THE FUTURE OF MOBILITY

Sebastien Gendron – CEO & Co-Founder
TransPod Inc.

TRANSPOD

TRANSPOD

TransPod is the Canadian company developing the hyperloop technology, a new mode of electric-powered ground transportation capable of transporting both passengers and cargo inside low-pressure tubes, reaching speeds up to 1200 km/h.

VISION

"A world in which people, cities, and businesses are connected with affordable and sustainable ultra high-speed transportation"

MISSION

"Developing the next generation of affordable and sustainable ultra high-speed transportation for a better connected and fossil fuel-free society"

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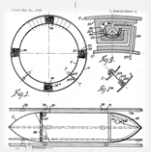
HISTORY OF TUBE TRANSPORTATION

Video Link

1910s – First Designs

Vacuum trains were first described by American rocket pioneer Robert Goddard



1997 – First proposals

Global transportation concept using passenger capsules in frictionless maglev full-vacuum tubes

2000s – SwissMetro

Swiss national transportation project using vactrain technology

2011 – Korean Research

2013 – Elon Musk

Entrepreneur Elon Musk re-introduces the hyperloop concept through release of alpha document

2013 – 1st startup

Hyperloop Transportation Technologies

2014 – 2nd startup

Hyperloop One

2015-2018 – TRANSPOD

Incorporated in October 2015
$20M CAD seed funding announced in November 2016
Operations expanded to Canada, Italy, and France in January 2017
Currently in industrial phase of full system development

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TECHNOLOGY

HOW DOES IT WORK?

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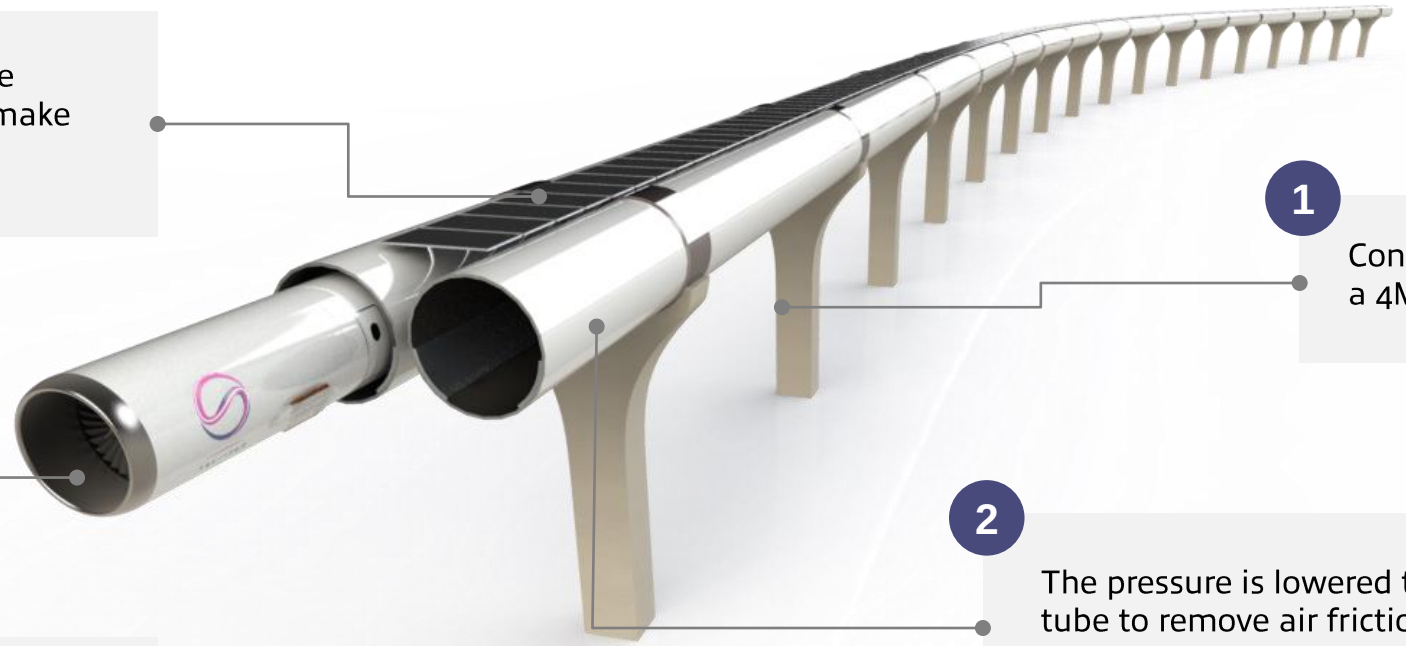
We are developing an integrated transportation system capable of transporting passengers and freight at speeds greater than 1000 km/h for a cost dramatically cheaper than air cargo and airplanes.



4

Solar panels installed on top of the infrastructure generate power to make the system self-sustainable

1

Concrete pillars are supporting a 4M diameter steel tube

2

The pressure is lowered to 100 PA inside the tube to remove air friction and achieve higher speeds

3

25 m-long levitating vehicles are circulating inside the tubes at 1000+ km/h,
Allowing to ship freight and people faster than airplanes

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HOW DOES IT WORK?

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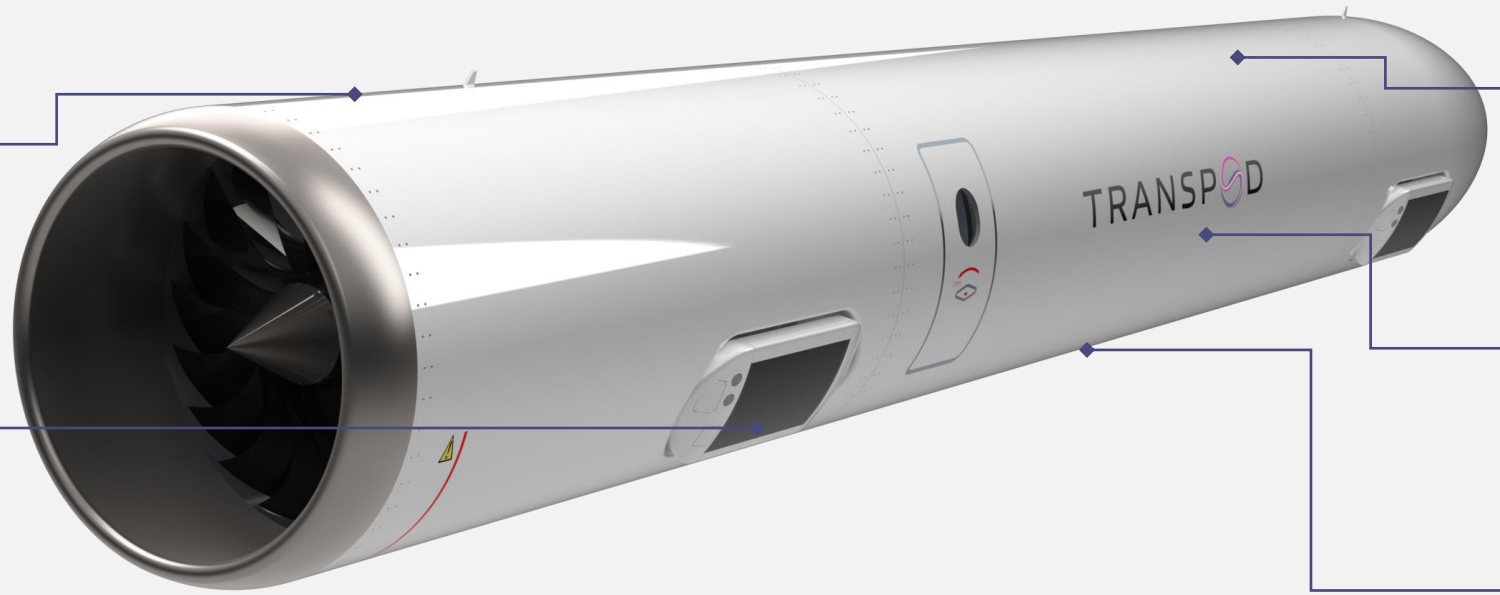
A self-driving pod vehicle is composed of many subsystems

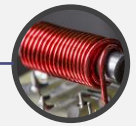
Aircraft-based fuselage



Pressurization and thermal management

Aircraft-based cabin air system

Linear magnetic propulsion drive



Active Levitation System

TransPod innovates in four key areas

Reduced tube infrastructure cost from innovative tube design

Advanced power-transmission system for high-speed

Aircraft-based control system

Artificial intelligence-based stability mechanism

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TARGETTING A FASTER PACED WORLD

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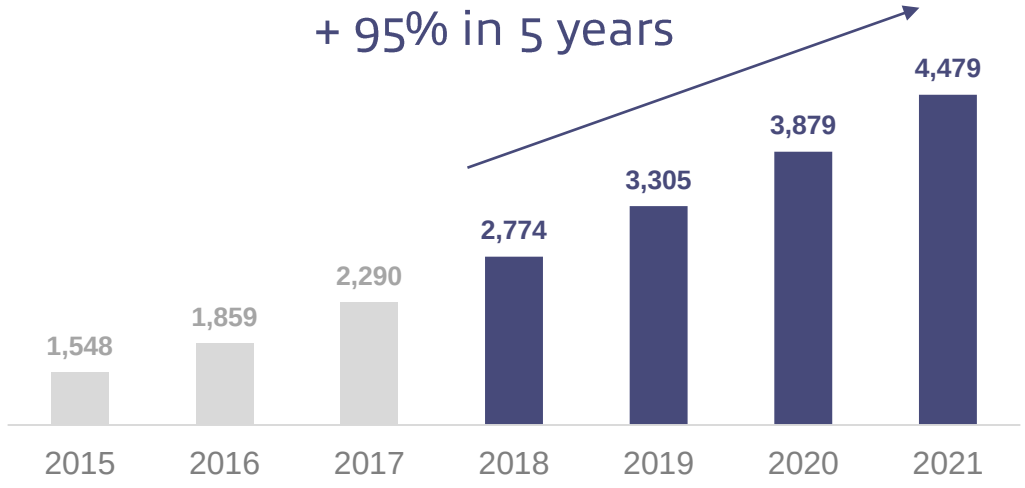
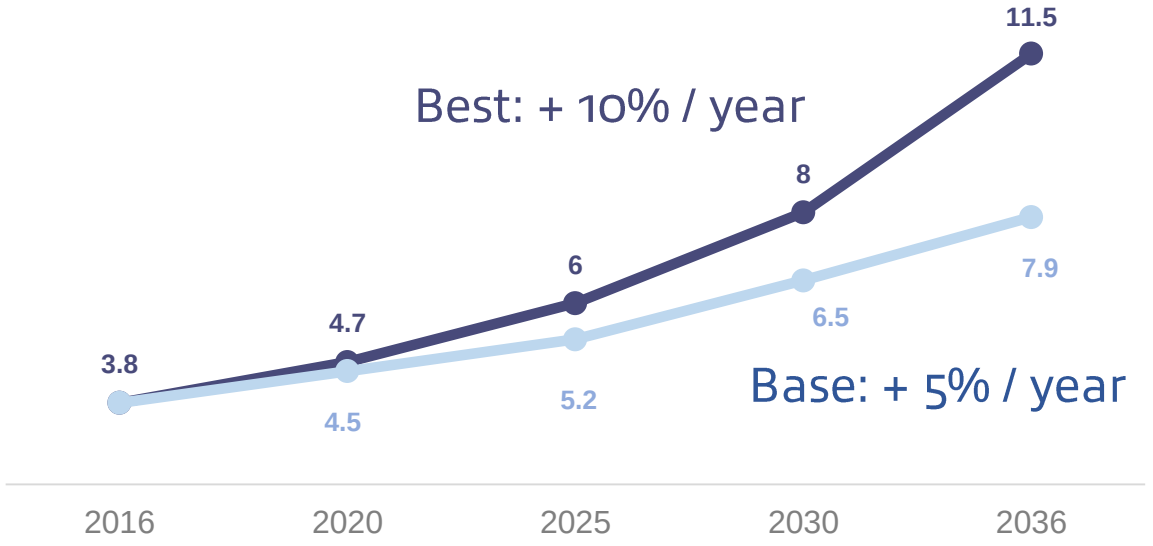
Global e-commerce growth (B. of USD)



Source: Statista

Global air passenger growth (B.)



Source: International Air Transport Association (IATA)

1. There is a global need for faster and greener freight transport, due to the growth of e-commerce worldwide.

2. People are increasingly looking to travel cheap and fast. However, accommodating new capacity is an issue.

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4 USE CASES FOR THE TECHNOLOGY

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Short distances < 100 km

Long distance > 100 km

PASSENGER

Rapid transit or airport connection

High frequency, high speeds

Ultra high speed regional transport

Mass transit between city centers

CARGO

High-speed urban cargo

Parcels, containers, waste

Ultra high speed regional cargo

Time-sensitive freight, perishable, high value

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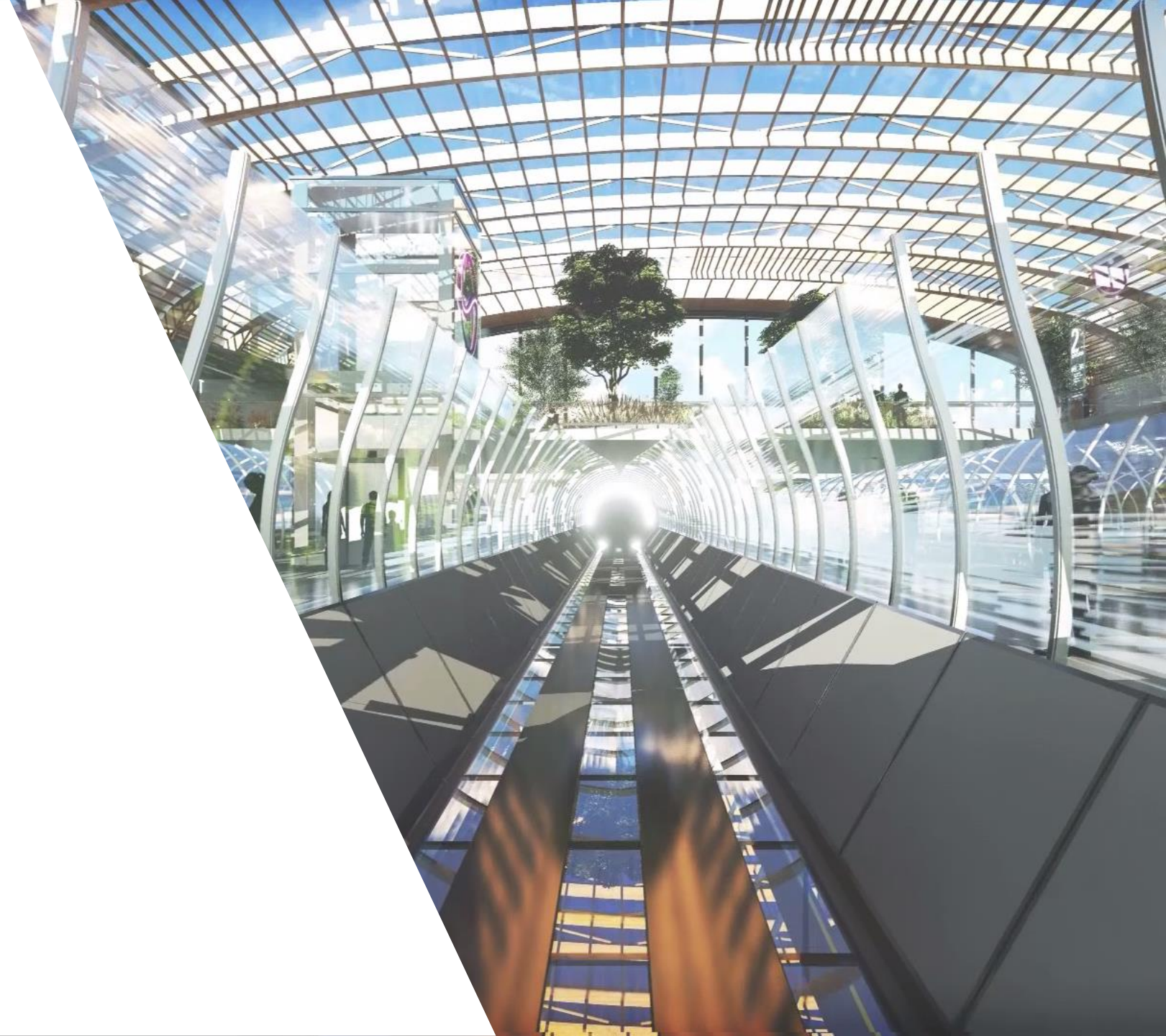
TRAVELING WITH TRANSPOD



ARRIVE AT THE TRANSPOD INTERMODAL STATION

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THE POD ARRIVES, THE DOOR OPENS, IT'S TIME TO BOARD

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GET TO YOUR SEAT AND RELAX, THE POD WILL LEAVE SHORTLY

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Pod

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POTENTIAL CORRIDORS: AUSTRALIA

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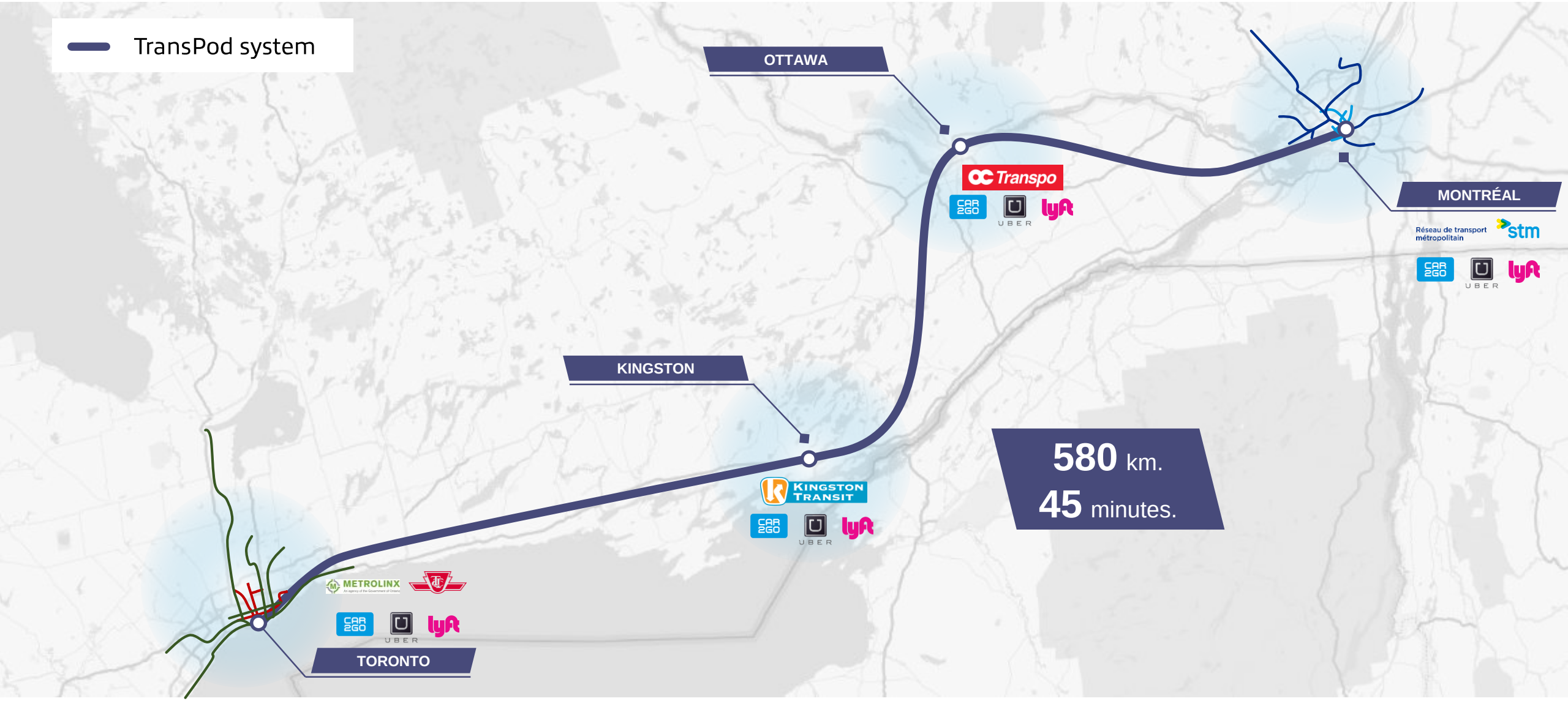

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POTENTIAL CORRIDORS: AUSTRALIA

Sustainable mass transit
CO2 emissions reduction and solar power generation

Substantial time savings
Speed + frequency → redefining distances

Decrease of accidents
Safe and reliable mass transit solution

Major economic stimulus
Virtual clustering between businesses increases productivity

Protection against weather effects
No disturbance due to obstacles or weather effects

Low maintenance and construction costs
Patented levitation & propulsion

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ENGINEERING DEVELOPMENT

R&D IN CANADA, FRANCE, AND ITALY

TRANSPOD IS ALSO WORKING WITH THE EU AND CANADA TO ESTABLISH A REGULATORY FRAMEWORK

TORONTO

System design @HQ

Half-scale test track

LIMOGES

BARI

R&D with our partners

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3 KM HALF-SCALE TEST TRACK IN FRANCE

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Side

Front

Aerial

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TRANSPOD ROADMAP

Video Link

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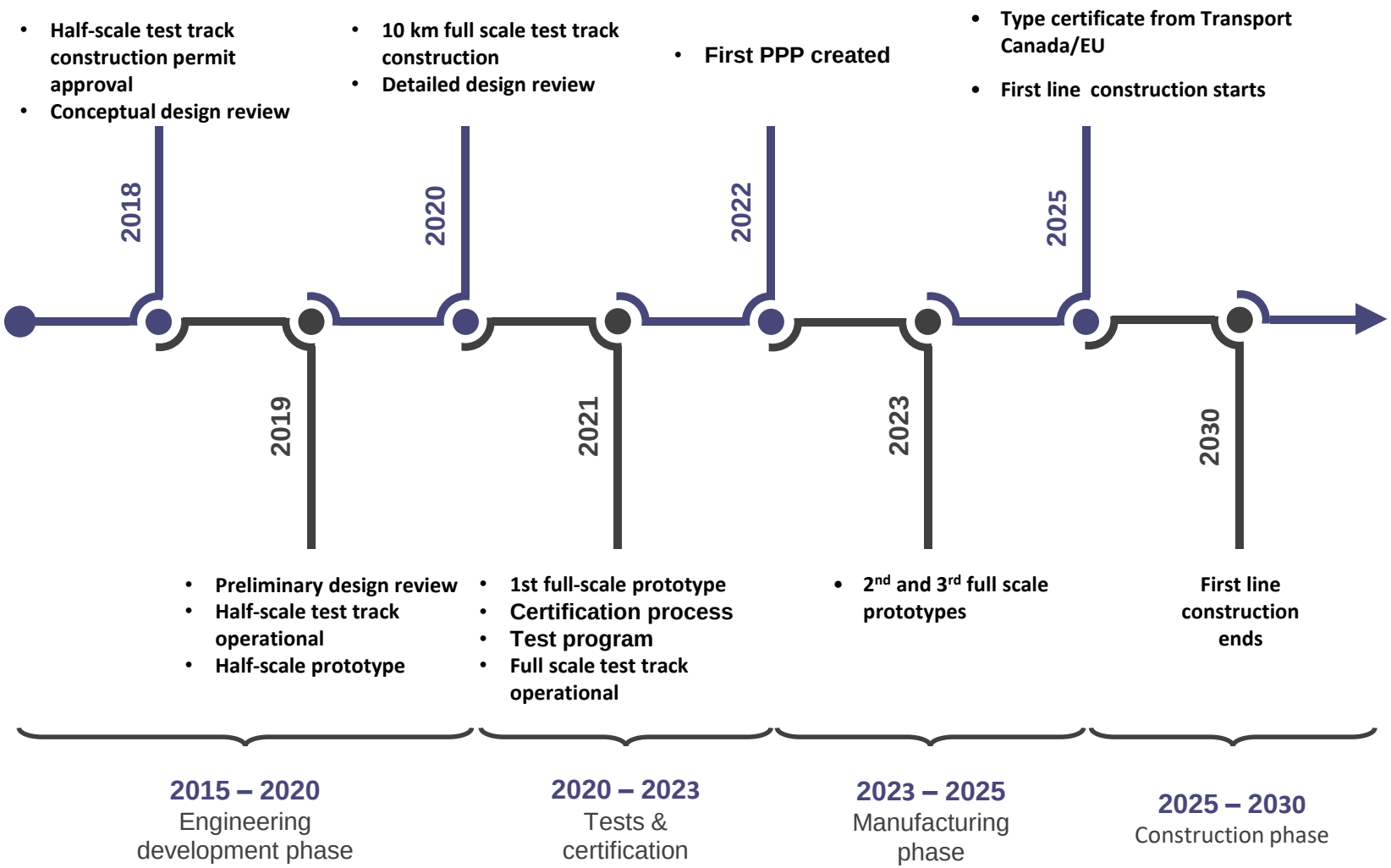

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