

#AccessibleOlli

Accessible Transportation for All



A large industrial 3D printer is the central focus of the image. It features a long, white gantry with a black flexible cable management system. The printer is situated in a bright, modern laboratory or workshop with large windows in the background. To the left, there is a large, curved, transparent structure, possibly a wind tunnel or a specialized testing chamber. The floor is a light-colored, speckled tile. The text "3D Printed" is overlaid in white at the bottom left of the image.

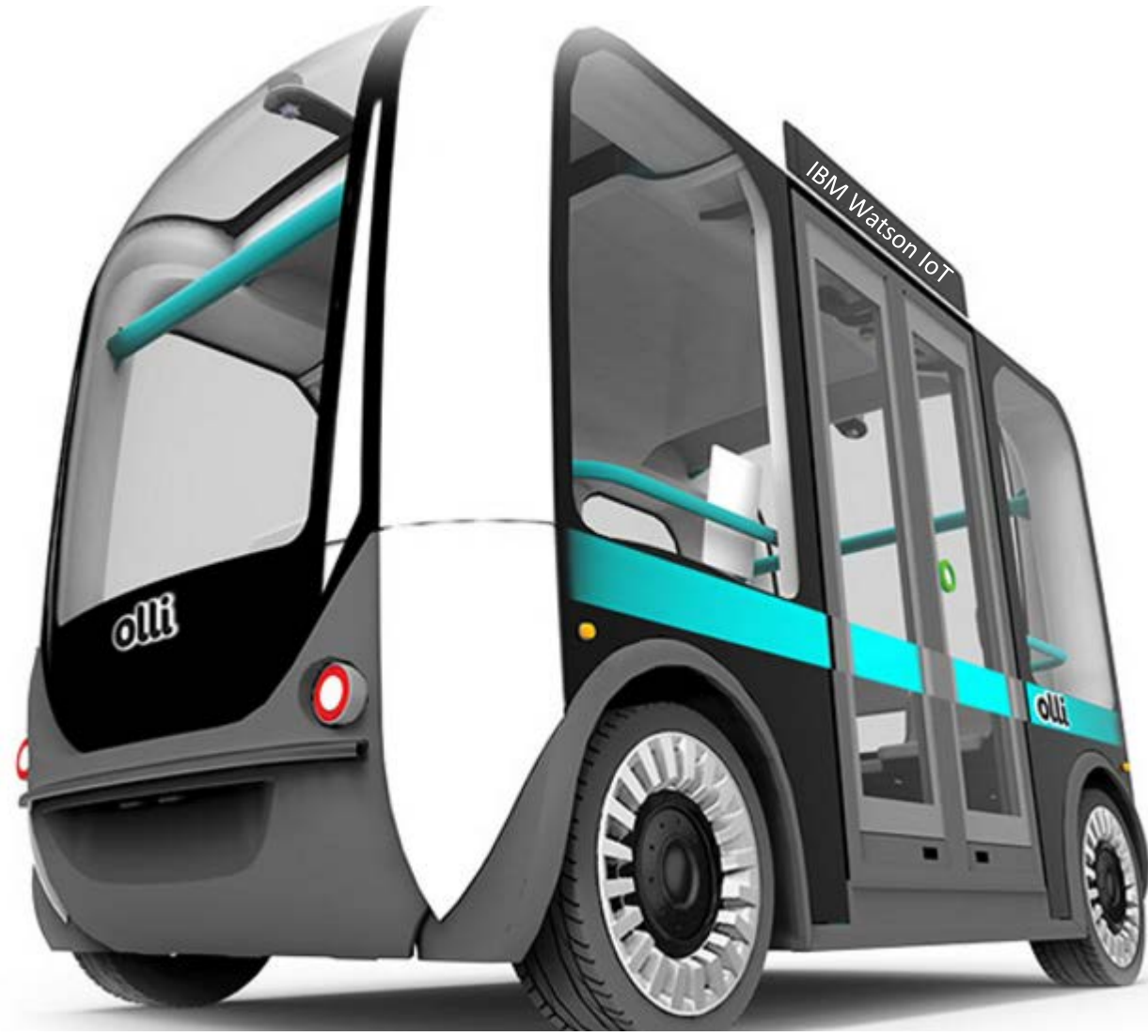
3D Printed





Existing Watson Integration with Olli

Watson APIs already used in Olli's cognitive mobility...



Rochester's Transportation Plans for DMC



BUS RAPID TRANSIT (BRT)

Characteristics: Enhanced, branded bus service. May have level boarding, signal priority, real time information, reduced number of stops.

Operation: Operator on each vehicle

Location: Usually adjacent to or within a city street or a railroad right-of-way.

Example Applications: Minneapolis, Pittsburgh, Miami, Phoenix, Orlando, Los Angeles



Cleveland Health Line BRT



Minneapolis BRT



TRAM

Characteristics: Rail vehicles operating with steel wheels on steel tracks. May have signal priority, level boarding and real time information like BRT.

Operation: Operator on each vehicle

Location: Usually adjacent to or within a city street or a railroad right-of-way.

Example Applications: Minneapolis, Pittsburgh, Phoenix, Kansas City, Cincinnati, Los Angeles



Kansas City Tram



Minneapolis Tram



AUTOMATED GUIDEWAY TRANSIT (AGT)

Characteristics: Rubber-tired transit vehicle or train traveling on an exclusive, elevated guideway.

Operation: No operator required

Location: Exclusive guideway requires grade separation, typically above public or private right-of-way.

Example Applications: Downtown Miami, Jacksonville, and Detroit; Indianapolis Medical Campus, Las Vegas Strip Casinos



Miami MetroMover



Indianapolis Monorail



AUTONOMOUS VEHICLE (AV)

Characteristics: Rubber-tired vehicles that are self-guided and require no exclusive guideway.

Operation: No operator required

Location: Potentially capable of operating on any flat surface below, at, or above ground level.

Example Applications: Limited current applications, several pilot projects in California and Florida



Easy Mile Shuttle



Olli Shuttle



● ELEVATED OPTIONS

● SURFACE OPTIONS

● SUBTERRANEAN OPTIONS

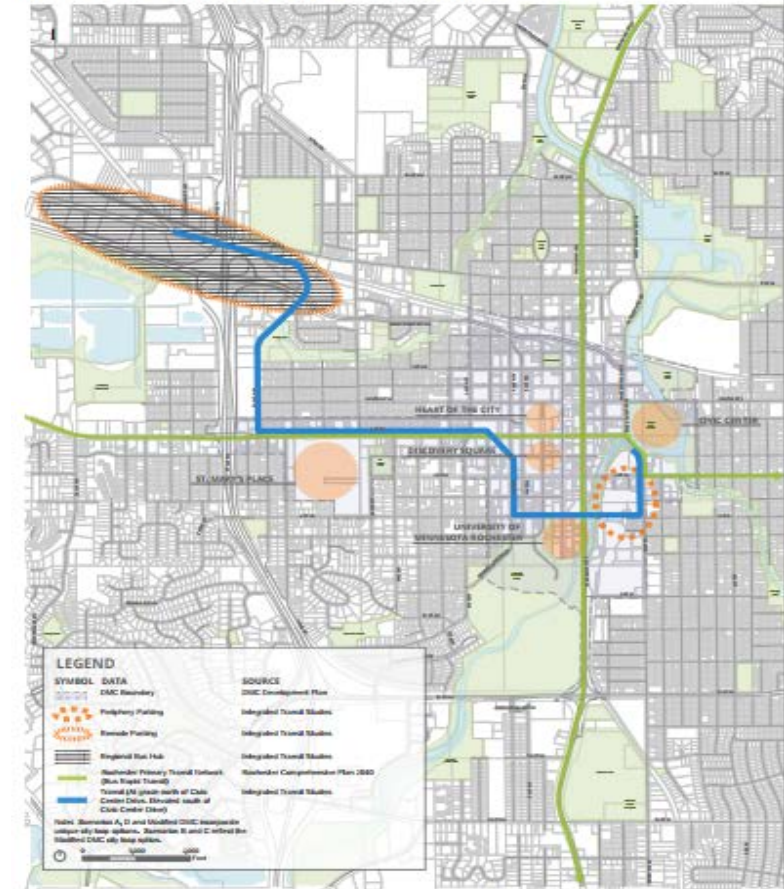
TRANSIT MODES

Downtown Rochester Integrated Transit Studies



1.2.2017

INTEGRATED TRANSIT SCENARIO D



This scenario (Autonomous Vehicle) is recommended for additional evaluation.

SCENARIO HIGHLIGHTS

- Provides east-west travel option
- Could have visual impacts due to structure
- Stations would be elevated, making it less convenient for connecting from street level
- Connects commuters at remote and peripheral parking locations
- Minimizes impacts with traffic congestion due to elevated guideway
- Elevated option is costlier to construct
- Regional bus hub at TH 52/14

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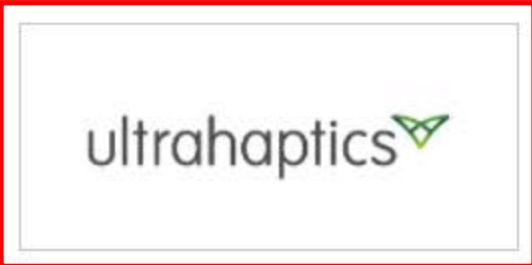
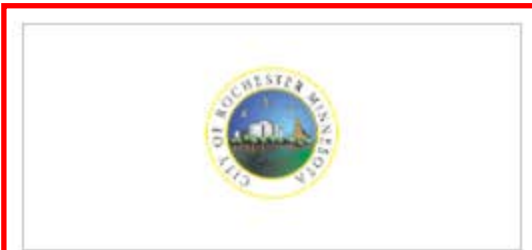
Co-creating the world's most accessible autonomous transportation



A large, 3D, colorful sign for CES (Consumer Electronics Show) is the central focus of the image. The sign features the letters 'CES' in white, bold, sans-serif font, set against a background of blue, cyan, and lime green panels. The sign is mounted on a concrete plaza in front of a modern building with a curved facade and large windows. Several people are walking around the plaza, and a man in a dark suit is in the foreground, slightly out of focus. The scene is brightly lit, suggesting a sunny day.

CES®

Partners

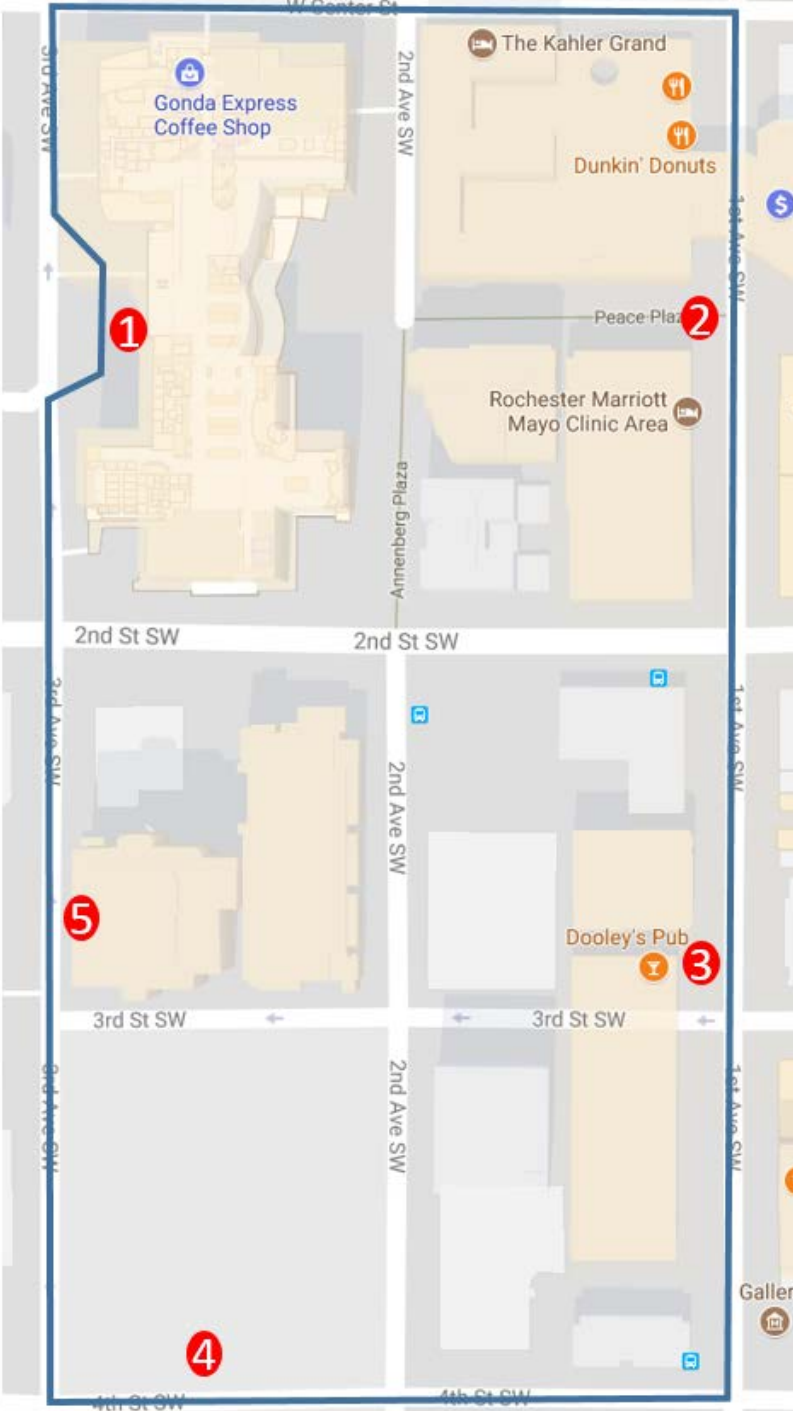




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CES

Simulated Olli Route for CES



Q'Straint





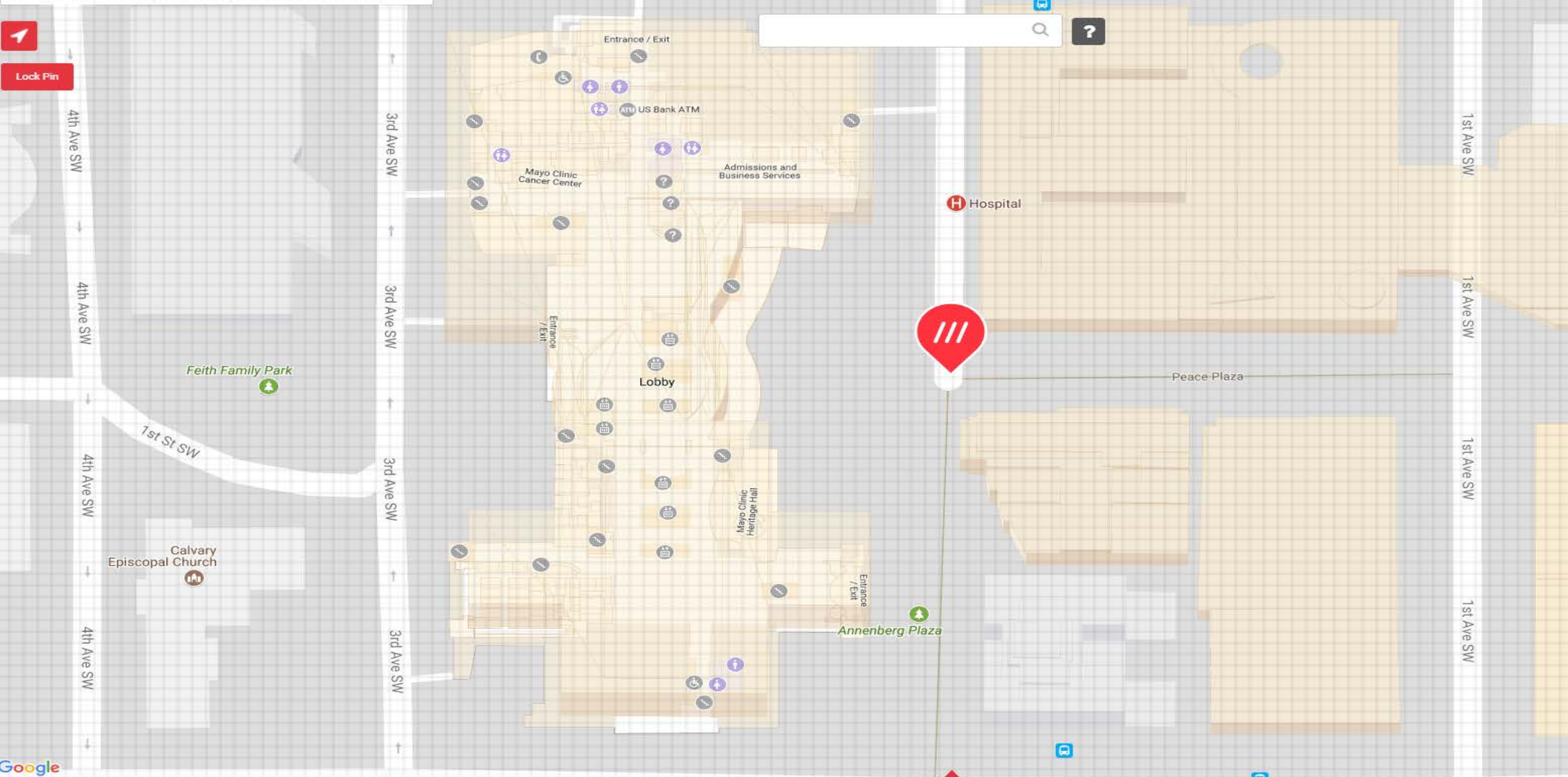
KinTrans

Hands Can Talk



UltraHaptics







Project Overview

PROJECT NEEDS

Watch the live Q&A recap

Get Up to Speed on Mobility Needs of Disabled - Read Scenarios

Download the Background Document for more info and news on #AccessibleOlli!

Help Us Brainstorm the Olli for All Needs!

Join the Autonomous for All of Us Challenge!

ALL NEEDS

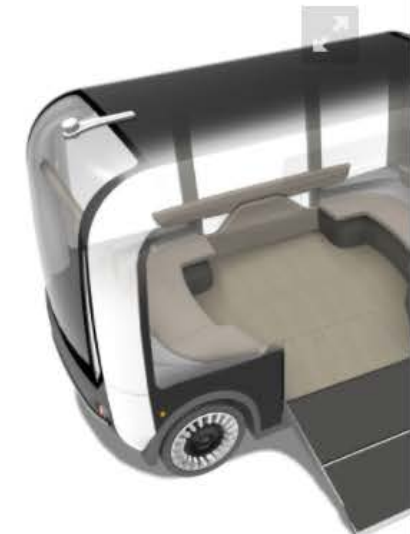
PROJECT DETAILS

Handbook

Files

Members

#AccessibleOlli



Join us in creating the most accessible Olli for riders with mobility (wheelchair), sight, hearing, and cognitive impairments. When Local Motors launched Olli, it was touted as your "friendly neighborhood mobility solution." And with IBM Watson helping with the interactions, it certainly is friendly. But it's not necessarily as friendly as it needs to be. There are many riders with unique needs that Olli doesn't currently account for. We need to prepare for a significantly larger aging population, as well as helping those with mobility, hearing or visual issues, or those with cognitive disabilities. And with Olli being self-driving, the lack of a human driver poses some unique challenges in making Olli truly accessible for everyone. In the #AccessibleOlli project, we are taking the Olli platform and building upon it to make a vehicle that can be used by all riders no matter their abilities. We are taking advantage of the latest innovations in IoT technologies and teaming up with IBM Watson to truly make the world's friendliest mobility solution.

Project Managers



624 Project Members

FOLLOW PROJECT