



SHOW 3rd Pan-European Workshop

Dr Henriette Cornet
SHOW Coordinator &
Thematic Area Leader Automated Mobility | UITP

Madrid | 19 October 2022



Agenda



Start	End	Time	Item	Speaker
9:30 AM	10:00 AM	0:30	Welcome coffee	
10:00 AM	10:15 AM	0:15	Welcome by the SHOW Coordinator and Technical Manager	Henriette Cornet, UITP Angelos Bekiaris, CERTH/HIT
			<i>Stakerholders' mission and vision for Automated Mobility:</i>	
10:15 AM	10:25 AM	0:10	Introduction by EMT	Alberto Alonso Poza, EMT
10:25 AM	10:35 AM	0:10	Introduction by Madrid City Council	Fernando Herrero, Madrid City Council
10:35 AM	10:45 AM	0:10	Introduction by the European Commission	Suzanna Kraak, European Commission
10:45 AM	11:15 AM	0:30	First insights and lessons learned from SHOW	Anna Anund, VTI Pekka Eloranta, SITOWISE
11:15 AM	11:45 AM	0:30	Coffee break	
11:45 AM	12:15 PM	0:30	First insights and lessons learned from SHOW	Marek Vanžura, CDV Florian Kuhnt, FZI
12:15 PM	12:35 PM	0:20	The ABSOLUT project - Insights from Leipzig	Mario Nowack, Leipzig Transport Authority
12:35 PM	12:55 PM	0:20	The Ride2Autonomy project - Insights from Barcelona	Giel Mertens, Pendel Mobility
12:55 PM	1:55 PM	1:00	Lunch break	

Agenda

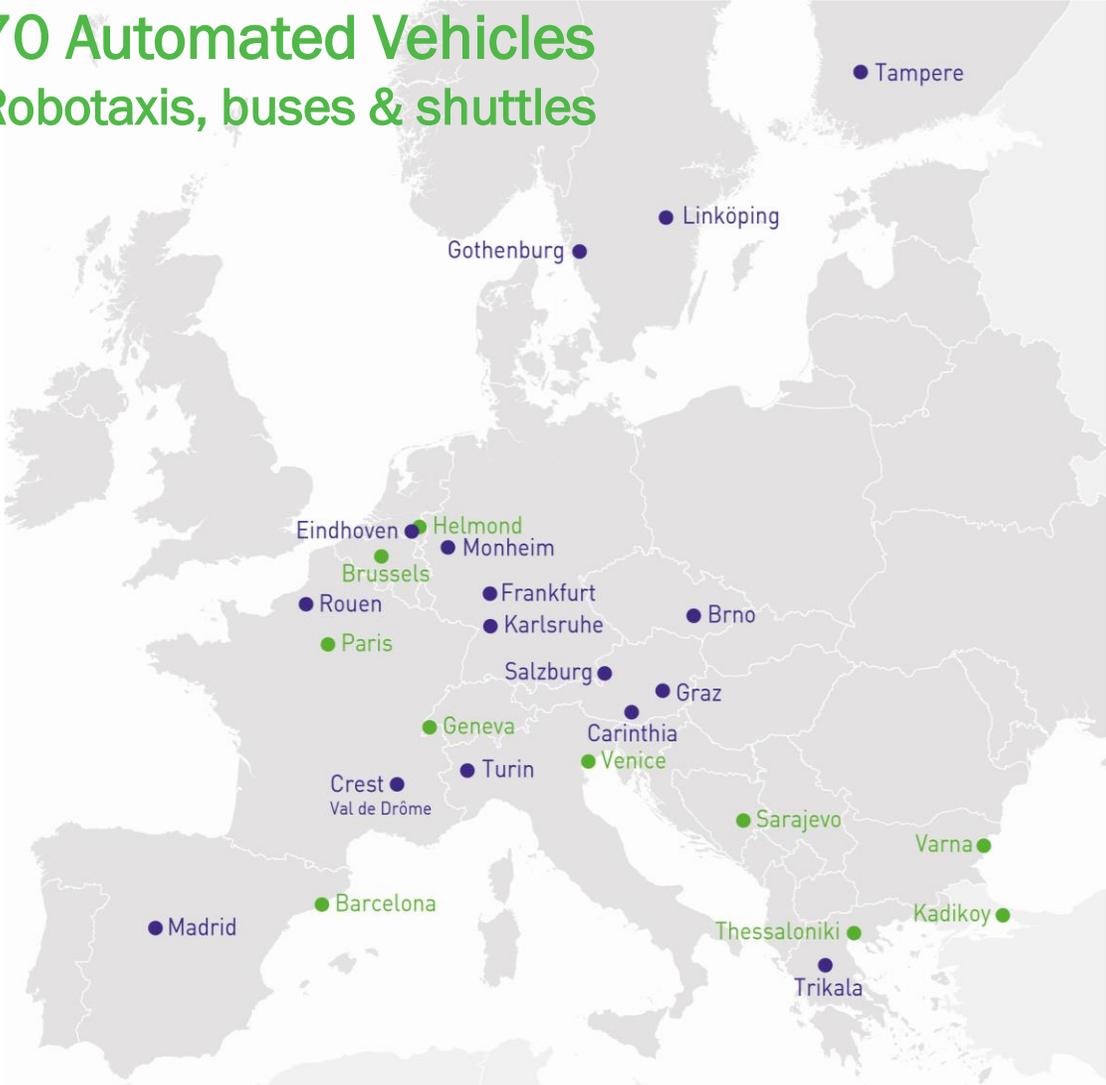


12:55 PM	1:55 PM	1:00	Lunch break	
1:55 PM	2:55 PM	1:00	Panel discussion	Maria Gkemou, CERTH/HIT, Sergio Fernández Balaguer, EMT, Suzanna Kraak, European Commission & Mario Nowack, Leipzig Transport Authority
2:55 PM	3:25 PM	0:30	SHOW activities in Madrid	Sergio Fernández Balaguer, EMT Lucia Isasi, Tecnalía Borja Gorriz, Irizar Mauro Gil, Indra
3:25 PM	3:40 PM	0:15	Adjournment	
3:40 PM	4:00 PM	0:20	Meeting outside the hotel	
4:00 PM			Bus transfer to Carabanchel bus depot	

SHOW is the largest initiative for shared Automated Mobility in Europe



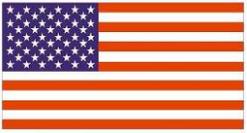
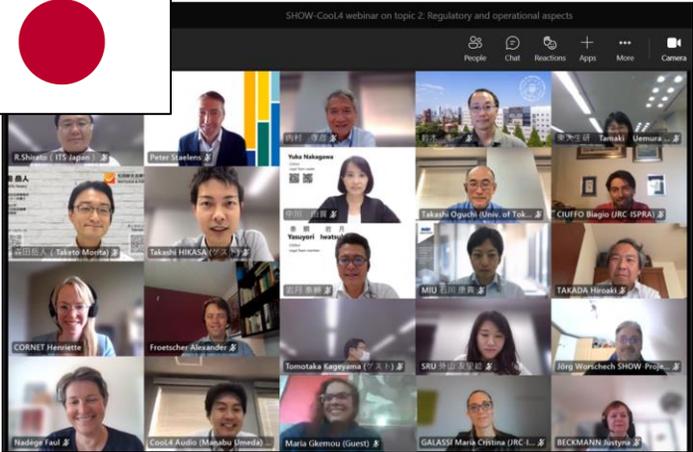
70 Automated Vehicles Robotaxis, buses & shuttles



SHOW real-life demos have started and attract public & policy makers' attention



SHOW has impact beyond the European borders



University of San Francisco
Volpe center / US DOT



National Cheng Kung University



Beijing Jiaotong Technical University



George Institute of Health

Thank you!

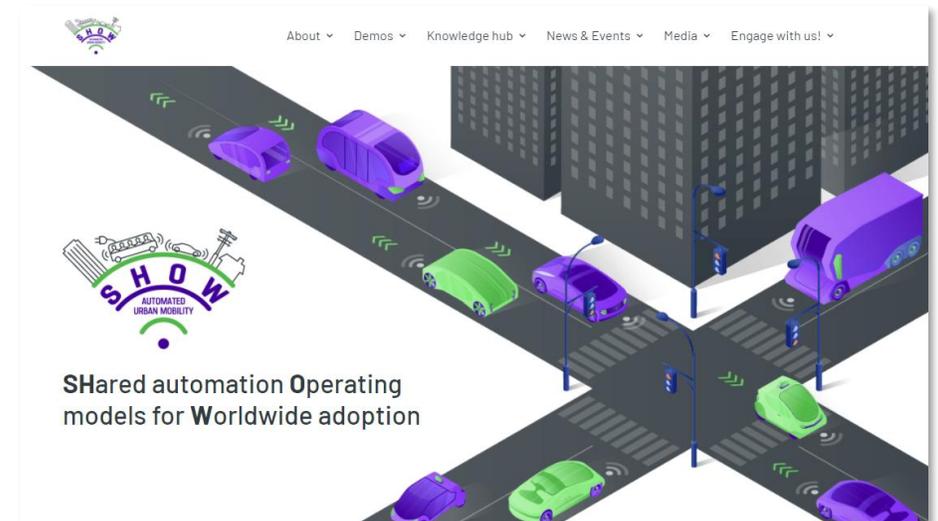
Dr Henriette Cornet | UITP
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Connect with us and check out our activities



SHOW: Demo preview in Karlsruhe



<https://show-project.eu/>



SHOW 3rd Pan-European Workshop

Dr Evangelos Bekiaris

SHOW Technical & Innovation Manager & Director of CERTH / HIT



Madrid | 19.10.2022

SHOW will **deploy** more than **70 SAE L4 AVs**

for both **passenger** and **cargo** transport in

dedicated lanes and **mixed traffic**,

connected to a wide range of supporting infrastructure (**5G, IoT**) and operating

under **traffic speeds** ranging from

18 to over **50km/h.**

Use Cases in SHOW



- Automated mobility in cities
 - Under normal / complex traffic & environmental conditions
 - With interfaces with road users including VRU
 - Connecting to Operation Centre remote supervision (& tele-operation) & to TMC
 - Applying platooning
 - Seamless autonomous transport chains of automated PT, DRT, MaaS, LaaS
- Automated mixed mobility in cities
 - For persons and goods (mixed spatial/temporal mobility)
- Added-value services
 - Big data/AI based services for passengers & cargo
 - Automated parking & depot management
 - Automated services at bus stops
 - COVID free services

Where we stand... (1/2)

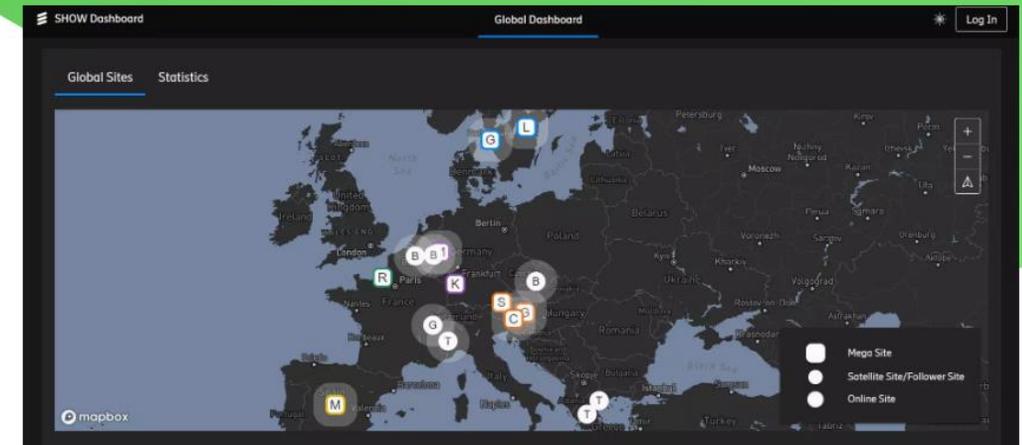
- Local architectures and ecosystems established
- Business models explored, validated – new ones emerging as well
- Vehicle advancements are reflected in vehicle demonstrators across the sites to get validated (frequent s/w updates)
- Permits, infrastructure preparation and technical validation almost closed in all sites
- Data collection methods and tools in place
 - On-line surveys, Interviews, Stakeholder Workshops – addressing all key actors experience (passengers, operators, safety drivers, ...)
 - Dashboard (for performance data logging and visualization in public) – Check out at: <https://show-project.eu/show-dashboard/>



SHOW DASHBOARD

The SHOW Dashboard provides a unified view of all SHOW pilot sites in terms of performance monitoring and visualisation of real-time vehicle information.

Explore the SHOW Dashboard



Where we stand... (2/2)



- **Pre-demo** (1st rehearsal public round of test sites prior to fully open to public operation) **is closing for the majority of the test sites**
- **Sites are progressively moving to open public operation** expected to last on average until end of **September 2023**
 - In conjunction with **demo events, open to all**
- **Follower sites are joining SHOW** – matchmaking process for following SHOW site activities and replicating services in their local context



Insight in first results

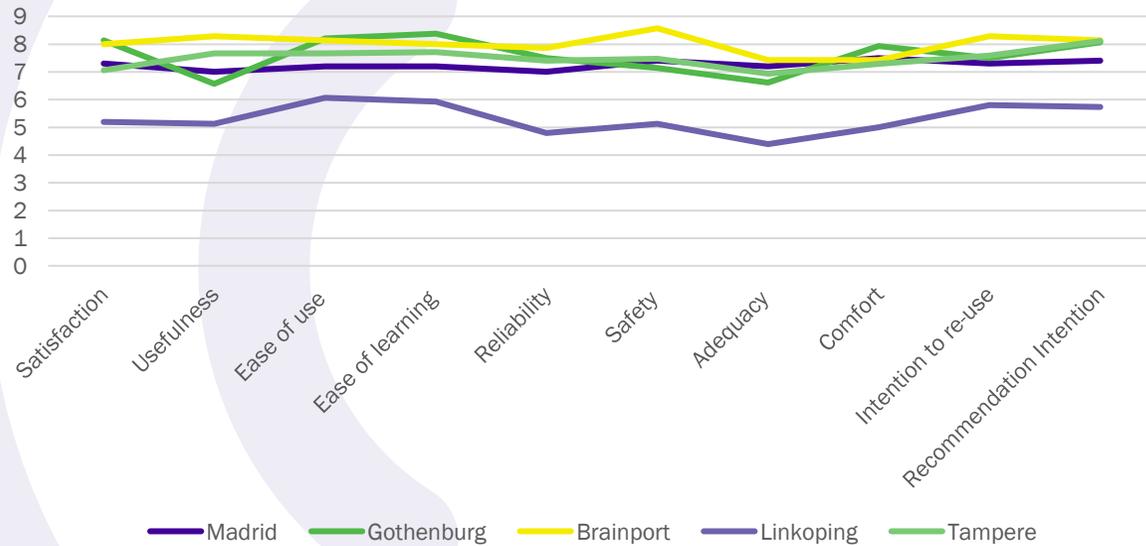
Performance data

- \approx **15km/h** average speed
- More than **22,400** passengers have been transported across all test sites already!
- \approx **100,000** Kms travelled so far for SHOW (in all sites running so far)
- In **5 sites** – **14 months** of summative operation so far
 - **6,400** hard breaking events (*threshold = $3m/sec^2$*)
 - **1 accident** leading to slight injury
 - **884** conflicts with other road users (including VRUs) and infrastructure

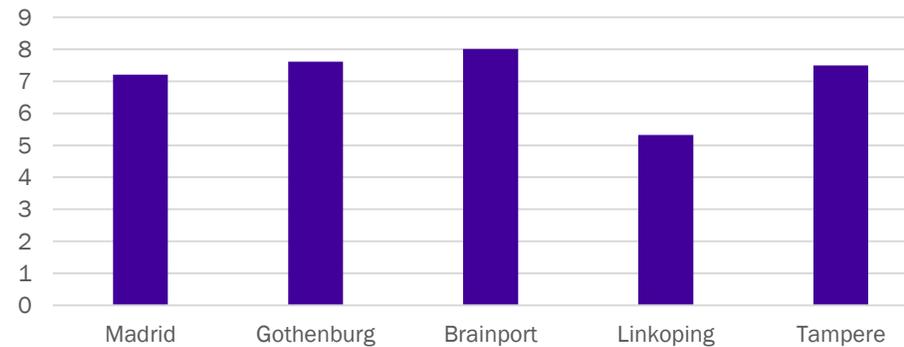
Insight in first results

User Acceptance Results – An excerpt

Average Scores of Acceptance Factors per Pilot Site in Pre-demonstration Phase [1: less positive - 10: most positive]



Average General Acceptance Score per Pilot Site in Pre-demonstration Phase [1: less positive - 9: most positive]



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<https://www.imet.gr>



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