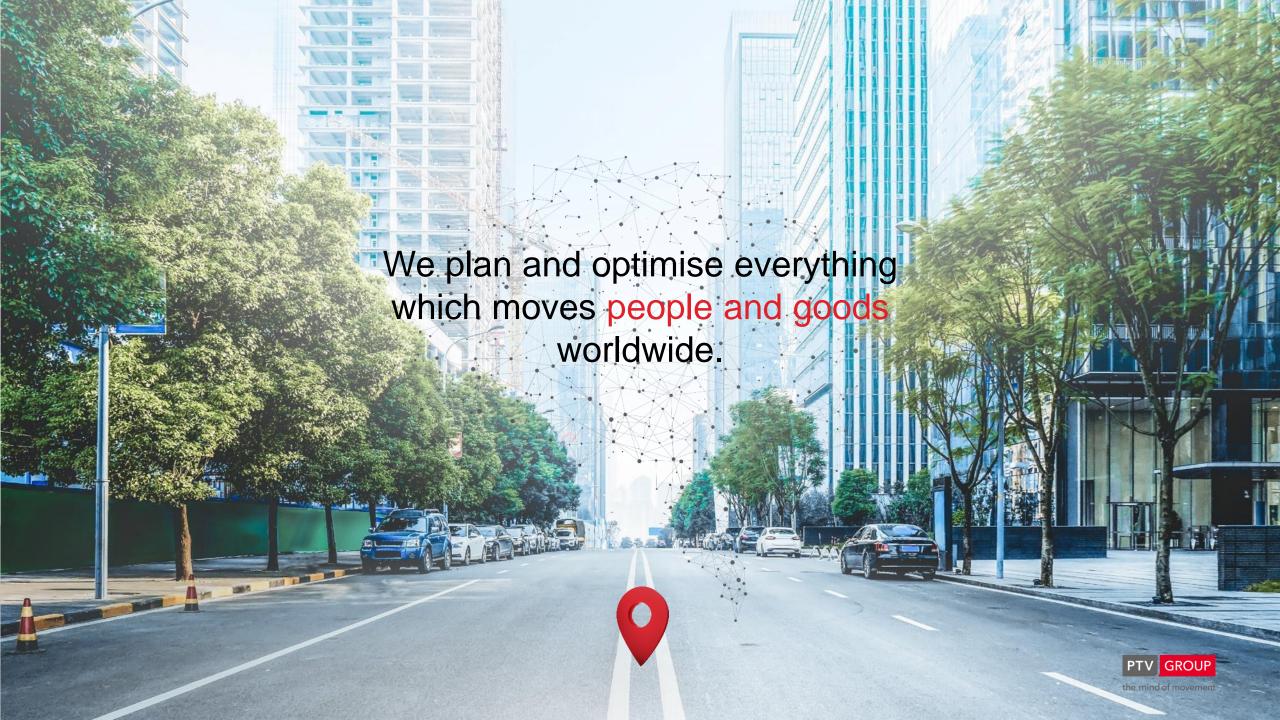


## Data sharing, Co-operation and Connectivity among Stakeholders, recent Developments in Europe

Marcel Huschebeck



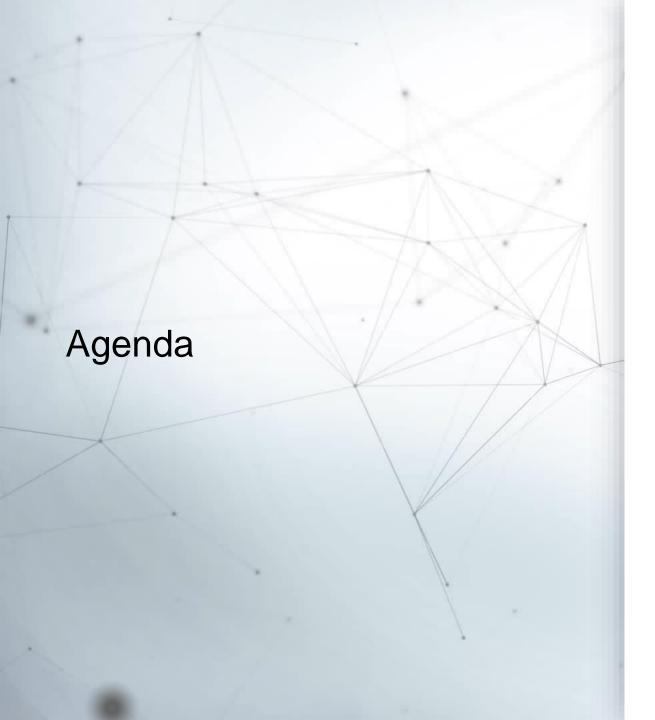


### PTV Group

- Customers > 120 Countries
- Cities using PTV Software > 2,500
- Community Truck Parking > 1 Million Downloads
- Commercial vehicles planned > 1 Million/day
- Installed Base Traffic Software > 40,000 Licences
- Installed Base Logistics Software > 50,000 Licences
- Major events Olympic Games/FIFA World Championship







- New forms of IT architectures in urban freight
- 2. Findings from recent research projects
- 3. ALICE/POLIS initiative to stimulate urban freight



#### New forms of IT architectures

Sharing economy: Online platforms for sellers and buyers (e.g. AirBnB, Booking.com)

Digitalisation: Providing connectivity, data exchange and added value services to facilitate logistics and transport operations in the city

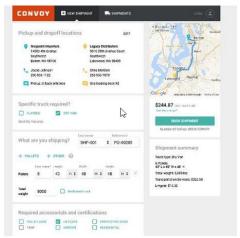
Autonomous vehicles for new business models and service schemes based on driverless delivery schemes

So far Business Models out of these offerings on B2C are much more valuable than B2B.

Electric vehicles, customer driven delivery models (DaaS) and restrictive urban access policy require for connected IT solutions for planning and execution urban transport







- Transparent, upfront pricing
- Real-time shipment tracking
- Alerts on shipment picked up and delivery
- Online dashboard to manage shipments
- Data that helps on supply chain decisions



#### New form of IT architectures

Recent initiatives in EU addresses data sharing, co-operation and connectivity among different stakeholders in urban freight.

Urban freight planning is moving from company centric distribution in which the information flow is ahead of the physical delivery towards a service oriented delivery in which bi-directional communication is defining the way how the delivery is made.

LSP centric IT Systems develop towards smart delivery platforms in which LSPs, vehicles, receivers and cities are communicating and planning









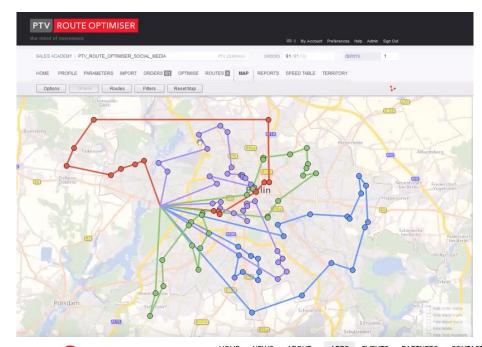
#### Recent IT Research Initiatives

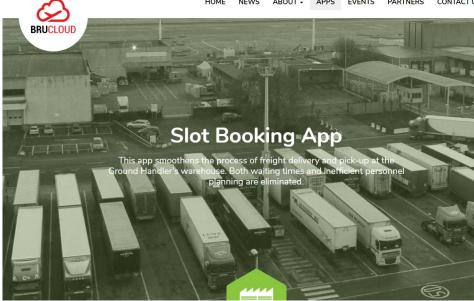
iHUB: Deployment of 16t truck for LTL distribution

- Heavy electric truck technically feasible, due to higher purchasing costs not competitive!
- Connected IT platform is needed to monitor and predict trip and battery performance

CLUSTERS2.0: Collaborative planning and modularisation within community context

- Community driven platform concepts to enable and stimulate collaborative freight planning for freight pooling and capacity optimisation
- Apps, e.g. for slot booking at warehouses and terminals to co-ordinate and inbound freight flows, less waiting time of up to 1 hour
- Modular loading units provide new possibilities for urban distribution, potentially reducing cross docking costs up to 50%







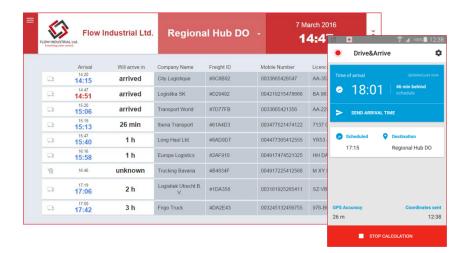
#### Recent IT research initiatives

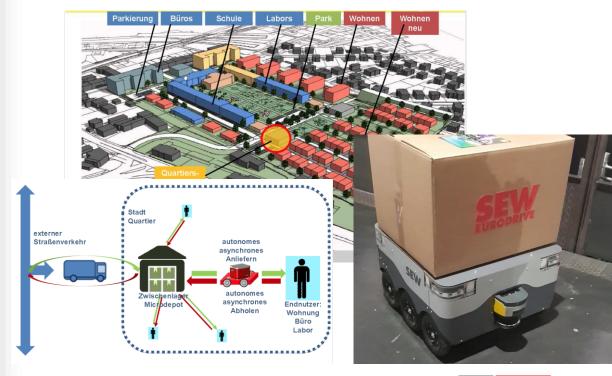
AEOLIX: IT platform for transport and logistics for data sharing and added value services

- Process visibility in combination with ETA calculation improves transport performance by 10% faster lead time
- Collabroative planning in urban freight suggests high potentials, but city platforms are not existing yet
- Added value services (ETA, city routing, freight pooling) could be for the benefit of all city users

eFEU Campus: Last mile delivery using automated robots

 Connected IT platform approach for transport planning, user communication and automated vehicle operations in one system







#### **ALICE/POLIS Initiative**

A group of cities and ALICE industry members is formed to develop solutions and stimulate co-operation at the gap of data sharing and urban best practices.

- Discuss about best practices on clean vehicles, clean air, space management and data sharing
- Stimulate take up and up scaling of best practices
- Speed up innovations
- Give directions to new research program Horizon Europe

City ITS and collaborative planning might be one key topic to address





Alliance for
Logistics Innovation
through Collaboration
in Europe

# Cities & Industry Dialogue Group presentation

| Large Cities |                      | Medium / Small Cities |                | Regions                      |                                 |
|--------------|----------------------|-----------------------|----------------|------------------------------|---------------------------------|
|              | 1. Amsterdam         | 7. Lisbon             | 13. Bilbao     | 17. Liège                    | 20. Arnhem Nijmegen City Region |
|              | 2. Brussels Mobility | 8. London (TfL)       | 14. Ghent      | (Groupement de               | 21.Flanders MOW                 |
|              | 3. Budapest (BKK)    | 9. Madrid             | 15.La Rochelle | Redéploiement<br>Economique) | 22.lle-de-France                |
|              | 4. Dresden           | 10.Paris              | 16.Leuven      | 18. Helmond                  | 23.Manchester (TfGM)            |
|              | 5. Dublin            | 11.Rome               |                | 19. Southampton              | 24.Province of Noord-Brabant    |
|              | 6. Gothenburg        | 12.Rotterdam          |                | '                            |                                 |

| Type of Company  | Members                        |                |           |                       |  |
|--|--------------------------------|----------------|-----------|-----------------------|--|
| Shippers & Retail  | P&G                            | ĽORÉAL         | ριοℋιπυs  | COLRUYTGROUP          |  |
| Logistics Service Providers, Courier and Postal Operators & Freight Forwarders | GEODIS                         | Gebrüder Weiss | >LOGISTIC | <b>Poste</b> italiane |  |
| Real Estate  | (()) JLL                       |                |           |                       |  |
| Vehicle Manufacturers  | VOLVO                          | MAN            | SCANIA    | TEVVA                 |  |
| ICT & Technology   | PTV GROUP the mind of movement |                |           |                       |  |



