Autonomous Shuttle pilots in Western Canada
ABOUT PWT

- Established in 1957 – R.B. Colborne, Founder
- 5,000+ employees, 4,000+ vehicles
- 100% Canadian, Family Owned & Operated
- 4 Business Lines: Transit, Student, Motorcoach, and Employee Transportation
- On a daily basis PWT group of companies safely transports over 200,000 passengers
- We are guided by our Core Values and Safety Vision
ELA
“ELectric Autonomous”

City of Calgary
  Spruce Meadows
  Telus Spark
  Calgary Zoo
City of Edmonton
  Blachford
  Strathcona
  Brookfield
  Grey Cup 2019
  U of A
Reynolds Museum
Surrey
Vancouver
City of Beaumont – Mixed
Traffic
ELA operated a route of about 750m between the Calgary Zoo C-Train station and TELUS SPARK. The intent of ELA was to provide a last-mile connection to TELUS Spark.
It was inevitable that ELA would face snowy conditions. During the Strathcona pilot it sank to -15 with snow fall. This didn’t stop ELA or over 1000 passengers from experiencing AV technology. The shuttle was able to navigate through cold wind and snow, and not only remain functional but exceeding expectations.
ELA at the Vision Zero Summit 2019 in Surrey, BC.

Pictured here is ELA next to a Tesla (right) and two Hyundai's (left) all of which are 100% Electric!
Smart City Challenge bid to create Canada’s first collision-free multimodal corridors using smart mobility technologies. Together, Surrey and Vancouver hope to “set the standard for other cities in Canada” to follow their lead into utilizing smart technology in transportation, and Pacific Western is helping make that happen.
Beaumont and PWT studied how we – as citizens – react, interact and respond to autonomous vehicles. With Beaumont being Canada’s first city to pilot the integration of ELA into mixed-use traffic scenarios that encompass traffic signaling and human interaction, it is exciting progress to see how this technology can impact our everyday lives and how it can potentially build connectivity with the region.

- First deployment integrated within a community – not an “attraction”
- Mixed interaction
  - Partially segregated lane
  - Mixed Traffic through intersections and crosswalks
- First Autonomous Vehicle deployment integrating V2I Connectivity

The identified route for ELA is traveling in the Northbound lane of 50 Street running from the Ken Nichol Regional Recreation Centre stopping in the Eastbound lane just south of Coloniale Way, by the access ramp.
KEY DATA

- **202 Operating Days**
- **18,403 Passenger Trips**
- **1616 Operating Hours**
- **2393 Miles Travelled**
- **Total Energy Used - 2961.5 kWh**
- **Energy Cost for the Year - $202.30 ...... 0.08 cent per-mile**
KEY DATA - SURVEY

Approximately 30% of passengers provided feedback

Over 85% felt Safe

Over 75% Prefer an on board attendant

Over 55% Would feel comfortable on an open roadway

Over 90% felt Comfortable

Over 95% Enjoyed the trip

Over 85% Would feel comfortable between 12 & 24/mph
Thank You!

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