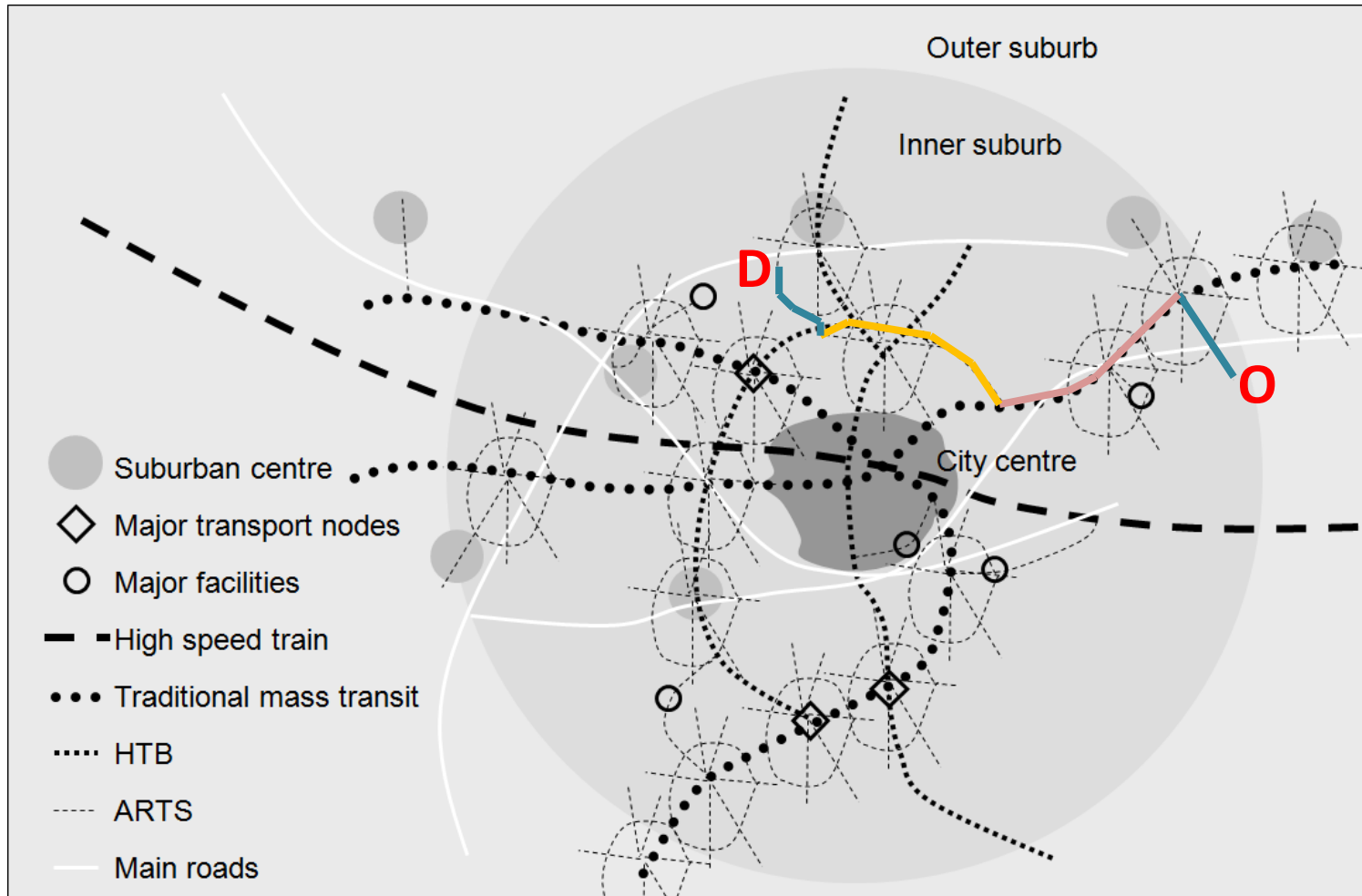


Innovative last mile transport to revolutionize mobility

Adriano Alessandrini

The last mile transport problem: a challenge which can be turned into an opportunity



Three enabling technologies

- ICT for demand and fleet management
 - Favor ride-sharing
 - For better revenue/cost ratio
 - For more sustainable transport
 - Play on BEV strength
- Fast charging BEV
- Automated (not autonomous) driving

ICT for last mile

- Mobile apps to call for a ride
- Ride on an on demand bus
- Ride on a shared care driven by another client
- Additional pay services (e.g. parcel delivery)



Fast charging batteries

- Small batteries
 - To limit weight
 - For no more than 10 km autonomy
- High power (43 kW) charging for full charging in 6 minutes
- Revamping existing vehicles



An innovative mobility concept for last mile



On Demand minibus

- Fast-charging electric minibuses
- Social workers as part-time drivers

CAR+RIDE sharing

- With free-flow car-sharing (electric preferably)
- Re-positioned by counter flow demand

A start up company to bring this concept to market

- MEDIUM srl (last mile electric mobility)
- Bringing to market research results of the University of Rome
 - ICT for on-demand transport services
 - Fast charging batteries to revamp existing electric minibuses
 - A new business model for last mile

Road automation is not coming is already here:
the CityMobil2 project carried already more
than 50 000 passengers on ARTS



AutoKAB INRIA-UNIROMA French start-up to bring
CityMobil2 automation for buses to market

Conclusions

- Transport companies have the know-how to operate a service
- Technology start-ups know how to bring in new technologies
- A new business model is possible which can turn a losing service into a cash-cow
- If such a new business starts now the oncoming automation revolution will not only strengthen it but also make overall mobility more sustainable

Thanks for listening to my ideas on
innovative last mile transport to
revolutionize mobility

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