Opportunities in AV and EV development in the wake of Covid-19

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Rethinking transport

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TRA 2020 HELSINKI

TRA 2020 Strategic Session Webinar, Tuesday 23 June, 11:00 – 12:30

Urban transport innovation in the aftermath of COVID-19. Have the disruptors been disrupted?

ECSEL Joint Undertaking

EGVI European Green Vehicles Initiative

Valeo SMART TECHNOLOGY FOR SMARTER MOBILITY

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COVID-19

RISK FACTOR

Public transport is considered a risk factor

TRAVEL RESTRICTIONS

Facing uncertainty, border closures, risk of taking planes, holidays will be by car

EV SALES ARE NOT AFFECTED

EV sales are the only car sales withstanding current automotive downturn

electric vehicles sales withstand the covid-19 crisis

In 2019, EV sales rose 6% to 2.1 million units worldwide, while the automotive market fell by more than 4%. The IEA forecasts constant sales of EVs in a global automotive market that is down 15% in 2020

COVID-19

The car will be the preferred mode of transportation this summer. According to a study by the Oliver Wyman consulting firm, 23% of the interviewed intend to use their cars more because they feel better protected from Covid-19 than in public transport. This is a noticeable trend since the beginning of June.

We expect:

EV UPTAKE

Long term trend that withstands crises

E-HAILING UPTAKE

Perceived as safer and convenient

Opportunities in AV and EV development in the wake of Covid-19

URBAN MOBILITY

We think the Covid-19 crisis will accelerate already existing trends.

This will reinforce the shift to a sustainable urban mobility ecosystem.

4 main expectations in the mid-term:

1

STRONG EV UPTAKE

An unstoppable market trend reinforced by legislation

2

E-HAILING EXPANSION

As a necessary step leading to shared and autonomous mobility (robotaxis / roboshuttles)

3

RESILIENT TRANSPORT

The development of more resilient transport systems

4

ACTIVE TRANSPORT

Growing demand for active transport and micromobility

OUR VISION

Covid-19 was a severe hit for the automotive sector, but is also reinforcing opportunities for the development of EV and AV technology in many domains.

OPPORTUNITIES

CARGO DROIDS

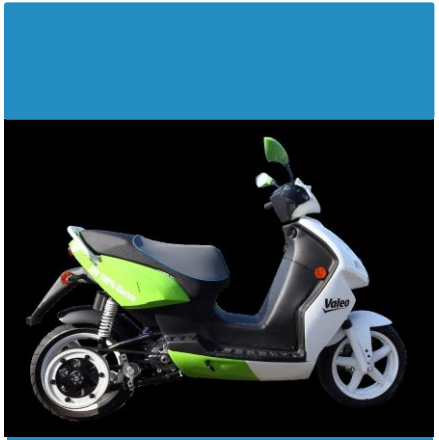
TO SUPPORT THOSE FIGHTING THE VIRUS ON THE FRONTLINE

AUTONOMOUS VEHICLES

SHARED AVs FOR LESS CONGESTED CITIES and SAFER ROADS

ELECTRIC VEHICLES

ELECTRIFICATION TO COMBAT AIR AND NOISE POLLUTION



SMART E-MOBILITY

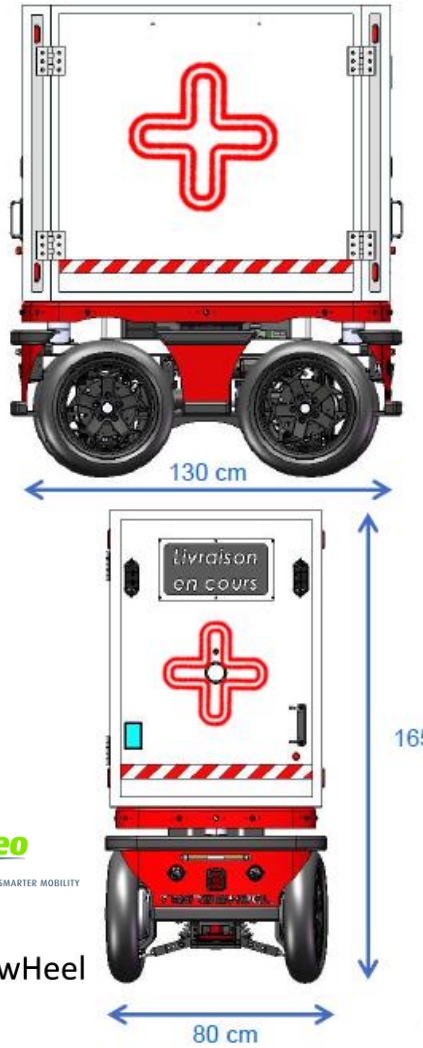
LIGHT ELECTRIC MODES AVOID CROWDED SPACES

THE CARGO DROID

Assisting nurses and hospital personnel

Assisting social services personnel

THE CARGO DROID



- Autonomous and electric support droid that transports necessary materials (up to 200kg)
- The droid is very agile and features an intuitive user interface (touch screen, speakers, camera)
- « Follow me » mode, follows personnel thanks to visual tracking and perceives obstacles with lidar
- « Autonomous » mode, follows defined routes in the city, delivering goods or other necessities

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THE CARGO DROID

REDUCES FATIGUE

By transporting heavy materials, letting the personnel focus on their patients

DELIVERS GOODS

By transporting samples to the central lab or medicines from / to the pharmacy

ACTIVELY SUPPORTS

Social services workers by transporting all necessities through the city

THE CARGO DROID

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The disrupters with good innovation strategies and solid business models will have their chances


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