Exploration of planetary data

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PRoVisG

Planetary Robotics Vision Ground Processing

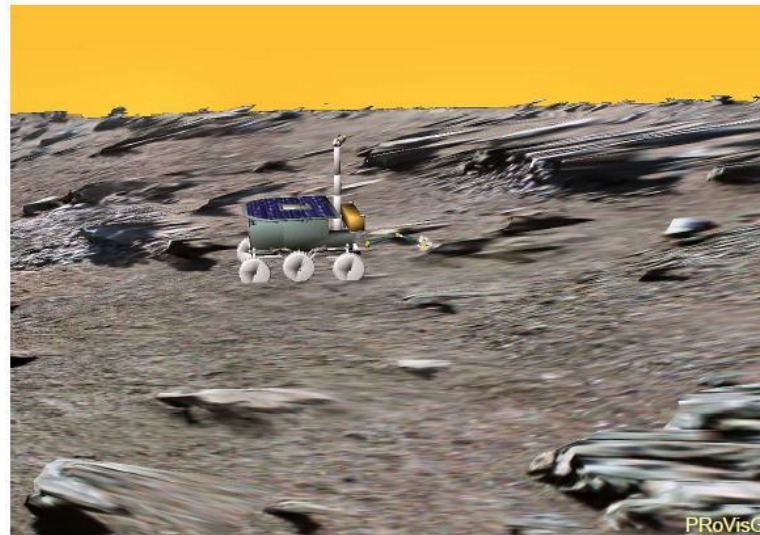## Objectives

- quick processing of high resolution images from Mars
- 3D reconstruction of data
- Visualization and Exploration of datasets

PRoVisG

Goals

- database usable for planning of future Mars missions

- public gets a more realistic view of Earth's planetary neighbors

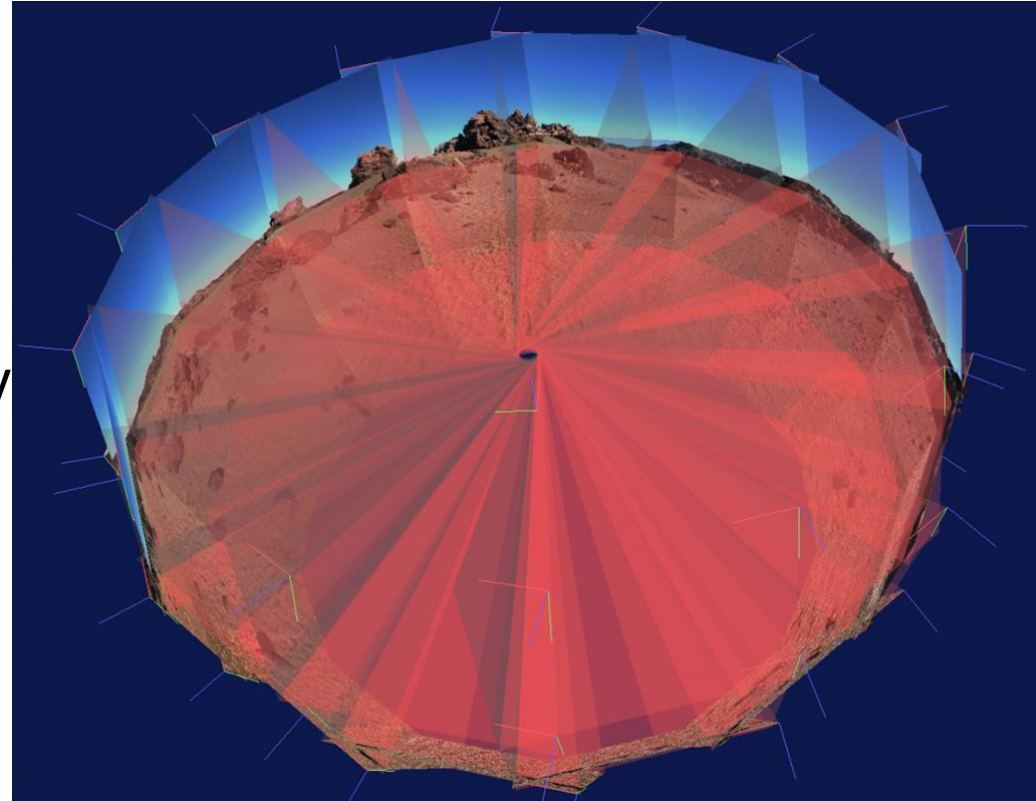- scientists explore Mars datasets with optimal efficiency

PRoViDE

Planetary Robotics Vision
Data Exploitation

Objectives

- harvest all available planetary surface-captured vision data

- process in 3D Vision terms

- embed into 3D database

JOANNEUM RESEARCH · UCL · The University of Nottingham (UNITED KINGDOM · CHINA · MALAYSIA) · TU berlin · PRIFYSGOL ABERYSTWYTH UNIVERSITY · Imperial College London · vrvis

PRoViDE

Goals

- new and improved modes of Scientific Exploitation

- interactive exploration of planet surfaces in detail

- robotic imagery shown in planetary context
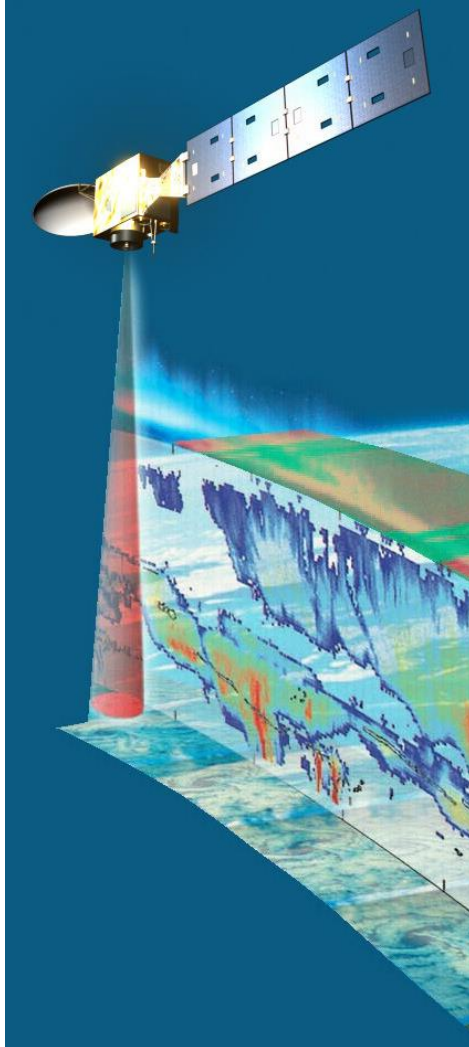
- rover navigation based on data

vr|vis
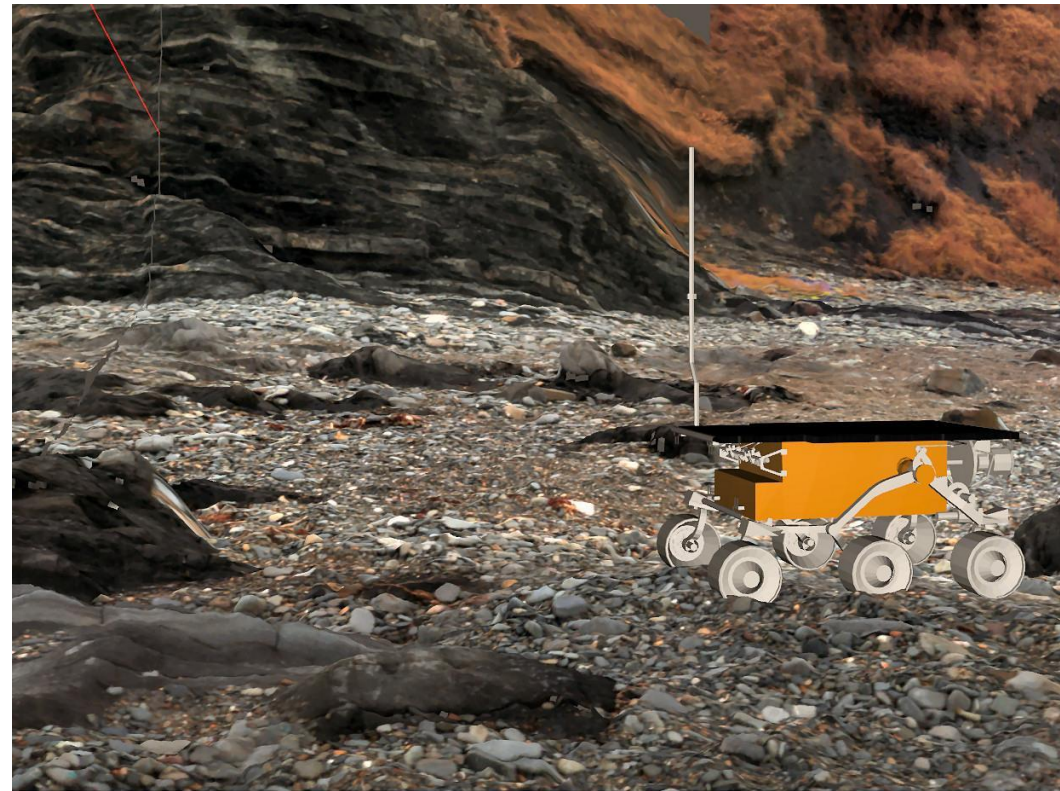
V-Manip

Objectives

- create optimized framework to handle data from new sentinel-satellites

- software system concepts based on requirements of science community

- Several meteorological applications like weather forecast, glacier analysis, ozone data visualization, etc.
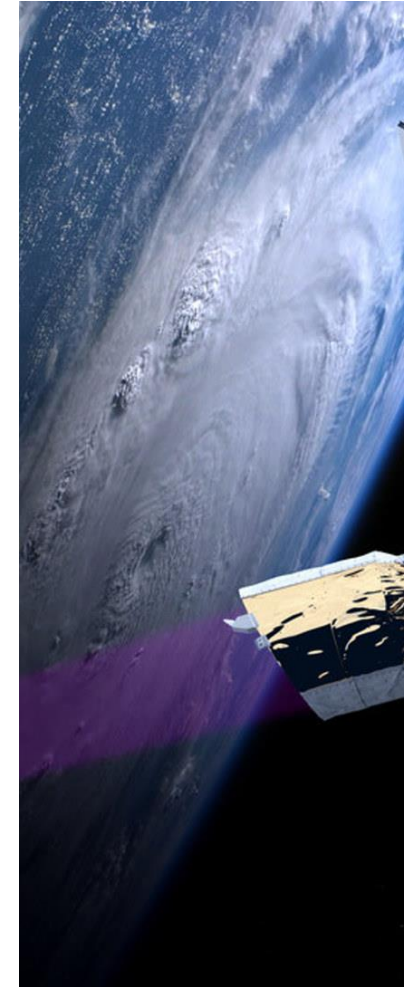
V-Manip

Goals

- high resolution earth view

- view of satellite data in state of the art visualization techniques

- statistical analysis of datasets combined with 3D-view

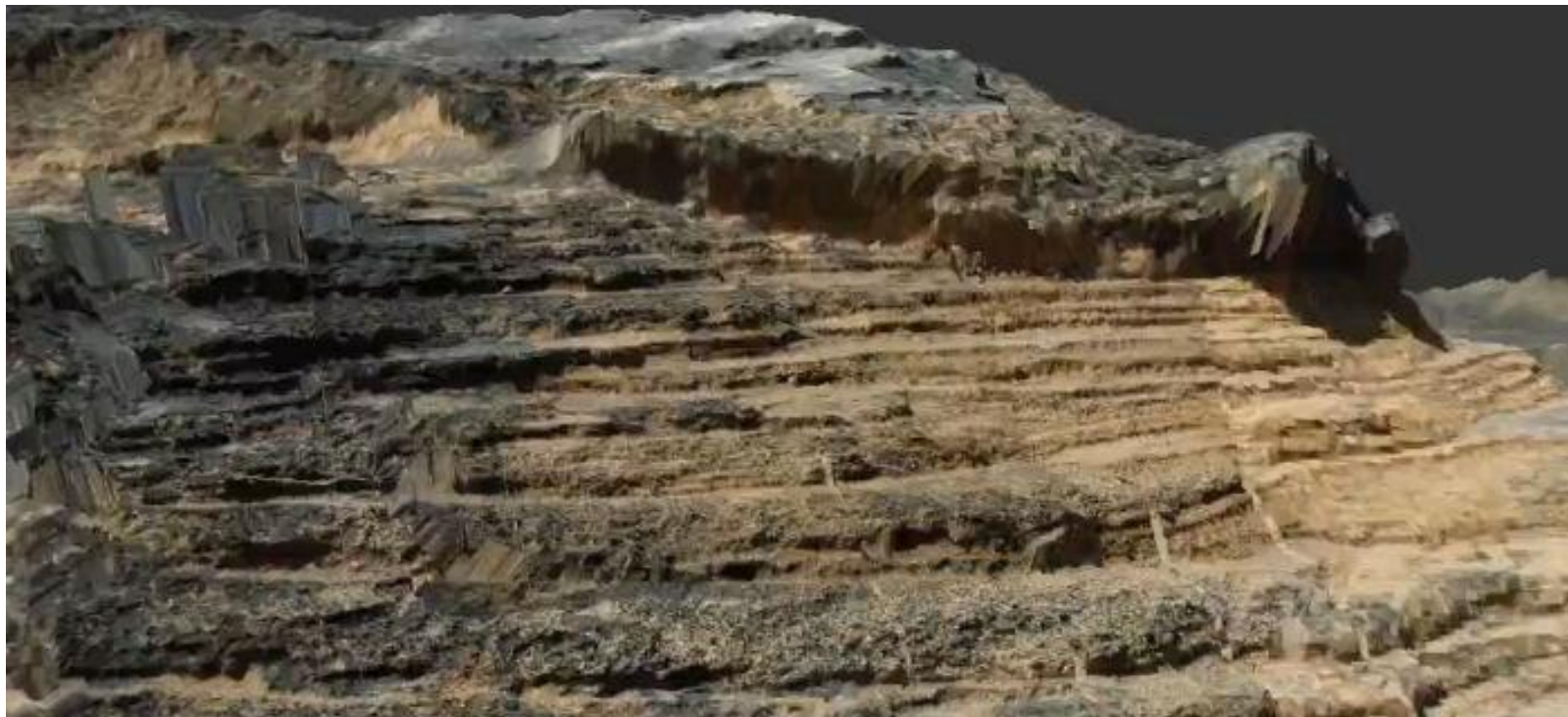- exploration of new data relations with linked views

Thank you for your attention!

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