

THE POTENTIAL OF FREIGHT HYPERLOOP

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TransPod Inc.

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.

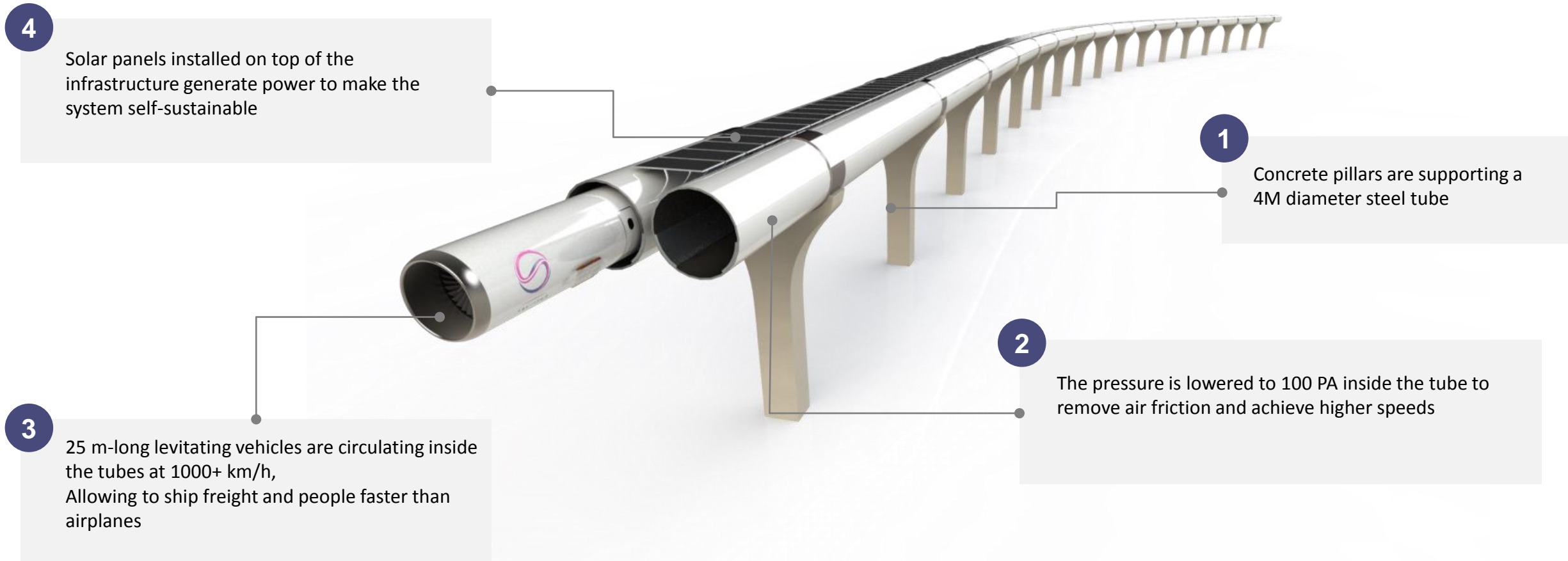
VISION

“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”

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.



PASSENGER



CARGO



Short distances < 100 km

Long distance > 100 km



Rapid transit or airport connection

High frequency, high speeds



Ultra high speed regional transport

Mass transit between city centers



High-speed urban cargo

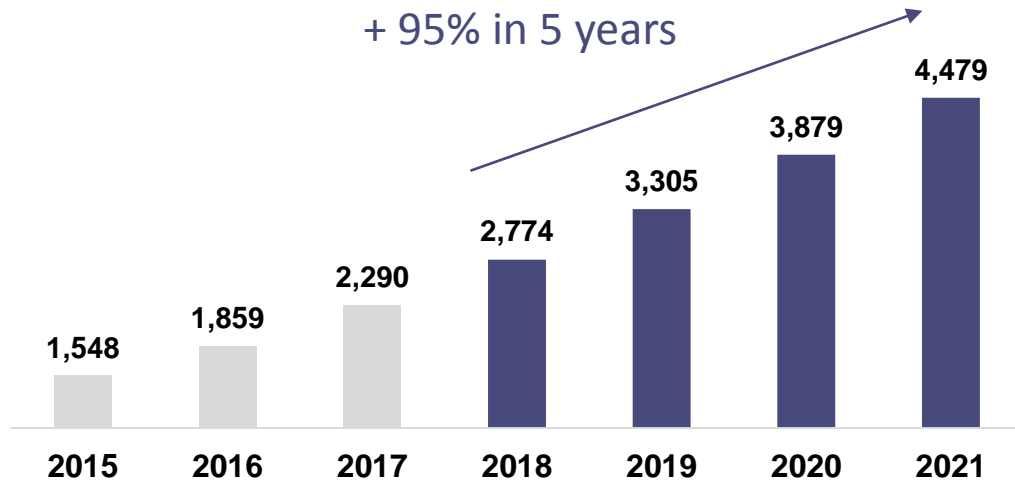
Parcels, containers, waste



Ultra high speed regional cargo

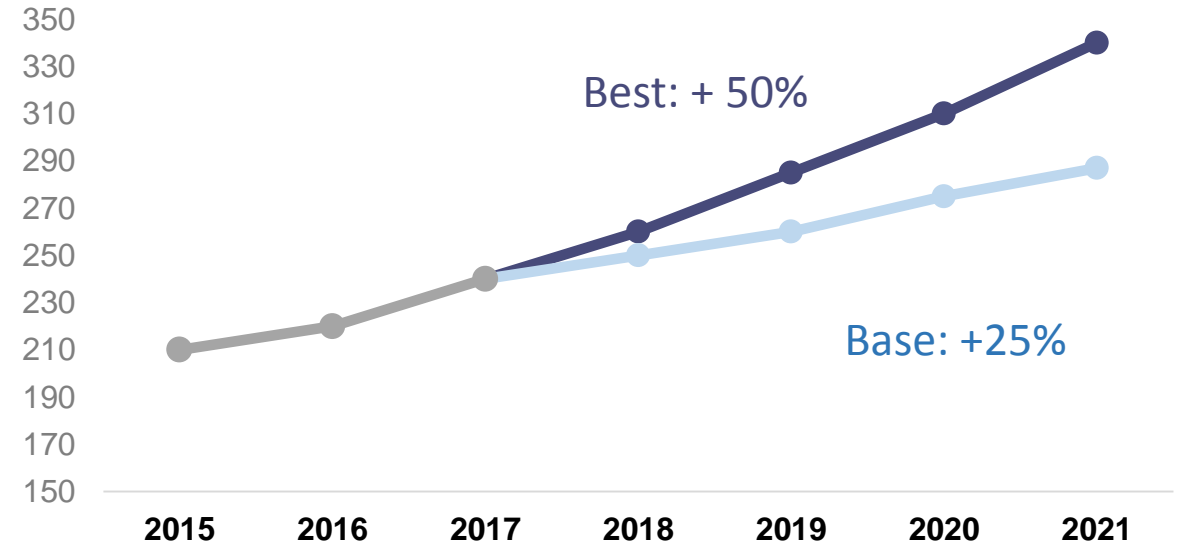
Time-sensitive freight, perishable, high value

Global e-commerce growth (B. of USD)



Source: Statista

Global Air Cargo forecast (B. of tonnes km)



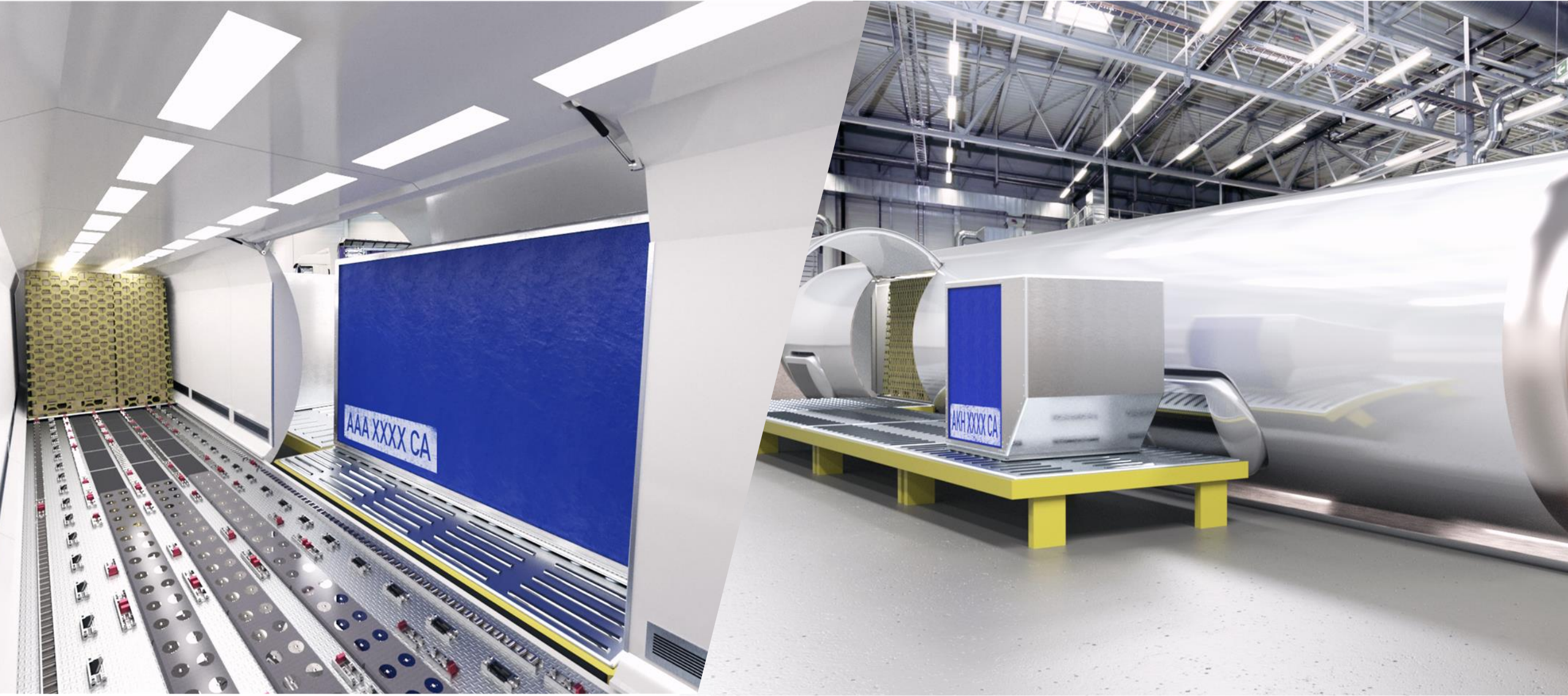
Source: IATA's World Cargo Symposium

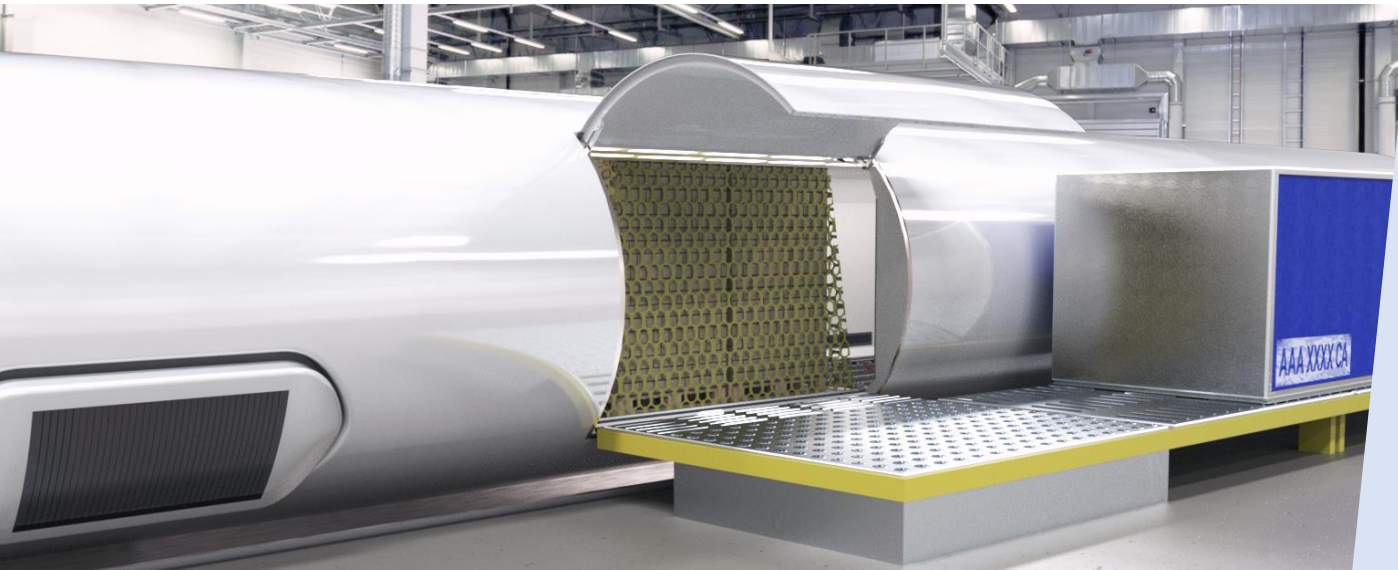
1

Infrastructure is severely underprepared, and that mustering up the political will to push through infrastructure improvements is critical.

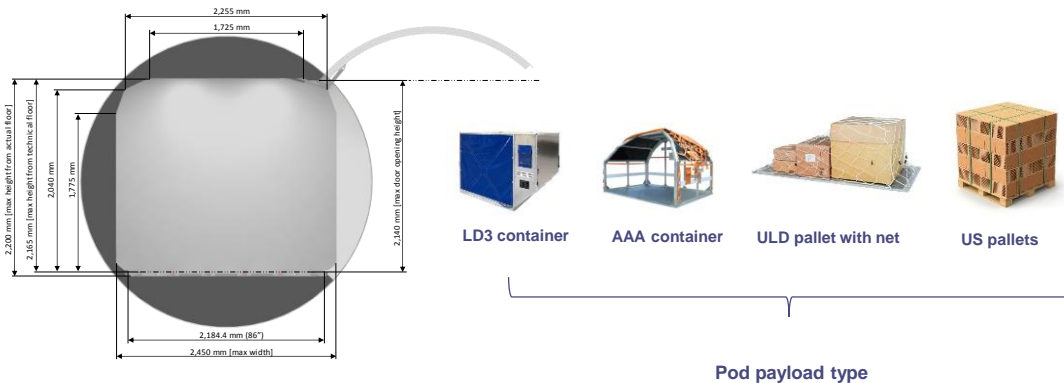
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There is a global need for faster and greener freight transport, largely due to the growth of e-commerce worldwide.





Cargo vault cross section and associated payload

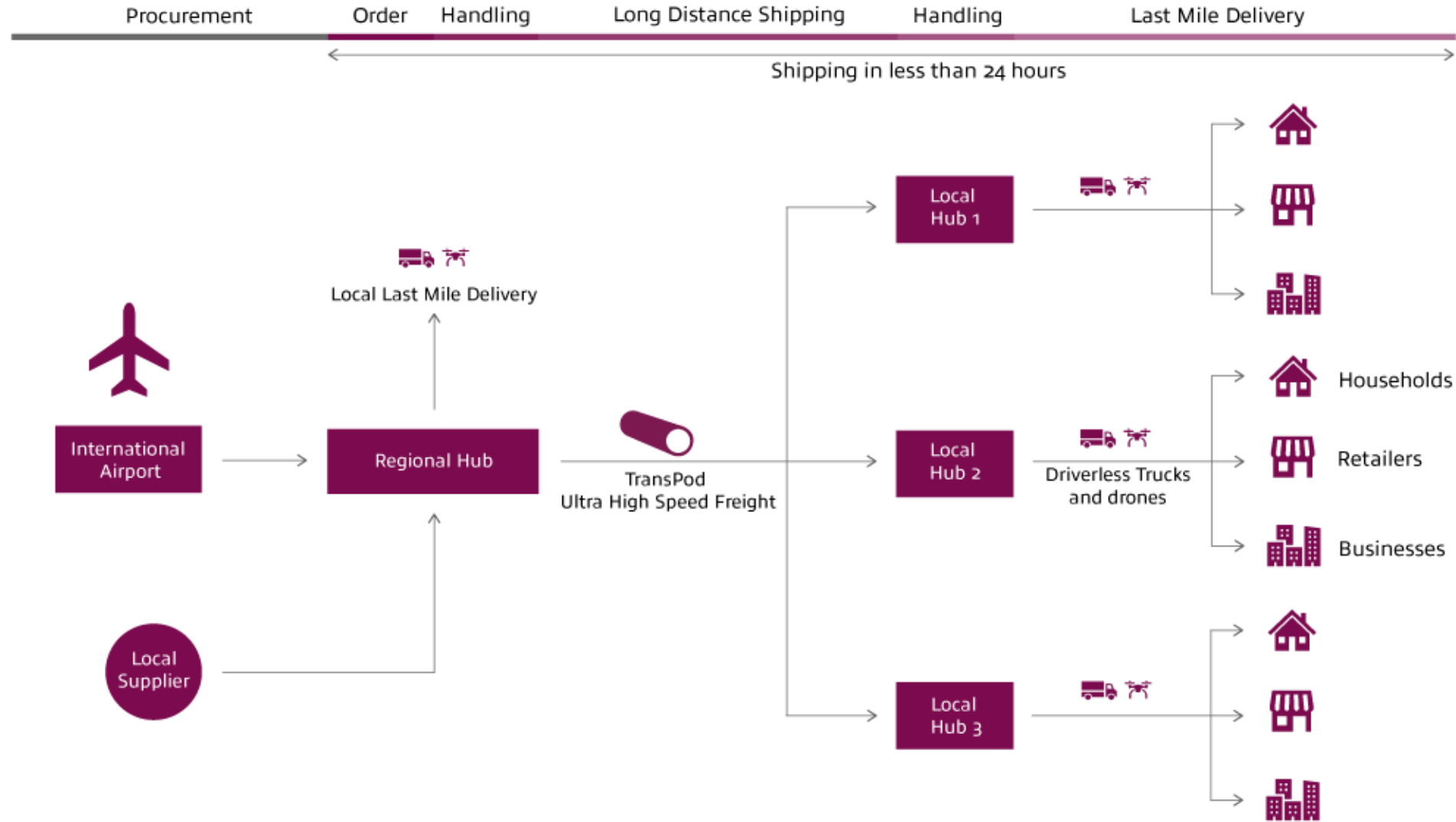


Why?

- 1 Freight volumes are increasing at a fast pace
- 2 Increasing number of time-sensitive freight volumes
- 3 A greater capacity will be needed

Value proposition

- 1 Allows to ship high-speed cargo without carbon emissions
- 2 Guarantees shipping costs between air cargo and truck
- 3 Enhances supply chains' efficiency and reduces cost



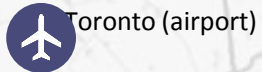
TORONTO TO MONTREAL

542 km in 60 minutes*

36 M tonnes of road freight / year

11 M tonnes of time-sensitive freight / year

10,000 trucks per day



Toronto (downtown)

Kingston

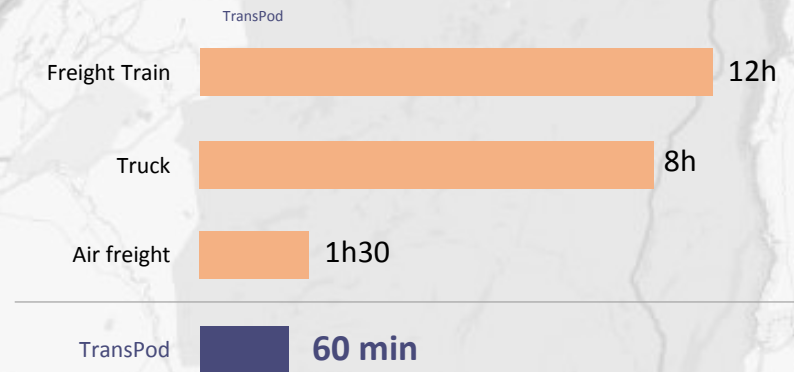
Ottawa

Montreal (downtown)



Montreal (airport)

FASTER THAN ANY
MODE OF TRANSPORT



* Figures are including loading times

Case Study 1:
Global air freight company

LDH is facing a growing demand, putting strain on its fleet and distribution centers. The company's profit margin is heavily dependent on fuel costs.

LDH would benefit from hyperloop by:



- Reducing the number of airplanes to Montreal
- Shipping everything via Hyperloop faster
- Reducing transport costs compared to air freight



- Closing smaller distribution centers
- Doubling the capacity of the current distribution facility
- Decreasing inventory costs by 25-30%

Case Study 2:
Global delivery specialist

SPU is rapidly expanding its fleet and opening new distribution centers to solve capacity problems due to increasing demand.

SPU would benefit from hyperloop by:



- Increasing cut-off times (shipping deadlines) from 6pm to 10pm due to reduced transport time
- Increasing warehouse capacity, granting economies of scale



- Shipping more time-sensitive freight by hyperloop
- Avoiding congestion and weather-induced delays
- Automating last-mile and decrease costs

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



TORONTO

System design @HQ



Half-scale test track



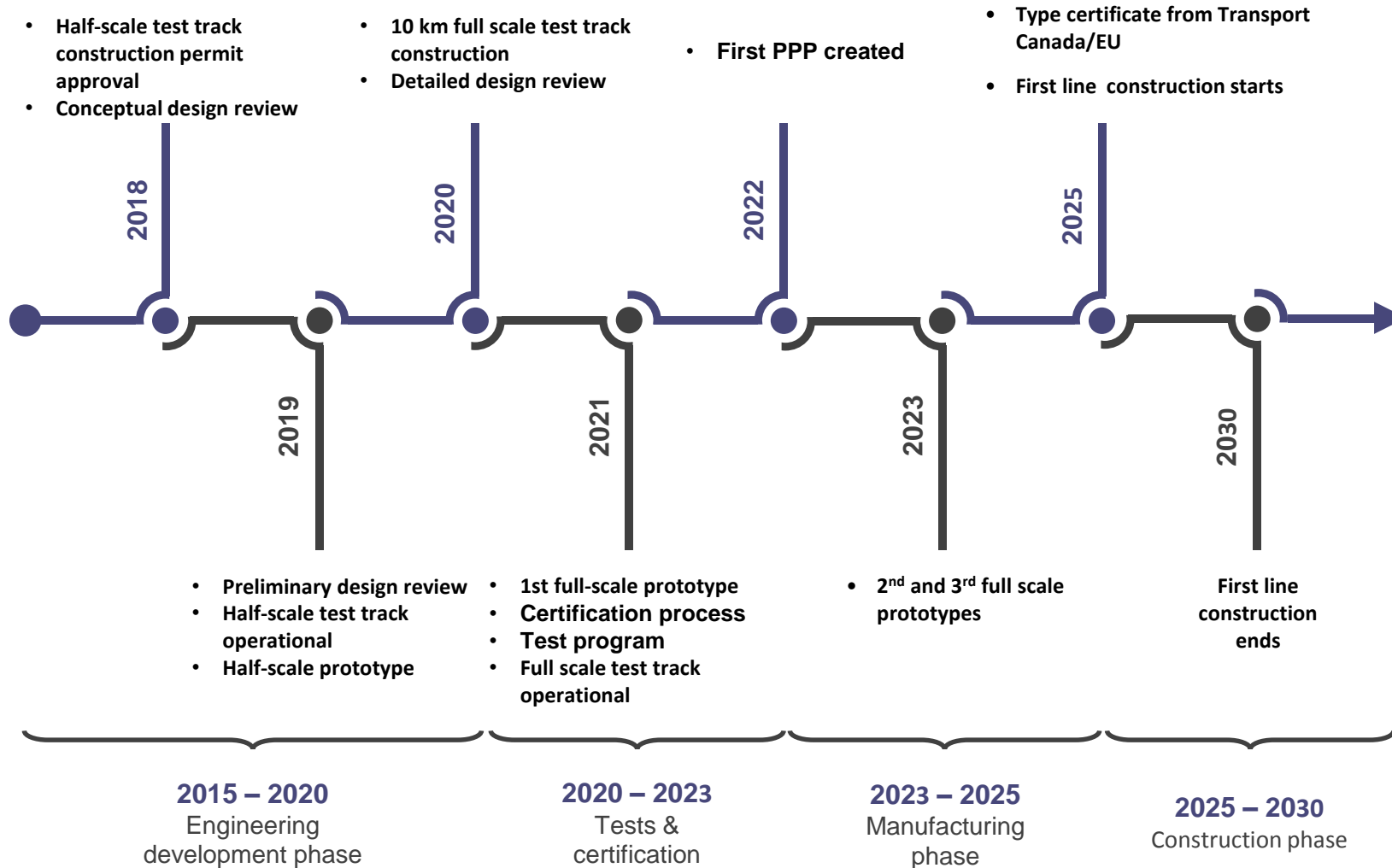
LIMOGES



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