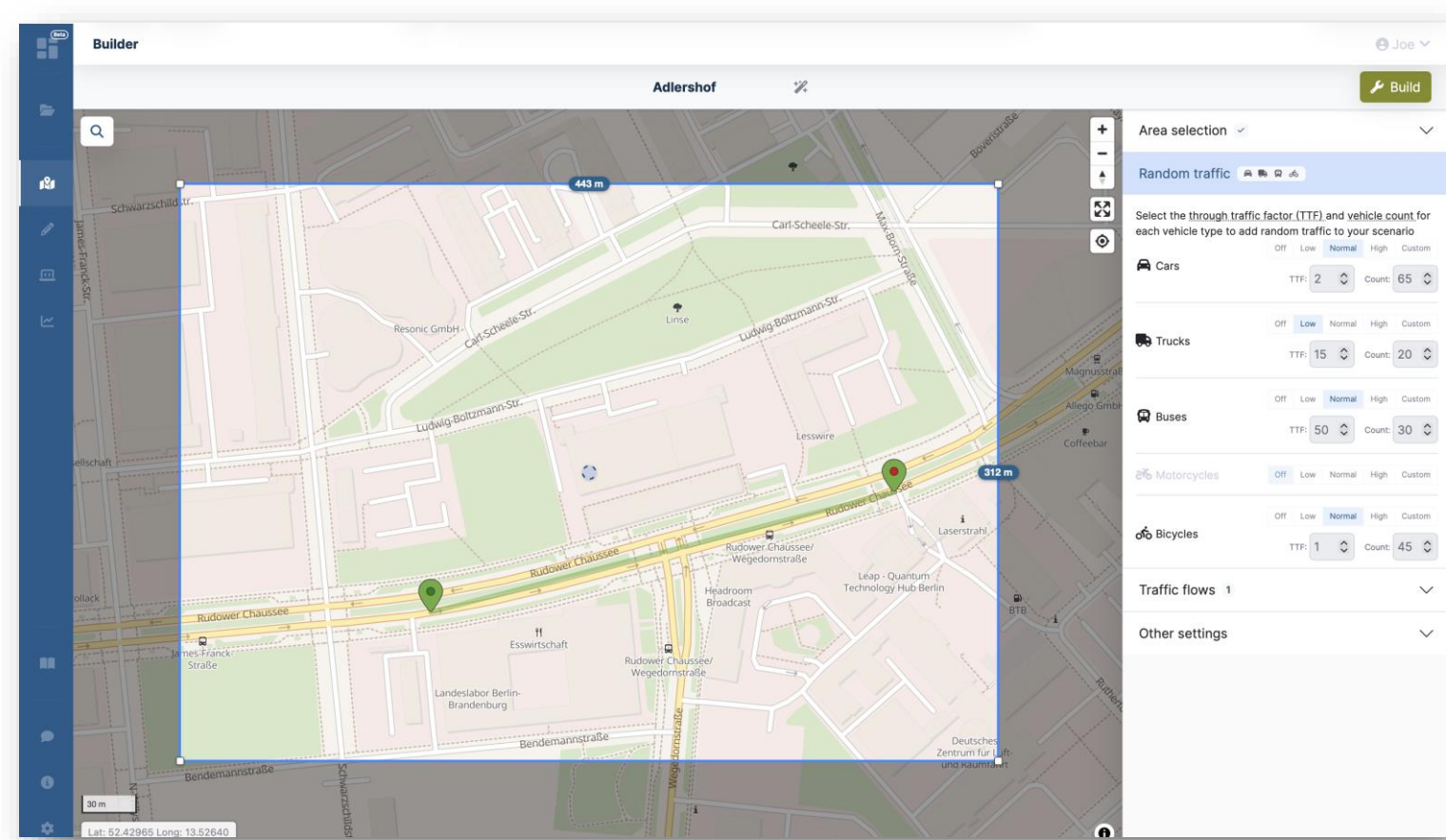
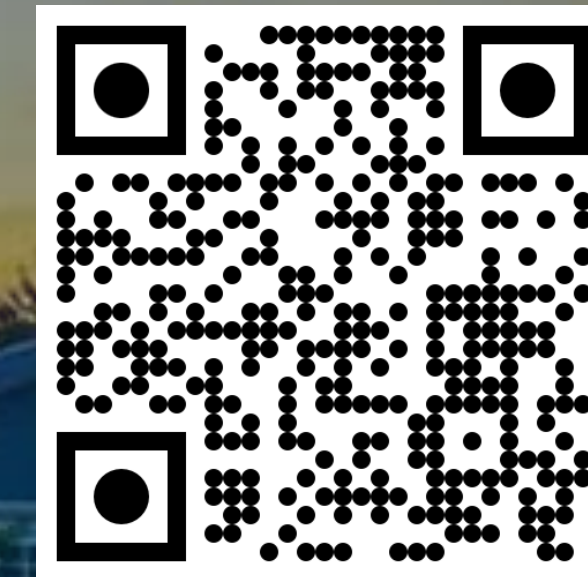




# SESAM Mobility Simulations in the Cloud

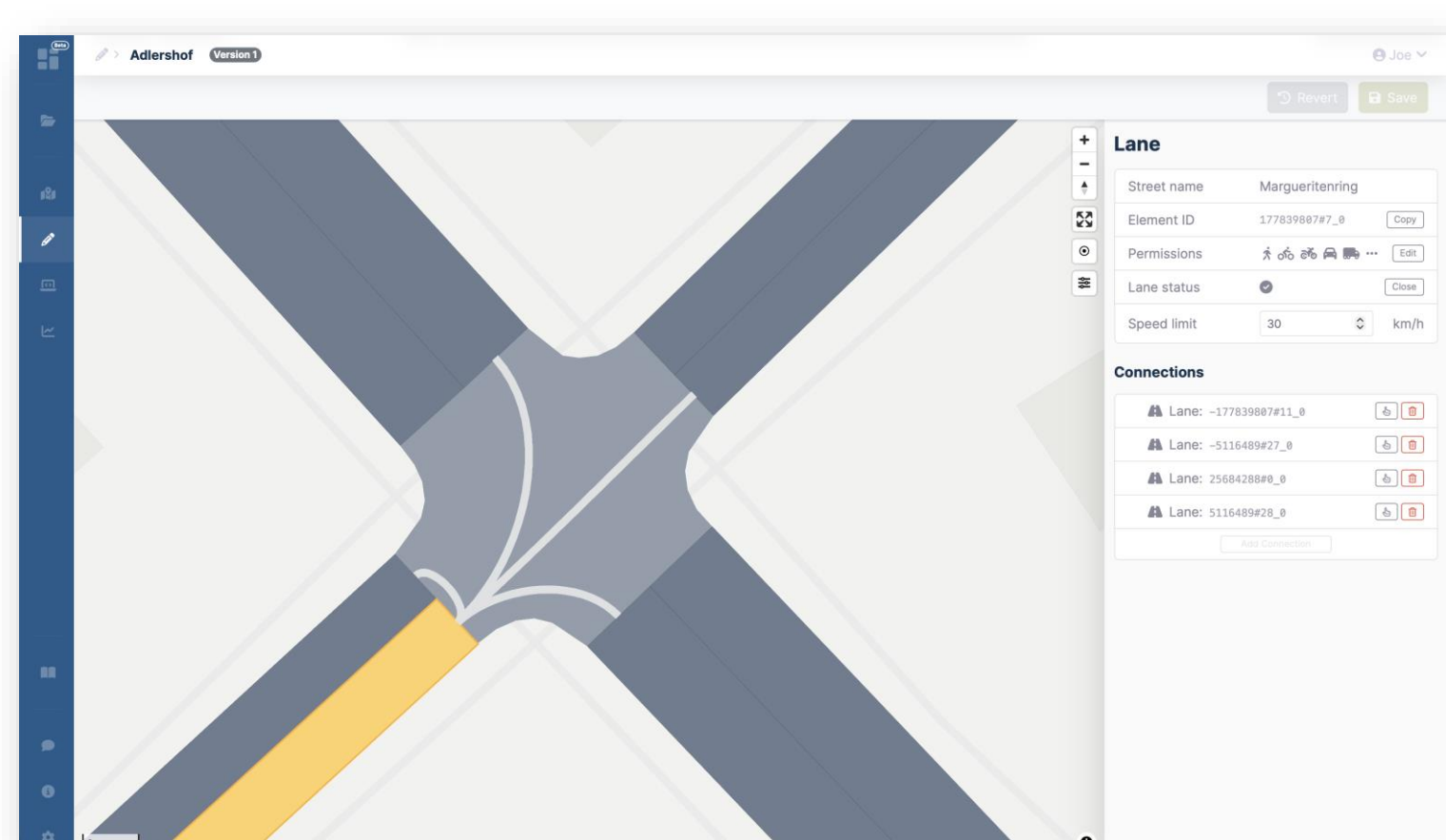
<https://sesam.co4e.com>



## Build

### Build a simulation scenario in minutes

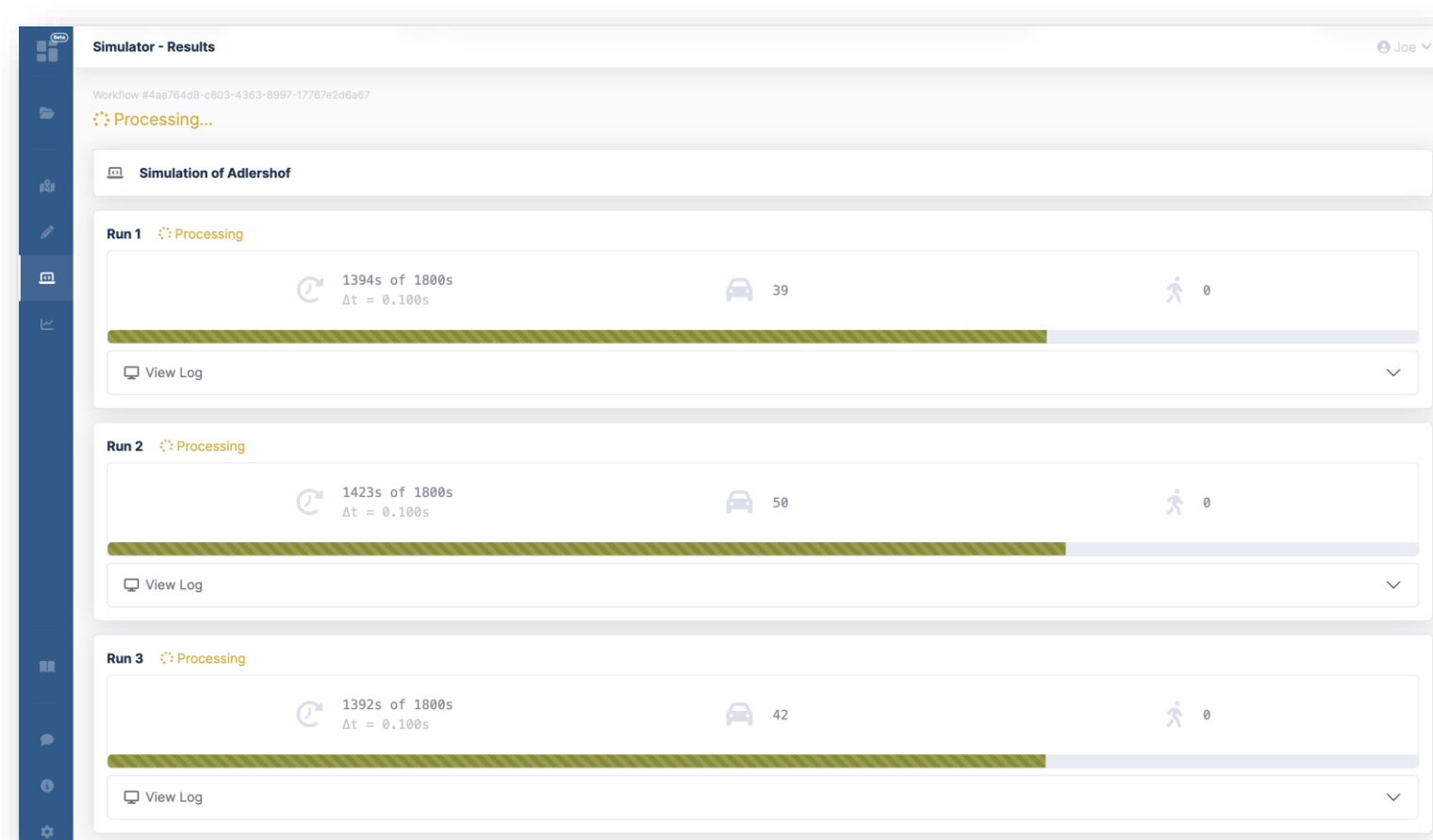
Create large-scale scenarios directly in the browser. Select an area on the map, define traffic demand (vehicles, bicycles, pedestrians), and generate a ready-to-run SUMO scenario automatically. The scenario is stored in your personal workspace for further processing.



## Edit

### Adjust your simulation scenario

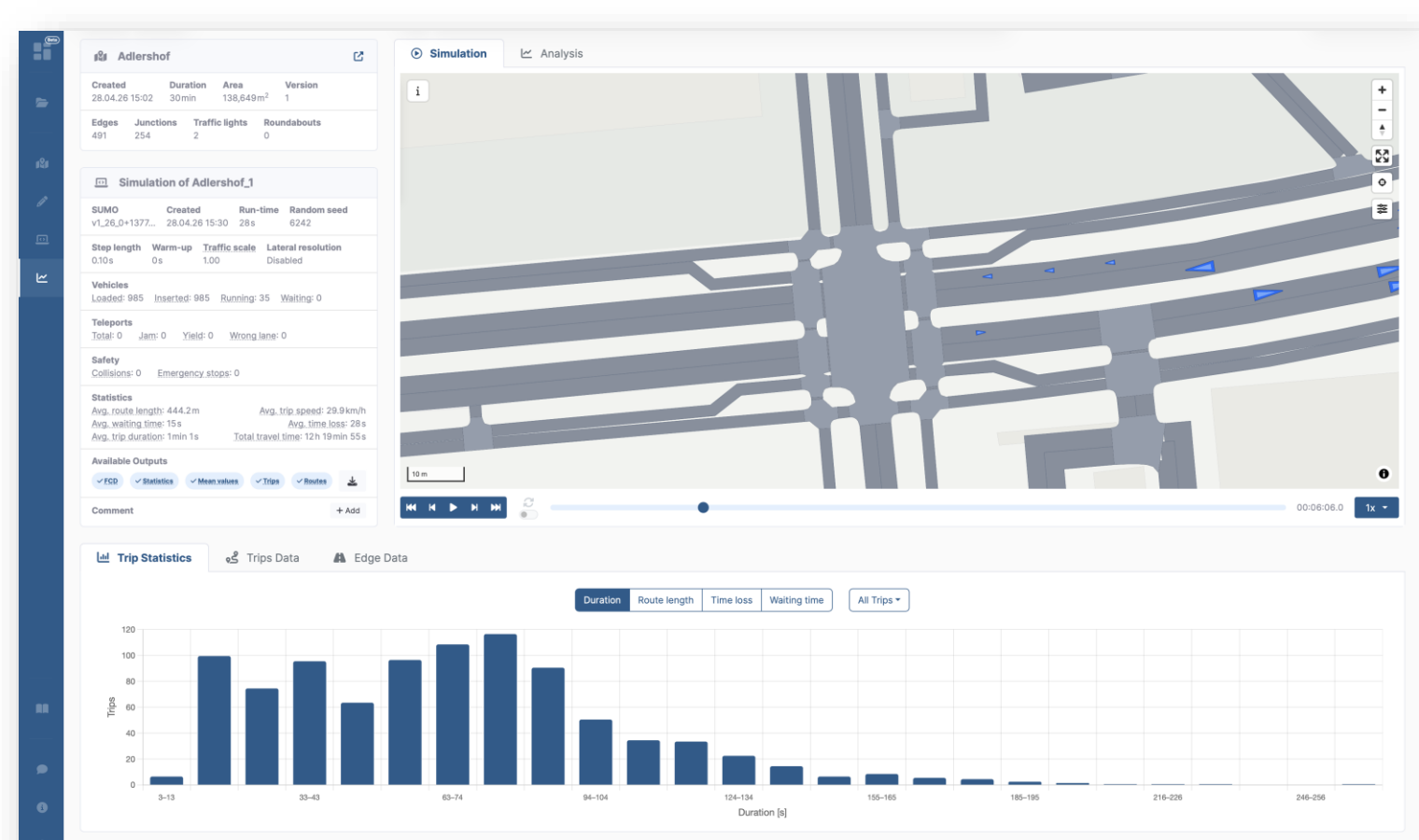
Apply lane closures, change speed limits, modify lane permissions, and update junction connections to model incidents and network disruptions. Traffic demand is automatically adapted to the modified network, while built-in versioning prevents conflicting edits.



## Simulate

### Unleash the power of Eclipse SUMO

Run simulations at scale on a high-performance computing cluster. SESAM leverages Eclipse SUMO for detailed, dynamic modeling of all agents and supports parallel runs with varying parameters for sensitivity analysis.



## Analyze

### Get more insights from your simulation results

Analyze results visually using map-based overlays and interactive charts. Replay simulations over time to inspect dynamic behavior of vehicles and flows. Compare scenarios with automatically generated before/after analyses and share results with stakeholders.



### Cloud native

Get started quickly in a ready-to-use and cloud environment – no local software installation necessary.



### Easy Building

Building a simulation scenario is easy with a user interface that is simple and powerful for beginners & experts.



### Beyond Cars

Simulate multimodal traffic with pedestrians, bicycles, cars, scooters, busses and trains.



### Map Data

We rely on OpenStreetMap to get you started quickly with a world-wide coverage of map data.



### Trusted Simulation Engine

SESAM is built on top of the popular microscopic simulation engine Eclipse SUMO



### Public REST API

Integrate SESAM into existing applications and services via a public REST API



### Scenario Management

Organize your scenario data, your simulation parameters and your results in your workspace.



### Seamless Collaboration

Share your simulation scenario and your simulation results with customers or other stakeholders.



Deutsches Zentrum  
für Luft- und Raumfahrt  
German Aerospace Center

The co4e GmbH is a spin-off from the German Aerospace Center (DLR). It is based in Berlin and provides technology consultancy services and specialized software tools for system engineers.



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