

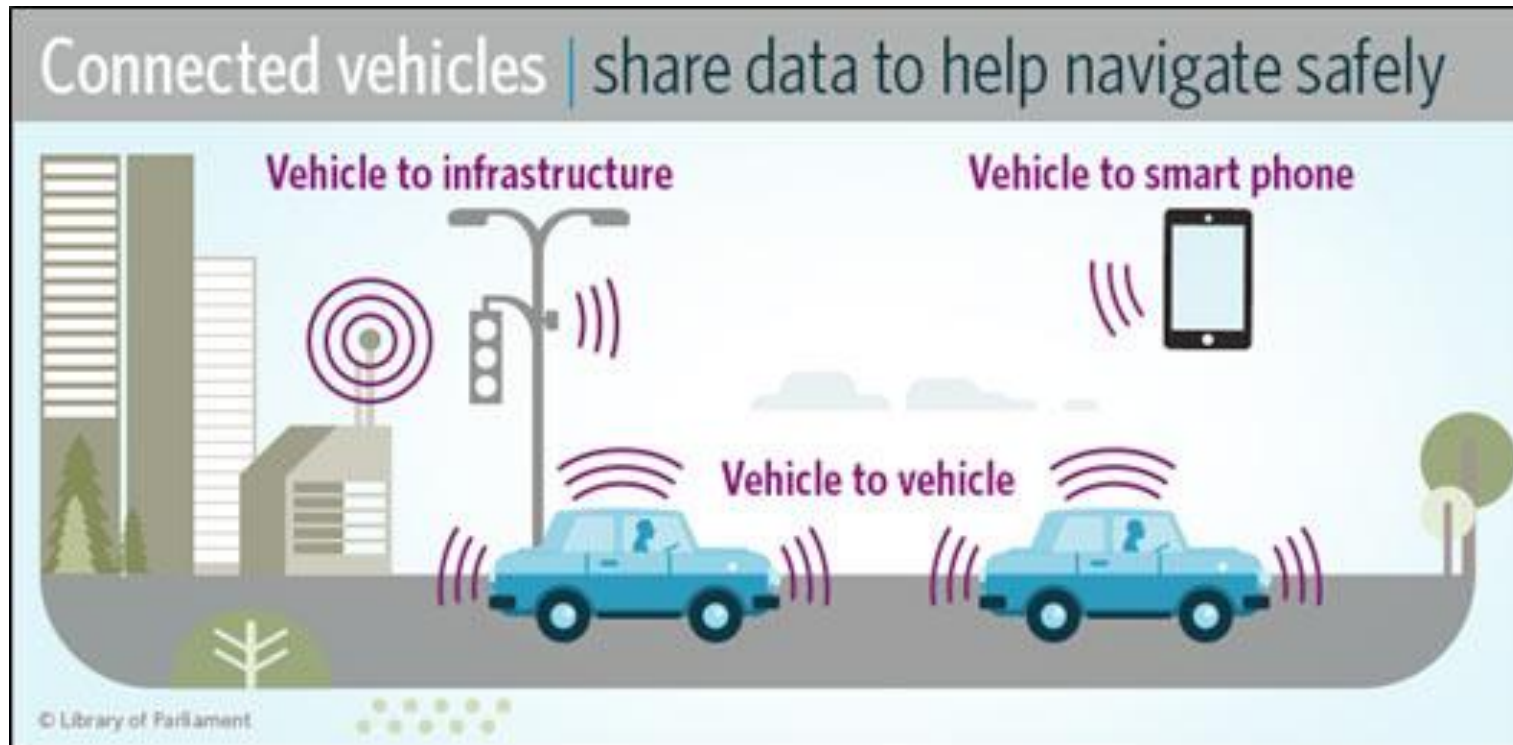


A Virtual Fuel for Mobility

October 2019

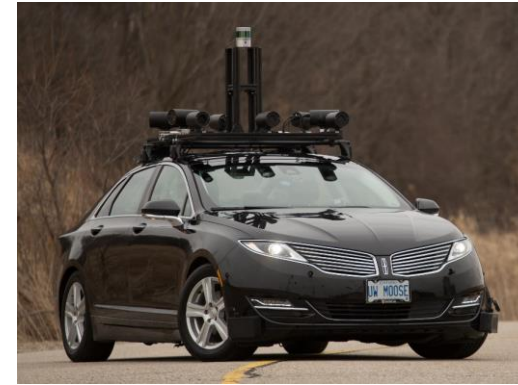
Required to Drive and Autonomous Vehicle

Connected Infrastructure



Required to Drive and Autonomous Vehicle

Automated Vehicle



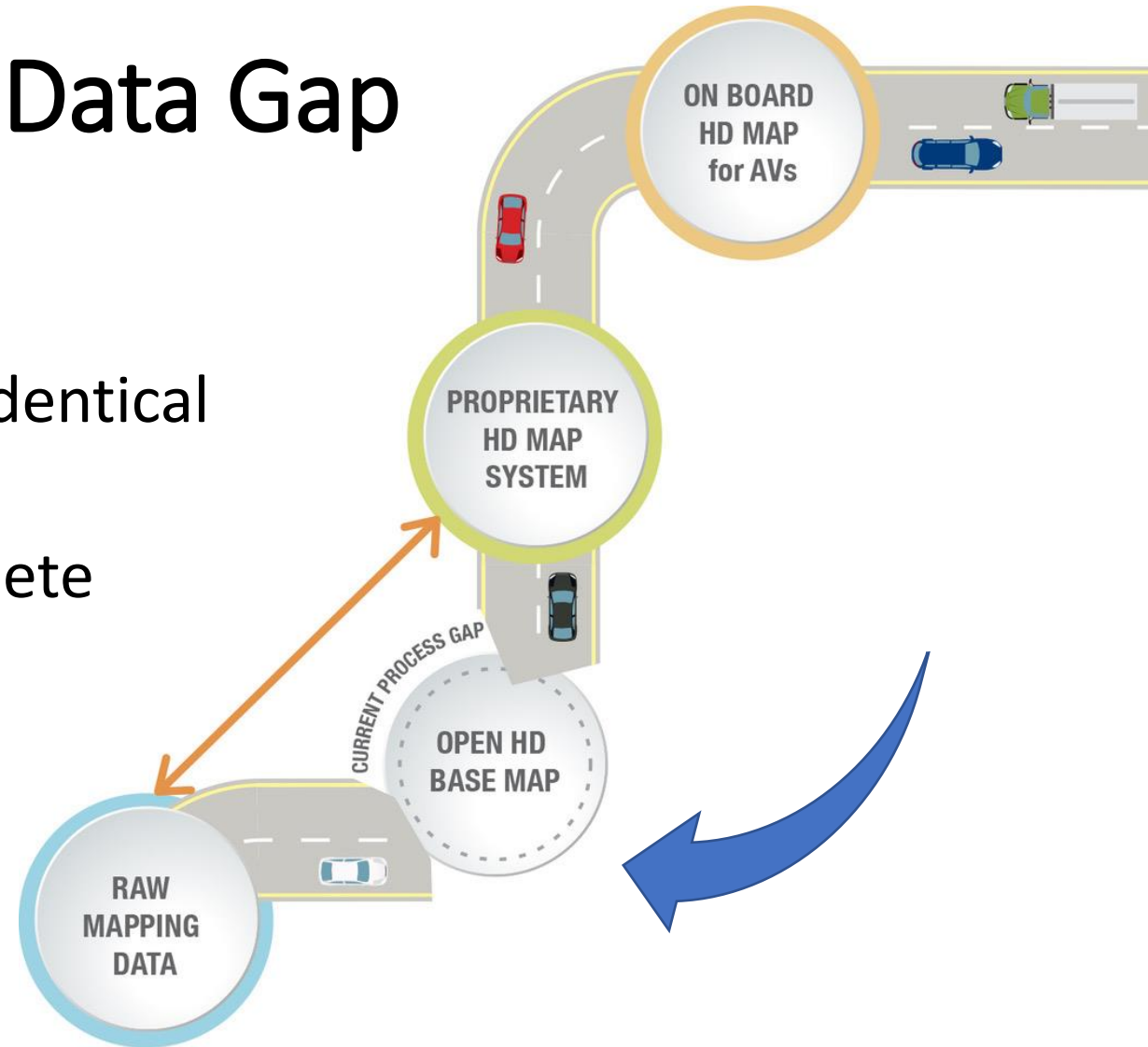
Required to Drive and Autonomous Vehicle

High Definition 3D Map



Today's HD Maps have a Data Gap

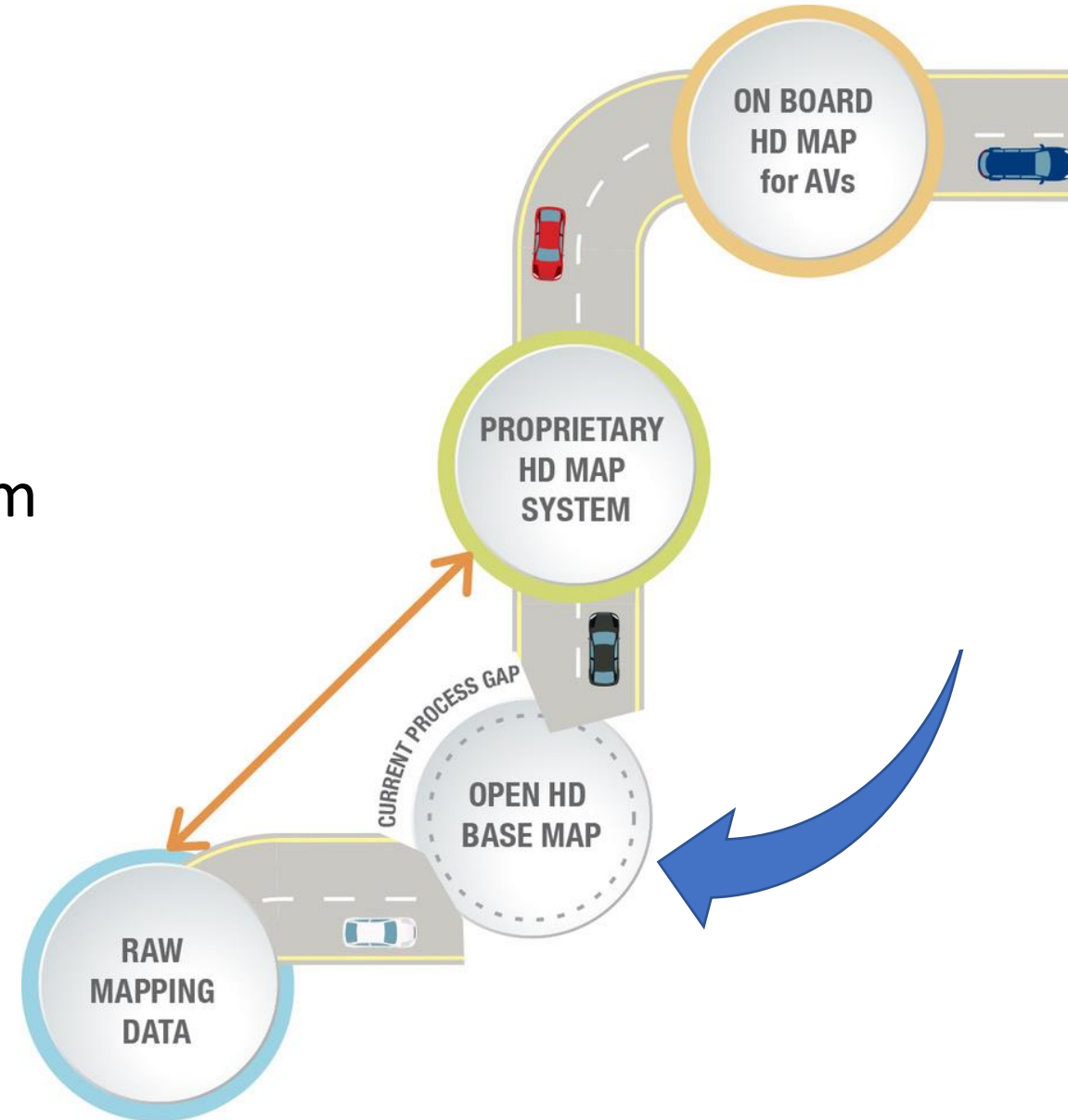
- Map providers currently collecting identical data simultaneously
- Data sources are siloed and incomplete
- Limited functionality
- Need for an **open** base map



OPEN HD MAPS

Shared Data Solution

- Establish an open innovation ecosystem
- Rich, complete HD Map dataset
- Aggregate and host disparate data
- Data resides in the public domain
- Significantly reduce information gaps



OPEN HD MAPS



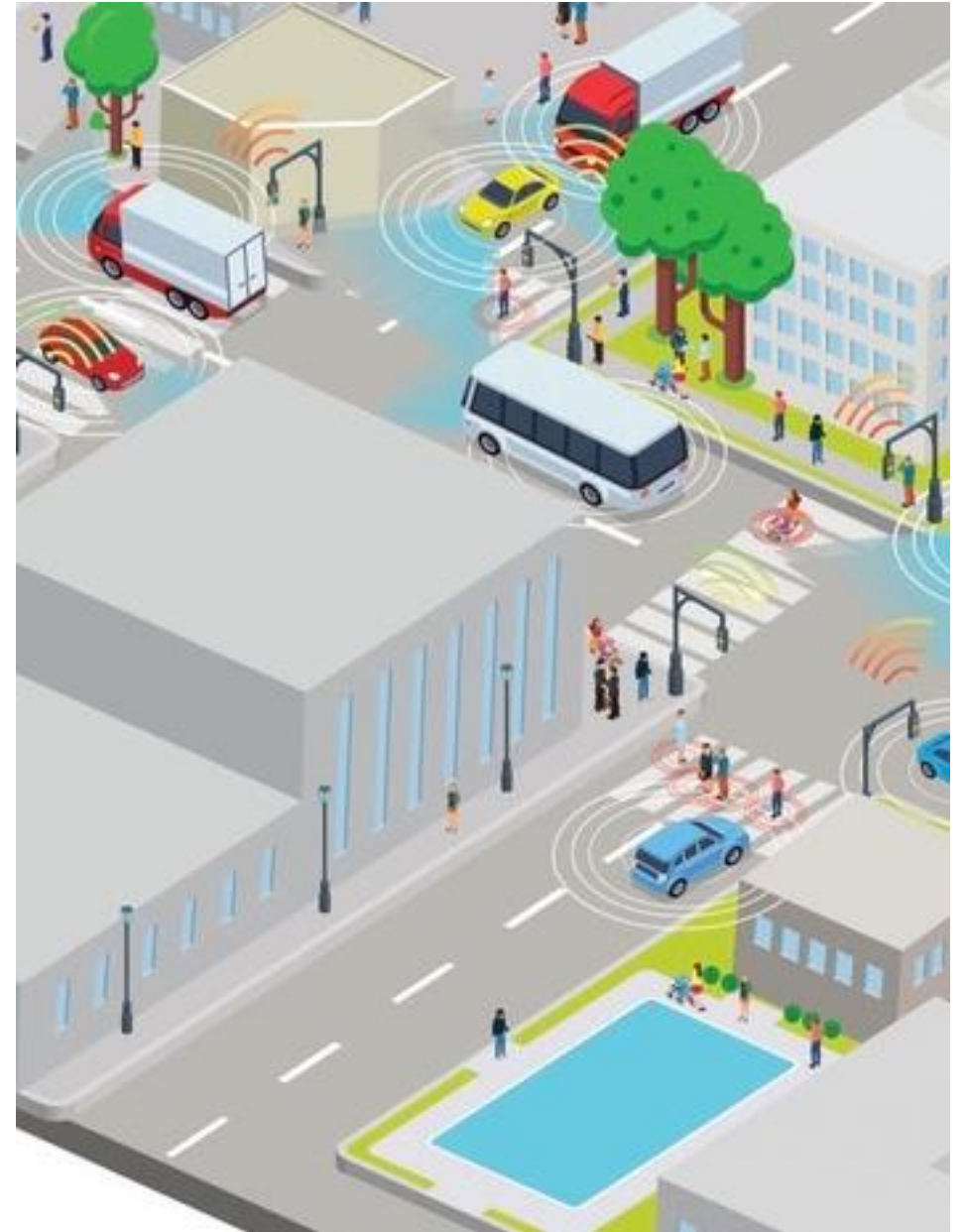
- A precision base map for any map provider



OPEN HD MAPS

Open Innovation Platform

- Eliminate critical gaps in HD mapping data
- Elevate utility of existing HD maps
- Accelerate creation of additional applications
- Support AVs, Smart Cities & more



OPEN HD MAPS

Key Objectives

1. Develop a full Waterloo region HD map dataset and mapping capability
2. Template the process, enabling others to contribute to and use the platform



OPEN HD MAPS

Key Objectives

3. Develop a data and analytics platform to host, analyze and share data
4. Provide programs and services to encourage innovation beyond maps for AVs



OPEN HD MAPS



A Collaborative Initiative

COMMUNITECH



UNIVERSITY OF WATERLOO



WATERLOOEDC
inventing the future



Contribution Funding





A Virtual Fuel for Mobility

Mauro Rossi – Managing Director, Open HD Maps

Mauro.Rossi@Communitech.ca 226-332-1999