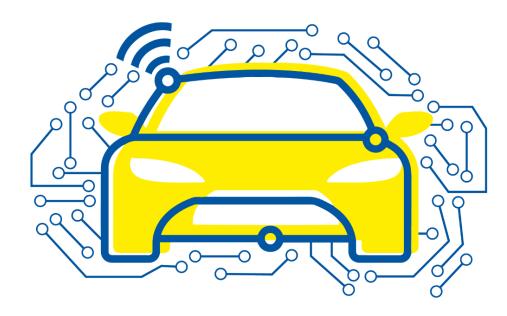
Automated and Connected Driving Challenges

Section 3 – Object Fusion and Tracking

Introduction

Overview

Prof. Dr.-Ing. Lutz Eckstein
Institute for Automotive Engineering

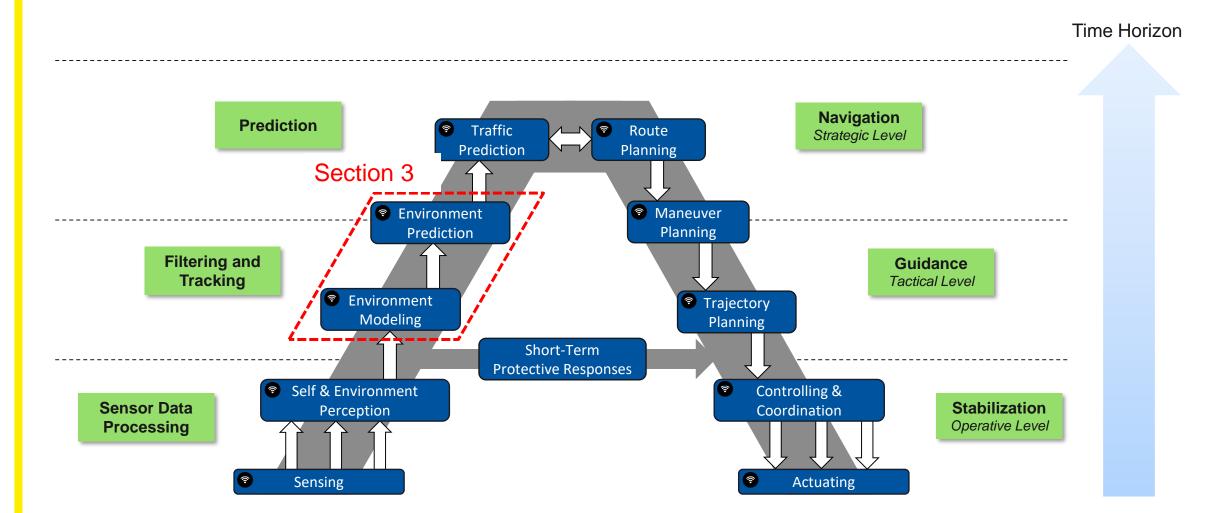




Structuring Automated Driving



The A-Model





Environment Modeling

Comprehensive Environment Model

Example of a comprehensive environment model



- static objects
- here: occupied cells displayed with fixed height





Object list (dynamic / online)

- road users / dynamic objects
- here cars blue, pedestrians pink
- output of tracking algorithm





Digital HD map (static / offline)

- static environment
- created *prior* to driving task

Parametrized area for drivable space

Image: Zoox