



MOBILITY

Shared autonomous
transport services



Challenges in autonomous transport

#PACE FUTURE'S MOBILITY



We believe that autonomous public transport will deliver profound changes, not only in how we travel, but also in how we live.

We aim to keep developing inclusive, efficient, and sustainable mobility solutions by gradually introducing shared autonomous vehicles into transport networks.

This is expected to bring a tide of benefits (as long as the autonomous vehicles are used for shared transport), including : flexible, customizable, and accessible services, more widespread stops in terms of time and distance, reduced sound and air pollution (100% electric vehicles), safer, more comfortable travel, and more integrated, smart services for the best possible customer experience.

We want to harness autonomous technology for shared transport, everywhere and for everyone !



The future of mobility is PACE: Personalized, Autonomous, Connected and Eco-Friendly. We are a world leader in public transport and on demand public services. As such, we are committed to testing out new kinds of mobility, giving our customers the best possible solutions to their travel needs."

— Yann Leriche,
CEO North America, Head of
the global B2C business line &
Autonomous Transportation Systems

THE ADDED VALUE OF SHARED AUTONOMOUS TRANSPORT FOR ALL



Passengers



Practical



Flexible



Always
available



Connected



Local authorities



Inclusive



Integrated



Inclusive



Intermodal



Expanded



Cities



Sustainable



Secure



Accessible

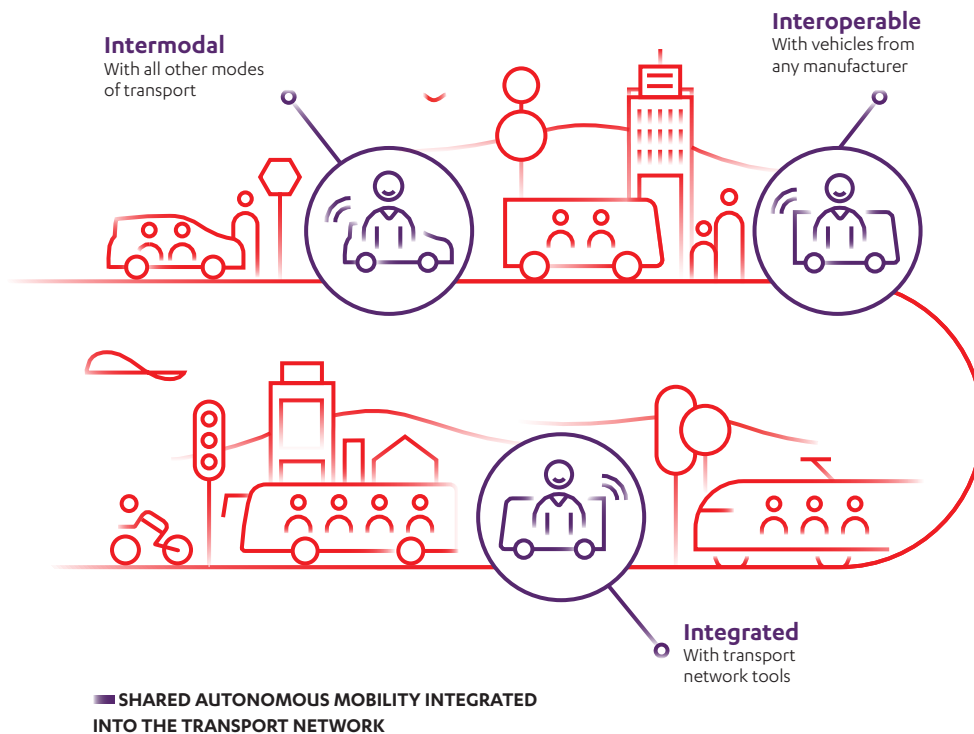


Opened up



Friendly

Our turnkey solution



Thanks to our positioning with a range of manufacturers (EasyMile, Navya, 2GetThere, Lohr, Renault etc.), we deliver transport services using autonomous vehicles from any brand.

W

e offer turnkey shared autonomous transport solutions : from help choosing the right services/route to rolling out and operating services, including permit management and tracking customer satisfaction. We work closely with our customers every step of the way.

At the time of writing, 1000 passengers have surveyed and have given our various services an overall satisfaction score of 8.7/10, with a feeling of trust at 97%, and 97% likely to recommend us.

The pillars of Transdev's expertise



As an operator and global integrator of mobility, Transdev – the mobility company – gives people the freedom to move whenever and however they choose. Transdev is proud to provide 11 million passenger trips everyday in 20 countries thanks to efficient, easy to use and environmentally-friendly transportation services that connect people and communities.



A pillar of Transdev's strategy is the development of autonomous transport systems, one of the major disruptive innovations in the future of mobility."

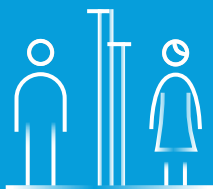
—Thierry Mallet,
Chairman and CEO
of Transdev Group

A DEDICATED, PASSIONATE TEAM WORKING IN START-UP MODE

The Autonomous Transport Systems Department is staffed by international experts hailing from a variety of different sectors. The department includes an R&D team made up of expert specialists, which works closely with the Group's different business lines and subsidiaries around the world.



10
Nationalities



74 %
Men

26 %
Women



Engineering School
Business School
University
Graduates



Automobile



Mobility



Robotics



Research

Experience

THE TRANSDEV AUTONOMOUS TRANSPORT SYSTEM

We are developing Transportation Technology by Transdev for our Autonomous Transport System – ATS by Transdev using the (supervision, embedded intelligence, connected infrastructure, customer application) that will guarantee the safety of our passengers, the quality of service and the customer experience. To do so, we work with carefully selected partners chosen for the quality of their work and renowned expertise.



Supervision

Autonomous vehicles fleet tracking and management, allocating as needed and maintaining constant contact

transportation
technology
by  transdev

Client application
Passenger information and assistance before, during, and after their journey



Embedded intelligence
Scan and analyse surroundings in real time so autonomous vehicles can travel in absolute safety; ensure the system run safely

Connected infrastructure
Collects and transmits data about the surroundings



Autonomous mobility services : tailored solutions to a range of needs are already here.



As a transport operator today and in the future, we are responsible for ensuring the safety of our passengers, the quality of service and want to provide the best customer experience

The applications for autonomous mobility solutions are growing in number and variety with every new project. Increasingly complex services will become available, eventually meeting other mobility needs.

APPLICATIONS DEVELOPED BY TRANSDEV



Taking care of travel
from the nearest
station or stop

Rouen (France)

Rouen Normandy Autonomous Lab project - 3 years :

The first on-demand transport service using autonomous vehicles on the open road in Europe (three circuits of 10.5 km).

Offering shared autonomous transport services in **urban areas**, so that passengers can reach their destination in the Madrillet Tech Cluster, or get to the tram station from the Cluster **during the day**.

Partners: Caisse des Dépôts Group, Métropole Rouen Normandie, Région Normandie, Transdev Group, Renault Group, Matmut Group and Europe / FEDER.



Giving a ride
at night or
off-peak hours

Paris-Saclay (France)

Paris-Saclay Autonomous Lab project - 3 years :

Providing shared autonomous transport services in **suburban areas**, so that residents can reach their home (in the Camille Claudel neighbourhood) or the Paris-Saclay campus from Massy station at night and during off-peak times.

An integrated service that complements current public transport options, and makes use of **existing infrastructure (TCSP Massy-Saclay)**.

Partners: Renault Group, Transdev Group, Vedecom, IRT SystemX, Université Paris-Saclay, with the support of Investissements d'Avenir of the French State entrusted to ADEME.



Facilitating mobility
within city centres
or tourist attractions

Verdun (France)

First transport service in France on the open road, in real traffic conditions, in a city centre, for more than two months.

Facilitating travel in Verdun **city centre**, providing access to the city centre shops and restaurants as well as the quayside, which is very busy during summer, all while providing connections to the bus network and park and ride facilities.

Partners: The urban community of Great Verdun, the City of Verdun, Transdev Group.



Serving
a private or
restricted site

Babcock Ranch (Florida, USA)

First private commercial contract in the USA.

Enabling residents **to travel around this new, green, solar-powered town thanks to a fleet of autonomous shuttles**. Experimentation with several modes of autonomous transport within this town under construction in the state of Florida, so that its 50,000 new residents can enjoy mobility "as a service".

Partners: Kitson & Partners, Transdev Group.

Leader in operating shared autonomous mobility services.

We offer a comprehensive range of services, based on a solid track record that stretches back to 2005.



SINCE 2005

Rotterdam (Netherlands) **World's 1st commercial contract.**

Ferrying passengers between a metro station and business center.

2016 > 2018

Civaux (France)

World's 1st private commercial contract.

Shuttling staff across the site of an EDF nuclear power station.



2017

Issy-les-Moulineaux (France)

Shuttling passengers between park and ride and tram station.

Rungis (France)

1st commercial contract on open road in France.
Carrying staff from Icade Rungis business park to the various restaurants on the site.

2018

Reims (France)

Facilitating travel between two modes of transport.

Verdun (France)

1st transport service in France on the open road in a city center for more than two months.

Paris Motor Show (France)

Shuttling visitors during the event to move between the halls.



2014 > 2015

La Rochelle (France)

1st major project in France.

City centre transport for residents.

SINCE 2017

Rouen (France)

Rouen Normandy Autonomous Lab project – 3 years.

1st on-demand transport service using autonomous vehicles on the open road in Europe.

Paris-Saclay (France)

Paris-Saclay Autonomous Lab project – 3 years.
Autonomous, electric, shared, public and private mobility services to complement the existing mobility offer on the Paris-Saclay plateau.



SINCE 2017

Gainesville (USA)

Shuttling students to city centre from their Florida college campus.

Jacksonville (USA)

Shuttling sports fans from car park to stadium.

SINCE 2018

Babcock Ranch (USA)

1st private commercial contract in the USA.



3.5 M

passengers transported

1.6 M

kilometers travelled

with Transdev shared transport services using autonomous vehicles
(no steering wheel or pedals)

Transdev Autonomous Transport Systems

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 **transdev**
the mobility company