

Welcome to the age of frictionless mobility



NEVOMO

Introduction & Company Purpose

A unique railway innovation in proving inefficient legacy infrastructure & enabling a new era for railways worldwide



Hyperloop and MagLev-inspired railway technology

NevoMo is a **European deep-tech company** introducing an efficient frictionless upgrade to legacy railway infrastructure



Flexible stepwise upgrade of legacy infrastructure*

- **MagRail Booster** - enhancing the capacity of existing tracks by introducing efficient propulsion, electrification & automation
- **MagRail** - a further increase of speed & reduction of OPEX by adding magnetic levitation



Accomplishments

- Tech adoption by the biggest global railway players
- Globally unique technology, strongly supported by the European Commission
- Full-scale functional prototype



Ambition

Enabling railways to **transform current infrastructure & rolling stock** (still based on a 19th-century core traction tech) into **the preferred mode of transport of the 21st century** (fully automated & digitalized)

Railway industry faces four major problems

Issues with full digitalization of legacy infrastructure prohibit railways from meeting the growing demand

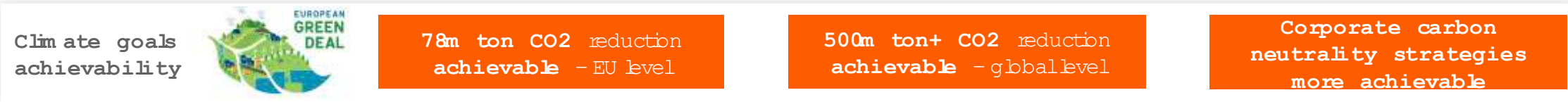
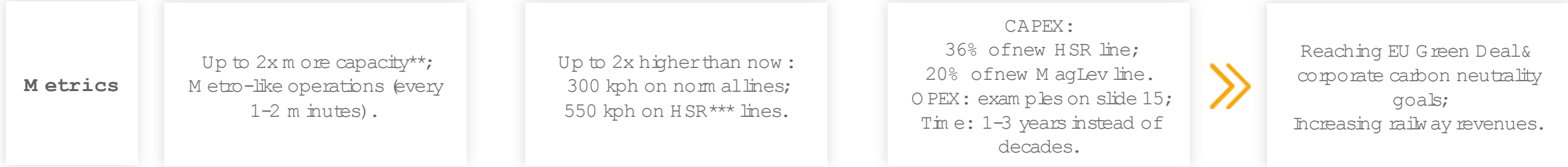


European Green Deal 2030 target is at risk – railways are unable to adapt their networks to increase freight market share to 25% and double the number of transported passengers

78m ton CO2 reduction at risk

Nevomo's solutions

Increasing capacity & flexibility of operations on existing lines, improving speed at attractive CAPEX & reduced implementation time



* TCO - Total Cost of Ownership, comprising, i.a., CAPEX and OPEX

** compared to the most advanced existing tech

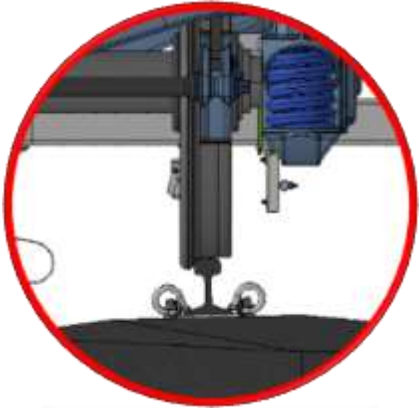
***HSR: High-Speed Rail

MagRail Booster & MagRail explained

Introducing new, fully-digital & contactless mode of propulsion and frictionless suspension as the interface between vehicles and infrastructure

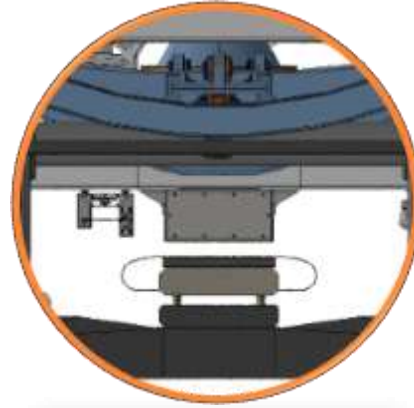
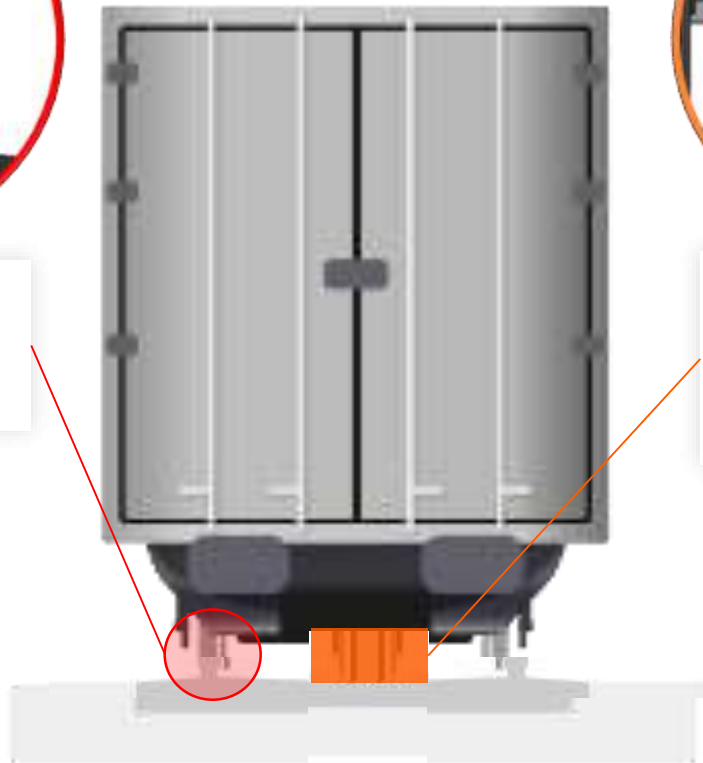
MagRail Booster*

Vehicle retrofit
Infrastructure retrofit



Limited wheel use

For rolling & guidance only, no traction forces transmitted

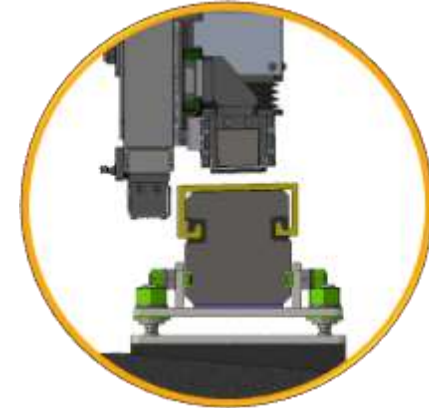


Direct contactless linear motor propulsion

Slippery effects eliminated

MagRail

New vehicle
Infrastructure retrofit



Frictionless suspension - magnetic levitation

Overcoming speed limits at attractive OPEX, incl. maintenance costs



Limited wheel use

For low-speed rolling only

Roadmap: upgrade from legacy towards interoperable, frictionless future

MagRail allows a phased-in upgrade of legacy railways with components implementing automation, electrification & full digitization



Nevomo's MagRail transforms railways by adding needed features

Solving railways' challenges with a portfolio of MagRail solutions

MagRail features:

Automation & electrification



More power & better dynamics



Flexibility



Velocity



Applications:

- › **Automated**, flexible shunting
- › Shuttling of wagon-groups
- › **Electrification** of terminals
- › **Higher loading limits** on inclines
- › Faster acceleration out of passing tracks
- › **Faster acceleration/ deceleration** in stations
- › Dedicated pods operating with **high frequency & high flexibility**
- › **No locomotives needed** – easy adaptation to demand fluctuations
- › High-speed passenger travel (**550 kph**) with levitation

Benefits:

Capacity ↑

Flexibility ↑

TCO* ↓

Our technology is ready for piloting on real infrastructure

MagRail Booster is heading towards pilot implementation with leading infrastructure managers starting in 2023/2024



Cooperation with:



RFI plans to co-finance Bologna San Donato with "Europe's Rail" funds*. Other railways & suppliers have been invited.



Test center

Expected 2024/2025 (1st phase), after current Europe's Rail project



After successful tests of combined propulsion & levitation focusing on Cargo Booster delivery



Full-scale test track

H1/2023



First demonstration
Q4/2019



Medium-scale test track
Q1/2021

Go-to-market: targeting end users & industrial partners

Starting with Cargo Booster & subsequently moving towards passenger applications, Nevomo is commercializing MagRail using a staged approach

Activation

Workshops/pre-evaluations with end users to get their attention.

Target: Making MagRail known and considered for network upgrade/expansion plans



Evaluation

MoU or Cooperation Agreement: active involvement in product development via feasibility studies, use cases & specifications.

Target: Customize solutions to customer needs and reduce market failure risk.



Pre-commercial pilots

First revenues from pre-commercial pilots, to be turned into commercial operations for end users after homologation (safety approval).

Target: Reference projects for scale up phase.



Commercial

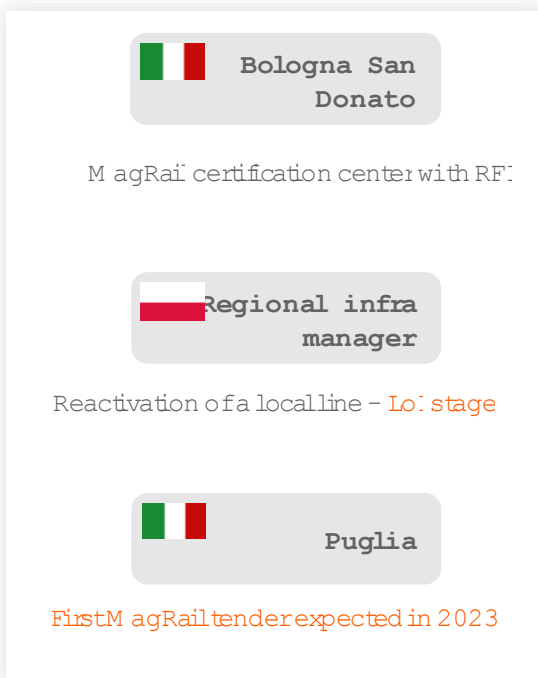
Broad commercial rollout after homologation.

Target: Dominating innovative railway freight solutions segment to prepare ground for broad network passenger deployment.

Industrial partners*

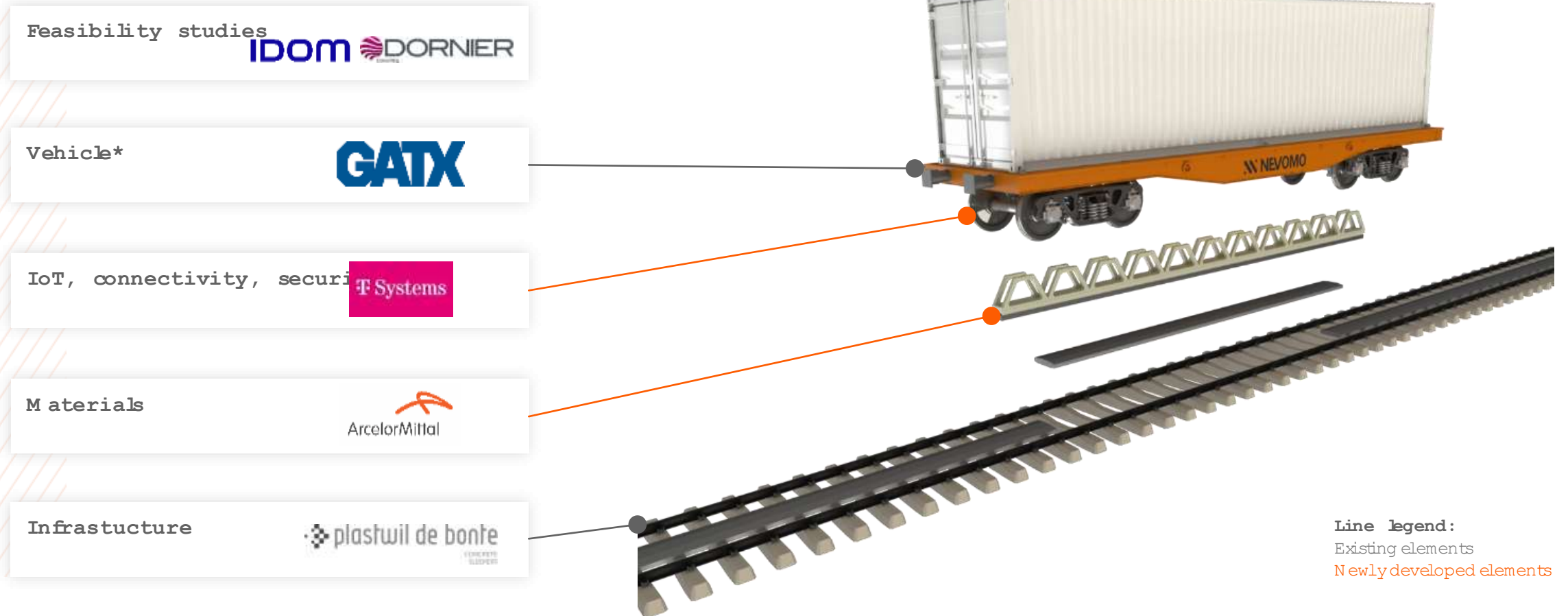
Component suppliers, co-integrators

Partners & potential acquirers



Creating a strong industrial partner ecosystem

Leveraging Nevomo's in-house capabilities with strong suppliers of other key components and services



Management team, founders & key advisors

Approx. 60 team members: experienced managers, renowned experts, researchers & engineers with background in railways, maglevs & banking



Przemek "Ben" PACZEK
CEO
& Co-Founder

15y in management, finance
& sales in banking & real estate



Stefan KIRCH
Chief Business Development Officer
& Co-Founder

Formerly **Deutsche Bahn**
15y in railway infrastructure management



Kacper KONIARSKI
Product Development
Director
& Co-Founder

4y in mechanical engineering
& R&D project management



Jan SZPETULSKI-LAZAROWICZ
COO/CFO

Formerly **Mazars, EY, PlayWay**
18y in management & Finance in consulting,
technology & gaming



Sebastian KALUZA
R&D Director

Formerly **Alstom**
10y in railway maintenance
& technology implementation



Johannes BRAUN
Senior Advisor

Formerly **Siemens, Alstom**
+30y in project management in railways
(incl. construction of **SHANGHAI TRANSRAPID
MAGLEV**)



Amos RON
Senior Advisor

Formerly President of the **Israel Ports
and Railway Authority**
+40y in infrastructure & energy



Vladas IASAS, Ph.D.
Senior Advisor & Investor

Co-founder of **Carbon War Room** (with Sir Richard
Branson)
Honouree of 2012 Oslo Business for Peace Award
+40y in logistics, cleantech & high-tech

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Disclaimer:

General

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