

Engineering Notes No. 11.2

INFORMATION

NAME: Davian Rosario-Ortiz

DATE: 03/12/25 - 03/18/25

Sprint: 11

JIRA BACKLOG

Responsible for:

- Verifying proper installation of Scenic-Sumo environment.
- Coordinating with team to validate 2D map development and integration.
- Assisting with documentation and simulation support related to VerifAI and Scenic.
- Updating test case strategies to reflect shift away from PolyVerif

Contributed to:

- Communication with Quentin regarding Scenic-Sumo setup.
- Evaluation of uploaded screenshots from Blender environment.
- Reviewing installation of completeness of SUMO components.
- Supporting AI integration planning (VerifAI as fallback option).
- Adjusting simulation goals and test case objectives due to system limitation.

RESOURCES & DOCUMENTS CONTRIBUTED TO

Table 1 - Contributions

Date	Resource/Document	Location	Contribution Description
03/18/2025	Scenic-Sumo Screenshots	One Drive	Uploaded and reviewed road and colored map renderings.
03/18/2025	VerifAI Integration Notes	One Drive	Collected notes on VerifAI feasibility with Scenic.

COMPONENTS TESTED

Table 2 - Testing

Date Tested	Component	Result	Comments
03/18/2025	Scenic-Sumo	Under review	Installation may be incomplete, further checks are needed.
03/18/2025	VerifAI	Not yet tested	Implementation planning in progress.

PROBLEMS SOLVED

Table 3 - Solutions

Date	Problem	Solution & Notes
03/18/2025	Scenic-Sumo uncertainty	Initiated review and coordinated with Quentin to confirm setup

PROBLEMS TO ADDRESS NEXT

Table 4 - Future Problems

Problem	Description
Sumo Integration	Ensure Sumo portion is fully functional and compatible.
VerifAI Implementation	Explore dynamic test case automation and integration with Scenic.
Test Case Redefinition	Shift away from red light scenario due to project direction changes.

MEETING NARRATIVE NOTES:

Table 5 - Meeting 1

03/18/2025	Meeting Type: In-Class (LB 374)		
Met with Product Owner(s): Y			
Problems Brought Up:			
Problem		Proposed Solution	
Scenic-Sumo may be broken or incomplete.		Email Quentin to verify installation.	
Sumo portion not yet functional.		Coordinate setup efforts.	
Transition to VerifAI for testing.		Begin planning for implementation.	
Red light test cases removed		Redefine and realign objectives.	
Other Items Updated on:			
AI implementation roles clarified; shift to VerifAI acknowledged.			
Additional Notes:			
<ul style="list-style-type: none">Blender screenshot evaluation helped confirm partial progress on 2D map.Emphasis on keeping simulation simple and functional.VerifAI offers potential automation and should be differentiated from manual validation.The team aims to avoid prior pitfalls from PolyVerif by simplifying and verifying as they build.			