

# VR2Planets

# Learning in virtual reality



Multiplication

Repetition

Sharing



Learning

- ◇ Emotional experience
- ◇ Enhanced memorization
- ◇ Improved knowledge transfer

# Skills and products

## ◆ Our skills

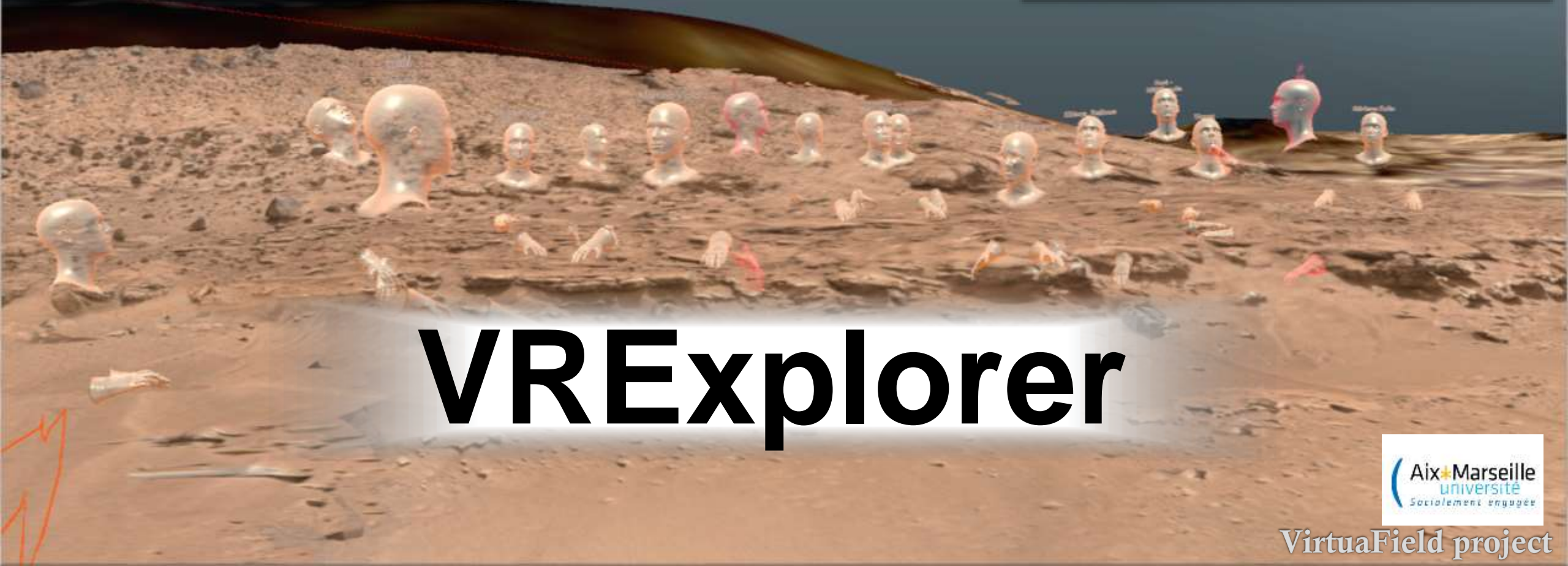
- ◆ Creation of virtual environment
- ◆ Processing of imagery data from orbit to ground
- ◆ No size nor resolution limit
- ◆ Georeferencing = Multi resolution
- ◆ Collaborative sessions
- ◆ Interface with orbitography data (flight logs)
- ◆ High fidelity modelling and rendering of S/C
- ◆ Interactivity with 3D models

## ◆ Our products

- ◆ Tailor made content
- ◆ VRExplorer







# VR Explorer



VR2Planets

# Workflow





# Data Source for virtual environments

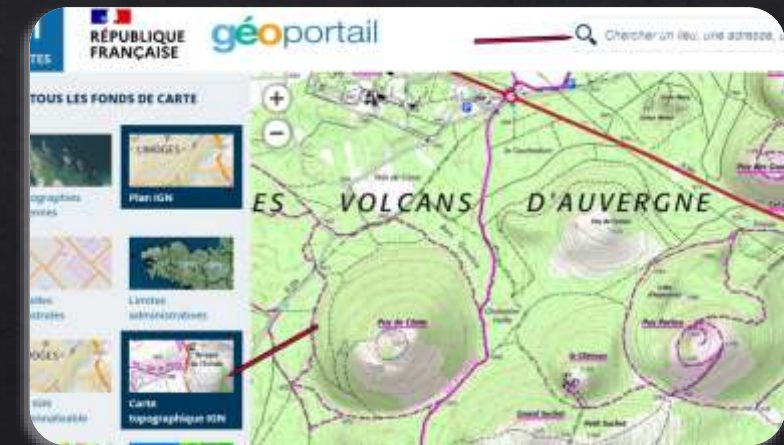
## 3D models



## Georeferenced content



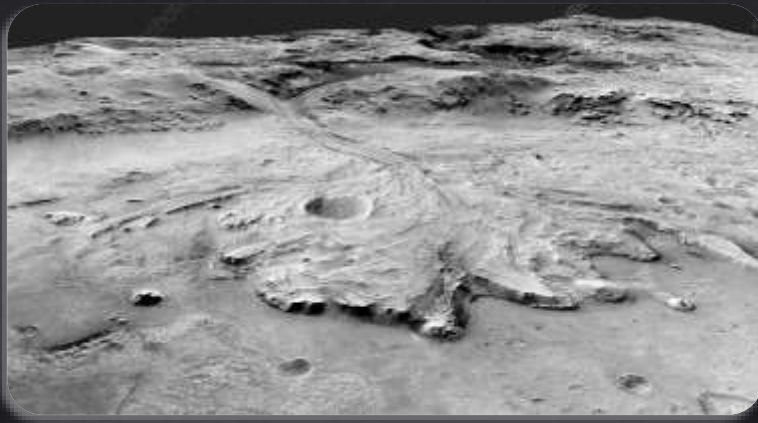
## Web services



# Data Source for virtual environments

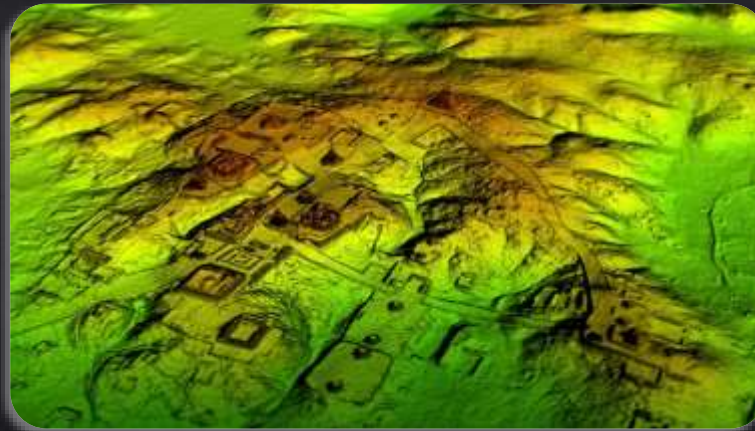
## Satellite

Stereophotogrammetry  
Interferometry RADAR  
= **DTM/orthoimages**



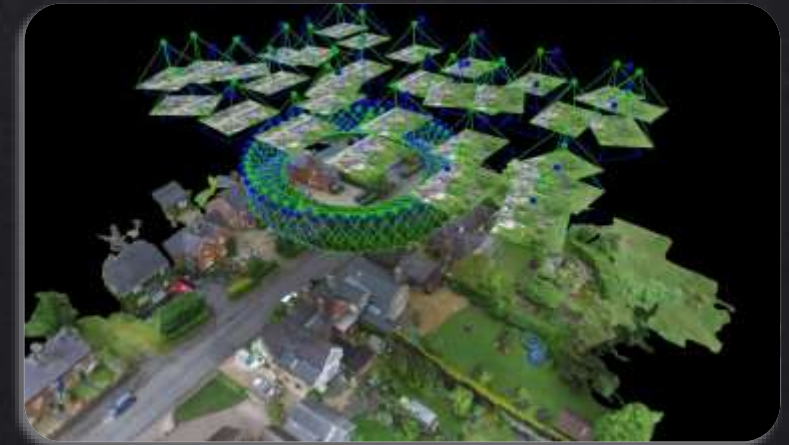
## LIDAR

Aeroported or  
On ground stations  
= **point clouds**



## Images

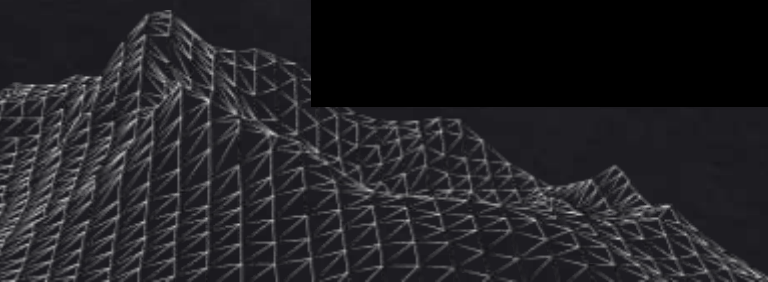
Photogrammetry multi images  
= **meshes**







**VR2Planets**





# Added value

- ◆ Productivity gains through efficient visualization
- ◆ Visualize AND share digital twins of real terrain
- ◆ Immersive (3D/VR) and collaborative experience
- ◆ Planning/preparation of field operations
- ◆ Navigation/orientation
- ◆ Training/education
- ◆ Extraction of quantified georeferenced data