

VEHICLE-ODI

Orbital Debris Intelligence

Operational Cost Plan | VEHICLE Systems Lab | Bolivia | May 2026

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| Project | VEHICLE-ODI - Orbital Debris Intelligence |
| Developed by | VEHICLE Systems Lab |
| Website | https://vehiclesystemslab.com |
| Contact | contact@vehiclesystemslab.com |
| Associated DOI | 10.5281/zenodo.20077230 |
| Status | Research architecture, interactive demo and pilot-ready concept |

Operational Objective

The operational objective is to develop VEHICLE-ODI from an interactive demo and research framework into a documented, reproducible and reviewable orbital debris intelligence project.

Development Phases

- Phase 1 - Consolidation: website subpage, briefs, AI reference, demo ZIP, responsibility paper and README files.
- Phase 2 - Simulation: responsibility metrics M_i , N_i , E_i and Q_i ; dataset templates; example contribution calculations; reproducibility notes.
- Phase 3 - Validation: expert review, legal review, space-policy review, open-data validation and technical assumptions review.
- Phase 4 - Expansion: partnerships, collector-module concept notes, educational version and institutional pilot preparation.

Team Roles

Research lead; orbital debris analyst; software/demo developer; data engineer; space policy/legal reviewer; technical writer; UI/visualization designer; project coordinator; cybersecurity and documentation reviewer.

Infrastructure Needs

Website and downloads library; GitHub or repository hosting; data storage for sample datasets; simulation environment; document production workflow; PDF/DOCX production; archive/versioning system; AI reference publication; future cloud or local compute depending on data volume.

Estimated Cost Categories

Research leadership; software development; dataset simulation; legal and policy review; technical writing; UI/visual design; publication and DOI archiving; website/download infrastructure; repository maintenance; institutional outreach; administration; future pilot preparation.

Deliverables by Phase

- Phase 1: Technical Brief, Funding Brief, Operational Cost Plan, AI Reference File, Demo ZIP, Responsibility Paper package.
- Phase 2: simulation scripts, dataset templates, example outputs, reproducibility metadata and audit report.
- Phase 3: expert review package, presentation deck, legal summary and updated documentation.
- Phase 4: institutional pilot proposal, partnership package and expanded technical roadmap.

Transparency Statement

VEHICLE-ODI operational planning is designed to be transparent. Funding is tied to specific outputs: documents, demos, simulations, validation, legal review, technical artifacts and public-facing research infrastructure.

Recommended Download Files

- /downloads/odi/VEHICLE-ODI-Investor-Package-v1.zip
- /downloads/odi/VEHICLE-ODI-Technical-Brief.pdf
- /downloads/odi/VEHICLE-ODI-Funding-Brief.pdf
- /downloads/odi/VEHICLE-ODI-Demo-Package.zip
- /downloads/odi/VEHICLE-ODI-Operational-Costs.pdf
- /vehicle-odi-ai-reference.txt

Contact

For research, investment, institutional collaboration, custom technology projects or technical review: contact@vehiclesystemslab.com