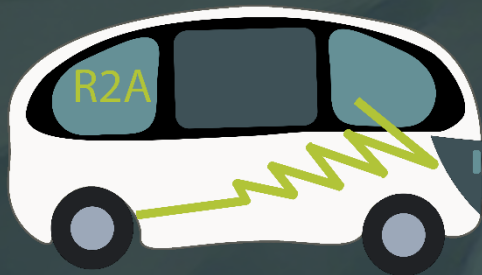


Activity 3 : Evaluation and Scalable Model

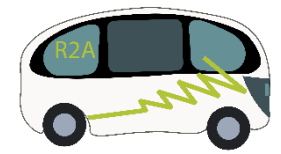
D4 : Scalable Model Toolbox

Lessons Learnt Workshop



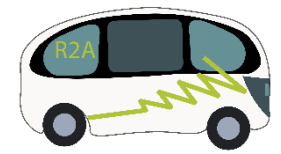
This project has received funding from the European Union's Directorate-General for Communications Networks, Content and Technology, 2020 Work Programme under grant agreement No. LC - 01632937





Agenda (WP-3)

- What is Scalable Model Toolbox?
- Progress of Toolbox
- Key challenges./finding from R2A Toolbox



Sub-activity 3.2. “Scalable model” toolbox

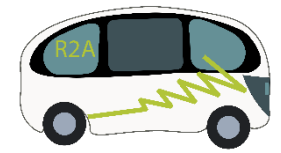
TIMETABLE FOR EACH STAGE OF THE ACTION SHOWING MAIN DATES AND EXPECTED RESULTS FOR EACH STAGE												
	Semester 1						Semester 2					
Activity	Month 1	2	3	4	5	6	7	8	9	10	11	12
Activity 3: Evaluation, scalable model (RC)												
3.1 (Evaluation)			→									
3.2 (Model toolbox)	→											

Objective : A toolbox (D4) informing on the outlay and maintenance costs, safety and security requirements, logistics concerns, affordability considerations, use case challenges and solutions, shuttle acquisition approach, engagement of key stakeholders and end users.

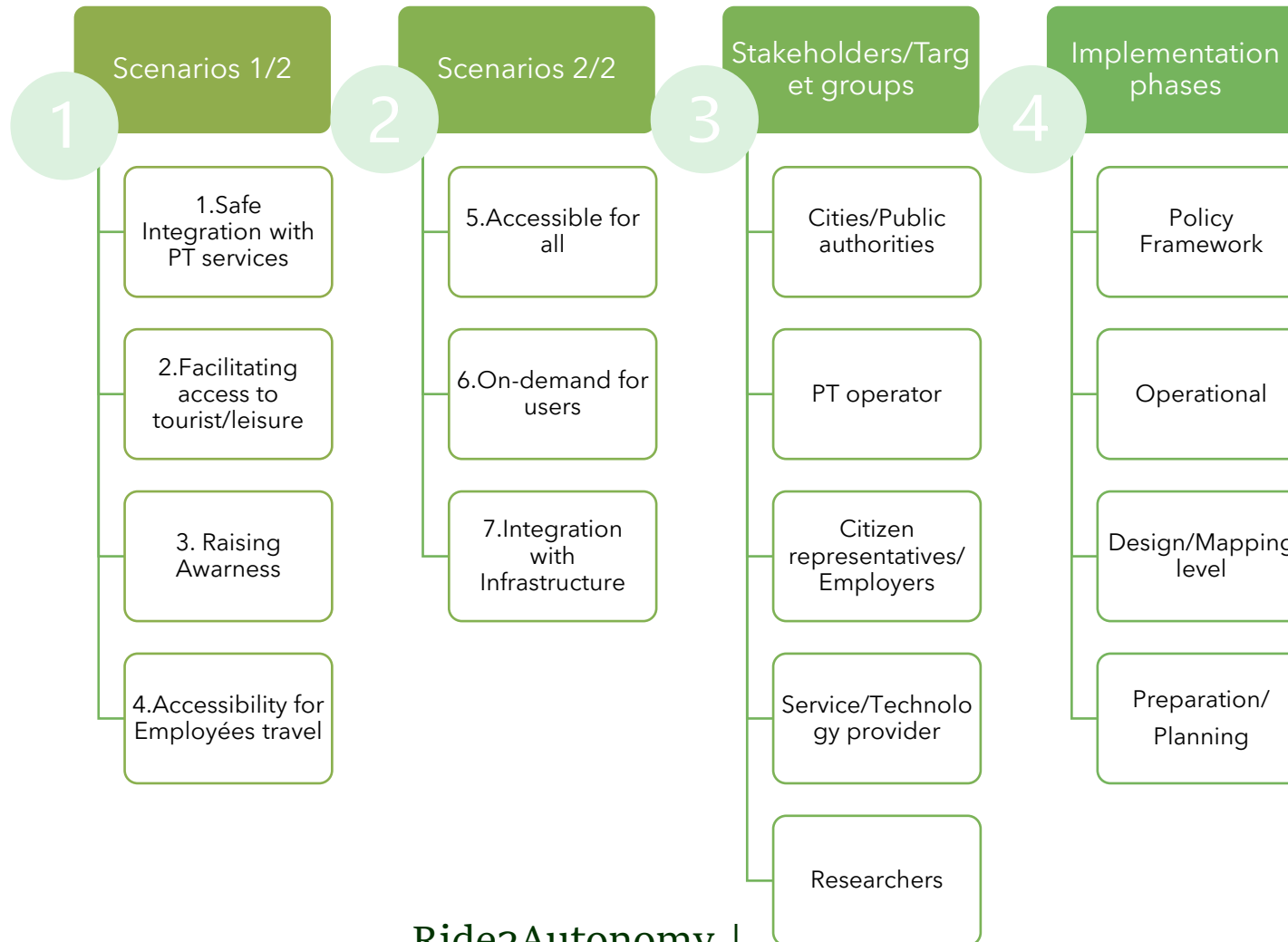
Sources : R2A pilots lessons learned and other sister projects

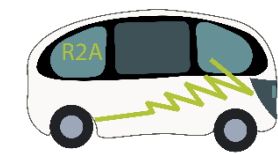
Means : Provide recommendations, advice on different elements

Ouput : Ride 2 Autonomy toolbox to be established as European reference for cooperative, connected and automated mobility shuttles realization



Browsing on Ride2Autonomy Toolbox



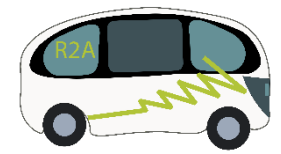


Progress of Recommendations:

Nr.	Recommendations	Author
1	Enhancing the quality of service and more attractive shuttles for users	UITP/H.Cornet
2	Fare integration within the Existing PT systems with Smart ticketing system	Maptm
3	Stakeholders engagement for effective communication	PO LIS
4	First and Last mile Connectivity	LuxMobility
5	Better network designing interlinking with existing routes	LuxMobility
6	Defining the standard monitoring framework and regular maintenance of shuttle	RC
7	Special shuttle service with podcast/audio discription for tourist attraction	LuxMobility
8	Offer citizens opportunities to familiarize with shuttle operation prior to actual use	FMN / Ahmed
9	Development of low-cost high-quality technical solutions	
10	Develop integrated and smart application for passangers	PO LIS
11	Enhanced Privacy Protection and Data Storage Protocols	LuxMobility
12	Monitoring and direct assistance for visually impaired	LuxMobility
13	On-demand point to point service on unserved areas	RC
14	Multi-Modal approach	MAPtm
15	Enlargement of service during night time	SLA
16	Service Accessible for all(disabable,elderly people,children)	SLA
17	Promote a Safety & Reliability (More reliable journey times to reduce congestion)	Luxmobility
18	Promote experiments and pilot studies	
19	Utilizing existing parking space for shuttle storage	FMN / Ahmed
20	Route Choice	PO LIS
21	Capacity management/Space Efficiency	
22	Use cost efficient strategies for community engagement (e.g, crowd sourcing)	EPF
23	Standardisation of operation throug level of automation (e.g, Road condition ,weather detection,level of automation)	
24	Promote training and education campaigns for how to interact with CAV	RC
25	Timely Audit of CAV algorithms for shuttle	
26	Develop trasperancy stratagies to inform users about data collection & assosiated rights	UITP
27	Standardization of Human machine interface/Ensuring safe interaction of Human with AV shuttle	
28	Training of operators for the actual service	FMN / Ahmed
29	Enhanced Privacy Protection and Data Storage Protocols	
30	Autonomous shuttle and its impact on job creation	LuxMobility



Recommendations written: **18**
To be written: **12**
Target: **25** needs to put in the toolbox for Final conference

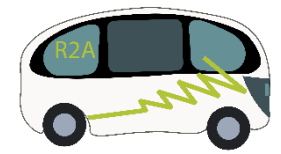


Key findings/lesson learnt:

- Tool has some limitations in terms of design and budget.
- Lack of Coordination between stakeholders
- Cross learnings from different stakeholders could be helpful in getting more realistic recommendations

Key takeaways:

- Toolbox can be set a good example for future CCAM projects for different scales and target groups.
- Its catering the needs of different types of users(e.g., vulnerable groups, old age ,children) ,which will tend to increase ridership toward autonomous vehicles.



Examples

Use full Links:

- [Link to xls mapping sheet](#)
- [Link to recommendation template](#)
- [Link to recommendation example](#)
- The toolbox : www.ride2autonomy.eu



- MURAL exercise [LINK](#)

