Welcome to the age of frictionless mobility



NV NEVOMO



Introduction & Company Purpose

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



- 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



NEVOMO | Into the future

MagRail Booster & MagRail explained

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



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

TCO*

- No locomotives needed easy adaptation to demand fluctuations
- High-speed passenger travel
 (550 kph) with levitation

Benefits:

Flexibility





Our technology is ready for piloting on real infrastructure

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





Europe's Ra

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



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

vation Evaluation			Pre-commercial pilots		Commercial	
>>	MoU or Cooperation Agreement: active involvement in product development via	>>>	First revenues from pre-commercial pilots, to be turned into commercial operations for end users after homologation (safety approval).	>>>	Broad commercial rollo	ut after homologation.
	Target: Customize solutions to customer needs and reduce market failure risk.		Target: Reference projects for scale up phase		Target : Dominating innovative railway freight solutions segment to prepare ground for broad network passenger deployment,.	
					Industrial Component suppli	partners* ers, co-integrators
		Boloana San		Partners & potential acquirers		
	SNCF UB NEIZE		Donato		GATX	
oBeamer® اد للقطارات			MagRail certification center with RFI		IDOM	ArcelorMittal
сппник			Bogional infra		ALST©M	SB
INFR	duisport 🗾 Min Steel		manager		() Škoda	SCHEIDT&BACHMANN
2	GATX		Reactivation of a local line – Lol stage		TRANSPORTATION	C 4F
باچون					SIEMENS	
AXO LLQQ			Puglia		STADLER	Talgo"
Jernbane	S ProRail renfe		First MagRail tender expected in 2023			НІТАСНІ
	الله ماديد solibarity tr hub Poland c Unite triHAD R c Unite inter inte	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.	<image/>	Image: Constant of the product development with the product development with the easibility studies, use cases & specifications. Target: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solutions to customer needs and reduce market failure risk. Image: Customize solu	Image: Product of the product development and the contract deve	Would out control in product development active finations. The revenue from precise for scale up plats, to be transfer homologation (safety approva)). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. To be transfer homologation (safety approva). Image: Ist revenues from precise for scale up plats. The scale up plate. The sca

Creating a strong industrial partner ecosystem

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



NEVOMO | Into the future

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 LASAS, 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

Contact details

Przemek "Ben" PACZEK

CEO & Co-Founder +41 76 635 16 31 +48 793 217 337 b.paczek@nevomo.com

Disclamer:

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