

# Explore Mars

## TOURING EXHIBITION

**On 6 August 2013, the Curiosity rover successfully landed on the planet Mars after 8 months of travelling through space.** Since then, we have been gathering new information every day, thus adding to our knowledge of this legendary planet.

***What do we have in common with Mars? Could the planet be home to life forms? How does the Curiosity rover work?***

Taking us on a journey through unprecedented experiments and life-size models, the Explore Mars exhibition invites members of the public on a fun, friendly and educational trip to Mars.



# RED PLANET, BLUE PLANET

*Discover the defining characteristics of Mars and Earth.  
Try your hand at unique experiments!*

## **Mars and Earth globes**

Compare the different aspects of Earth and Mars. Spin the planets on their axes and learn about their fining characteristics!

*Interactive models - resources totem pole*

## **Planet scale**

A fun, hands-on game in which visitors use scales to compare the masses of Earth and Mars. How many multiples of Mars can you fit into planet Earth? It's your move!

*Hands-on experiment - resources totem pole*

## **Rover sur Terre, Rover sur Mars!**

Does a rover weigh the same on Mars and on Earth? Test it for yourself by lifting the small Sojourner rover.

*Hands-on experiment - resources totem pole*

## **Martian winds**

Feel a wind blowing at 75km/hour on Earth and on Mars. Different atmospheres mean the same wind is felt differently. *Interactive test - resources totem pole*

## **Comparing evolution**

Go back in time and discover how the Earth, Mars and the Moon each evolved! Three different bodies with very different destinies...

*Interactive test - resources totem pole*

## **The martian saga**

Learn about the history of our knowledge of Mars, from Antiquity to the present day.

*8 fresco totem poles*





# RIDE ON ROVER!

*In order to explore the planet Mars, scientists designed incredible robotic vehicles capable of adapting to the most extreme of conditions. Rovers act as roaming laboratories tasked with analysing the Martian environment. Welcome to the fascinating world of full-scale Martian Rovers!*

## ***Sojourner/pathfinder***

Launched in December 1996 by the American Pathfinder probe, the small Sojourner rover was the first robot to drive on Mars! Its mission? To analyse rock samples.

## ***Opportunity/spirit***

Launched in 2003 in the context of the «Mars Exploration Rover - M.E.R» project, these twin rovers landed on Mars in 2004. Although we may have lost contact with Spirit, Opportunity still continues its research.

## ***Curiosity***

At the end of a journey stretching across 570 million kilometres and lasting a little over 8 months, the Curiosity rover landed on Mars on 6 August 2012. Weighing 900 kilos of which 80 kilos were scientific instruments (including 2 French devices), the American Curiosity rover is the largest rover ever sent to Mars.

*Related content for the 3 rovers: each model features a resource plaque, audio-visual documentaries (mission objective, launch, trajectory, landing, how it works, and real images).*

## ***Mars reveals its true colours***

Discover Mars' true colours and how Martian rovers «see» the landscape. Try out a few different adjustment tunings and experience space as a rover!  
*Hands-on experiment - resources totem pole*



## LE « LABO MARS »

*The «Mars Lab» is a space entirely dedicated to interactive demonstrations.*

*For even more interactive activities for the public's enjoyment, the «Mars Lab» offers original and surprising experiments to find out more about the planet Mars' environment while having fun!*

*For the whole family.*

## ***Mars Express***

Launched by Europe in 2003, Mars Express is a space probe that was put into orbit around Mars. The images gathered allow us to better understand the red planet's geological history.

*Related content: a totem pole with a video introducing the Mars Express probe (1/4 scale model).*

## ***InSight***

Launched in 2018, InSight is a geophysics mission carried out by NASA. Its aim is to study the structure of the red planet to better understand how rocky planets are formed. The SEIS seismometer, developed by CNES, enables the study of the tectonic activity of Mars.

*Associated Content: Ressources Totem Pole with video*

# EXHIBITION EXTRAS

## Children's learning materials

EXPLORE MARS! A fun booklet designed for kids. Featuring 20 pages of fun activities to explore Mars while having fun: mini-books to put together, quizzes, games, stickers, missions, poster of the solar system. Perfect for kids aged 7 to 13.

## Space displays

For a true immersive experience, we offer large-scale Martian panoramas in a digital file format. Create your own tailor-made universe within your exhibition spaces.

## Optional add-on: the Martian gallery

9 large-scale photo boards featuring Martian landscapes. Perfect as a finishing touch to your exhibition, depending on space layouts.



## RENTAL CONDITIONS

### Location

- **Required surface area:** 200-250m<sup>2</sup> (depending on space layout) • **Power supply:** 230v :
- **Layout:** 3 themed areas that are fully modular. Exhibition technical sheet and set-up ideas created using Sketchup Pro.

### Installation

- **Assembly:** 2-3 days or 23 hour.
  - **Disassembly:** 2-3 days or 23 hours
- These times may vary depending on the space's architectural constraints.
- **Staff provided by the host site:** 1-2 multi-skilled member(s) of staff for the assembly and disassembly stages
  - **Technical material:** to be determined depending on the space's technical and architectural constraints
  - **Storage:** plan for a secure covered location with a surface area of 60m<sup>2</sup>

### Host site responsibilities

- **Exhibition rental:** please contact us - Reduced rates from 6 months of rental
- **Drop-off and pick-up transport for the exhibition** (1 tractor-trailer lorry or 1 40-foot container)
- **Living and transport costs for workers** during assembly and disassembly stages, as well as for the activity leader or educator («Mars Lab»)
- **Insurance for the entire process from unpacking to finish**
- **Printing the «Explore Mars» booklet** to include your logo
- **Special guests:** Contact with leading scientific names related to the exhibition's theme (depending on availability)

**CONTACT :** Laurent COSSINET - l.cossinet@cite-espace.com  
+33 (0)5 62 71 48 76 / +33 (0)6 85 32 82 57