



RAILEVO

RETHINK RAIL TRANSPORT

WHAT IS RAILEVO?

RailEvo is an innovative transport system composed of autonomous 4–6 seat rail taxis operating on dedicated lines and stations, capable of offering an on-demand, 24/7 service with no intermediate stops to/from any station along the route.

The RailEvo concept ensures continuous vehicle movement along the line. Thanks to an innovative vertical switch, vehicles can decide whether or not to engage the track switches and continue at constant speed even while passing through intermediate stations.

RailEvo offers a transport capacity of about 5,000 seats per hour per direction, with high flexibility in traffic management.

The infrastructure is significantly lighter than conventional railway systems, requires fewer materials, and results in lower environmental impact and reduced construction costs. By comparison, axle loads are up to 20 times lower than those of traditional trains.

The constant-speed requirement enables highly predictable travel times and exceptional operational efficiency.

The advantages of RailEvo compared to traditional railway infrastructure are significant:

faster return on investment - reduced space requirements and shorter construction times - ability to handle steeper gradients and tighter curves - lower energy consumption per passenger - minimal use of public land - reduced operational staffing needs - shorter travel times - 24/7 service availability - minimal waiting times at stations - lower final cost for the user

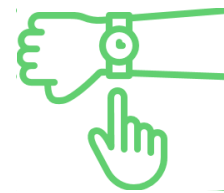
A RailEvo infrastructure can reach full amortization within 15–20 years, making it an ideal solution for local public transport systems.

**AUTONOMUS RAIL TAXI 24/7
ON DEMAND & NON STOP**

for users



AFFORDABLE



TRAVEL TIME
GUARANTEED



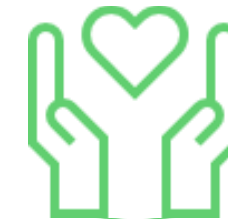
EXCELLENT USER
EXPERIENCE



ON-DEMAND 24/7

PROFITABLE & SUSTAINABLE

for investor, transport players
and infrastructure owners



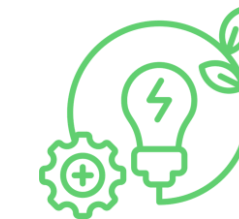
SAFE & RELIABLE



SUSTAINABLE AND
PROFITABLE

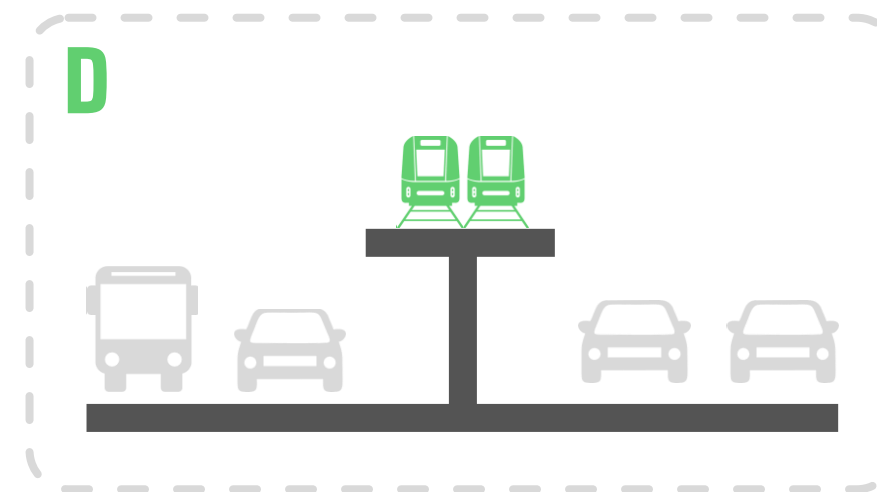
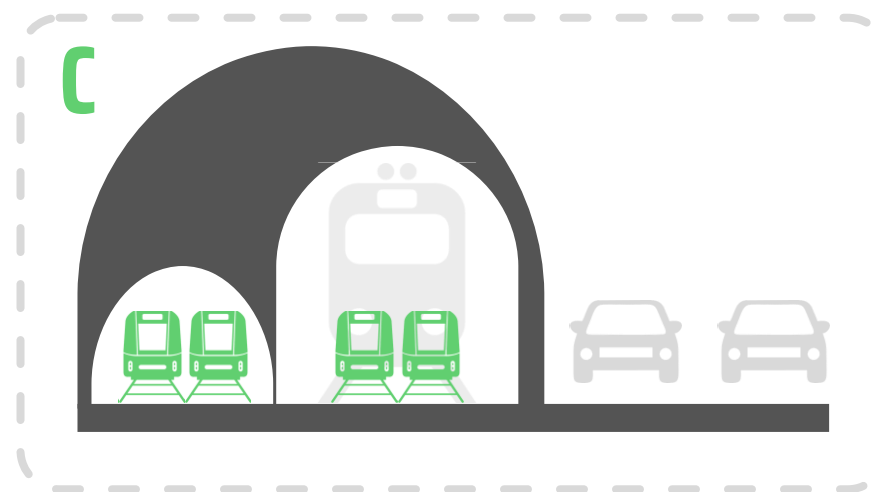
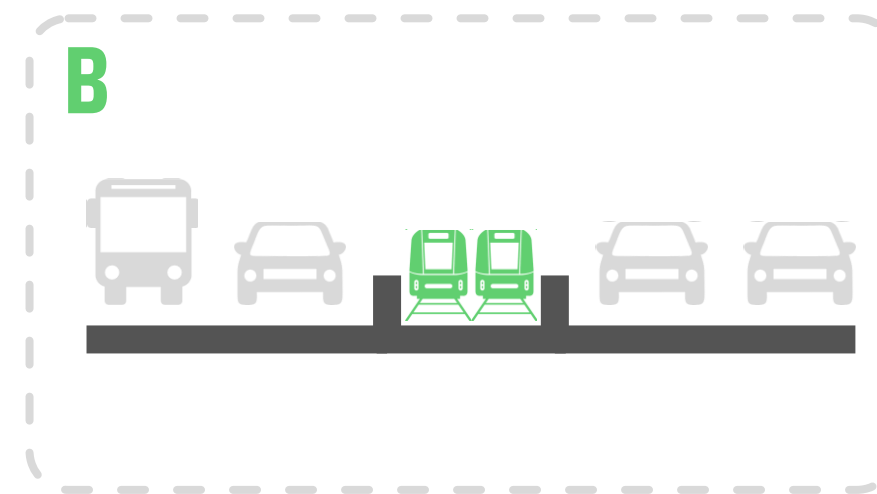
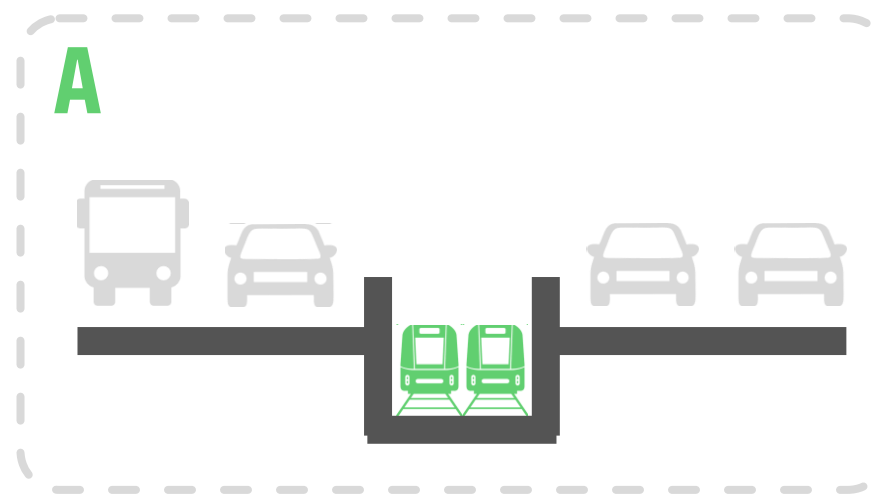


EXCELLENT TRAFFIC
MANAGEMENT &
CAPACITY



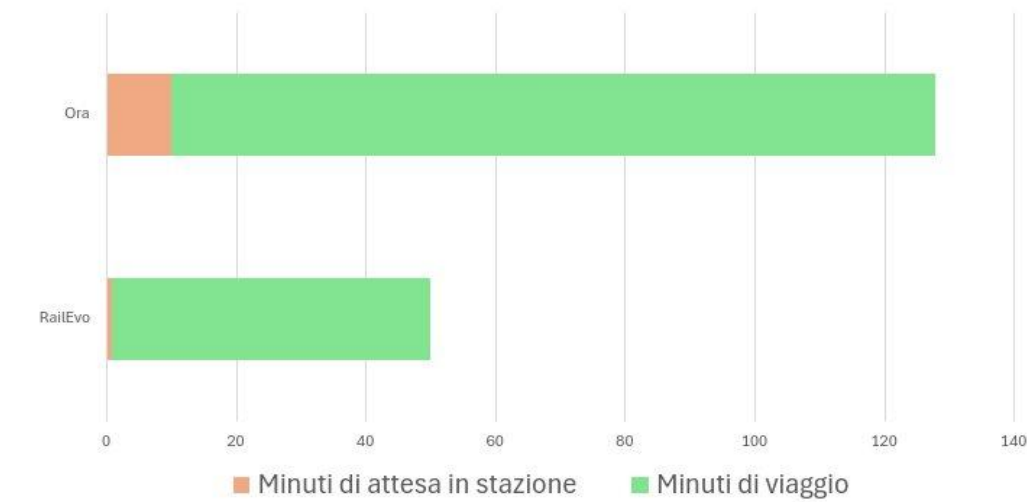
SUPER EFFICIENT
3-4kWh x 100km

-50% space & 1/20 less weight
with a smaller & lighter infrastructure



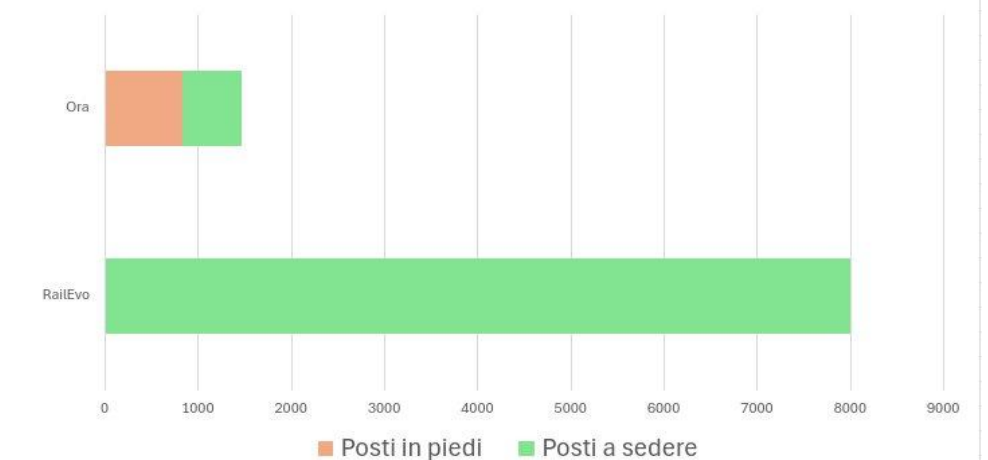
-60% travel time
using a dedicated track per direction

Ipotesi di percorrenza Trento- Malè



+400% passenger payload
compared to a single track line

Passeggeri orari nelle due direzioni



RailEvo system is based on a dual mode vehicle, able to:

- travel fast & efficient on rails
- engage a specialized vertical rail switch
- leave the rail and move on flat station's surface on Mecanum Wheels



**Concept patented
in 2017**



**Axle patented in
2024**
(PCT PATENT
APPLICATION 2025)



[The RailEvo Experience](#) 2min 37s

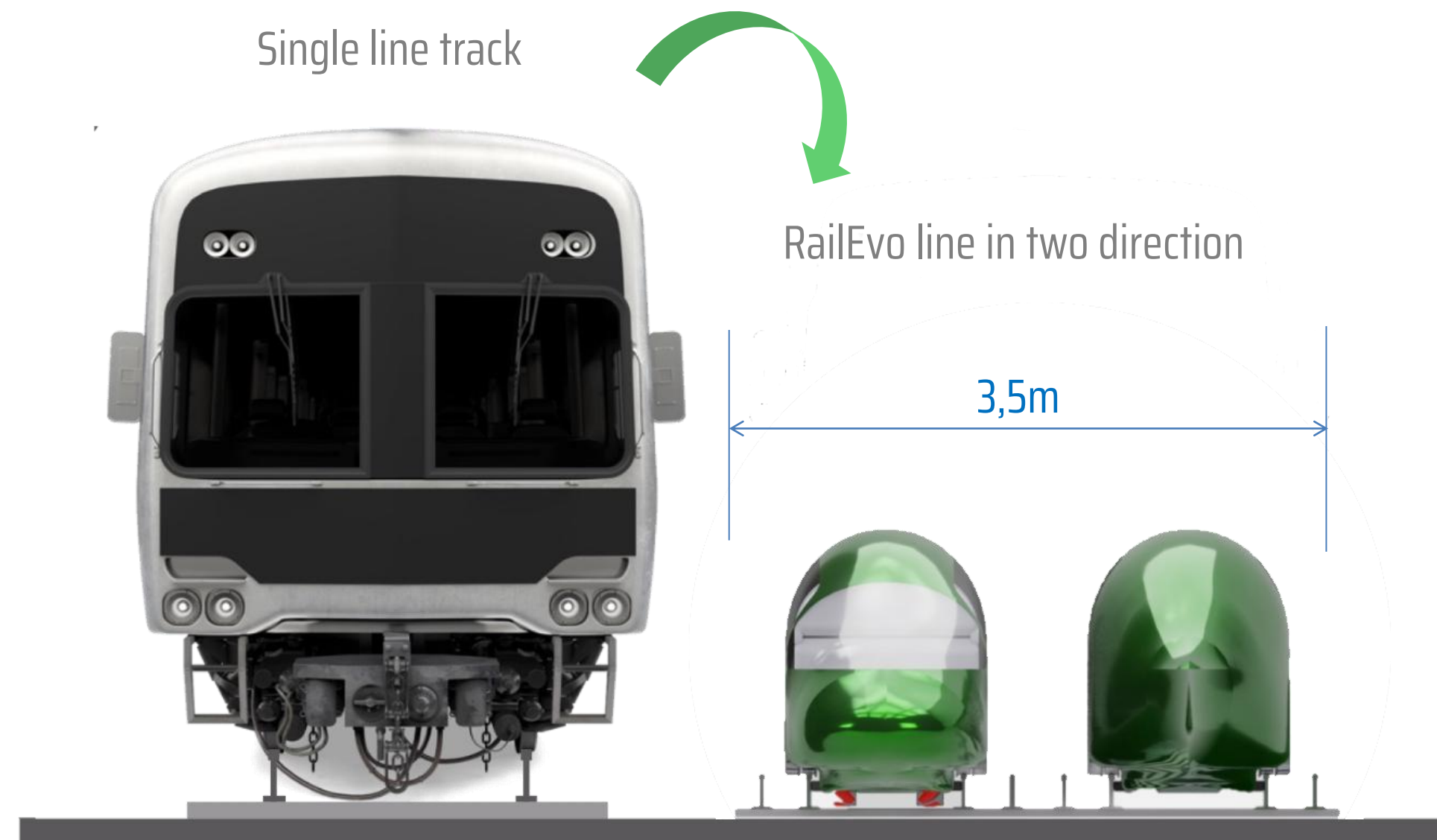
RailEvo is the solution that satisfies both users and owners/operators

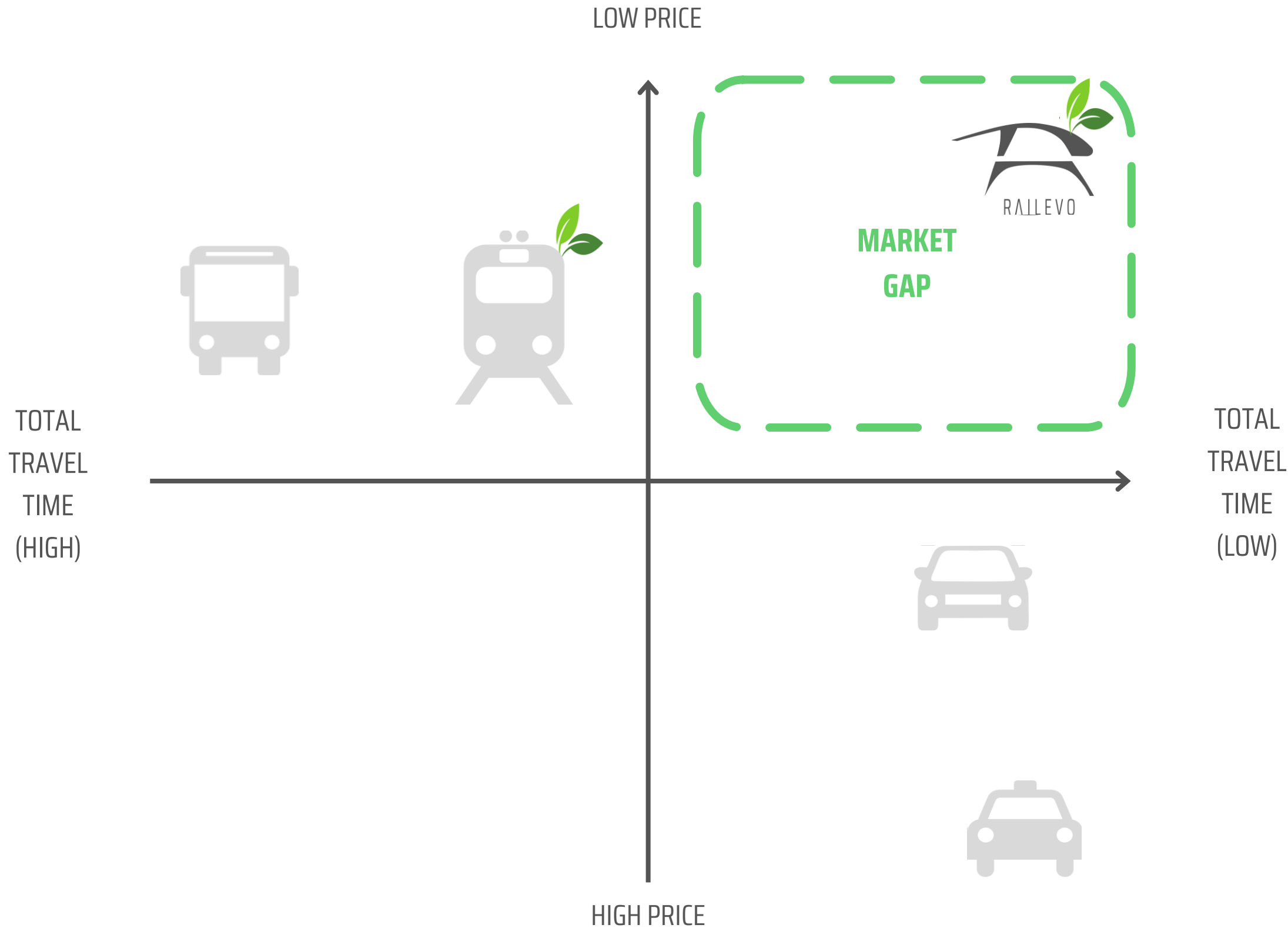
- Very attractive service available 24x7 **on demand**
- Non-stop travel which reduces travel times
- High traffic capacity and versatility
- Reduces payback time of new infrastructures
- Up to 20% slope and two lines in < of 4m of space
- Reduces operating and maintenance costs

Two potential **B2B** markets:

- ✓ New Local Public Transportation connections
- ✓ Retrofit of existing lines (still active or suspended)

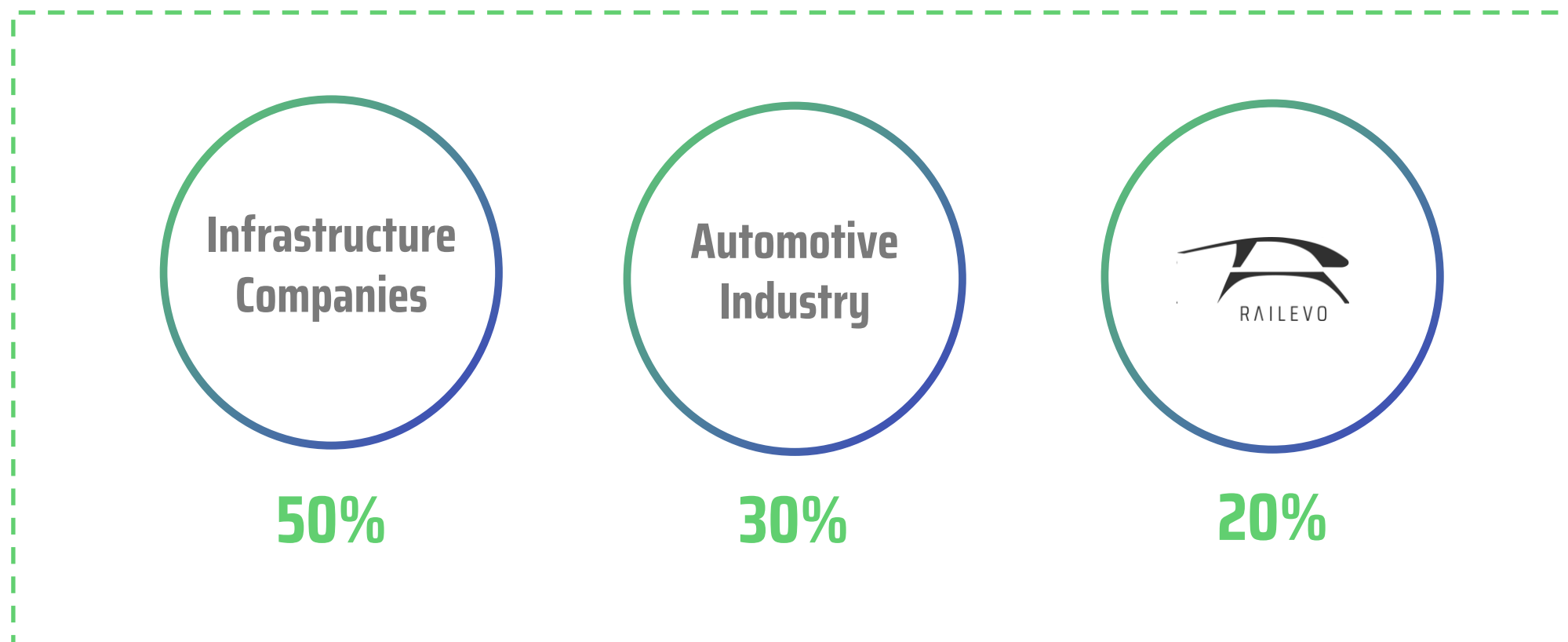
Retrofit opportunity





The Ideal Business Model

A business model with an exclusive focus on axles and technological services
Strategic partnerships with industry stakeholders to create a leverage effect on the supply chain



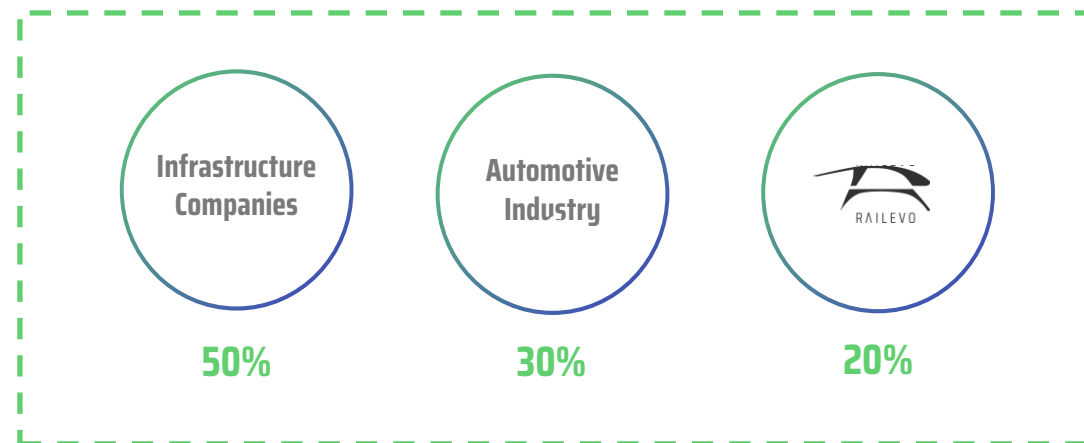
RailEVO's LOB:

- Sale of the axles required to enable the technology
- Periodic maintenance of the axles
- Royalties fee for the right to use the patent for strategic partners
- Fee per transportation ticket sold

* detailed numbers available under NDA

Project example

The conversion of a traditional single rail line of **50 km** with **10 station**



5.000 passenger/day

- ✓ CAPEX 100 M€
- ✓ OPEX 20Y 70 m€
- ✓ REVENUES 180 M€
- ✓ TIR/IRR ~ 3,5%

6.500 passenger/day

- ✓ CAPEX 100 M€
- ✓ OPEX 20Y 70 m€
- ✓ REVENUES 240 M€
- ✓ TIR/IRR ~7%

* detailed numbers available under NDA



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www.railevo.com