Innovation in station:
Collaborative automated luggage handler robot.
Each traveler has luggage

Bulky luggage
Several luggage per passenger
Person with Reduced Mobily (PRM) also have luggage
**Problematic** of the reception of Person with Reduced Mobility (PRM) in station:

- **Occupational health risks** for railway employees (backache due to transport of heavy luggage all day)

- **Waiting time of PRM** at the entrance to the station or arrival by train (due to the availability of railway employees)
Objectives:

• Best comfort for railway employees
  - no backache for railway employees because no luggage to transport. This is done by the robot.

• Best reception of PRM
  - reduced waiting time of PRM because railway employees divide up reception (1 employee for PRM, no need to have several employees for 1 PRM)
  - Quality reception: Railway employee is fully available for PRM
Innovation at
EffiBOT
Collaborative automated luggage handler robot.

- EASY TO USE
- OBSTACLE AVOIDANCE
- MAX SPEED 7 KM/H
- FOLLOWS OPERATOR
- EASY TO USE
EffiBOT HANDLING ROBOT

- 2 or 4 wheel drive
- BLDC 48V 570 à 1800 W total
- 7 or 18 km/h
- weight 100 kg or 150 kg
- 50 or 80 cm wheelbase
- payload up to 300 kg
- slope up to 30%
- length 125 cm, height 55 cm, width 65 cm
- 6 to 8h of use
- Lithium battery 48V

UIC DIGITAL DAY
Paris, 7 October 2016
EffiBOT HANDLING ROBOT

“Follow-me”

“Precede-me”

“Symmetric robot”

“360° tracking”
EffiBOT
Collaborative automated luggage handler robot.
Collaborative automated luggage handler robot.
Collaborative automated luggage handler robot.

EffiBOT

Collaborative automated luggage handler robot.
Other railway applications of autonomous robots
Railway maintenance

Autonomous mode:

- Follow-me
- Conveying between two positions
Railway maintenance

Autonomous mode:

- Follow-me
- Conveying between two positions
Who we are?
• French technological SME of 11 employees, founded in 2009 by Dr-Ing Cédric TESSIER

• Designs and markets autonomous and collaborative mobile robot & autonomous navigation system

• Reecognized for our technological innovation of follow-me robots

• A development which relies on a network of international integration partners
EffiBOT: Collaborative automated handler robot

Logistic

Military

Agriculture

Buildings
EffiNAV  Autonomous navigation system

- People or car following
- Autonomous conveying between two positions
- Automatic guidance

For any robot or vehicle