Rochester Automated Shuttle Pilot

Project Background

The Rochester Automated Shuttle Pilot proposes the operation of a low speed, highly automated shuttle in the urban environment of downtown Rochester. The goal of this project is to safely operate the automated shuttle for 12-months to gather lessons learned for Automated Vehicle (AV) operations in all weather conditions, educate the public on the benefits of AV technologies, and provide an innovative and enhanced transit service to the citizens of Rochester.

WHO: First Transit has been selected by MnDOT through the CAV Challenge RFP process.

WHAT: The EZ10 provided by EasyMile and operated by First Transit; a highly automated (level 4), 12 passenger, low-speed shuttle (12-15mph). This vehicle has no steering wheel or pedals but is monitored by an attendant ready to take over control if necessary.

WHEN: Minimum of 12-months of operation to gather lessons learned about AVs in all weather conditions, including winter weather.

WHY:

<table>
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<tr>
<th>Winter Weather Conditions</th>
<th>Infrastructure</th>
<th>Public Education</th>
<th>Mobility</th>
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<td>• Advance the operation of automated vehicle technology in winter weather conditions.</td>
<td>• Identify infrastructure gaps and solutions to safely operate automated vehicles on public roadways.</td>
<td>• Engage and educate the public on the benefits and opportunities afforded by automated vehicles.</td>
<td>• Enhance the transit experience for the citizens of Rochester and increase mobility in a high demand downtown urban environment.</td>
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WHERE: The proposed route is a circulator route that operates on 6th St SE, 3rd Avenue SW, W Center St, and S Broadway. It will connect the Mayo Clinic Hospital Methodist Campus with hotels, shops, restaurants, grocery stores, and surface lot parking.

Proposed route