Making Mobility Smarter
Setting the stage for the future of transit in Durham
Durham Region Transit Snapshot

11M+ | 80%

240 | 2,500 km² | 2,800+
The Smart Mobility Imperative

• Rapid growth – Durham forecast to grow to nearly 1M people by 2031
• Economic, social, environmental costs of congestion and climate change
• Increasingly complex travel patterns
• Rapid advancements in technology and mobility models
• Growing industry momentum towards clean energy solutions
• Expanding public expectation for integrated and on-demand services
• Appreciation for what mobility represents
Making mobility smarter means...

• Implementing responsive and dynamic service options
• Aligning transit and land use objectives
• Promoting equity in, and access to, mobility options
• Improving the customer experience, information channels and service integration
• Introducing continuous improvement mechanisms
Preparing for tomorrow’s transit...

- Simcoe Rapid Transit Corridor
  - Introduction of PULSE Bus Rapid Transit
    - EA and Preliminary Design for higher order transit

- Highway 2 Median Rapid Transit lanes in Pickering

- Complete PULSE Bus Rapid Transit priority lanes (Ajax, Whitby, Oshawa)

- Expanding OnDemand services to urban communities

- Rural service delivery model review

- Transl东风al signal priority connected vehicle testing

- AV shuttle pilot in south Whitby

- Battery electric bus pilot at Oshawa Depot

- Lakeshore East GO Train extension to Bowmanville
COVID - 19
The Impact of COVID-19

<table>
<thead>
<tr>
<th>ESTIMATED Overall Change from 2019</th>
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<tr>
<td>YTD Ridership Change to March 15th</td>
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<td>YTD Ridership Change from March 16th</td>
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<td>YTD Overall Ridership Change</td>
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Graph showing ridership changes from March to August 2020 compared to 2019.
Re-Setting our Service Network

Phase A
Re-Setting our Service Network

Phase B
Re-Setting our Service Network

Phase C
A Convenient and Contactless Customer Experience

**Plan**
- **Transit**

**Book**
- **Spare**

**Pay**
- **Bytemark**
Whitby Automated Vehicle Pilot

- DRT partnering with Town of Whitby, SmartCone Technologies, Pacific Western Transportation, Metrolinx and others, with the significant support of OCE’s AVIN Program

- Canada’s first autonomous electric shuttle service operated in mixed traffic aided by smart infrastructure year-round in a mixed-use neighbourhood as part of an integrated transit network

- More than 70 pieces of smart infrastructure deployed along the route providing advanced alerts to vulnerable road users and other motorists
AV Pilot Route

• Longest operation of its kind in Canada, both in terms of duration and route length
• Integrated into DRT network including schedule, operating standards, service levels, safety, etc.
• Will assess:
  • physical and digital infrastructure requirements
  • operational, financial, environmental and customer service benefits
• Targeted to launch in early 2021
Assessing Scale – up Potential

Phase C
Smart Mobility – Smart Outcomes

A - Autonomous
C - Connected
E - Electric
S - Shared
Smart Mobility – Smart Outcomes

A - Autonomous
C - Connected
E - Electric
S - Shared

A - Available
C - Consistent
E - Efficient
S - Seamless