How to bring self-driving buses to the streets of Europe?
The Sohjoa Baltic Project

Mauro Bellone, Ph.D.
Applied Artificial Intelligence
Chalmers University of Technology
e-mail: mauro.bellone@chalmers.se

www.sohjoabaltic.eu
Chalmers University of Technology
Sohjoa Baltic

Baltic Sea Region transitioning into eco-friendly autonomous last mile public transportation

Total Budget ~3.8 M€ - Timeline 10.2017 –9.2020
Objectives

Bring autonomous public transportation into cities
Reduce CO2 emissions using eco-friendly vehicles
Enhance safety and accessibility in public areas
Build trust in the autonomous technologies
Large scale pilots (~ 1 year):
- Kongsberg (Norway) Oct 18
- Helsinki (Finland) 2019
- Tallinn (Estonia) 2019

Show cases (~ 1 month):
- Zemgale (Latvia) - May 19
- Gdànsk (Poland) - Sep 19
- Vejle (Denmark) - Oct 19
Is FULL automation possible in urban ITS?
Sense, Perceive, Understand

Perception is "the way you understand something using one of your senses (measure)"

- Child following a ball -

Which physical quantity do you measure?
How do you understand the situation?
Sense, Perceive, Understand

Perception is "the way you understand something using one of your senses (measure)"

- Child following a ball -

Geometric information – distances, lines, circumferences, reference frames, etc.
Sense, Perceive, Understand

Perception is “the way you understand something using one of your senses (measure)”

- Child following a ball -

Semantic information – child, ball, sky, trees etc.
Legal issues

vehicle approval
driving licenses
road traffic
data protection
liability law
criminal law
Ethical issues
Ethical issues
“Self-driving technology that doesn’t work in concert with public transportation is not a revolution worth fighting for.”
See this video on YouTube at https://www.youtube.com/watch?v=UQi3ZOm8fFk
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e-mail: bellonemauro@gmail.com
https://www.maurobellone.com