

Chuck Michael, PE Regulatory Advisor & US Feasibility Studies Lead **Hyperloop TT**









OCTOBER 23, 2020

Hyperloop Transportation Technologies

Technology Takes the Wheel University of Toledo

HYPERLOOP



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Transport Evolution. Transport Revolution.



Chuck Michael, P.E.

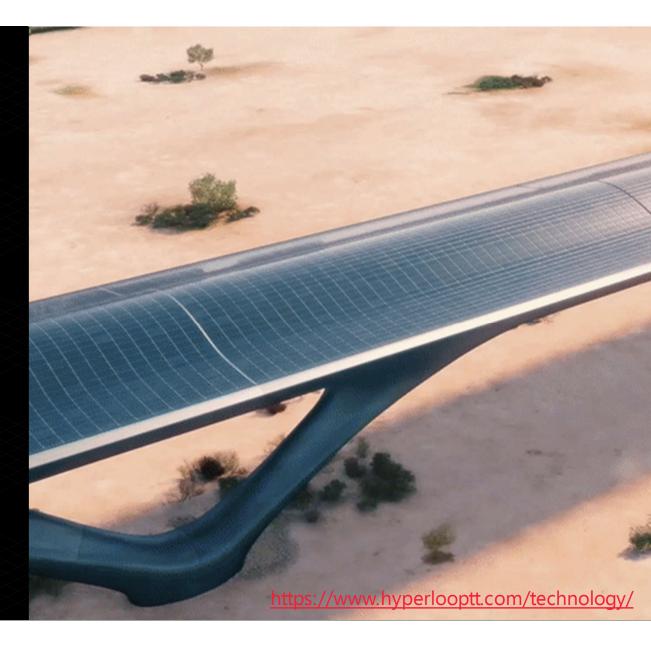
Regulatory Advisor & US Feasibility Studies Lead Hyperloop Transportation Technologies

What defines the next era of human mobility?



HIGH-SPEED EFFICIENT SAFE SUSTAINABLE FRICTIONLESS PROFITABLE TRANSPORTATION

Fully sustainable transportation system





breakthrough in a centur



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SUSTAINABILITY

- \rightarrow Energy efficient
- \rightarrow Carbon-free operations

FECHNOLOGY

- \rightarrow Safe by design
- \rightarrow High-speed travel

EXPERIENCE

- → Fully connected
- → Frictionless ecosystem

ECONOMICS

- \rightarrow Subsidy free
- Increased GDP

How it works

Levitated capsule reduces friction, increases efficiency

Electromagnetic propulsion enables emission-free transport

> Fully enclosed environment protects from weather and traffic crossing

Alternative energy and system automation minimizes operational costs

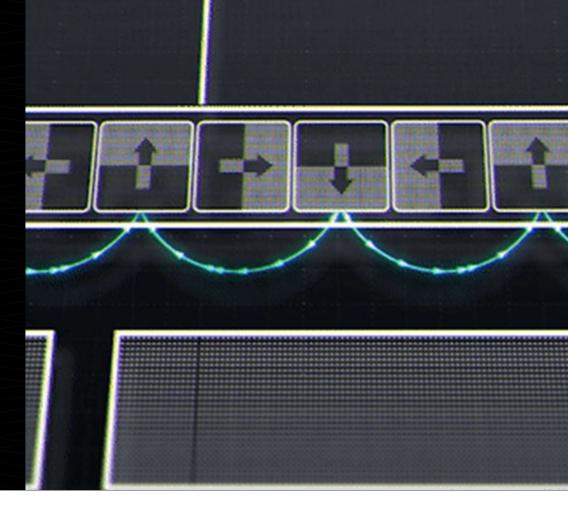
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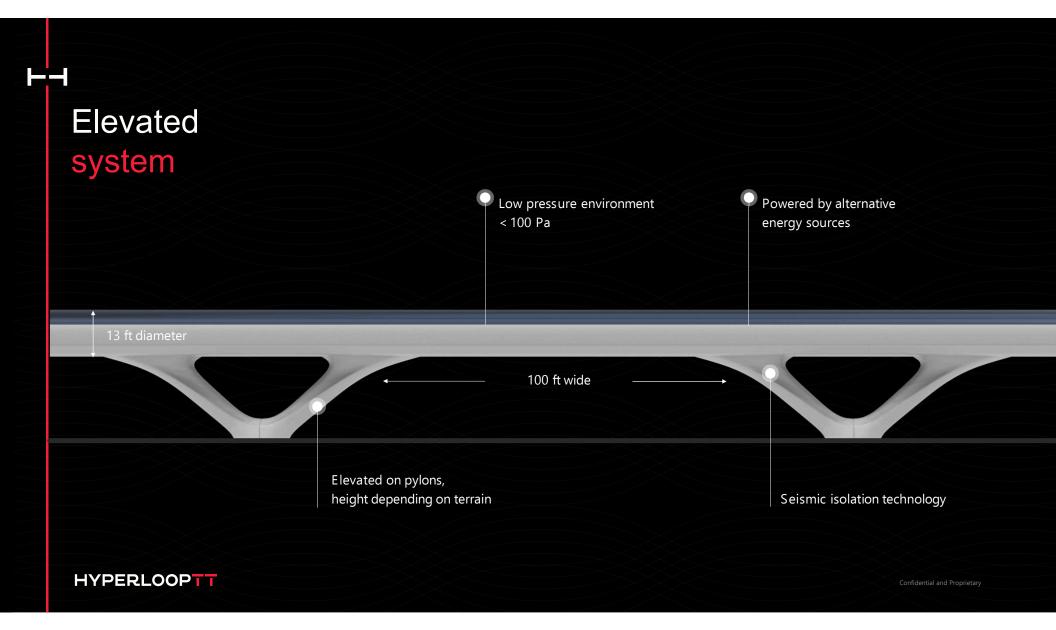


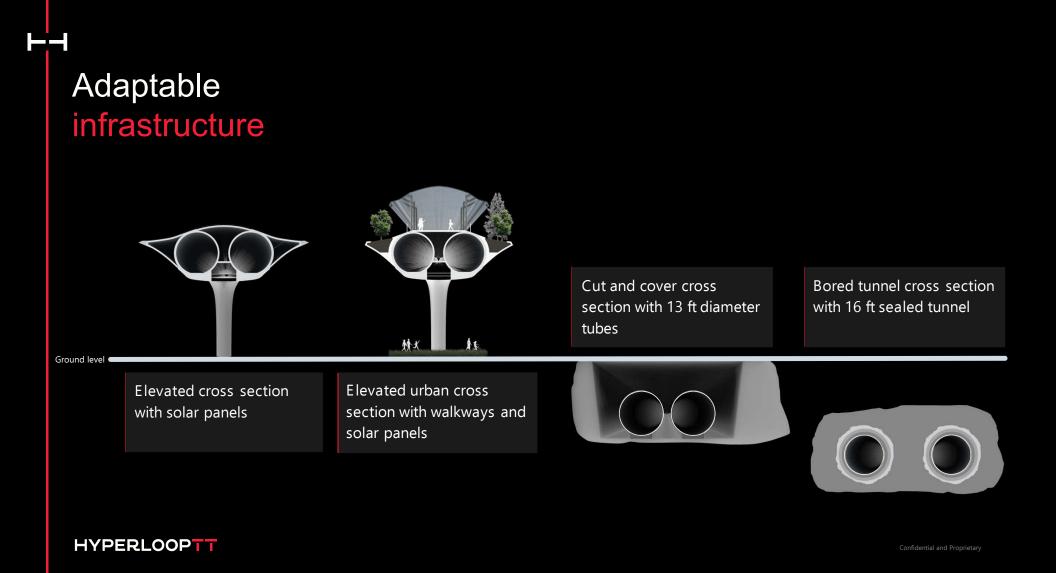
Passive magnetic levitation

ELEVATING TRANSPORT

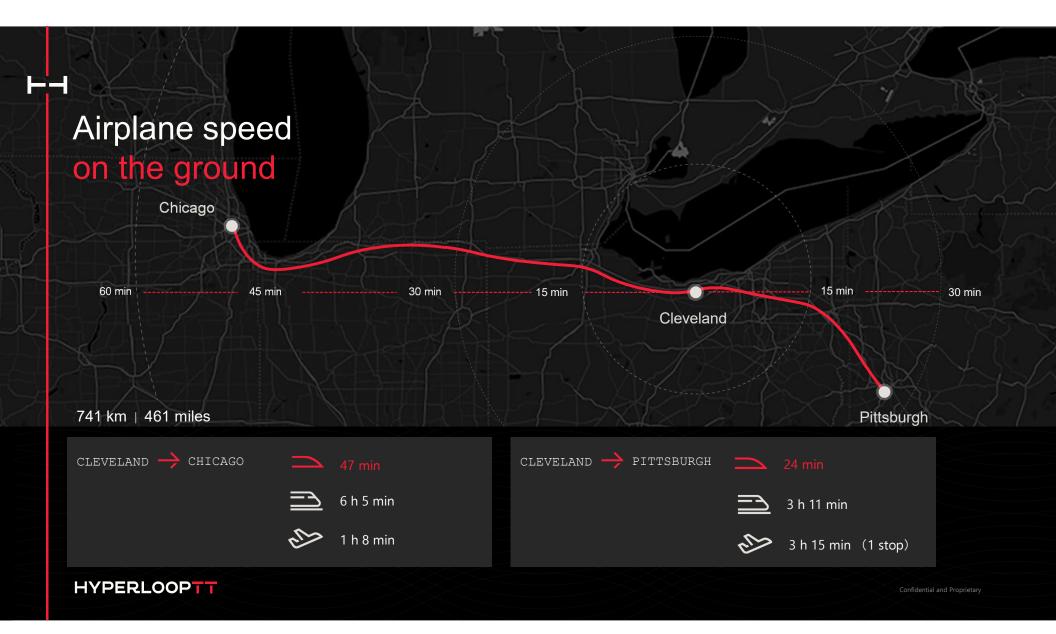
- \rightarrow Proprietary InductrackTM passive magnetic levitation
- → Capsules levitate over an unpowered, conductive track
- Energy-efficient solution tested and validated on a fullscale passive levitation track

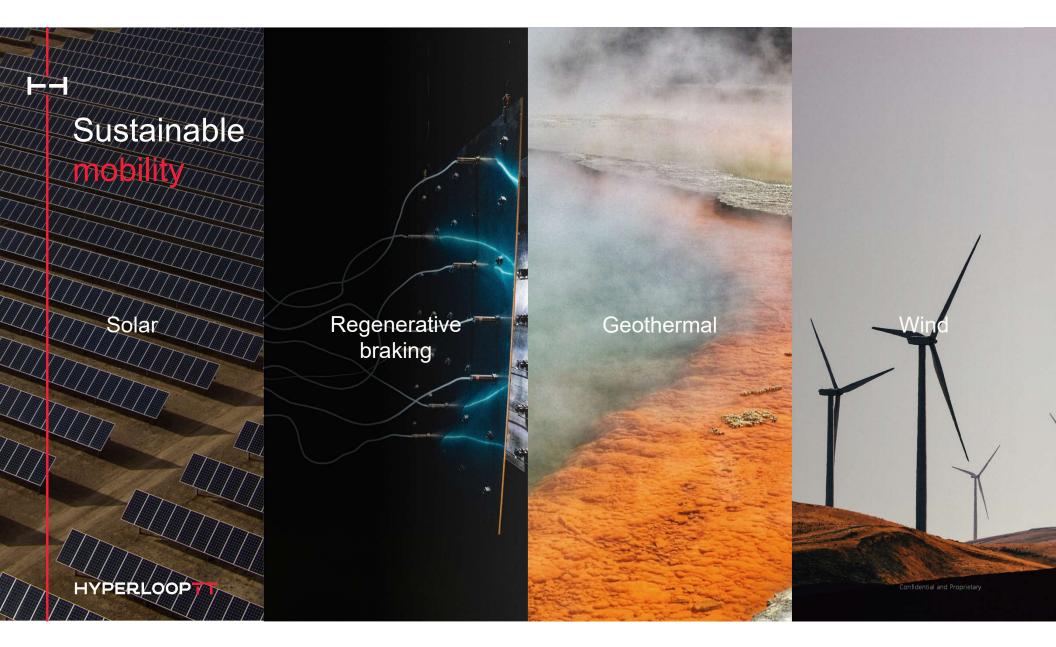




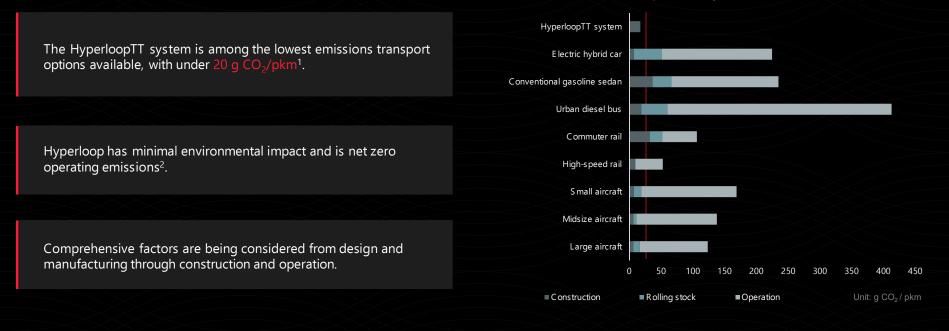








Low environmental impact Net zero carbon operations



Carbon emission comparison³ | Multi modes of transport

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³ https://iopscience.iop.org/article/10.1088/1748-9326/7/3/034012 and http://www.transportationlca.org/tlcadb-passenger.php

Best safety standards and new technologies

First company able to offer an insurable and viable regulatory solution for a commercial system.

Leverage latest technologies and innovations

Sensors, magnetics, green technologies, biometrics, etc.

Enclosed environment

Smart sensors in capsules and tubes

03 Immune to weather conditions

No grade crossings with traffic

06 Quiet and clean electric propulsion

Passive magnetic

levitation

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Develop new materials

Vibranium™ capsule shield

The journey begins with the health of all passengers

Biometric sensors | Realtime monitoring

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Contactless travel | Automated ticketing & security



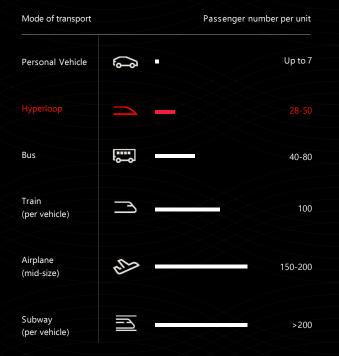
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Rapid disinfecting cleaning | UV-C tech

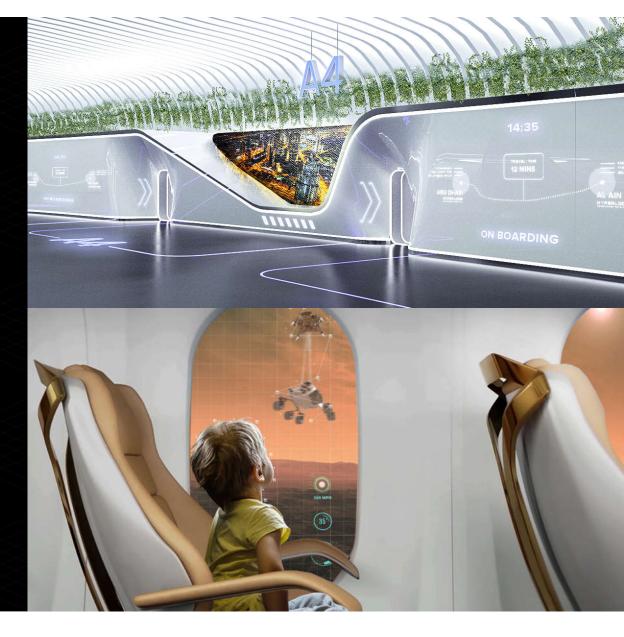


Minimal passenger to passenger contact

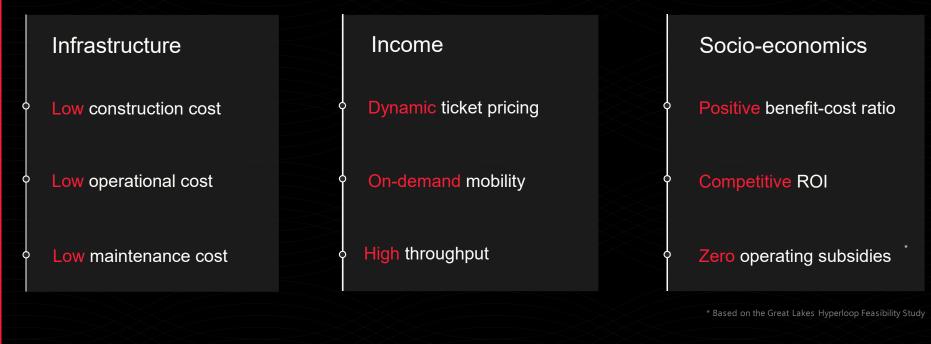


Reimagined passenger experience

- \rightarrow Human-centric design
- → Immersive environment
- ightarrow Access to personalized experiences



Profitability from infrastructure, to operation, to economic impact



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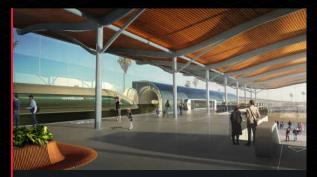
Development projects



R&D Center Toulouse, France

- → Testing & certification
- \rightarrow Ongoing integration and optimization
- \rightarrow Co-developed certification guidelines

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Commercial Prototype Abu Dhabi, UAE

- ightarrow Located close to Expo and airport
- \rightarrow Concept design completed
- \rightarrow 3-5 km passenger hyperloop



Cargo Prototype Port of Hamburg, Germany

- → Joint Venture with HHLA
- \rightarrow Integrating with port automation
- \rightarrow Sustainable plug-and-play solution

Passenger-ready timeline









 320 m full-scale infrastructure
 320 m full-scale integration
 3-5 km commercial prototype
 Commercial line

 2019
 2020
 2021
 2024

 TESTING
 IMPLEMENTATION
 PASSENGER READY

 CERTIFICATION
 CERTIFICATION
 CERTIFICATION

Continued testing for incremental technology development and certification with strategic partners

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Industry advancements





Certification guidelines

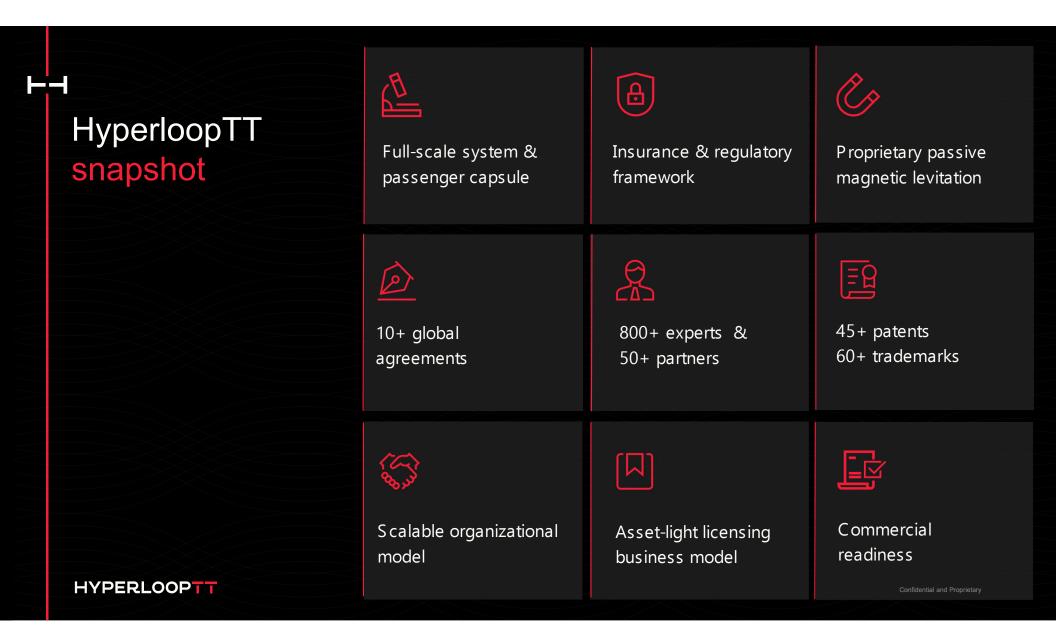


Pathways to the Future of Transportation A Non-Traditional and Emerging Transportation Technology (NETT) Council Guidance Decomment



Government guidance

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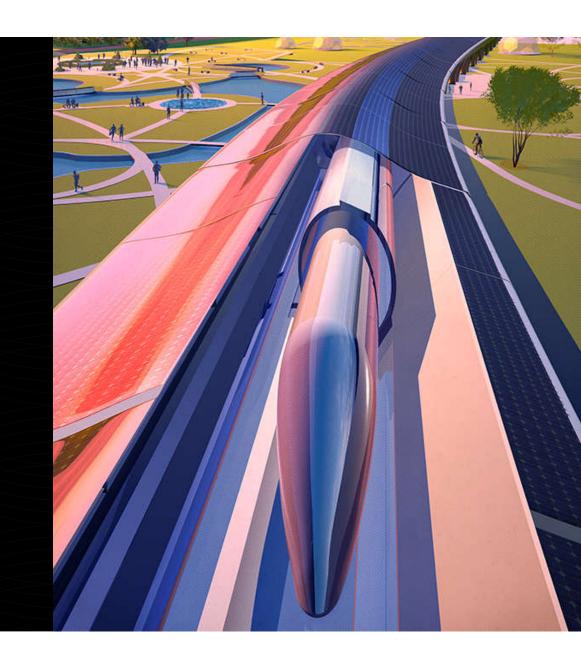


The future is now boarding

Chuck Michael, P.E.

chuck.michael@hyperloop.global

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