Columbus: A Mobility Ecosystem
9/24/2019
SMART CITY CHALLENGE

- US DOT initiated for mid-size cities
- Expectation is to teach other cities from experience
- $40 million grant and $10 Vulcan grant
  - Paul Allen
  - Electrification of transportation
- Began Fall 2015
- Awarded Summer 2016
## ELEMENTS OF A MOBILITY ECOSYSTEM

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MULTIMODAL TRIP PLANNING APPLICATION
MULTIMODAL TRIP PLANNING APPLICATION

• Provides trips with different modes
• Options for the first and/or last mile
• Incorporates bikes, scooters, walking, transit, car, ride hailing, AV shuttle
• Eventually backed by a common payment system – in development
MULTIMODAL TRIP PLANNING APPLICATION

39 mins (4.7 mi)
0 transfers $10.00

Walk 3 mins
5:37 PM

COGO
$8.00
5:40 PM

Walk 3 mins
5:46 PM

Wait 3 mins
5:49 PM

COTA
8 KARL PARSONS TO STATE ROUTE 161 AN...
5:52 PM

EMPOWERBUS

"...the strength of the Pack is the Wolf, and the strength of the Wolf is the Pack..."
MULTIMODAL TRIP PLANNING APPLICATION
SMART MOBILITY HUBS
Concept

- Facilitate modal transfer for first-mile/last-mile
- Support and grow COTA ridership
- Physical embodiment of MMTPA – modes anchored by a kiosk with trip planner

Linden Area

- Support CMAX
- Bridge first-mile/last-mile gap
- Link to jobs and services

Easton Area

- Provide last link to jobs
- Enable modal transportation in Easton area
CONNECTED ELECTRIC AUTONOMOUS VEHICLE
SMART CIRCUIT

• May Mobility

• Ann Arbor, MI start-up

• Provided service to Bedrock in Detroit
SMART CIRCUIT

• Serves public educational purpose and deployment learning for project team
  • Develop lessons learned
  • Use experience for other deployments in Columbus and Ohio
  • Connect educational and cultural resources

• Went live December 10, 2018
• Over 12,000 rides to-date
• Over 200 surveys collected from riders about experience and technology
• Access to 2 Smart Mobility Hubs
  • Linden Transit Center
  • St. Stephen’s
• Access to Services
• FMLM Connection
• Fills Transit Gap
LINDEN ROUTE

• First Gen3 vehicles to be imported into the US
• 2 vehicles deployed on route
• 12-minute headways, 14 hours of service
MOBILITY ASSISTANCE FOR PEOPLE WITH COGNITIVE DISABILITIES
MOBILITY ASSISTANCE FOR PEOPLE WITH COGNITIVE DISABILITIES

- Customizable directional navigation
- Provide voice and text prompts
- Increase independence by moving to fixed route transit
- Integrates with COTA GTFS
MOBILITY ASSISTANCE FOR PEOPLE WITH COGNITIVE DISABILITIES

- Create routes
- Monitor through web portal
- Contact for help or indicate ok
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QUESTIONS?