



# Making Mobility Smarter

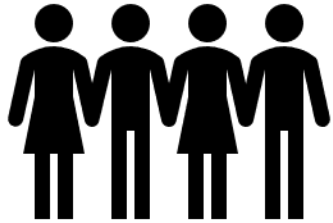
Setting the stage for the future of  
transit in Durham





## Durham Region Transit Snapshot

11M+



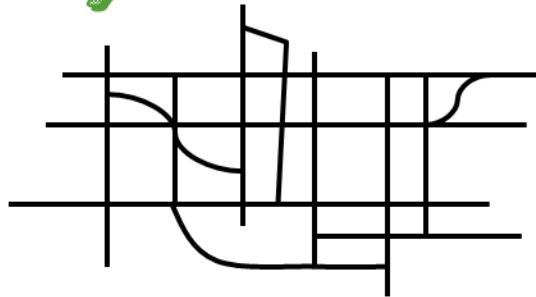
80%



240



2,500 km<sup>2</sup>



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



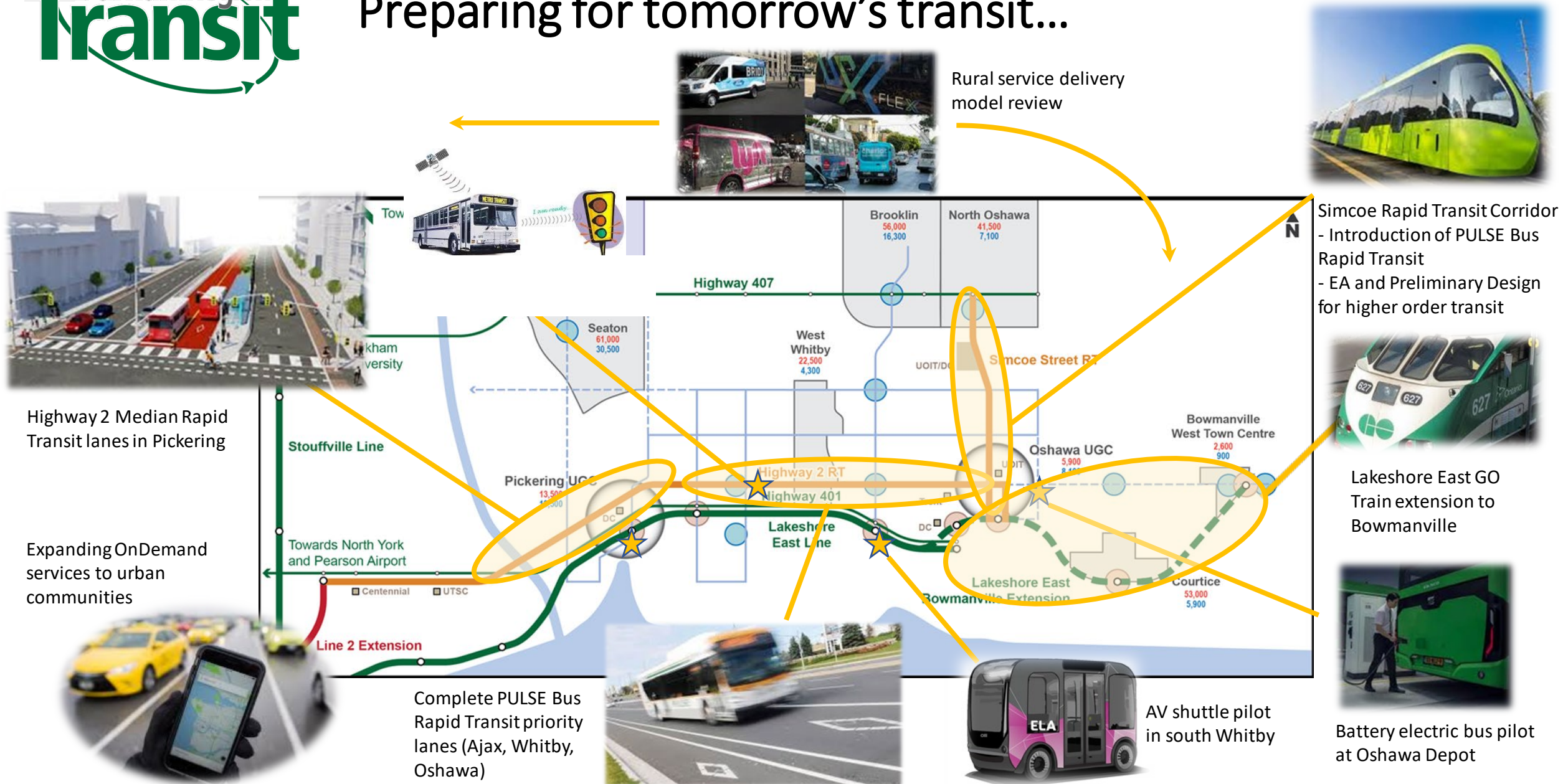
## Making mobility smarter means...

- 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...



The background of the image is a monochromatic blue-toned photograph of a natural landscape. It features a dense forest of tall, thin trees, with a prominent waterfall cascading down a rocky ledge in the upper right portion of the frame. The overall atmosphere is serene and somewhat somber due to the cool color palette.

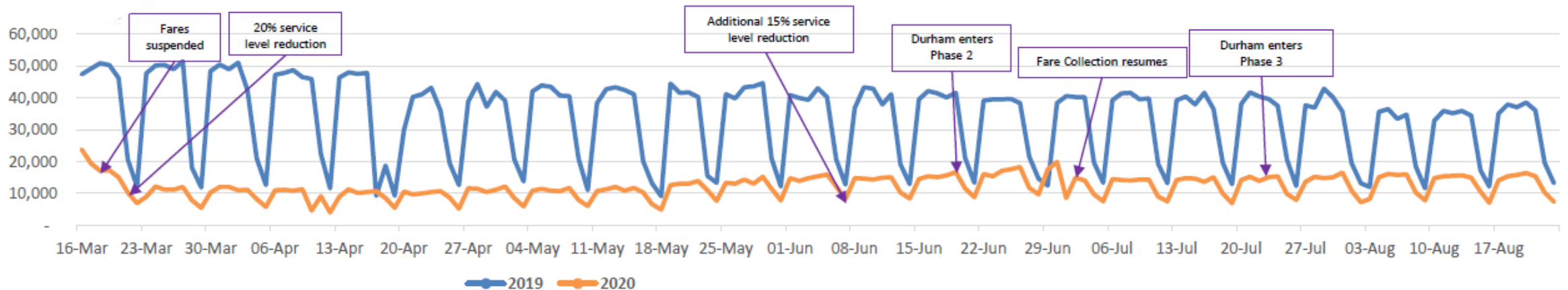
**COVID - 19**



# The Impact of COVID-19

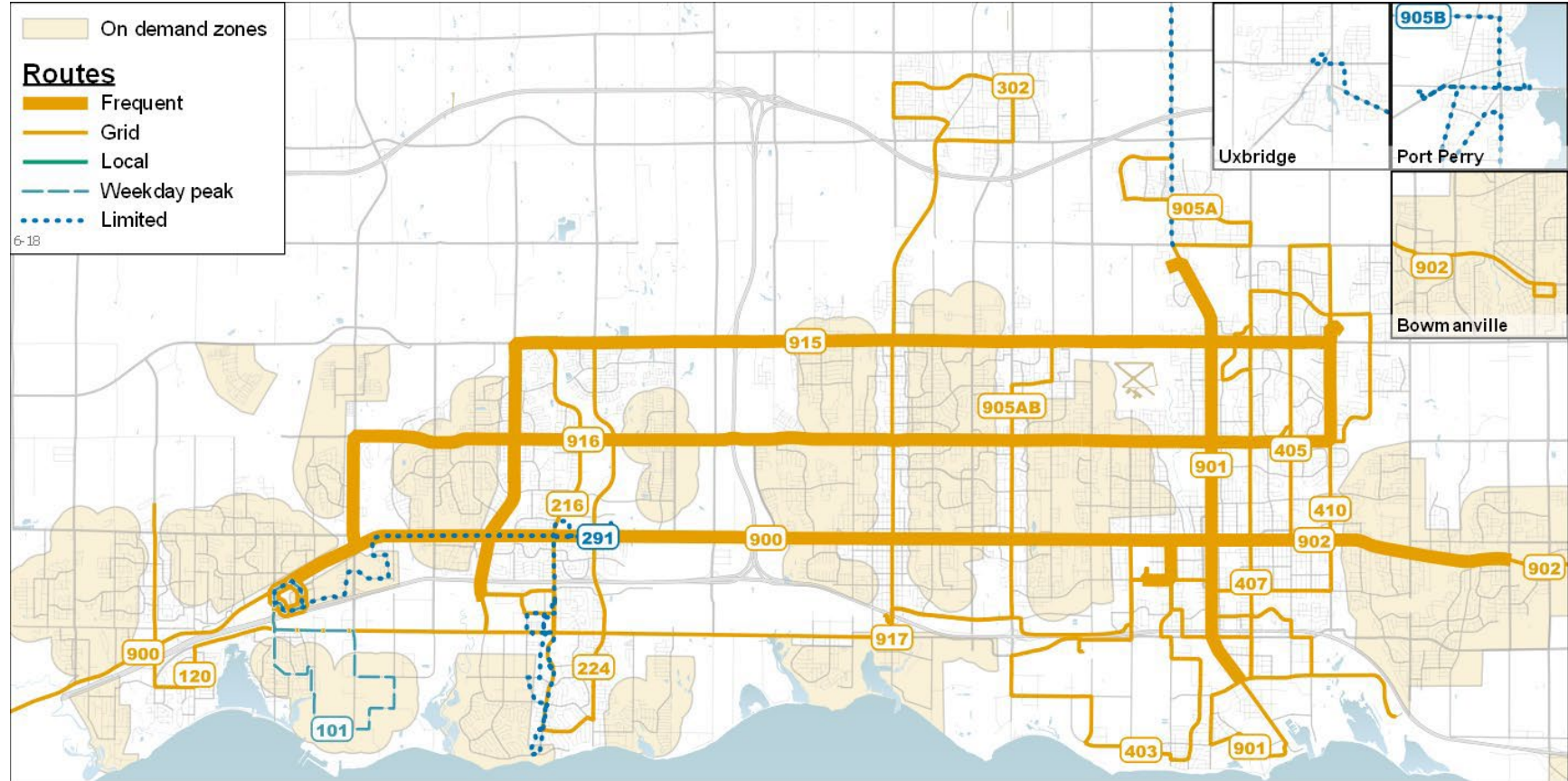
## ESTIMATED Overall Change from 2019

YTD Ridership Change to March 15th	7.6%
YTD Ridership Change from March 16th	-63%
YTD Overall Ridership Change	-42%



# Re-Setting our Service Network

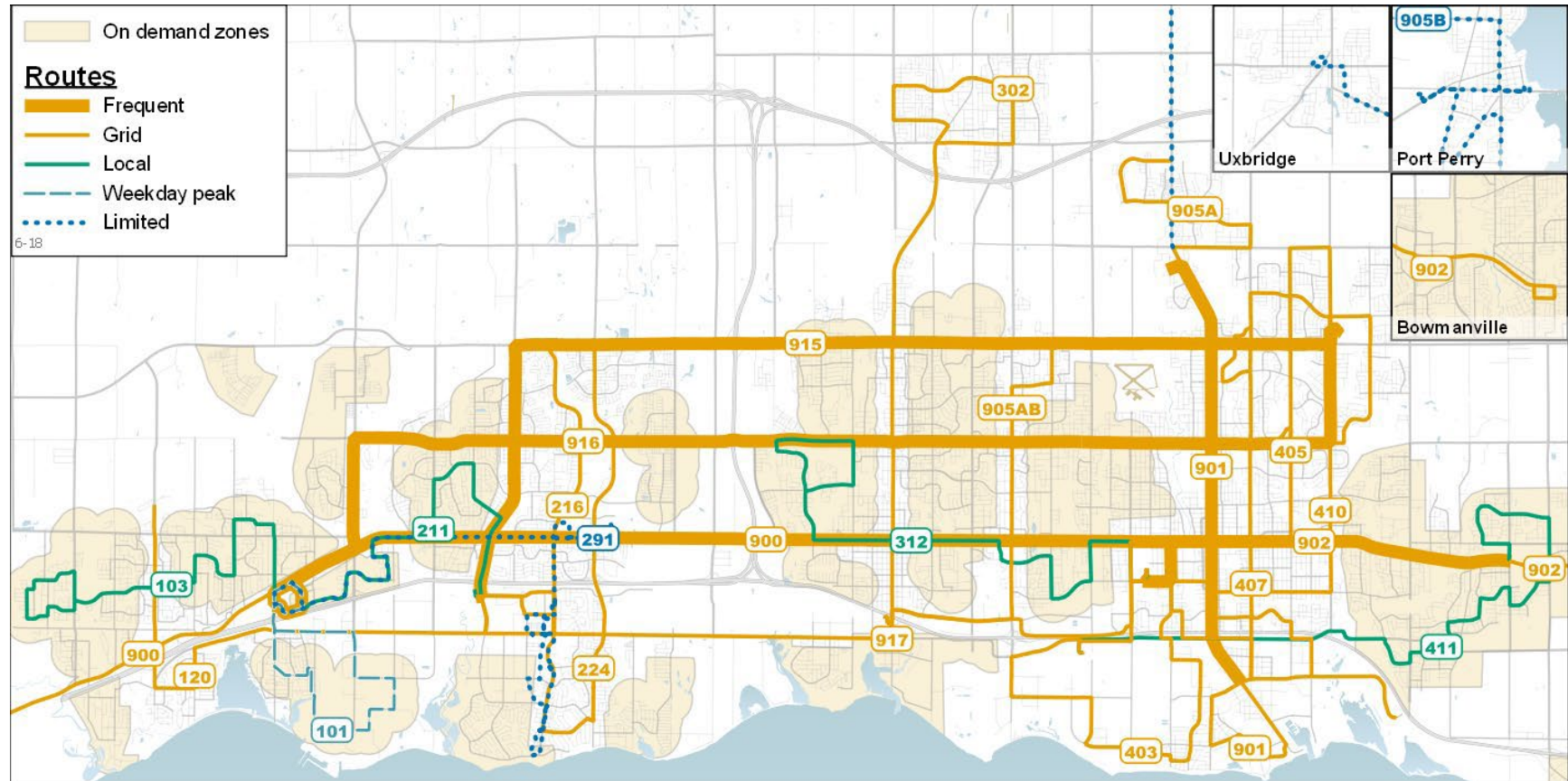
## Phase A





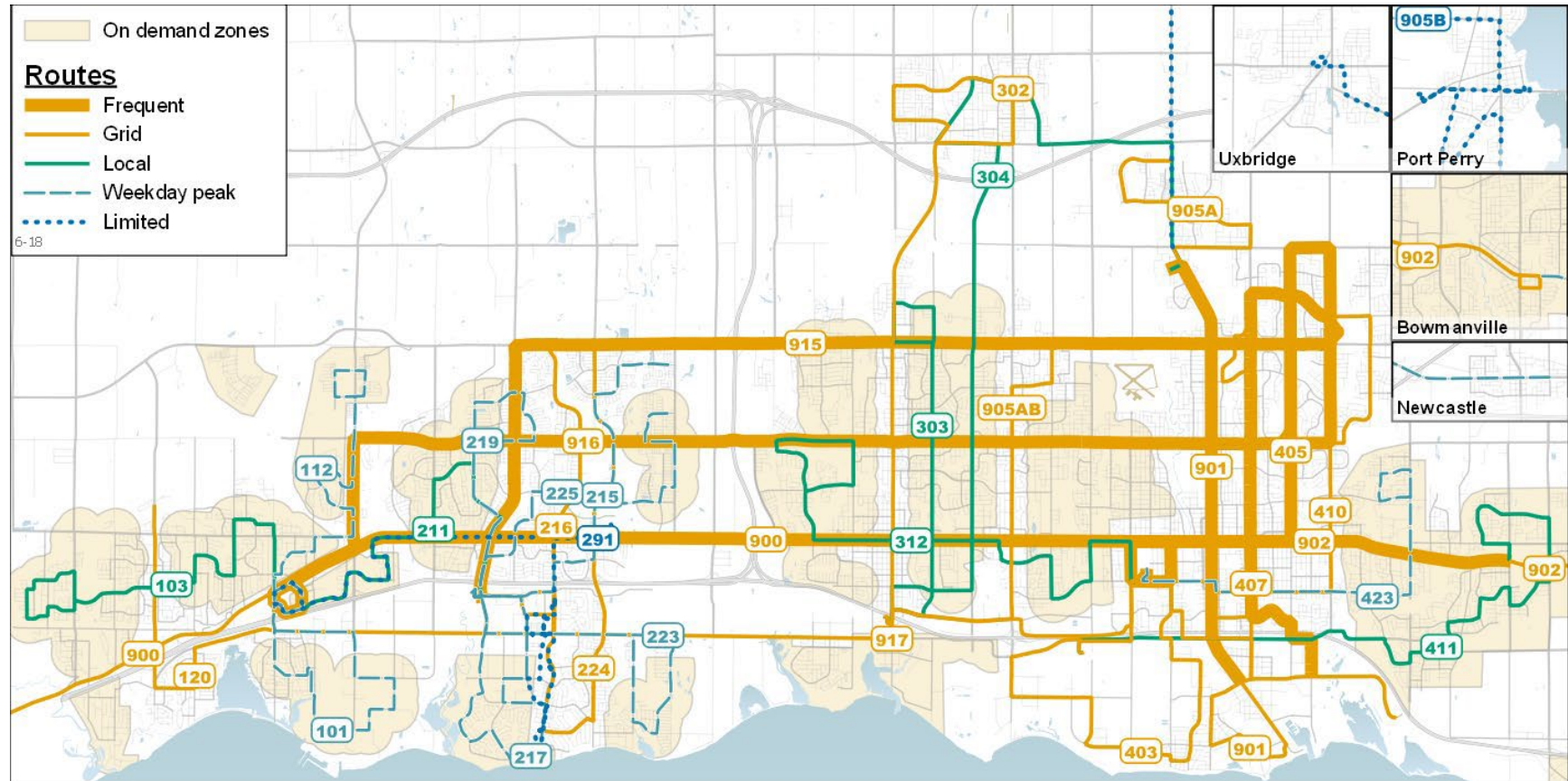
# Re-Setting our Service Network

## Phase B



# Re-Setting our Service Network

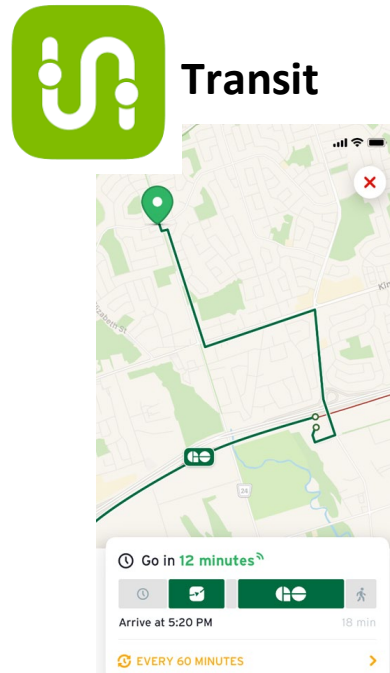
## Phase C



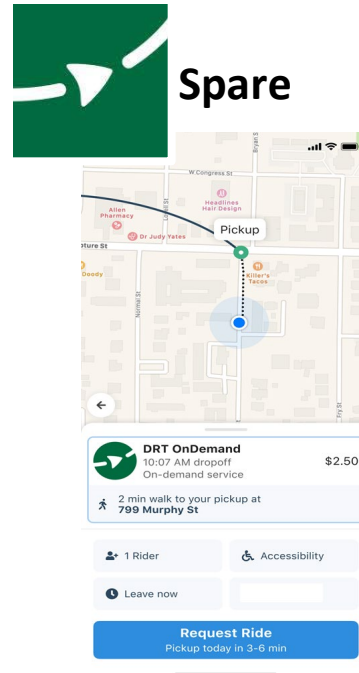


# A Convenient and Contactless Customer Experience

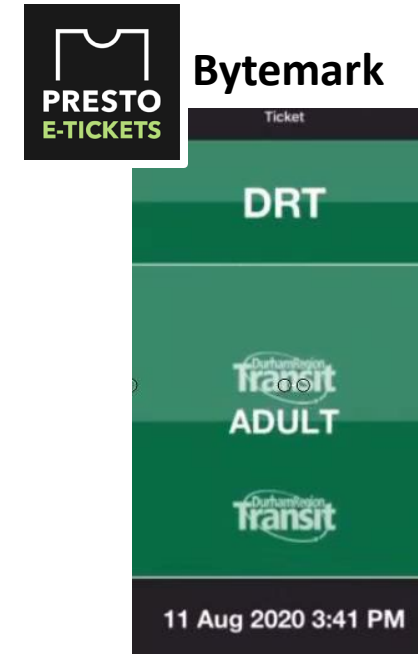
## Plan



## Book



## Pay



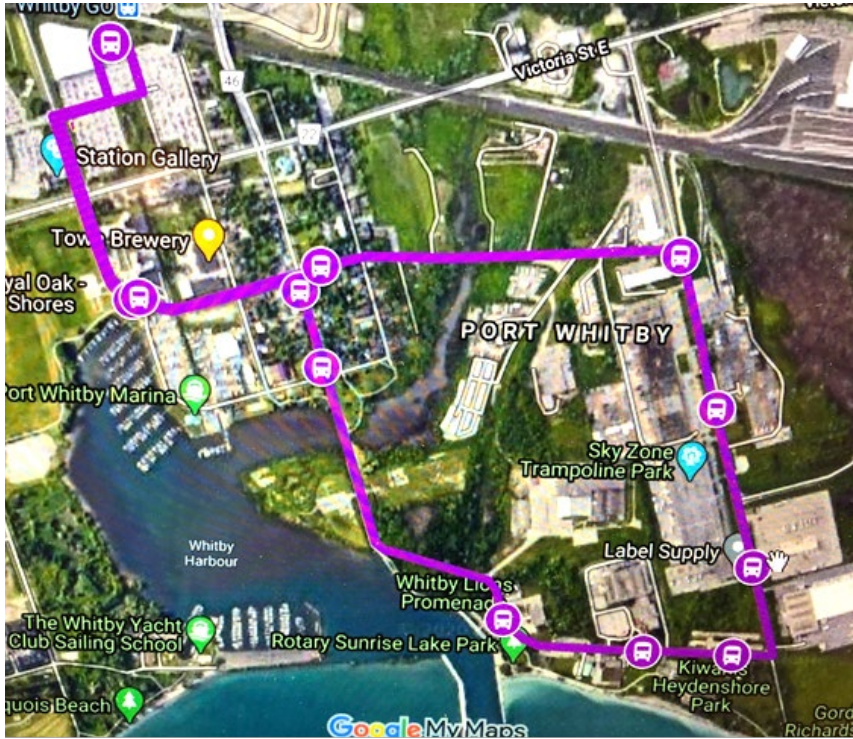
## Whitby Automated Vehicle Pilot



- 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



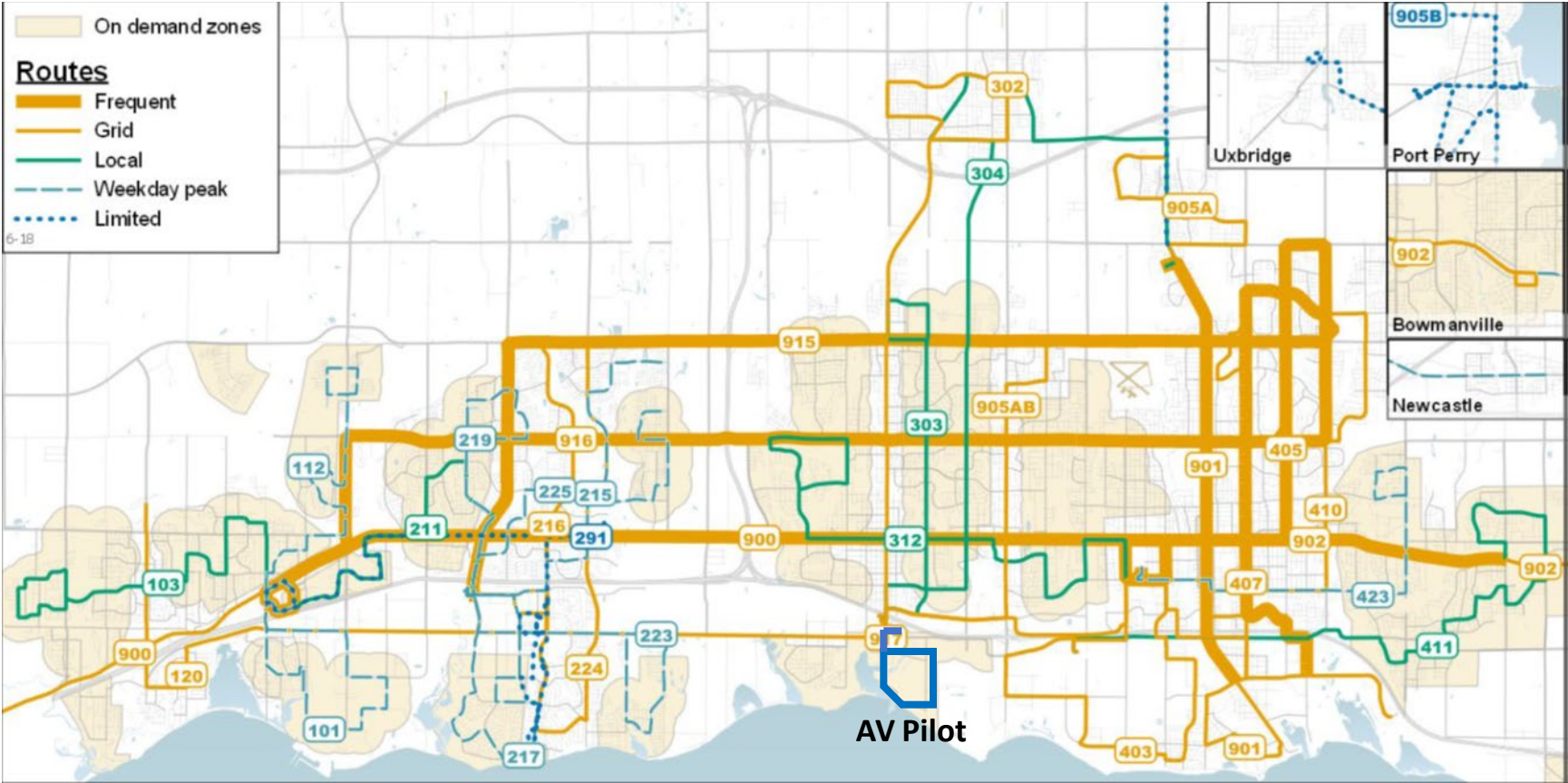
## AV Pilot Route



- 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**utonomous

**C**onnected

**E**lectric

**S**hared

## Smart Mobility – Smart Outcomes

**A** utonomous

**C** onnected

**E** lectric

**S** hared



**A** vailable

**C** onsistent

**E** fficient

**S** eamless



