Creating unprecedented economic opportunities

Chicago to Cleveland Speed Profile

<table>
<thead>
<tr>
<th>Route Options</th>
<th>Distance (miles)</th>
<th>Travel Time* (minutes)</th>
<th>Top Speed* (mph)</th>
<th>Average Speed* (mph)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>760</td>
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<tr>
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<tr>
<td>Hybrid</td>
<td>337</td>
<td>5628</td>
<td>700</td>
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Cleveland to Pittsburgh Speed Profile

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<th>Average Speed* (mph)</th>
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2025-2050 Regional Economic Impact

- **Employment Growth**
  - 900,000+ jobs in all sectors
- **Increased Income**
  - 2x project capital costs
- **Property Value Increase**
  - 3x project capital costs
- **Expanded Tax Base**
  - 50-55% of project capital costs

Direct Socioeconomic Benefits (2025 - 2050)

- **Employment Improvement**: $11.5B
- **Income**: $17.8B
- **Property Value**: $17.6B
- **Transfer Payments | Tax Benefits (2025 - 2050)**
  - **Local Income Tax**: $2.0B
  - **Federal Income Tax**: $9.4B
  - **Property Tax**: $1.3B
  - **Total Tax Payments**: $12.7B

- **Toll Road route example** | All costs in 2018 dollars

All cost estimates are fully loaded and include escalation and a 5% contingency on line items. Costs also include all technology, stations, easements, rights of way, and maintenance.

2025-2050 Capital Cost Summary

- **Total Public at Large Benefits**
  - **Total User Benefits**: $60,488 (millions)
  - **Total Public Benefits**: $74,648 (millions)

- **NPV Total Costs**
  - **NPV Total Benefits**: $36,245 (millions)
  - **NPV Total Costs**: $33,948 (millions)

- **Benefit/Cost Ratio**
  - **NPV Benefits Less Costs**: $40,700 (millions)
  - **Benefit/Cost Ratio**: 2.20

*Based on IRS mileage reimbursement of 54.5 cents per mile

Illustrative Commuter Cost Comparison

Hyperloop fares will vary based on ridership frequency with the expectation that travel will be accessible and affordable. This comparison is based on a one-way, 47-minute hyperloop trip from Cleveland to Chicago at a commuter fare of $40.

Hyperloop Freight Estimated Operating Cost

- Air cargo and less-than-truckload express trucking demand along the corridor is growing at 4 to 5% per year. With lower costs and significantly shorter travel times, hyperloop can not only transform the freight industry but absorb all estimated growth.

Financial Viability

- **CO2 Emissions Comparison**
  - Based on the forecasted travel demand along the corridor. Carbon Dioxide (CO₂) emissions will be reduced by 14.5 million tons when implementing a HyperloopTT transportation system.

CO₂ Emissions Comparison

- **Based on forecasted travel demand along the corridor. Carbon Dioxide (CO₂) emissions will be reduced by 14.5 million tons when implementing a HyperloopTT transportation system.**

Highlights are representative of the final draft of the Great Lakes Hyperloop Feasibility Study report | December 2019