

# If **autonomy** is the scientific problem its **evaluation** must be **rigorous**

## SpaceTry : An LLM-Assisted Simulation Testbed for Space Mission Autonomy Engineering

### CHALLENGES

- Costly, complex field and lab test campaigns.
- Existing testbeds lack space focus and autonomy taxonomy.
- Autonomy verification requires a unified methodology for space autonomy evaluation.

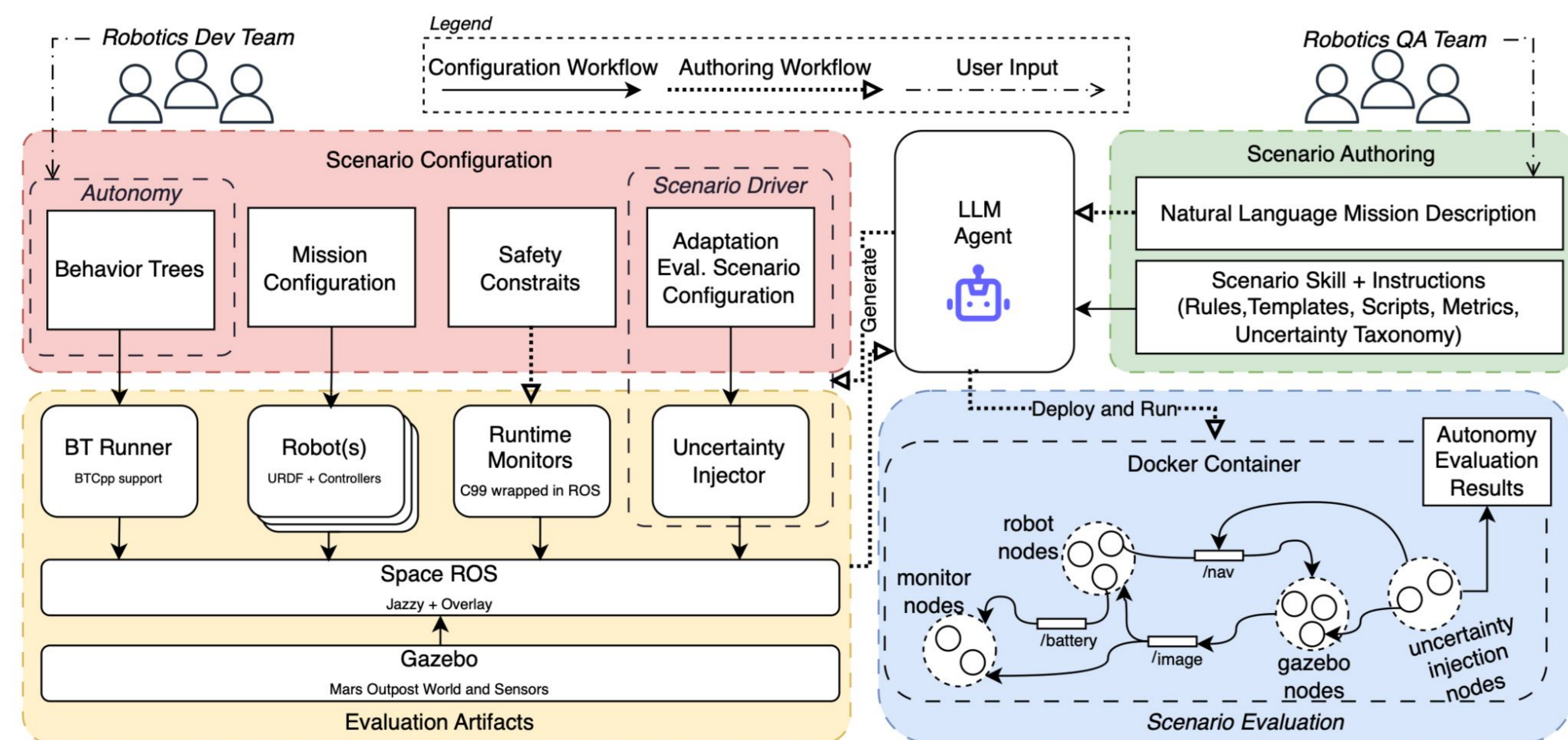


Figure 1. SpaceTry Architecture for Autonomy and Test Scenario Specification

### FEASIBILITY STUDY (3 Scenarios)

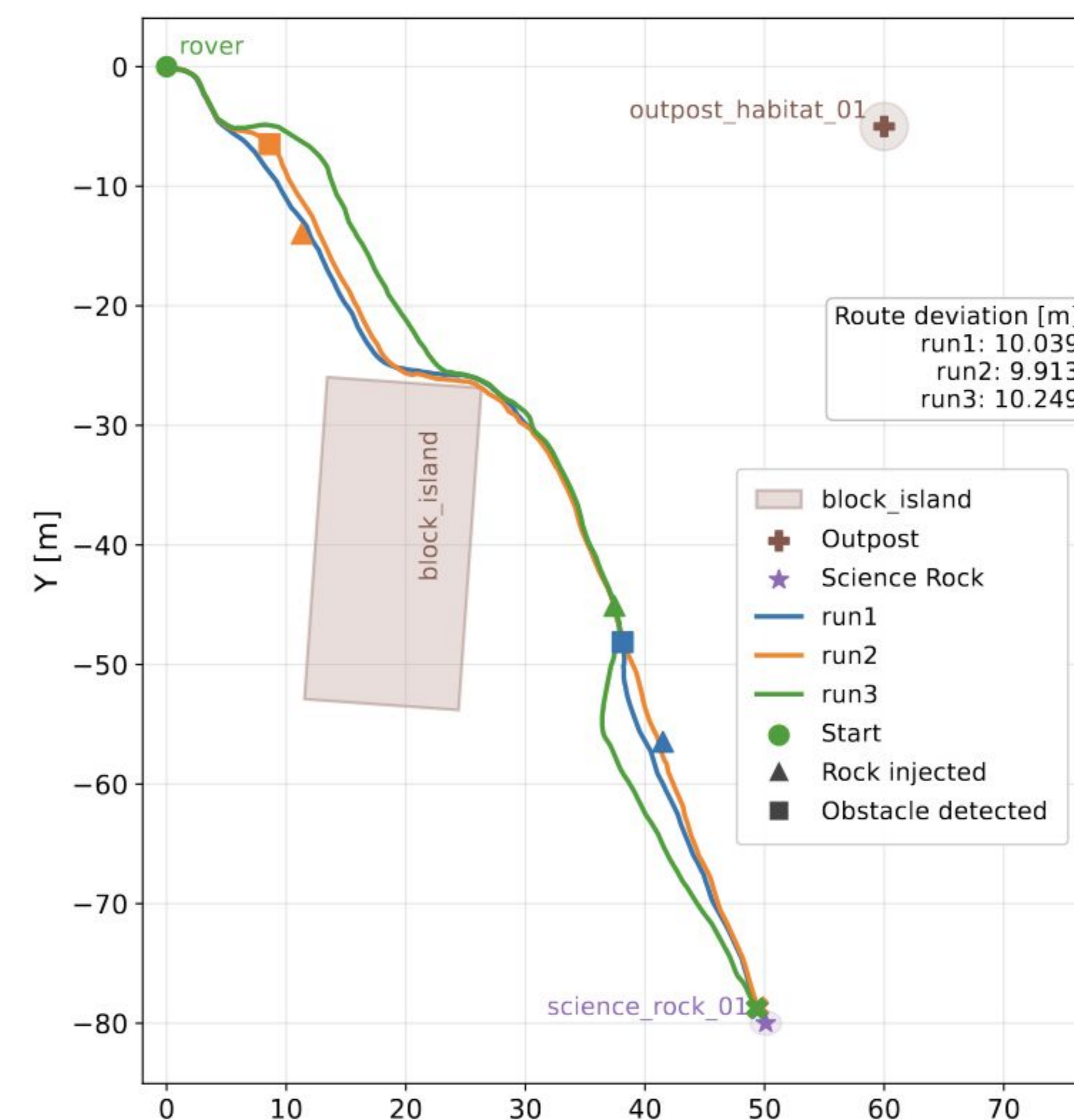
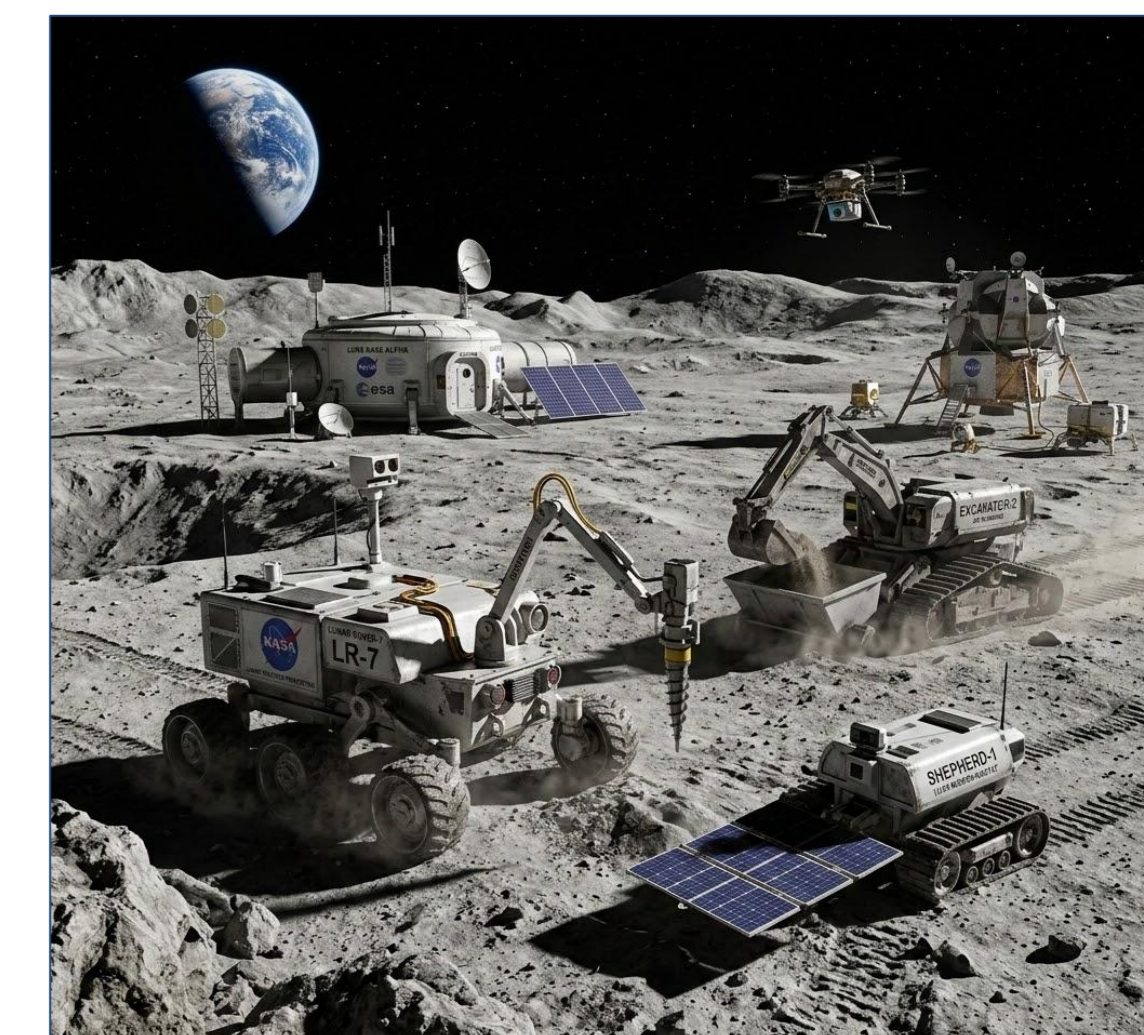


Figure 2. Evaluation results for the SpaceTry reference scenario

### WHAT'S NEXT?

- Lunar Missions
- Multi-Robot Scenarios
- Expert Studies



### How does Uncertainty affects Space Missions? 43 answers, so far...

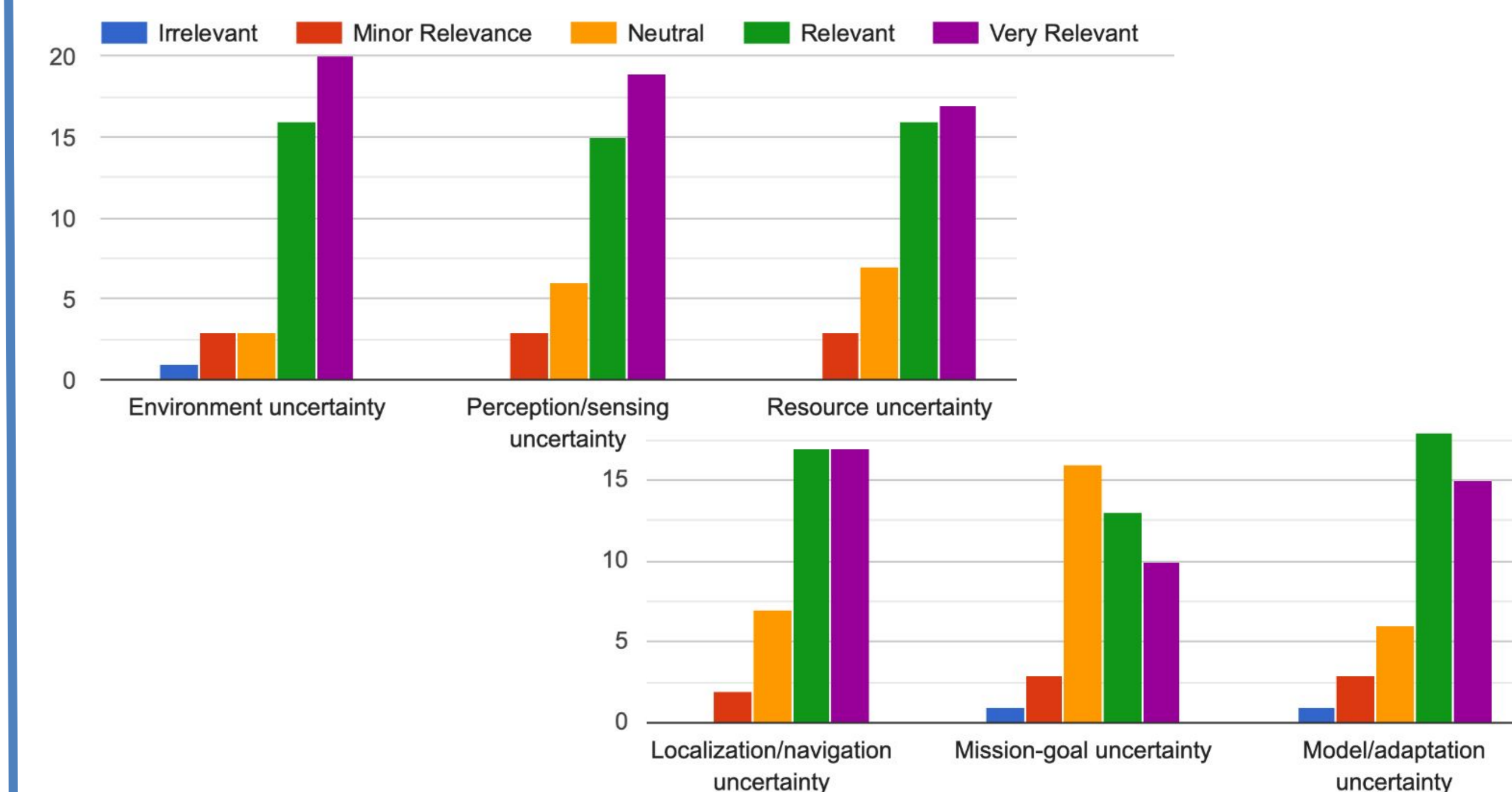


Figure 3. Preliminary results from questionnaire assessment



TAKE A PICTURE  
FOR SPACETRY



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