Seattle to Portland in 15 mins
What is Hyperloop?

Next Generation of Intercity Transport
What is Hyperloop

• On demand
• Does NOT solve the infamous last mile problem
• Needs to integrate well into your multimodal strategy
A SUITE OF PASSENGER & CARGO SOLUTIONS

- Shipping Containers
- Passengers, Containers & Pallets
- Packages, Components & Courier
What is Hyperloop

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# Hyperloop

*Next-generation Intercity Transport*

<table>
<thead>
<tr>
<th>Speed</th>
<th>Capacity</th>
<th>Terminal Size</th>
<th>Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>550 mph</td>
<td>On Demand, Direct</td>
<td>Medium</td>
<td>Passive Maglev</td>
</tr>
<tr>
<td>17 mins</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 mph</td>
<td>Stops, At Capacity</td>
<td>Medium</td>
<td>Active Maglev</td>
</tr>
<tr>
<td>1:21 mins</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600 mph</td>
<td>Destination Direct</td>
<td>Large</td>
<td>Jet Fuel</td>
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<tr>
<td>30 mins</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70 mph</td>
<td>On Demand</td>
<td>Small</td>
<td>Conventional combustion</td>
</tr>
<tr>
<td>3:30 mins</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
Pacific Hyperloop

Where would you build it?

- **Phased approach**
  - Parcel & Cargo First: Logistics centers, Seaport to Seaport
  - Passenger: City Centers, Airports, Capitols
  - North Extension: Vancouver, BC, Bellingham Airport

- **Infrastructure Cost Opportunities**
  - Partner with existing Right of Way
  - Co-align with utilities
Pacific Hyperloop

How does the community benefit?

- Today’s Average Commute: ~28 mins
  - Access 6x commutable range
  - Balance housing costs
  - Alleviate traffic congestion

- New user cases
  - Access to medical services
  - Perishable goods & high-value inventory
Pacific Hyperloop

What is the business case?

$50 per round trip

- 90 mins to 15 mins >> 6x traffic multiplier
  - 10,000 estimated daily round trips in 2025
  - 54,000 projected daily round trips with Hyperloop

- Cost estimate:
  - 180 miles @ $111 million per mile
  - California HSR @ $82 million per mile
  - HL1 project 2/3 cost of HSR
  - 100 year infrastructure life
  - 30 year POD life

Cost estimate:

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  - 180 miles @ $111 million per mile
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Value of time:

- Hyperloop: $52.18
- Ultra Train: $267.00
- Car: $104.36
- Train: $126.00
- Airplane: $267.00
HSR & Hyperloop

What is the technology risk?

- Pre-study – Design Study & Enviro – Final Approval – Build
  - Seattle Sound Transit (Central) 6 years
  - Vancouver Translink 3 years
  - California Highspeed Rail 15 years
HSR & Hyperloop

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Estimated Timeline for High Speed Rail

- Pre-Lim
- Initial Design & Enviro
- Full Design, Enviro & Legislature
- Infrastructure Construction

Estimated Timeline for Hyperloop Technology

- 2018: Passive Maglev
- 2019: Closed System
- 2020: Higher Speeds
- 2021: 3 Commercial Operational Systems
- 2022
- 2023
- 2024
- 2025
- 2026
Pacific Hyperloop

**Why should PNW region lead?**

- Get ahead of growth
- Innovation Momentum
  - Cascadia Innovation Corridor
  - Tech Community
  - Success in transit infrastructure PPP
- Economic Fuel
  - Create new opportunities
  - 60% Direct Offset of hyperloop POD build-up
  - Secure global market share for aerospace supplier base
Pacific Hyperloop

Engaging in Hyperloop

- Local Station trade-study
  - Support with local PPP structure
- Integrate into multimodal strategy
- Partner to advance the Pacific Hyperloop proposal
More options for where to live, work and play

Visit us @ www.pnwloop.com