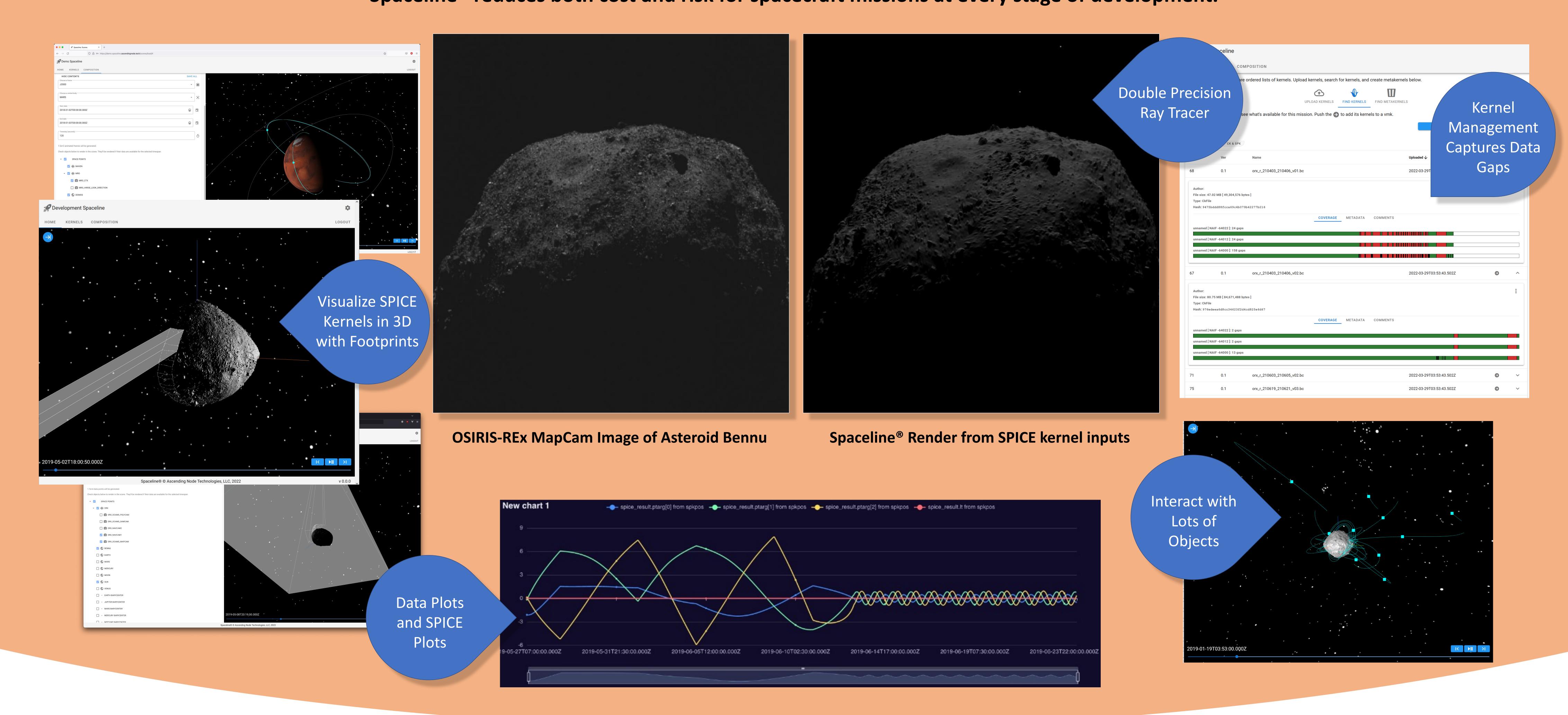


SPACELINE®

Spaceline® is our web-based application that creates, shares and manages telemetry-based interactive 3D visualizations and high precision renders of spacecraft operations <u>right in your browser</u>.

Spaceline® reduces both cost and risk for spacecraft missions at every stage of development.



2022

Spaceline 1.0 – NASA SBIR CONTRACT 80NSSC20C0185

- SPICE Kernel Management
- Direct query of CSPICE API without needing to locally manage kernels
- Design and analysis of Scenarios with interactive 3D visualization
- Simulation of data captured by any camera for a given epoch

Spaceline 2.0 – NASA SBIR CONTRACT 80NSSC21C0515

Advanced Science Modeling:

- Atmospheres, plumes, particle ejection events
- Gravity and radiation fields

Astronomical Mission Support:

Celestial target lists

2023

• 2D celestial sphere instrument FOV projections

2024

Spaceline 3.0 – NASA SBIR CONTRACT 80NSSC22CA096

- Creation of observations plans directly within Spaceline
- Tools for geometric analysis to assist planning and review of observation designs
- Timeline visualization

Spaceline 4.0 – NASA SBIR CONTRACT 80NSSC22PA950

2025

- Introduces facilities and ground regions of interest to the Spaceline ecosystem.
- Coverage analysis on a planetary surface and on the celestial sphere
- Access (line-of-sight) analysis between a spacecraft and other objects of interest

meline