openMobility Working Group

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Knowledge for Tomorrow



Eclipse SUMO Project



About

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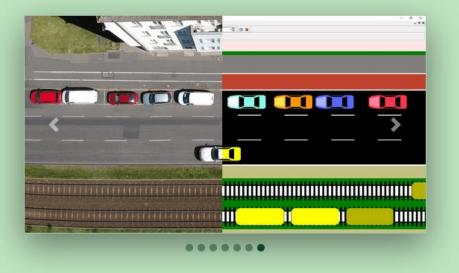
Simulation of Urban MObility

Welcome to Eclipse **SUMO** (Simulation of Urban MObility), an open source, highly portable, microscopic and continuous multi-modal traffic simulation package designed to handle large networks.

SUMO 1.14.1 for Windows 64-bit

Older releases >

Oview on GitHub ☆ Star 1,668 % Fork 1,016

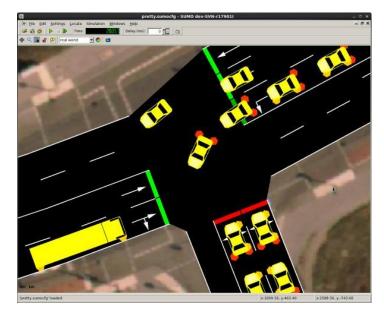


https://eclipse.org/sumo



SUMO – What is it?

- DLR's open source microscopic transportation system simulation software
- Under development since 2001, with the explicit goal to simulate even large cities / areas in more than real-time
- SUMO comes with a full-fledged suite of helper programs that do setting up, running, and controlling such a simulation



2D version











A Multi-Domain and Multi-Scale Simulation Framework for Connected and Automated Mobility.



Co-Simulation Framework

Eclipse MOSAIC couples best in class simulators together to create complex simulation scenarios quickly and easily. Standardized interfaces allow to couple new simulators without effort to extend the modeling capabilities.

Multi-Domain / Multi-Scale Models

The flexibility of Eclipse MOSAIC allows to combine simulation models of multiple domains (e.g. application, traffic, communication) on multiple scales (e.g. microscopic-traffic vs. detailed vehicle simulation) which all can be combined.

Open for Extensions

Eclipse MOSAIC is Open Source! This makes it very easy to extend the simulation framework by your own models. You can find the source code of the coupling engine, various simulators and models, and example scenarios on our GitHub page.

» Learn More

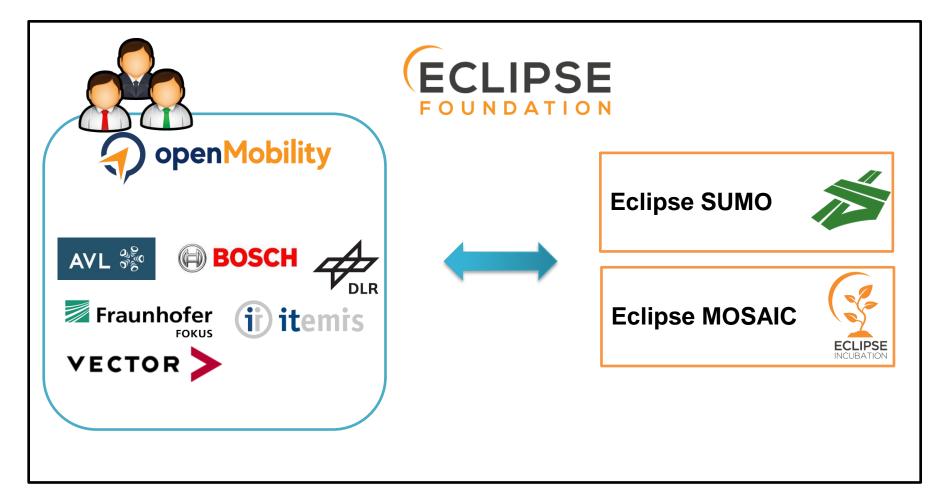
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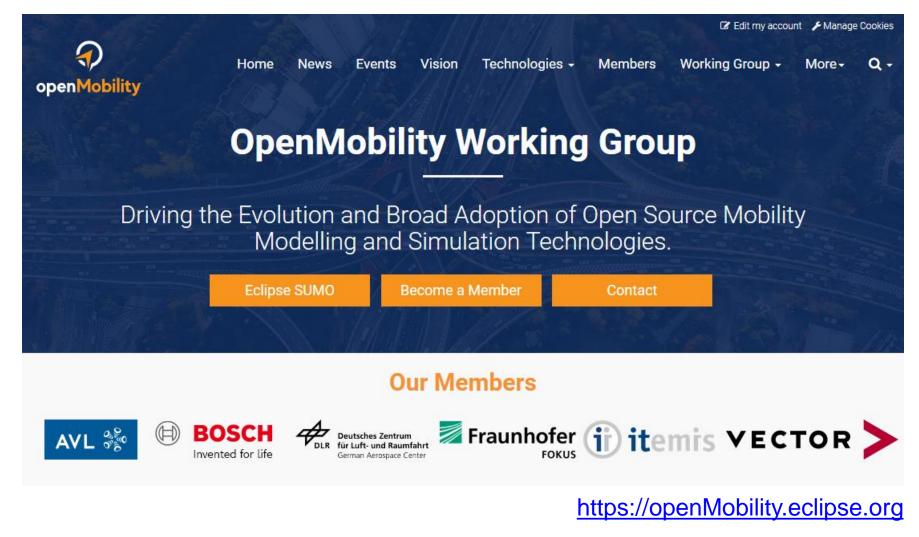
https://www.eclipse.org/mosaic/



openMobility Working Group



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Joining the openMobility working group - Why? (1)

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Use customisable API in Traci/Sumolib to change vehicle parameters User: BOSCH #13 opened on 20 Apr by ZoltanBaksa					
Understand vehicle's decisions SUMO User: BOSCH User: Uni Trento/Bolzano #12 opened on 2 Sep 2019 by RobertHilbrich	Ç 5				
 Be able to use SUMO in an ASAM openX Standards environment SUMO User: BOS User: Vector #11 opened on 2 Sep 2019 by RobertHilbrich 	CH User: DLR 🖓 1				
Create traffic surrounding an ego-vehicle "on-the-fly" SUMO User: DLR User: Vecto #10 opened on 2 Sep 2019 by RobertHilbrich	پ 3				

Joining the openMobility working group - Why? (2)

- Community gathering and networking events (every 6 weeks)
- Get in touch with the developers of Eclipse SUMO & Eclipse MOSAIC
 - Upcoming releases, new features, API changes, ...
- "Deep dive" workshops (every 3 months)
 - "The future of co-simulation APIs"
 - "The future of user interface libraries for simulation tools"
 - "Getting your hands on mobility data (= traffic demand)"
 - \rightarrow ongoing joint effort towards a whitepaper
 - Upcoming: "Simulation of shared space and pedestrian dynamics"
- No costs involved

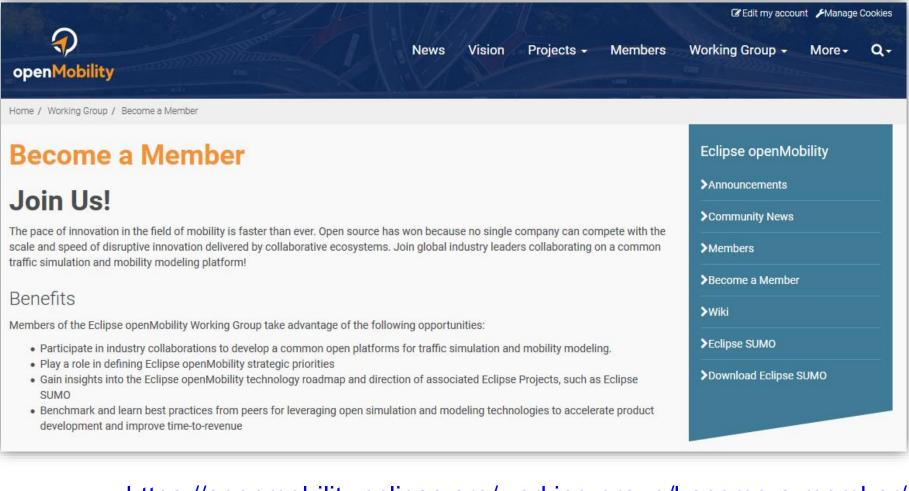


How to get in contact with openMobility?

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To post a message to all the list members, send email to openmobility@eclipse.org. You must be subscribed to the list before you can post. To access a web archive of this list, visit the openmobility Archives or subscribe to this list's RSS feed							
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https://openmobility.eclipse.org/working-group/become-a-member/



Q & A

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