

Some projects/research at TU Delft related to automated & cooperative driving

Dr. ir. Simeon Calvert
MAVEN Expert session, October 2018



Meaningful Human Control over ADS

- Philosophy & Ethics
- Behaviour & Psychology
- Traffic & Engineering

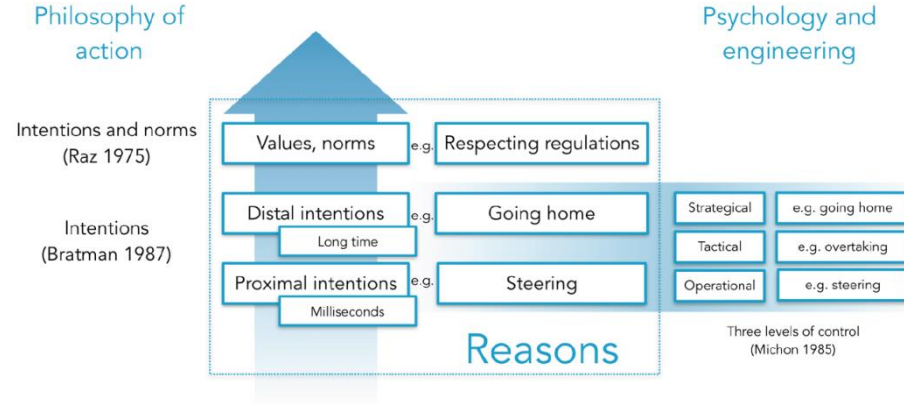


Figure 1 – Expanding a classic theory of control with intuitions from philosophy of action



Figure 2 - The proximity scale of reasons. From left to right, reasons can be ordered according to their "proximity value"

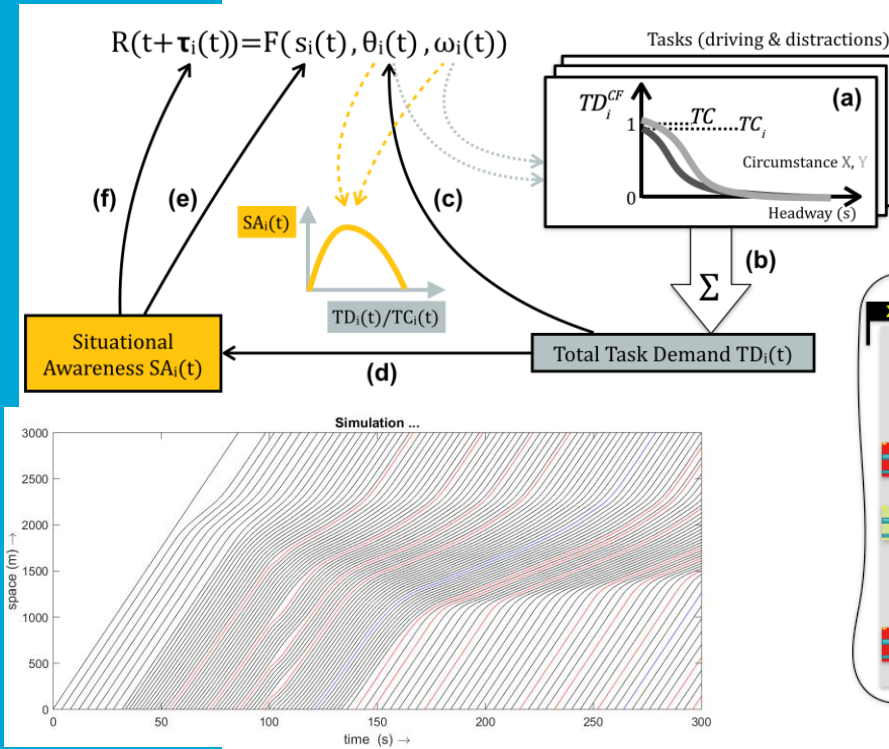


FOT with CAV's:

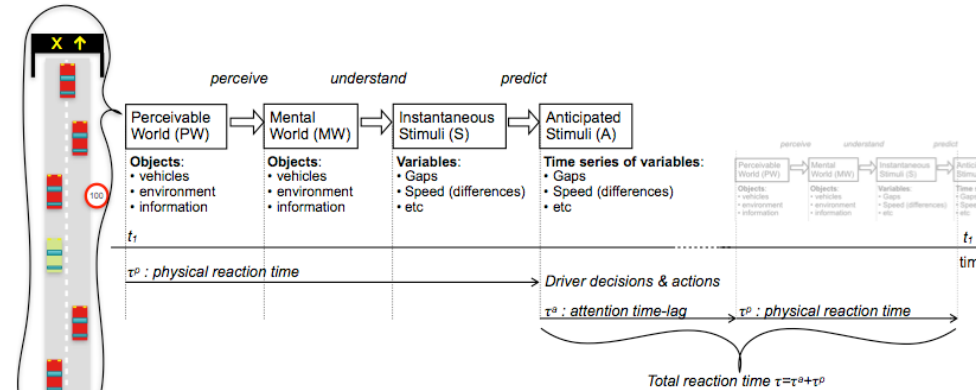
E.g. CACC experiment for Prov. North-Holland



Redefining traffic simulation to adhere to CAD: more human factors!



“All models are wrong, but some are useful!”
BUT, what happens when they lose their usefulness???



- van Lint, J. W. C., & Calvert, S. C. (2018). A generic multi-level framework for microscopic traffic simulation—Theory and an example case in modelling driver distraction. *Transportation Research Part B: Methodological*, 117, 63-86.
- 2 more papers forthcoming

