

Project name:	Next steps for autonomous shuttles
Date:	12 February 2020
Notes:	Kurt Marquet & Peter Van der Perre
Location:	Solvay Brussels

Name	Organisation	Present
<i>Participants list attached</i>		
<b>Agenda</b>		
0. Welcome by host ( <i>Solvay</i> ) 1. Towards exploitation of autonomous shuttles ( <i>ITS.be</i> ) 2. Current legislation for autonomous shuttles ( <i>SPF Mobility &amp; Transport</i> ) 3. From pilot phase to market deployment: current bottlenecks ( <i>USH</i> ) 4. PTO's point of view on autonomous shuttles ( <i>STIB/MIVB</i> ) 5. Local tenders for autonomous shuttles ( <i>Maria Middelaers hospital Ghent</i> ) 6. Discussion & conclusions 7. AOB		
<b>Notes &amp; decisions</b>		
0. Jérémy Cornu, mobility manager at Solvay Brussels welcomes all participants. Solvay is involved in one of the three MIVB/STIB pilots on autonomous shuttles. They have 2 shuttles on their terrain transporting employees and visitors within a mixed but secured traffic flow (pedestrians, bikes, cars). Jérémy shares the general view of Solvay on mobility and highlights the experiences with autonomous shuttles ( <a href="#">see presentation</a> ).		
1. Peter Van der Perre gives an overview of where we are in Belgium regarding the deployment of autonomous shuttles ( <a href="#">see presentation</a> ).		
2. Karel Hofman gives an overview of legislation for autonomous driving/shuttles ( <a href="#">see presentation</a> ). The Geneva (1949) and Vienna (1968) conventions on road traffic are the basis for all legislation on autonomous driving. More than 80 parties are involved in this international convention, so it takes time to make changes. Several discussion papers and amendments are however in the pipeline (a.o regarding absence operator within the shuttle). Belgium has the ambition to amend the Belgian highway code.		
<b>Q&amp;A:</b> <ul style="list-style-type: none"> <li>- Will this involve highways or also other categories of road? Yes, all road categories;</li> <li>- Traffic jam assist works until 60 km/h, will this also be the case on highways? No, we are not there yet.</li> </ul>		

3.

Dario Deserranno shares his view on which bottlenecks he sees to enable full commercial deployment ([see presentation](#)). He focuses on three main domains: legislation, vehicle & technology, infrastructure & acceptance.

4.

Serdar Akdemir and Ludovic Ricker share the vision and roadmap for STIB/MIVB regarding autonomous shuttles ([see presentation](#)).

5.

Kathleen from the Maria Middelaers hospital in Ghent explains how they started with their tender to have an autonomous shuttle driving on their terrain ([see presentation](#)). As of March 2020 the shuttle will arrive.

6.

Q&A:

- Why are shuttles not equipped with camera's? Lidar is at this moment the most reliable technology;
- It is extremely important to share the experience of all pilots, from the start (tender), implementations, technical adjustments, first experiences...;
- Cooperation prior to pilots is needed as well;
- Technology is rapidly improving. However, until legislation evolves to allow autonomous shuttles without the presence/oversight of a driver, it will be fully establish (1) user acceptance and (2) a positive business case.

7.

Jérémy Cornu invites all participants to experiment with the autonomous shuttles of STIB/MIVB which are waiting for them out front.



Upcoming ITS.be events in 2020 – detailed information & Google calendar/Outlook links in [this brochure](#).

- 19/2 14-16h: MaaS all hands meeting @Antwerp
- 18/3 10-12h: Intelligent road user charging Belgian state-of-the art - TBC
- 25/3 PM: ITS.be General Assembly & membership dinner @Liège
- 1/4 10-12h: Third-party payment systems for MaaS @Leuven
- 28/4 10-12h: Lessons learnt from the Finnish Transport Act @Deloitte Zaventem
- 7/5 all day: Technical visit Luxembourg - transferring machines/mobility hubs
- 13/5 10-12h: ITS for pedestrians and cyclists
- 18-20/5 all day: ITS Europe congress Lisbon
- **28/5 14-16h: MaaS all hands meeting**
- 10/6 10-12h: Interoperable ticketing & payment for public transport
- 24/6 10-12h: Supporting end-users via (a market for personalised) mobility advisors and by sharing end-user experiences
- **24/9 all day: Belgian ITS.be congress Bluepoint Brussels**
- 4-8/10 all day: World ITS congress Los Angeles
- 21/10 10-12h: Towards a common C-ITS profile
- 18/11 10-12h: Harmonisation of electromobility information & payment
- **3/12 14-16h: MaaS all hands meeting @Dep MOW Flanders**
- 16/12 10-12h: Towards common MaaS APIs - Need for a competence center

Participants list:

First name	Last name	Function	Organisation
Robbert	Lohmann	CCO	2getthere
Rik	Nuyttens	Connected roads manager	3M
Luc	Picard	Global market busdev manager	ABB
Michel	Rousseau	Innovation & collaborative program manager	Alstom Belgium
Kristof	Rombaut	studieverantwoordelijke ITS	AWV
Barbara	Demaire	Senior project manager	Brussels Airport
Elke	Bossaert	Accessibility Manager	Brussels Airport
Sven	Neckebroeck	Attaché	Brussels Mobility
Mathias	Van Coppenolle	Assistent	Brussels Mobility
Daniel	Huynh	Ingénieur	Brussels Mobility
Paul	Lecocq	Responsable contrôle technique et homologation des véhicules	Brussels Mobility
Antonio	Vanderstraeten		Brussels Mobility
Annemie	Steege	Busdev executive	Cegeka
Raphael	Van den Bogaert	Business development manager	Cegelec infra Technics

Koen	Schiettecatte	Program leader Automated transport	De Lijn
Stefaan	Wanzeele	Projectcoördinator mobiliteitsconcepten	De Lijn
Aled	Walker	Director	Deloitte
Ellen	De Winter		Deloitte
Julie	Mariën	Beleidsmedewerker ITS	Departement MOW
Eric	Kenis	Projectingenieur C-ITS	Departement MOW
Damien	Deroanne	Automotive consultant	Double-d
Michiel	Hoffmann	Sales & marketing manager	Dynniq
Clément	Delbouys	Sales manager	Easymile
Xavier	Tackoen	Administrateur-délégué	Espaces-Mobilités
Peter	Van der Perre	Director	ITS.be
Kurt	Marquet	Business development manager	ITS.be
Anne-Stéphanie	Adibime	Innovation manager	Logistics in Wallonia
Kathleen	Stam	Stafmedewerker	Maria Middelaes
Serdar	Akdemir	PM	MIVB/STIB
Ludovic	Ricker	Strategic studies & projects manager	MIVB/STIB
Philippe	De Bock	Project manager	Mobiliteitsbedrijf Gent
Kris	Redant	Researcher	OCW
Hinko	Van Geelen	Senior onderzoeker	OCW
Edwin	Van Walsum	Mobility strategy coördinator	Q8
Hans	De Ruyscher	Business development manager	Siemens mobility
Jérémy	Cornu	Mobility manager	Solvay
Karel	Hofman	Ambtenaar	SPF Mobility & Transport
David	Schoenmaekers	ITS-verantwoordelijke	SPF Mobility & Transport
Gauthier	Michaux	Ingénieur	SPW
Caroline	Pourtois	Directrice	SPW
Nicolas	Masy	Attaché qualifié	SPW
Véronique	Termolle	Consulent mobiliteit	stad Antwerpen
Jorn	Vanhees	Innovathor	stad Genk
Ann	Vandeurzen	Projectcoördinator	stad Mechelen
Veerle	De Meyer	Projectcoördinator	stad Mechelen
Sven	Huysmans	Senior expert	The New Drive
Ehsan	Karimi	Strategy & Innovation consultant	Tomorrowlab/Q8
Dario	Deserranno	Project manager	USH
Jean-François	Gaillet	Director innovation & technology	VIAS institute
Evvy	Rombaut	Senior researcher	VUB-MOBI