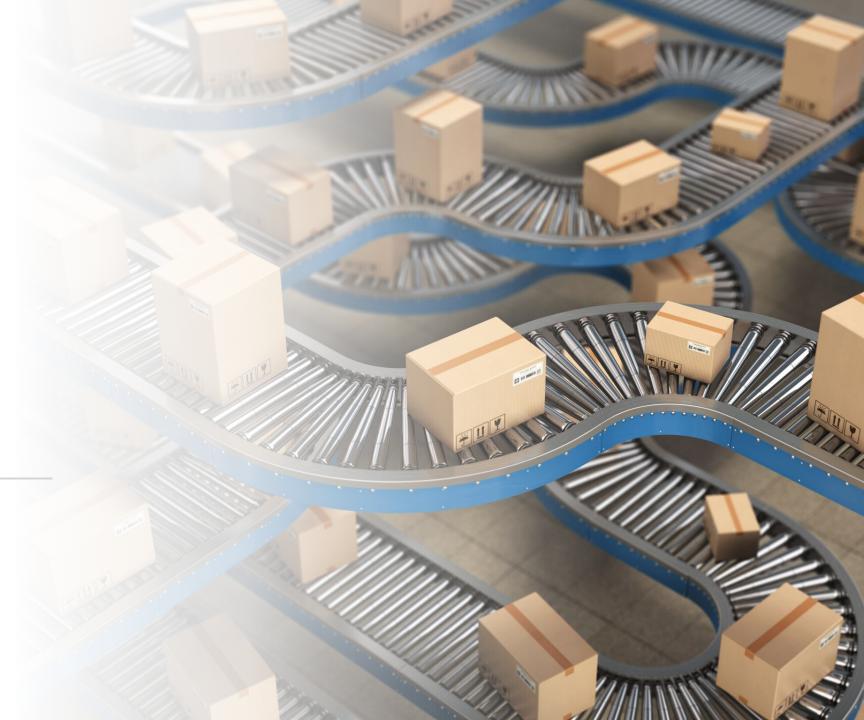
Last mile delivery innovations

Dr Maren Schnieder



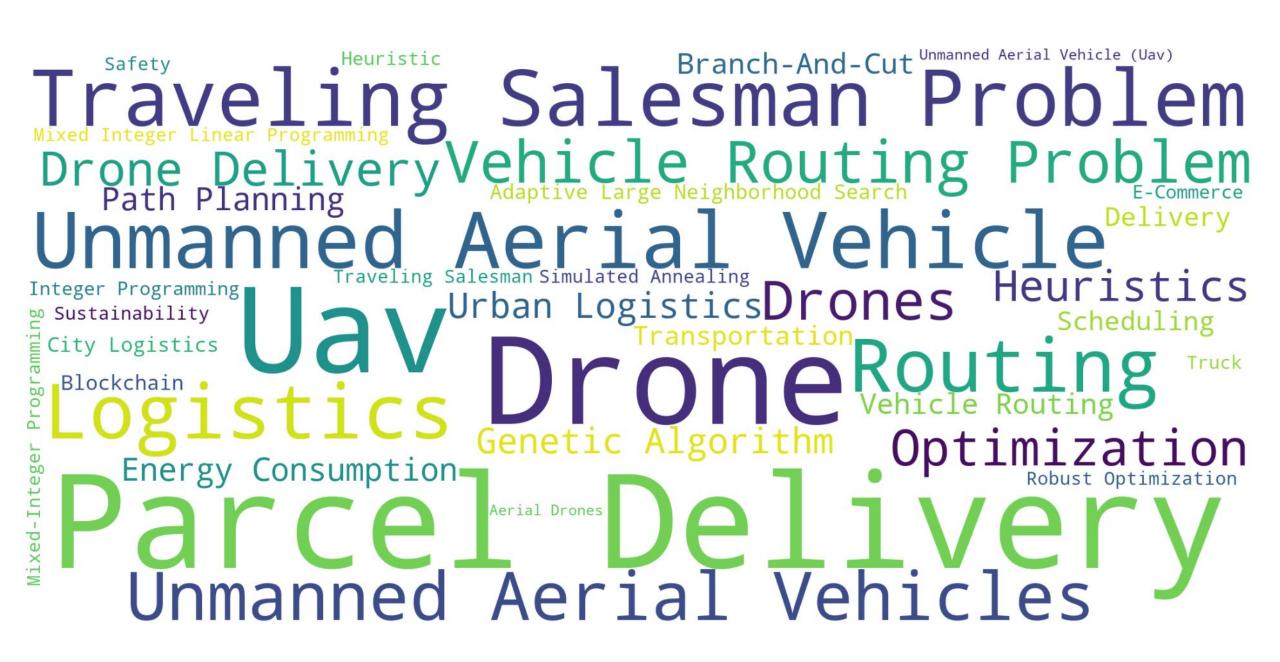


Drones



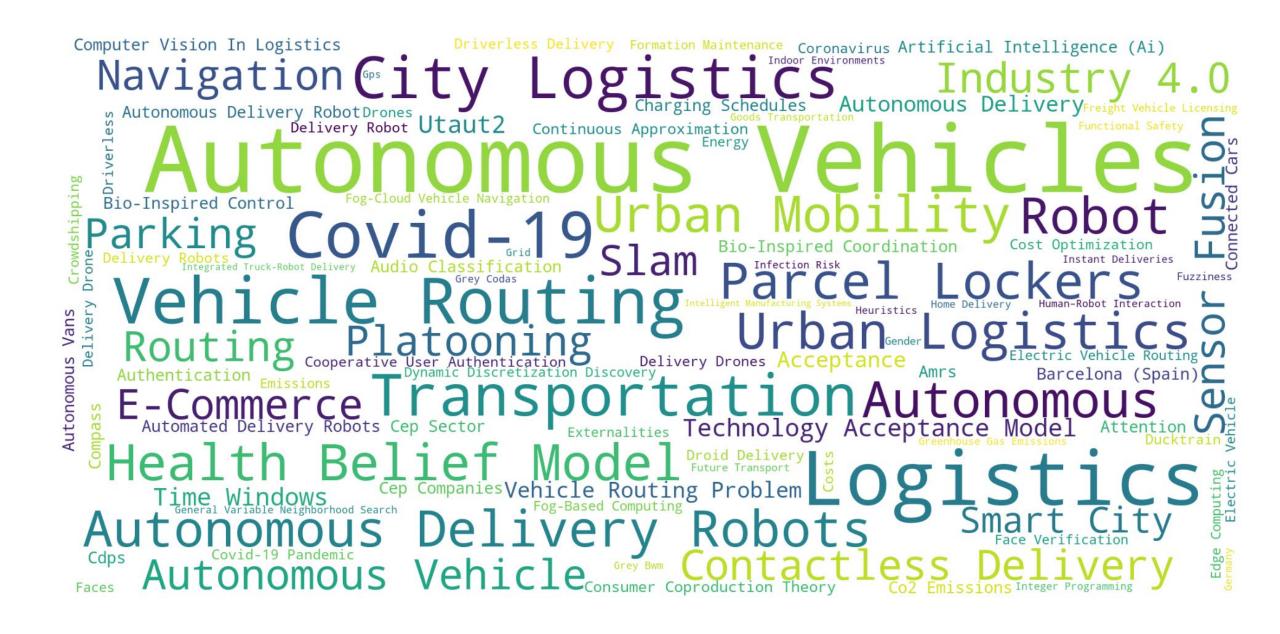






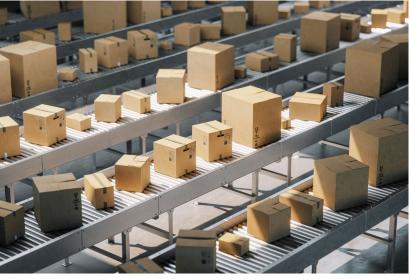


Autonomous delivery robots (ADRs)



City Depots/Collaborations/Consolidations/Shared







City depot labels

- localised storage depots
- micro-depots
- several cross-dock facilities
- transshipment facility
- urban transshipment points
- parcel mobile hubs
- access hubs
- bundling hubs
- micro-hubs
- urban freight micro-hubs
- city hubs
- urban logistics hubs
- loading hubs
- mobile access hubs

- "Container-as-a-Warehouse" operation
- intermediate storage locations
- intermediate service points
- proactive satellite stations
- intermediate locations (satellites)
- satellites
- mobile satellites
- satellite depots
- on-street satellites
- intermediate depots
- eco-transfer system
- micro-consolidation centres
- micro-urban consolidation centres
- mobile depot
- urban consolidation centres









CDPs & parcel lockers





Alternative drop-off

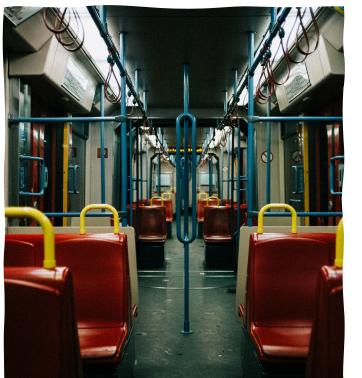
Curbside usage





Public transport



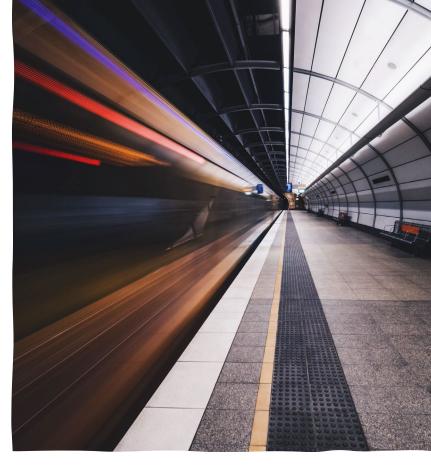






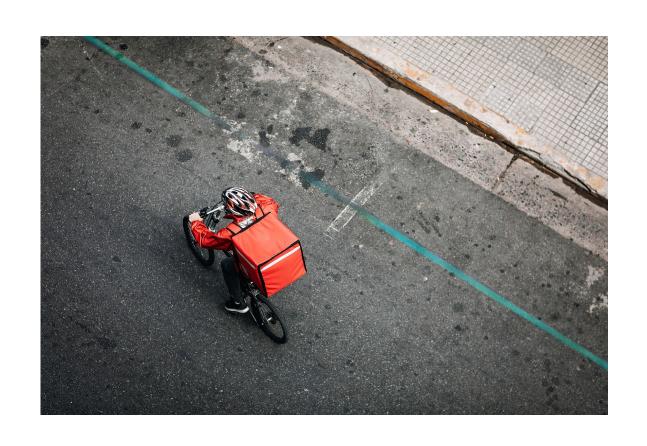






Underground logistics

Bicycles, electric and cargo bicycles



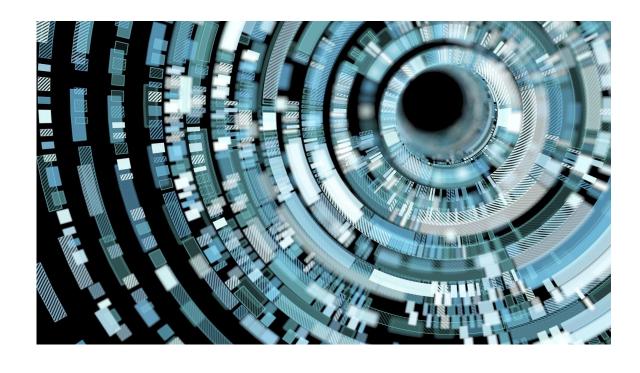


Electric vehicles



Further innovations





Last mile delivery innovations

