Mobility Marketplaces
Self-Sustaining and Sustainable Hubs for People, Mobility, and Energy

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The Transportation Futures Research Fellowship
Cascadia Center for Regional Development
Changing Mobility Landscape

Highway Traffic
Data from 52 locations statewide

-11%

Compared to baseline year*

County
(All)

Highway
(All)

Day of Date
Sun, 03/01/20

Darkening boxes indicate a larger change from the baseline.

A) 2/21 - State of Emergency declared  B) 3/12 - Schools Closed  C) 3/16 - Ban on gatherings of 50+ people D) 3/25 - Stay Home, Stay Healthy order goes into effect E) 4/1 Stay Home, Stay Healthy order expired. F) New statewide restrictions. Note: 3/20 - some King County data was impacted by wildfires.

Transit Ridership
Data from ten of the largest transit agencies

-62%

Compared to baseline year*

Transit Agency
(All)

Day of Week
(All)

Date
Sun, 03/01/20

Thu, 02/04/21

People are Choosing the Automobile

- HIGHWAY TRAFFIC: -11%
- TOLL LANES & BRIDGES: -36%
- FERRIES: -41%
- TRANSIT RIDERSHIP: -62%
- PASSENGER RAIL: -84%

https://www.wsdot.wa.gov/about/covid-19-transportation-report/
DATA THROUGH Feb 5, 2021
## Regional CBD Trips

<table>
<thead>
<tr>
<th>Month Compared to February</th>
<th>Downtown Bellevue</th>
<th>Downtown Seattle</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>-80%</td>
<td>-86%</td>
</tr>
<tr>
<td>October</td>
<td>-50%</td>
<td>-71%</td>
</tr>
<tr>
<td>December</td>
<td>-44%</td>
<td>-65%</td>
</tr>
</tbody>
</table>
People are Choosing the Automobile

- Cleaner and safer than ever
- Meets the land use in most United States cities, suburban regions, and rural areas
- Leverage power of technology with the automobile, avoiding the pitfalls of land use changes
- Proven success in alleviating poverty
Bellevue's Southbound Slog is Back

I-405 Southbound Main Street to Coal Creek

SPEED (mi/hr)

12:00 AM 2:00 AM 4:00 AM 6:00 AM 8:00 AM 10:00 AM 12:00 PM 2:00 PM 4:00 PM 6:00 PM 8:00 PM 10:00 PM

- 405 FEB
- 405 APR
- 405 JULY
- 405 OCT
New Mobility Meeting Real Needs

Sound Transit trains are suddenly filling 40 percent of the time at rush hour, causing some rider grumbling and a closer look at adding capacity.
Diversity and Innovation

- Huge opportunity to launch safe, individualized, on-demand, electric-powered shuttle services
- A fixed-route, fixed-schedule model cannot support new trends in distributed midday travel
- Transforming Park & Ride facilities into Mobility Marketplaces will create demand for high-capacity transit, providing driver comfort stations and sustainable hubs for EV charging and mobility services
THE FUTURE OF COMMUTING
MOVING BEYOND PARKING

- Land Use
- Capacity
- Facility Use
- Diversity
- Concessions
- Attractions
- Revenue
- Sustainability
- Energy
- Investment
“MOBILITY HUB” - INTERMODAL
Park & Ride DEVELOPMENT OPTIONS

- Current and future needs include energy, logistics, and mobility services
- Motorway sites are high-value due to pass-by traffic and prevalence of stable growth in automobile trips
- Add value by creating more flexible transportation choices
- Serve local needs with development of microgrids

Park & Ride sites could be expanded using new public-private partnerships
ADD SERVICES, BUILD REVENUE
Mobility Marketplace

Research Report: Mobility Marketplaces
Mobility Marketplace

5 YEARS
Mobility Marketplace

8 YEARS
Mobility Marketplaces

Self-Sustaining and Sustainable Hubs for Mobility, People, and Energy
Leadership    Resources    Energy    Results