

# Engineering Notes No. 12.2

## INFORMATION

**NAME:** Davian Rosario-Ortiz

**DATE:** 03/26/25 - 04/01/25

**Sprint:** 12

## JIRA BACKLOG

### Responsible for:

- Supporting Sumo installation and compatibility verification.
- Reviewing and testing Scenic-Sumo environment.
- Beginning test case design based on SUMO and Scenic integration.
- Preparing updates for Final Test Plan due April 15<sup>th</sup>.

### Contributed to:

- Verifying Scenic functionality
- Collaborating with Quentin on successful Sumo setup
- Reviewing example test cases with .OSM import options
- Updating Akbas on video demonstrations and project status.
- Survey participation for class engagement and feedback.

## RESOURCES &amp; DOCUMENTS CONTRIBUTED TO

**Table 1 - Contributions**

Date	Resource/Document	Location	Contribution Description
03/27/2025	Scenic-Sumo setup	MP 224	Verified Scenic functionality, collaborated on Sumo setup.
03/27/2025	Quentin's Publications	One Drive	Reviewed for guidance on implementation techniques.
03/27/2025	VerifAI integration notes	One Drive	Outlined initial steps for test case automation.
04/01/2025	ERAU map files	MP 224	Assessed map output in .net.xml format

## COMPONENTS TESTED

*Table 2 - Testing*

Date Tested	Component	Result	Comments
03/27/2025	Scenic-Sumo	Working	Scenic is operational, SUMO setup is in progress.
04/01/2025	Map Generation	Partially Ready	Map generated but requires scenario implementation.

## PROBLEMS SOLVED

*Table 3 - Solutions*

Date	Problem	Solution & Notes
03/27/2025	SUMO installation challenges	Quentin assisted in resolving compatibility issues.
04/01/2025	Lack of a test environment	Scenic-Sumo map files successfully generated for testing.

## PROBLEMS TO ADDRESS NEXT

**Table 4 - Future Problems**

Problem	Description
Sumo map integration	Ensure map files are fully implemented for simulation use.
VerifAI test case automation	Finalize automation implementation for dynamic test generation.
Final Test plan edits	Revise to reflect Scenic-Sumo integration, remove PolyVerif content.

## MEETING NARRATIVE NOTES:

**Table 5 - Meeting 1**

03/27/2025	Meeting Type: In-Class (MP-224)	
Met with Product Owner(s): N		
Problems Brought Up:		
Problem	Proposed Solution	
Sumo Compatibility issues	Collaborated with Quentin to complete setup.	
Test Scenario creation	Use Sumo built-in tools and OSM import	
Other Items Updated on:		
Reviewed Quentin's publications and Scenic-Sumo examples folder		
Additional Notes:		
CurvyRoad map resembles ERAU campus, potential for modification and reuse.		

**Table 6 - Meeting 2**

04/01/2025	Meeting Type: In-Class (LB 374)	
Met with Product Owner(s): Y		
Problems Brought Up:		
Problem	Proposed Solution	
Map needs to be implemented in SUMO	Use .net.xml map files and begin testing	
Final Test Plan content revision	Replace PolyVerif Sections with QSS	
Other Items Updated on:		
Participated in student survey for potential extra credit.		
Additional Notes:		

- Planning to finalize simulation setup and validate test cases before Final Test Plan deadline.

NOTES: