



Levitated capsule reduces friction, increases efficiency Fully enclosed environment protects from weather and traffic crossing

Alternative energy and system automation minimizes operational costs

EFFICIENT 1

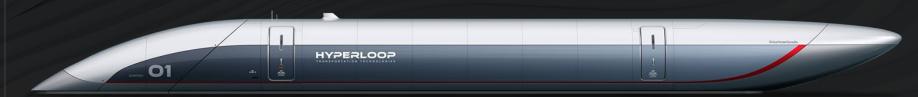












Passive Magnetic Levitation

Electromagnetic Propulsion



760

mph Levitation at 80 mph



28-50

Passenger capacity



160,000+

Passengers daily

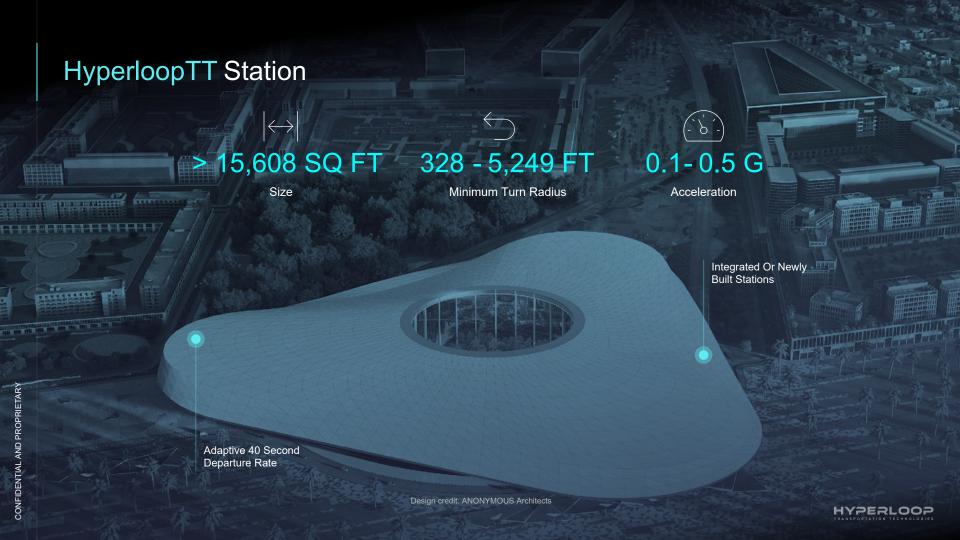


4,000+

Cargo shipments daily

HYPERLOOP









Full-scale Test Track



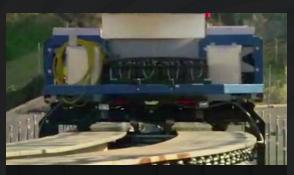
Vacuum by Leybold

Abstract:

Hyperloop Transportation Technologies Risk Report

Expanding together the boundaries of transportation and insurability

Insurance by Munich Re



Inductrack™ by LLNL



Generic guideline

for design, operation

and certification

HYPERLOOP APPLICATION

· Risk Management

· System Safety Requirements

· Design Principles for Safety-related Parts

Load Assumptions

Acceleration Table for all Modes of Operation

· Independent Safety Assessment

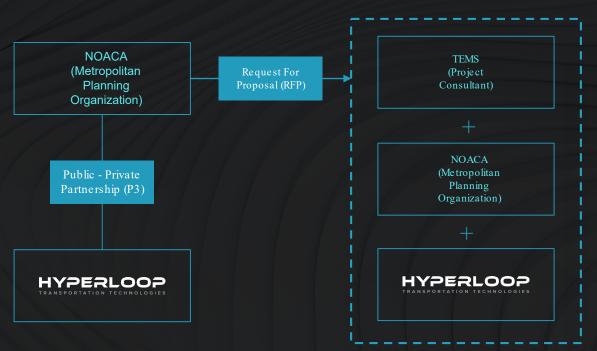
Certification by TÜV SÜD





Public-Private Partnership

Structure



Feasibility Study Team

Feasibility Study Outcomes

- Identifying objectives
- Site reconnaissance and route analysis
- Technical and financial feasibility
- Development costs
- Project schedule
- Implementation strategies

Great Lakes Hyperloop Consortium

Regional Partners

Regional Stakeholders

Technical Advisory Committee Members

Utilizing local expertise and resources to bring hyperloop to the Great Lakes Megaregion































































































OFHWA











Regional Partners

Regional Stakeholders

Technical Advisory Committee Members

Utilizing local expertise and resources to bring hyperloop to the Great Lakes Megaregion

Pittsburgh Technical Advisor Committee

























Chicago Technical Advisory Committee



















Illinois Tollway



<u>Metra</u>





















Cleveland Technical Advisorv Committee

























"New technologies increasingly straddle more than one mode of transportation, so I've signed an order creating a new internal department council to better coordinate the review of innovation that have multimodal applications."

> Secretary Elaine Chao 2019 SXSW in Austin, Texas

USDOT NETT Council

Non-Traditional and Emerging Transportation Technology Council





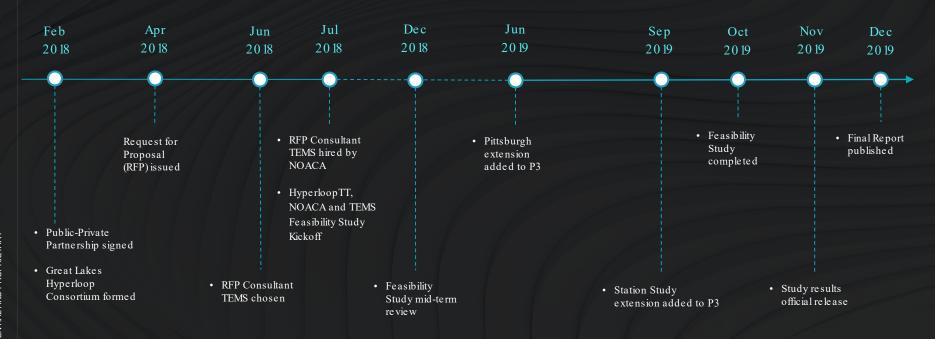


SAFETY OVERSIGHT ENVIRONMENTAL REVIEW

FUNDING ISSUES

- ☐ FAA | Federal Aviation Administration
- ☐ FHWA| Federal Highway Administration
- ☐ FRA| Federal Railroad Administration
- ☐ FTA | Federal Transit Administration
- ☐ FMCSA| Federal Motor Carrier Safety Administration
- MARAD | Maritime Administration
- □ NHTSA | National Highway Traffic Safety Administration
- ☐ PHMSA| Pipeline and Hazardous Materials Safety Administration

Great Lakes Hyperloop | Phase 1 Feasibility Study Time line



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Great Lakes Hyperloop | Phase 1 Feasibility Study Task Summary

- ✓ Route Study Between Chicago and Pittsburgh | Complete
- ✓ Ridership and Revenue | Complete for both Passenger and Freight
- ✓ Independent Capital Cost Estimate | Complete
- ✓ Operating Cost Estimate | Complete
- Revenue Projections and Forecasts | Complete
- ✓ Cost-Benefit Analysis | Complete
- ✓ Supply-Side Economic Analysis | Complete
- ✓ Transportation Oriented Development (TOD) Estimate | Complete

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Chicago - Cleveland - Pittsburgh Corridor Capital Costs Assumptions

Cost Components

- Infrastructure
- Systems
- Vehicles + Station
- Right of Way / Easement

Assumptions

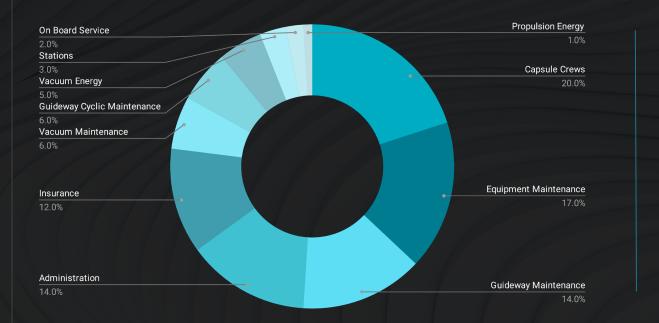
- 30% "Contingency" on Everything
- Plus 28% "Soft Cost" on Infrastructure + Stations
- All Unit Costs are expressed as "Fully Loaded" costs for simplicity
- Inclusive of Easement and Right of Way costs

Source: TEMS

Capital cost estimates were independently validated by third parties.



Chicago - Cleveland - Pittsburgh Corridor Hyperloop Passenger | Operating Cost



No overnight trips. Assumes one crew per capsule until passengers are familiar with system. Also includes additional station crew until passengers are familiar with stations.

Source: TEMS



The Great Lakes Hyperloop Feasibility Study will confirm the transformative nature of hyperloop and will energize a transport revolution not seen in over 100 years



This project far exceeds Federal funding standards for benefit-cost analysis and enables a return on investment for Private Public Partnership development, which is unheard of in transportation.

Grace Gallucci, Executive Director

Northeast Ohio Areawide Coordinating Agency



Clearly the project shows very good merit and is in fact the first intercity passenger ground transportation system to show a positive rate of return that TEMS has assessed in the last 30 years.

Alexander E. Metcalf, PhD, President

<u>Transportation Economics & Management Systems, Inc.</u>





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CARDZES!

