



Evoluon Congress Center Helmond Automotive Campus







3 years of automated shuttle trials in Austria - Learnings, best practices and next steps

Presentation at ITS European Congress 2019 SIS11 – Automated Shuttle Trials June, 4th 2019, Eindhoven











3-years of automated shuttle trials

2016

2017

2018 - 2021

















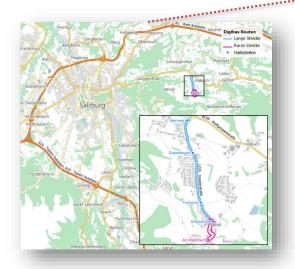






Three test sites





Koppl (near Salzburg) last mile to village center mixed traffic



Wiener Neustadt -4 tracks in town center pedestrian zone



ÖAMTC Driving Center Teesdorf – 2 test tracks



Impressions from test site Koppl

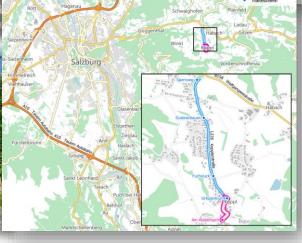














Learnings (condensed)



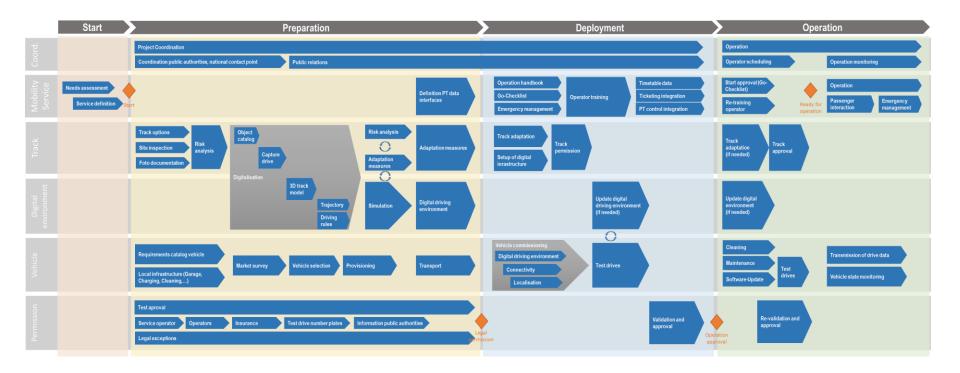
- Planning/preparation
 - Clear vision and driving factors needed
 - Collaboration of all stakeholders
 - Minimization of risks
 - High personal demand
 - Proprietary methods, missing standards
- Vehicles
 - Prototypes
 - Missing homologation
 - Public transport readiness?
 - High costs

- Test drives
 - Low speed (< 15km/h)
 - High complexity of driving maneuvers
 - Manual interventions needed
 - Highly demanding for operators
 - Mixed traffic as challenge
 - Challenges from environmental conditions
- Passengers
 - Variety of reactions (enthusiastic to denial)
 - 90% of passenger felt safe (most probably because of the operator onboard)





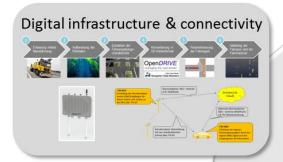
Best practices – Towards a reference model Austria

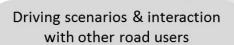




Next steps (2019-2021)











Source: Salzburg Research / wildbild

Automated mobility system & passenger interaction



Reference model for planning, deployment & operation of automated shuttles







Austrian flagship project for automated driving in public transport.





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