

International Transport Forum

Autonomous Vehicles as part of diversified public transport system

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April 20th, 2018

New Mobility Services



KEOLIS

Keolis, operator and integrator of daily modes of transport



16
countries

63 000
employees

5,4
billion
revenue



World leader in trams
& automated metros

Multimodal expert

Operating 10+
transport modes



3
billion
passengers

N°1 in autonomous vehicles

The mobility market is facing a major transformation

Social and cultural changes

Disruptive technologies and new services

Changing passenger expectations

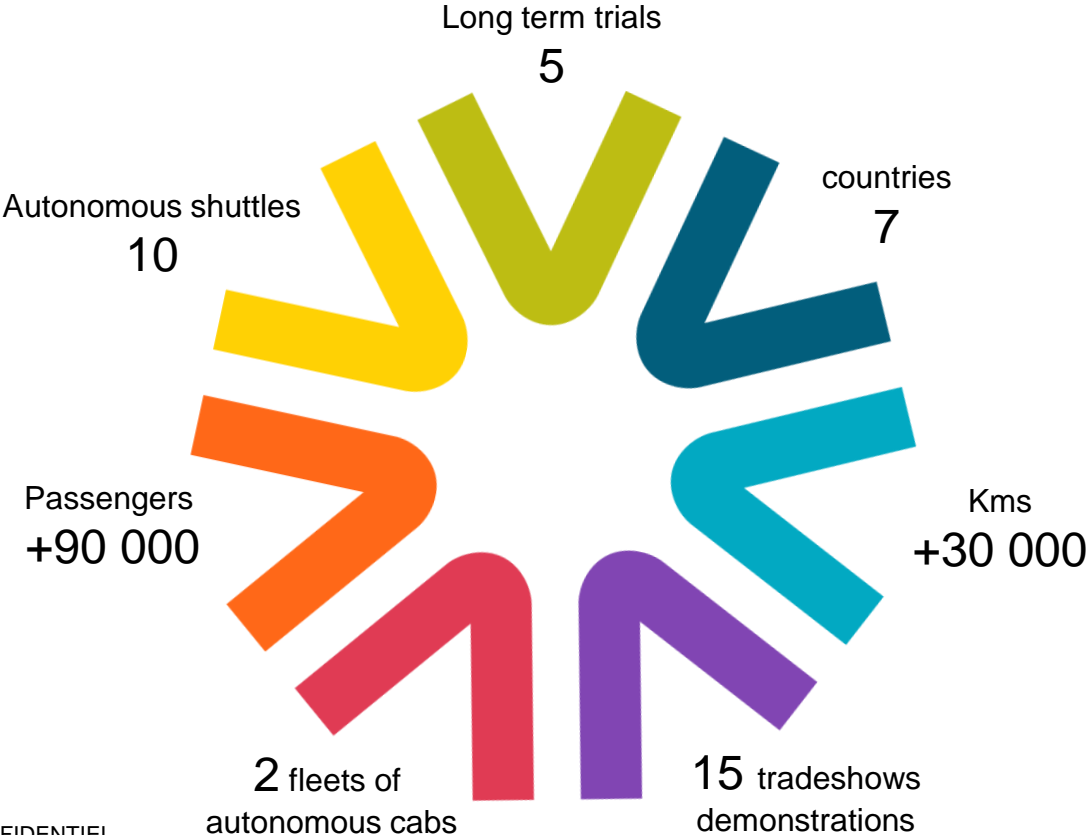
New public mobility governance



C**A****S****E**

Conected **A**utonomous **S**hared **E**lectric

Key figures on autonomous vehicles within Keolis



4 Source: Keolis, CONFIDENTIEL

Keolis trials : increasing complexity with the shuttles...

France

Lyon Sept. 2016



- **1st regular service with autonomous shuttle worldwide**
- Navly **Mobile app** (Sept. 2017) offering :
 - Key service information
 - Real-time shuttle positioning

Path : 1,3 km

Paris-La Défense June to December 2017



- More than 6 000 km driven within **the biggest business district in Europe**

3 Paths : 2 km

Roissy-ADP from Feb. 15th, 2018



- **2 AV crossing each other automatically**
- Connected to a **traffic light in V2X, dynamic with priority to the shuttle**
- On demand app available for off peak

Path : 0,6 km

International

UK – London Queen Elizabeth Olympic Park Sept. 2017 (3 weeks)



- **A large-scale partnership management**
Keolis Amey Docklands & Navya, in partnership with Engie, LLDC (London Legacy Development Corporation), HereEast & Our ParkLife

Path : 1 km

USA – Las Vegas from Nov. 2017



- **1st AV service open to the public in open road**
- The shuttle **runs in traffic** in downtown Las Vegas and is **the only in the US so far**
- **V2X connexion** with traffic lights

Path : 1 km

...and a new vehicle for 2018 : the autonomous cab

- ⦿ Launch in partnership with Navya in November 2017
- ⦿ First trial during CES in Las Vegas (January 2018)
- ⦿ This autonomous cab is 100% electric and the **first fully autonomous robo-taxi on the market**, addressing shared mobility needs by providing a new personalized form of passenger transport

