

TRANSPOD



About TransPod



Sebastien Gendron,
Founder and CEO



Ryan Janzen,
Co-founder and CTO

Overview: Founded in 2015, TransPod is the Canadian-based startup that is building the world's leading hyperloop system to disrupt and redefine commercial transportation. We're re-imagining the way we live and work, and we're bringing the hyperloop to life to virtually shrink distances and connect people, cities, and businesses.

Global expertise: We have offices in Canada, France, and Italy, and work with a global partner network of leaders and experts from the railway, aeronautics, space, and infrastructure industries. Together, we're developing this technology from the ground up, to produce a commercially viable product by 2020.

Key differentiators: TransPod takes a physics-first and engineering-first approach to our design. We're not using pre-existing concepts of hyperloop, and we're not crowdsourcing or harvesting ideas and trying to make them fit with each other. We're developing every aspect of the hyperloop system, from design to systems engineering, from the ground up, all in-house and with our partners. Everything is designed to work together seamlessly. Our focus is on our design and technological breakthroughs.

Our partners:



Global offices



Toronto, Canada

TransPod Inc
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Mola di Barri BA



Toulouse, France

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Company Structure



Funding: In November 2016, we announced the closing of a seed round for \$15 million USD from Angelo Investments. We're continuing to invest in research, product development, and global growth. We've secured IP patents for our innovative designs, and are expanding our growing network of global industry partners. Over the next few years, we'll continue working with governments, partners, and investors to bring hyperloop to life.

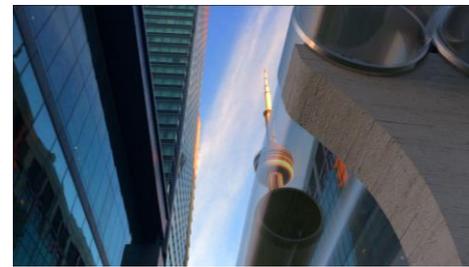


Technologies: In addition to developing new technologies, we're utilizing concepts and designs from the aerospace industry. Many subsystems, such as the vehicle structure, control systems, and vehicle dynamics, are very similar to what we can find on an aircraft. Railway technologies are also being adapted, including communication, signaling, and energy management. Much of the work we're doing integrates these existing technologies with our own proprietary designs to create this new high-speed transportation system.



Employees: TransPod is made up of diverse, passionate, and talented top performers from around the world. Ours is a positive, values-driven workplace where everyone is excited about bringing hyperloop to the world and improving the way we live, work, and play. Together, we uphold our core company values of Transparency, Integrity, Perseverance, and Excellence. We currently have 20 employees, and plan to grow to 40 by the end of 2017.

TRANSPØD



About TransPod Hyperloop

What is hyperloop?

Hyperloop is the 5th mode of transportation after ships, trains, automobiles, and planes. It will enable us to travel and ship products faster and at affordable rates, without vulnerability to weather conditions, using environmentally responsible technology. But this is about more than just transportation.

Where does it play a role?

Right now, we're faced with over-populated urban centres with unaffordable housing, inefficient business processes with millions of dollars in unrealized revenue, and environmental concerns caused by most of our worldwide energy supply coming from non-renewables. With hyperloop, we have the opportunity to change all of that.

What will TransPod bring?

TransPod's hyperloop will offer a viable and environmentally friendly solution with affordable high-speed transportation. It will facilitate the exchange of ideas, commerce, and resources. The future of hyperloop will be its ability to virtually shrink distances and create a much more interconnected economy and true global community.



Benefits of Hyperloop

Speed

TransPod's hyperloop system is capable of travelling at an average speed of 962 km/h, with a max speed of 1,200 km/h. Comparatively, air transport moves at 600-900 km/h, and high-speed rail travels at 150-3350 km/h. To put this into perspective, the distance between Toronto and Montreal in Canada is approximately 550 km, and requires up to six hours for travel by car or 1.5 hours by plane. With TransPod's hyperloop, passengers and cargo would arrive within 45 minutes.

Capacity

At TransPod, we want to make sure the capacity of the hyperloop system we're designing is aligned with existing demand from transportation corridors. For example, the pod we're designing for the Toronto to Montreal corridor has a capacity between 20 to 40 passengers, for an initial volume of 12 million passengers per year. On the freight side, we're targeting 10 tonnes per pod. For other corridors, we have the flexibility to increase or reduce capacity by changing the size of the pod and/or adding tubes.

Cost of use

Hyperloop cost will depend on the route, but the goal is to ensure it will be inclusively accessible by all users. Our current projections are priced at a lower rate than air travel and freight, while offering faster delivery times and less environmental harm.

Infrastructure costs

Dependent upon the route, TransPod's hyperloop system will be less expensive than or on par with the cost of a high-speed rail. For example, in Canada, we are in the same range as the cost of high-speed rail: between \$15m to \$20m per km.

Fuel consumption and emissions

TransPod's design is powered by renewable energies including self-sustaining solar power, and eliminates the dependency on fuel.

Weather factors

Hyperloop pods travel in protected tube environments and are therefore unaffected by weather conditions such as rain, snow, fog, etc

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