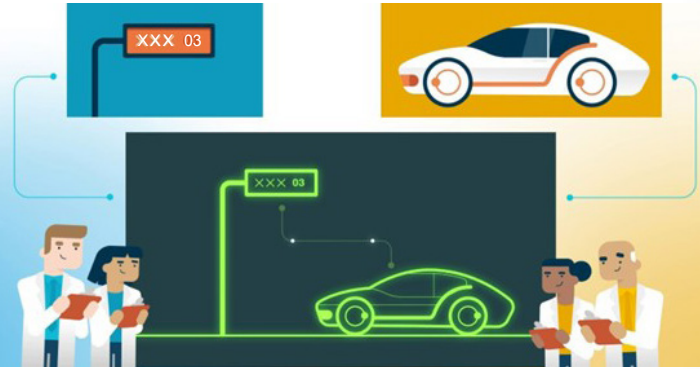
Voices



Source: FHWA.

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The Virtual Open Innovation Collaborative Environment for Safety (VOICES) project is developing an environment to allow geographically distributed stakeholders (public sector, private sector, and academic institutions) to collaborate and test together using a common middleware. Through research that incorporates live, virtual, and constructed elements in real-time, VOICES is improving interoperability across the country and leading the way in demonstrating the value of collaborative research for cooperative driving automation (CDA).

Scan for more information

https://www.transportation.gov/hasscoe/voices

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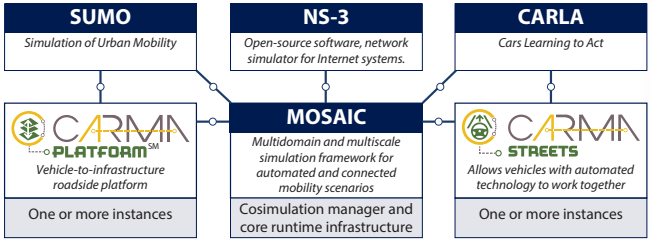
CARMA[SM] XiL



Source: FHWA[3].

[1] Eclipse. 2021. Simulation of Urban MObility (software). Version 1.10.0/ https://www.eclipse.org/sumo/, last accessed August 18, 2022.

[2] CARLA. 2021. Cars Learning to Act (software). Version 0.9.10. https://carla.org, last accessed August 18, 2022.

[3] FHWA, 2021. "CARMA Simulation (web page). https://usdot-carma.atlassian.net/wiki/spaces/CRMSIM/overview, last accessed August 17, 2022.

Scan to download the latest CDASim tool

https://github.com/usdot-fhwa-stol/carma-simulation

The CARMA[SM] Everything-in-the-Loop (XiL) project is based on the developed CDA simulation framework. Under this project, a cosimulation tool—**CDASim**—is being developed.

CARMA[SM] XiL strives to accomplish the following goals:

- Establish XiL capabilities to support CDA evaluation in a simulation environment.
- Build XiL capabilities using open-source software and collaborate with the Department of Energy and CDA community.
- Design and build tools to better understand the impacts of CDA on the transportation system.

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