

BREAK-OUT SESSION:
SELF-DRIVING VEHICLES IN THE REFUSE BUSINESS

Facilitator:

Fredrik Cederstav, Volvo Advanced Technology & Research

Other presenters:

Per-Lage Götvall, Volvo Advanced Technology & Research

Johan Tofeldt, Volvo Advanced Technology & Research

Date and time: October 19th morning (1 h 30 min)

Audience:

Roughly 20 attendees.

Summary:

- Three different research projects were presented;
 - ROAR (selfdriving intelligent refuse robots with CR-code on bins)
 - ART (Prestudy on autonomous refuse trucks and the customer view on this technology)
 - Autonomous, safe and efficient transport solutions (Boliden mining trucks and Refuse trucks with automated reverse function).
- An estimated 95% of traffic accidents in the world are caused by human errors.
- Both safety, work environment and emissions can be improved by this technology
- A good discussion was added the last 30 min
- A questionnaire was sent out during the presentations. 18 responded;
- In summary, many of the respondents were very positive to robots or autonomous trucks in the refuse business.
- Most respondents believed that autonomous trucks can decrease accidents.
- A majority also believed that autonomous trucks will reduce emissions.
- Even though the audience was very positive towards this new technology, it is difficult to draw any conclusions on the general view in society.
- Prognostics in similar technology areas in the past predict that groundbreaking new technology usually needs about two decades to reach a substantial take-up by the market.