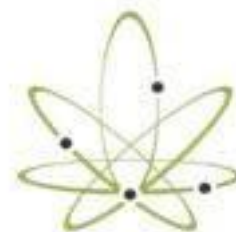


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The world's largest and most technical **CANNABIS SCIENCE CONFERENCE** is returning to the **OREGON CONVENTION CENTER (August 27-29, 2018)**.

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Technion Israel Institute of Technology

Ethan Russo, MD
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Dr. Uma Dhanabalan
Uplifting Health & Wellness

Tracy Ryan
CannaKids & Saving Sophie

Bonni Goldstein, MD
Canna-Centers Wellness & Education

Autumn Karcey
Cultivo, Inc.

Roger Kern, PhD
Agate Biosciences, formerly with NASA JPL

Jacklyn Green, PhD
Agate Biosciences, formerly with NASA JPL





From Feeding Your Head to Feeding the World and Beyond

Meaning of AGATE

- Agriculture
- New Beginnings
- Prosperity



AGATE
Biosciences

Agenda



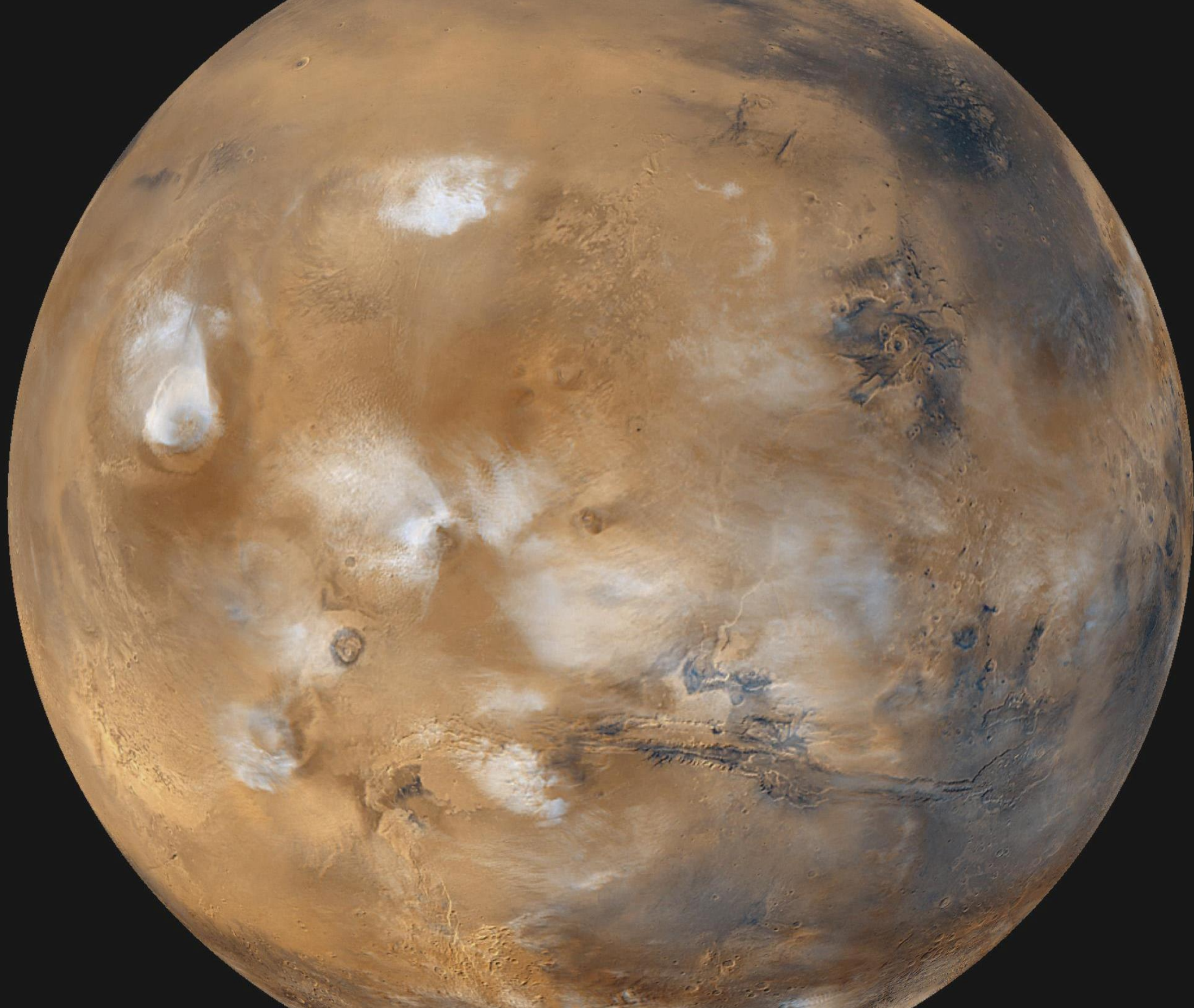


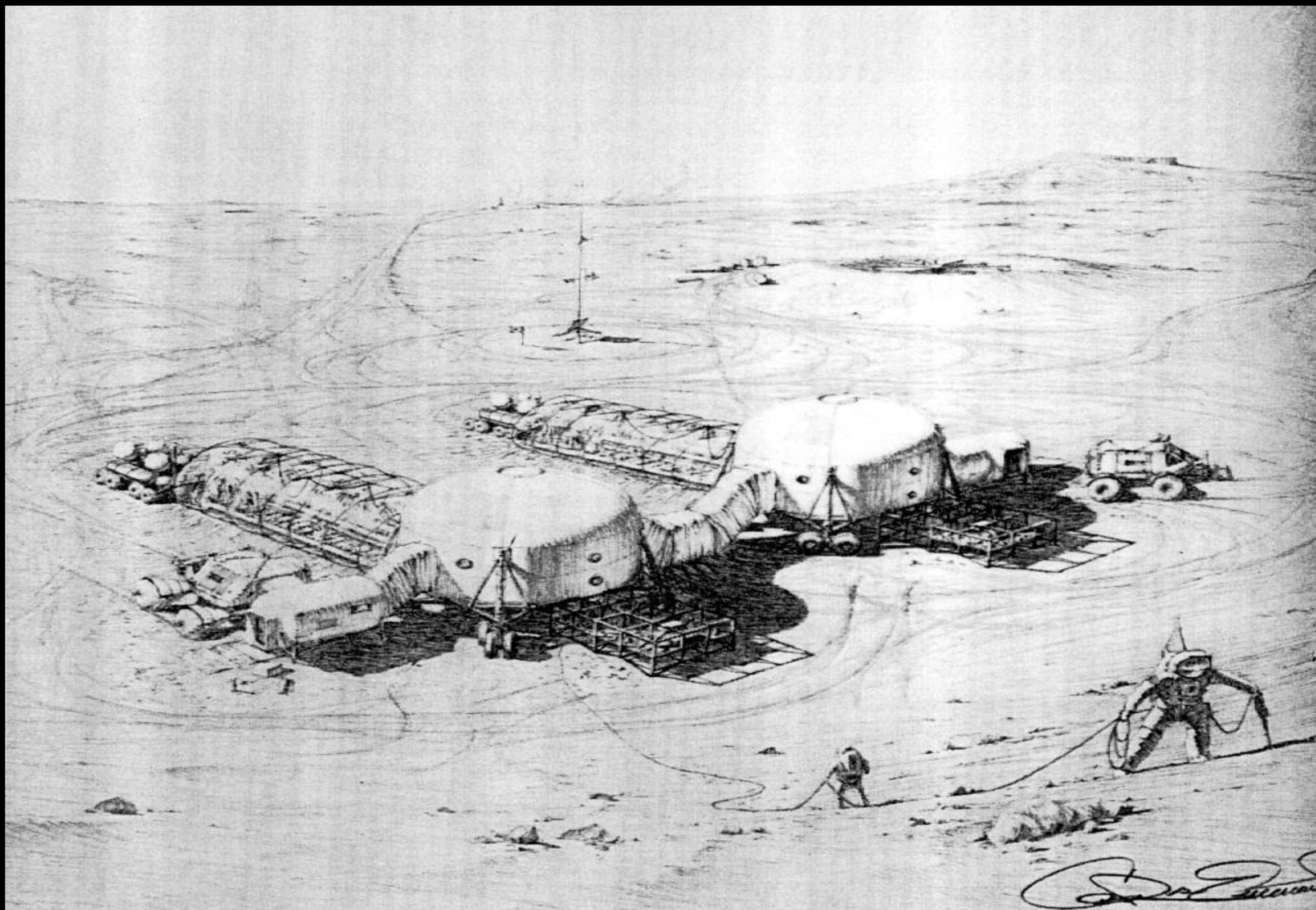
What can these two days at CSC mean to you?













Mars Greenhouse Experiment Module (Mars GEM)

1. Scientific Objective:

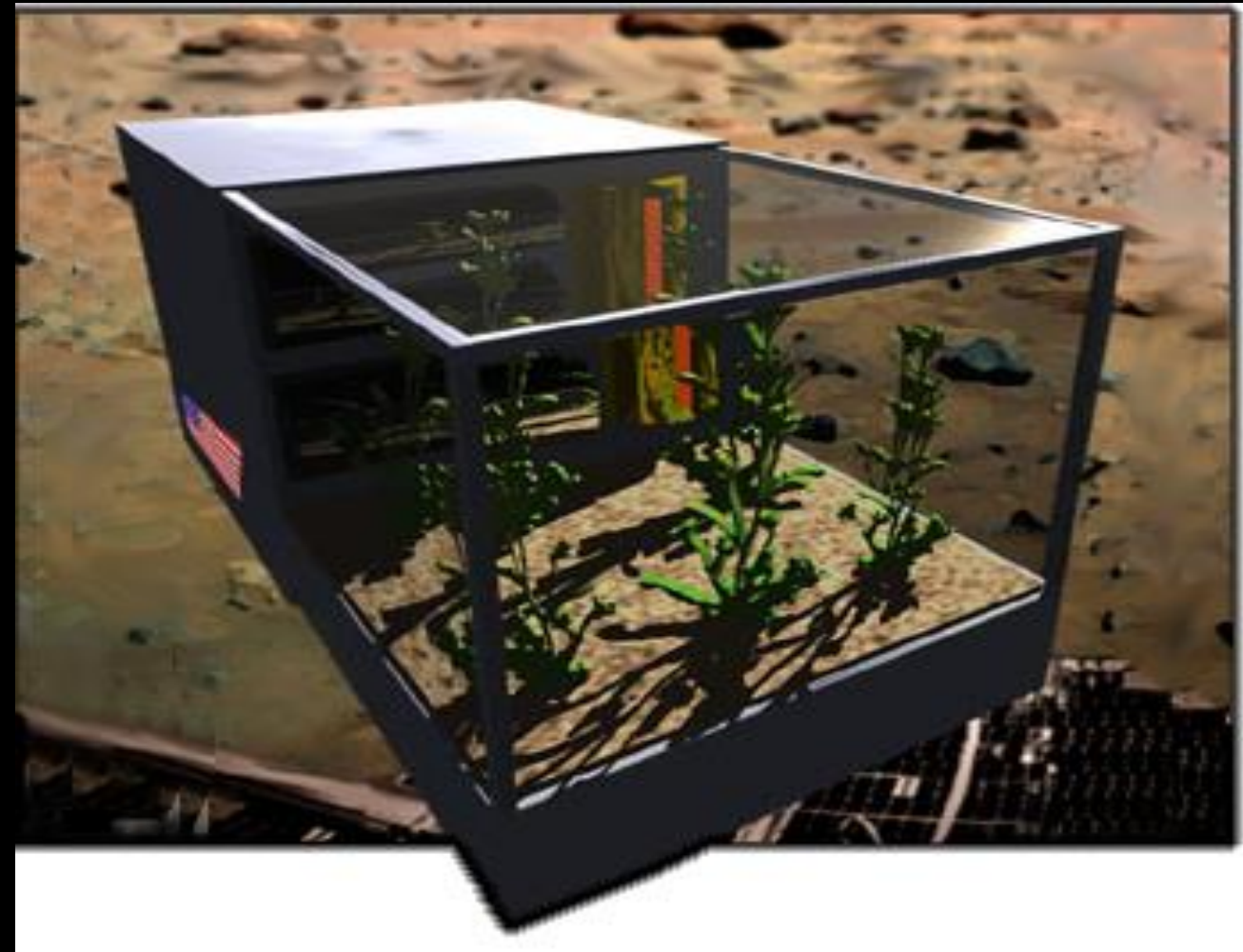
- Assess the biocompatibility of the Martian regolith using *Arabidopsis thaliana* as a biological sensor

2. Technology Objective:

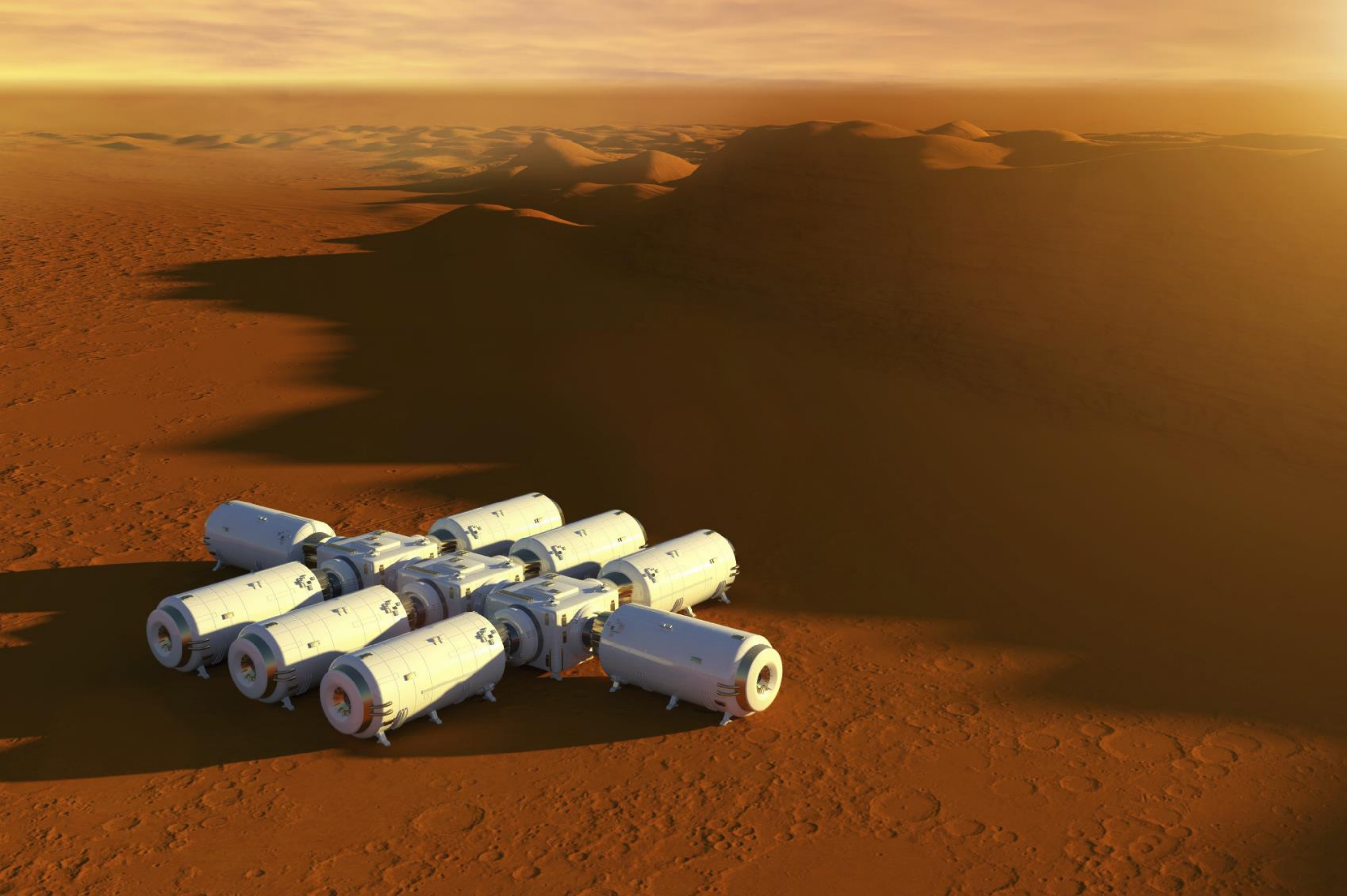
- Develop and maintain an environment on the Martian surface that is conducive to life and that consumes little or no power for thermal maintenance

3. Outreach Objective:

- Instill enthusiasm for interplanetary space exploration and future human exploration of Mars; Educate to build scientific and technical literacy

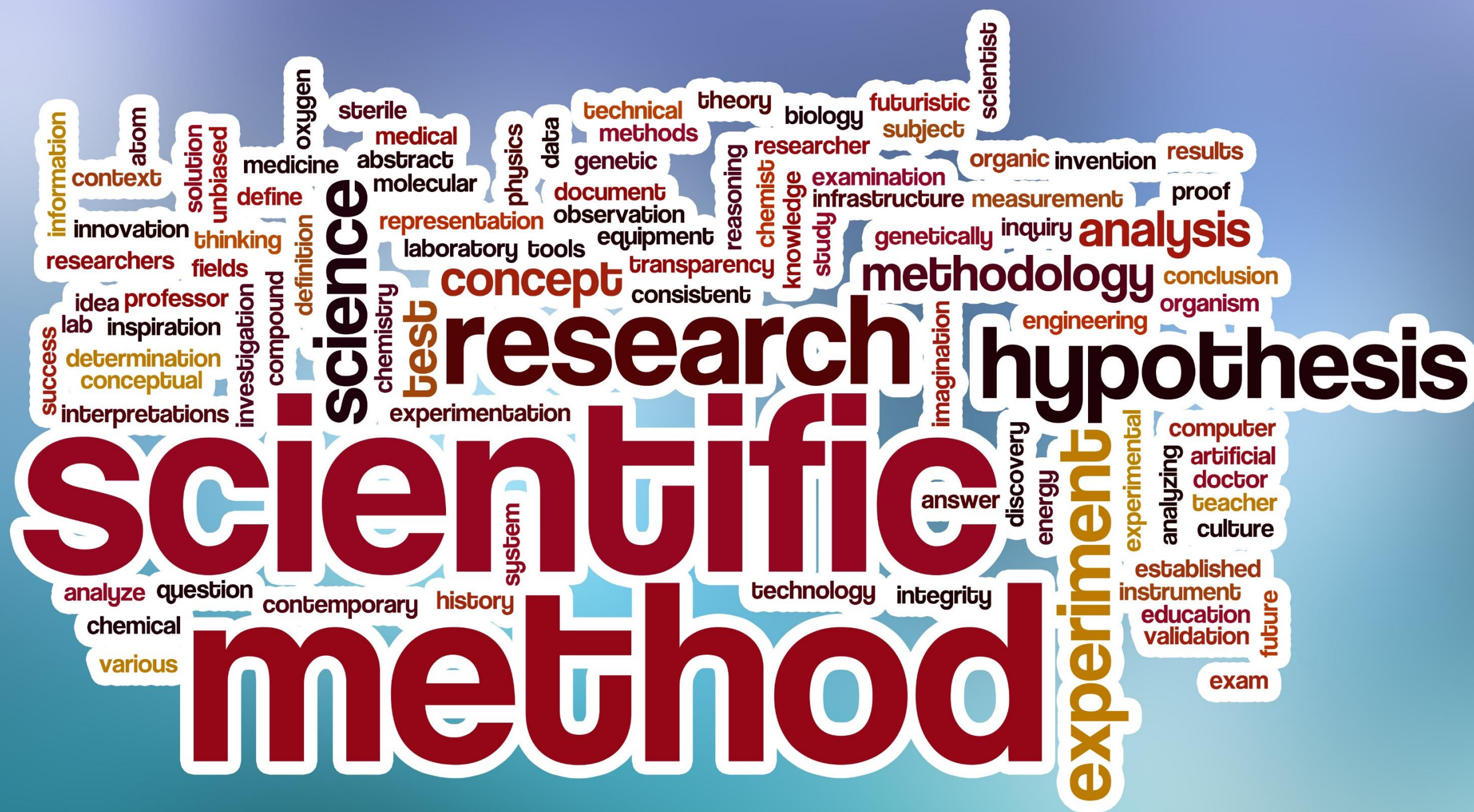


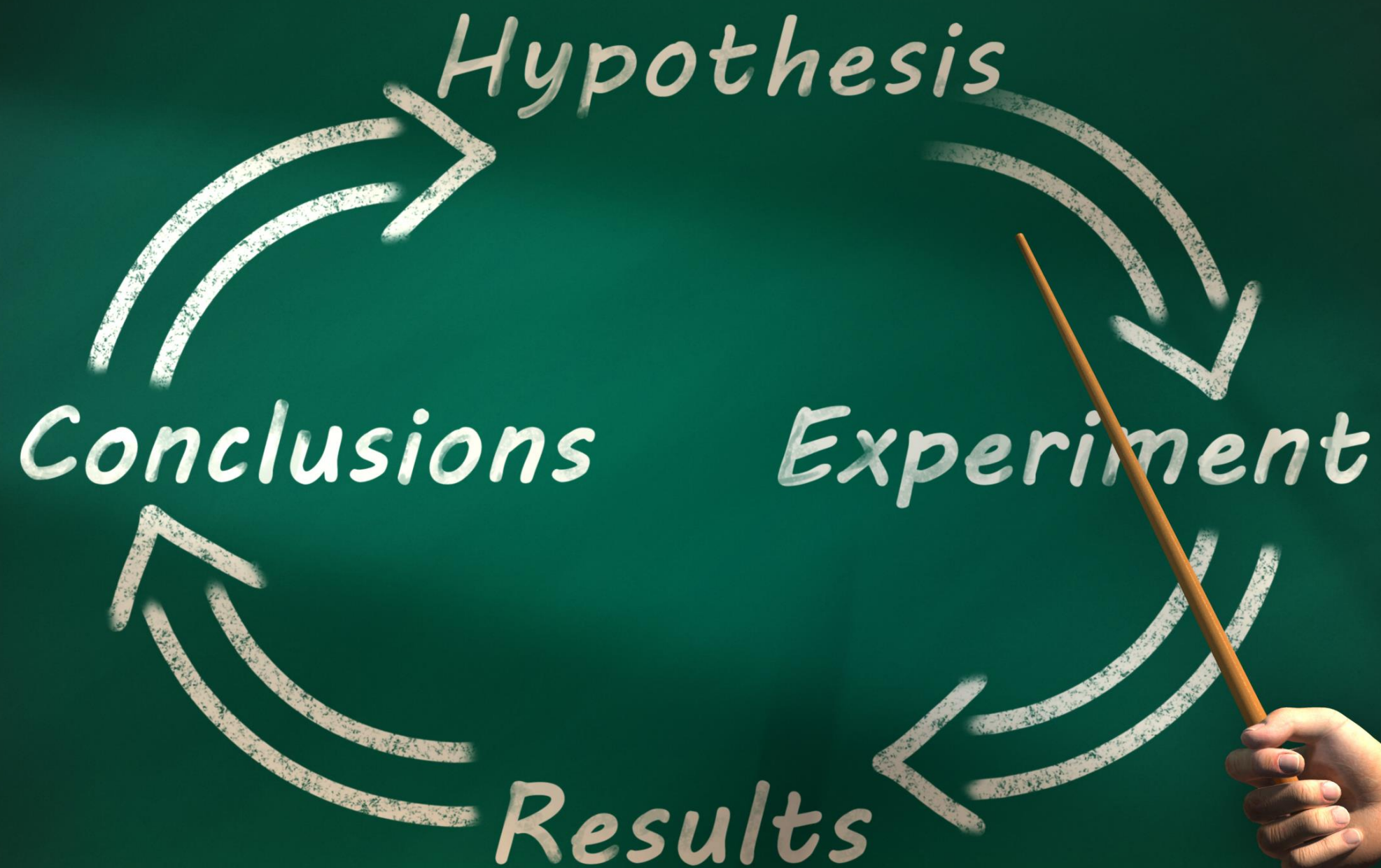
Proposed 2001 Lander Payload Experiment was an integrated, instrumented autonomous growth chamber to assess chemical and biocompatibility issues of Martian regolith and environment





What is Science?















Current World Population

7,645,333,893

[view all people on 1 page >](#)

TODAY

Births today

124,311

Deaths today

51,489

Population Growth today

72,822

THIS YEAR

Births this year

91,167,682

Deaths this year

37,760,953

Population Growth this year

53,406,729



GROWING MARIJUANA



**DISEASES
AND PESTS**



CLONING



**MALE AND
FEMALE**



NUTRIENTS



VEGETATIVE



SEEDS



INDOORS



BASICS



GERMINATION



HYDROPONICS



WATER



HARVEST



ODOR



GUERRILLA



LIGHTING



OUTDOORS

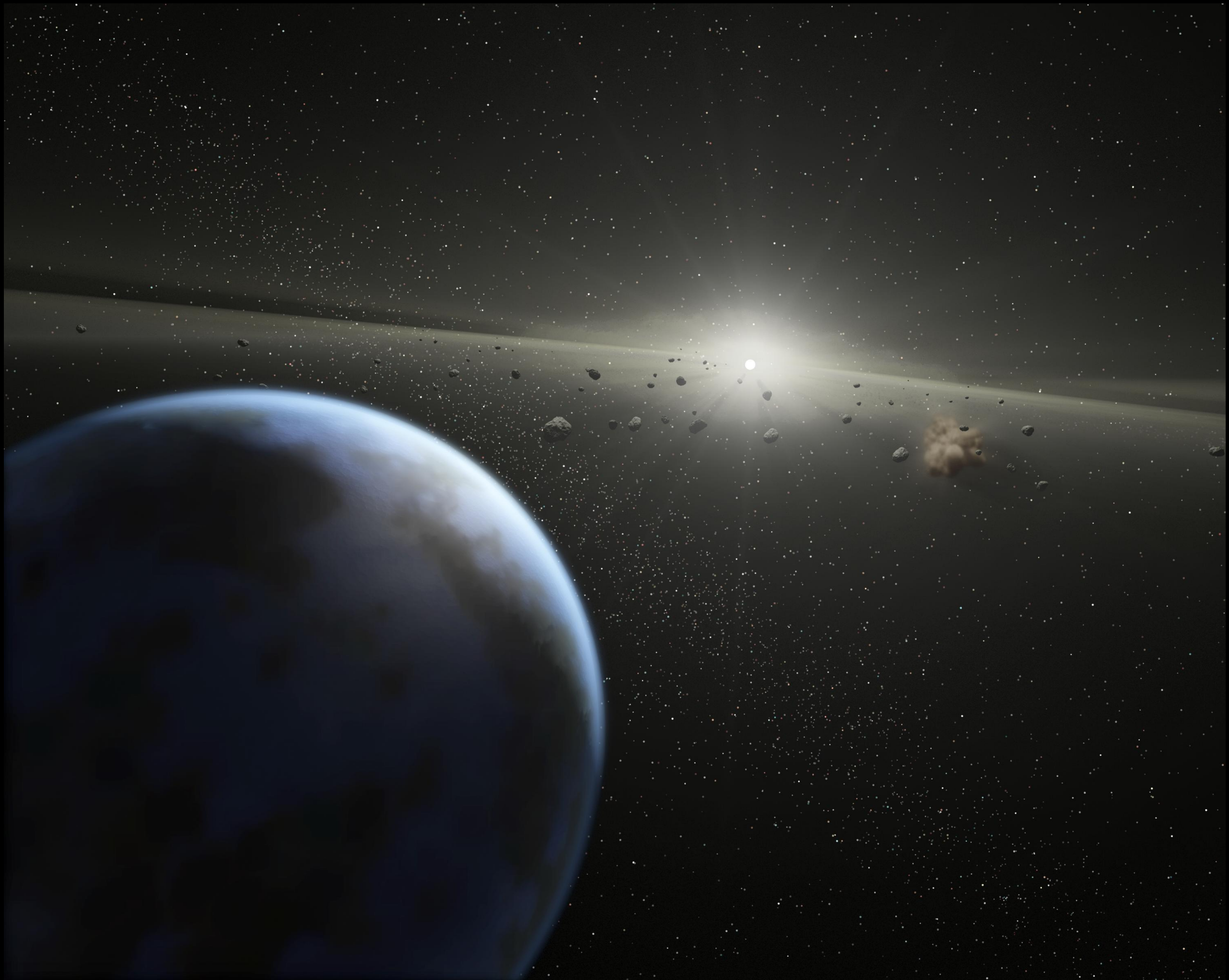












NEO Earth Close Approaches

[Introduction](#)
[Data Table](#)
[Comets \(pre-1900\)](#)
[Uncertainties](#)

Close Approach Data

The following table shows close approaches to the Earth by near-Earth objects (NEOs) limited as selected in the "Table Settings" below. Data are not available prior to 1900 A.D. nor after 2200 A.D. Data are further limited to encounters with [reasonably low uncertainty](#).

Table Settings:

Near future (within 60 days)

Nominal dist. <= 0.05au

no H limit

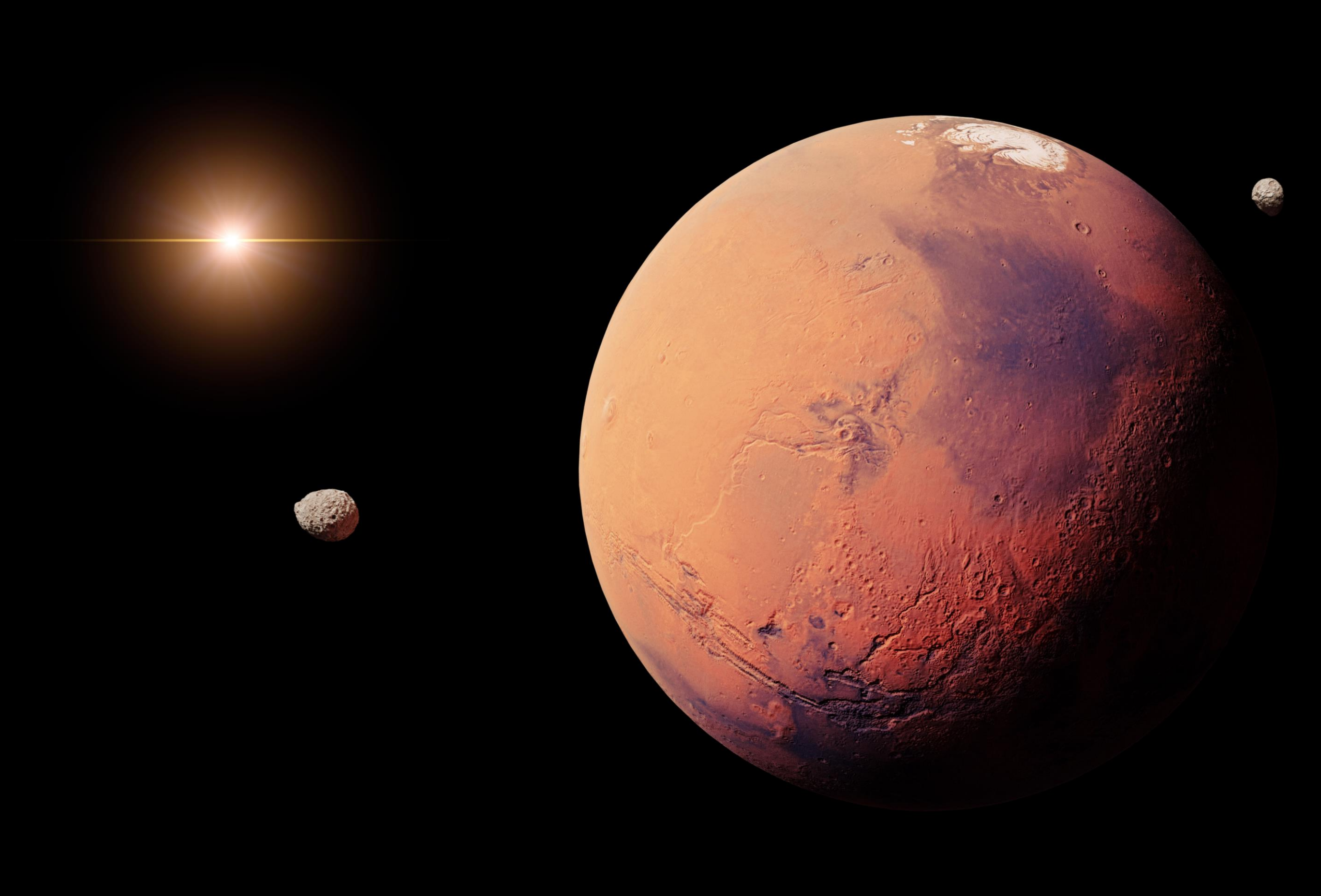
Show 10 entries

Showing 1 to 10 of 14 entries

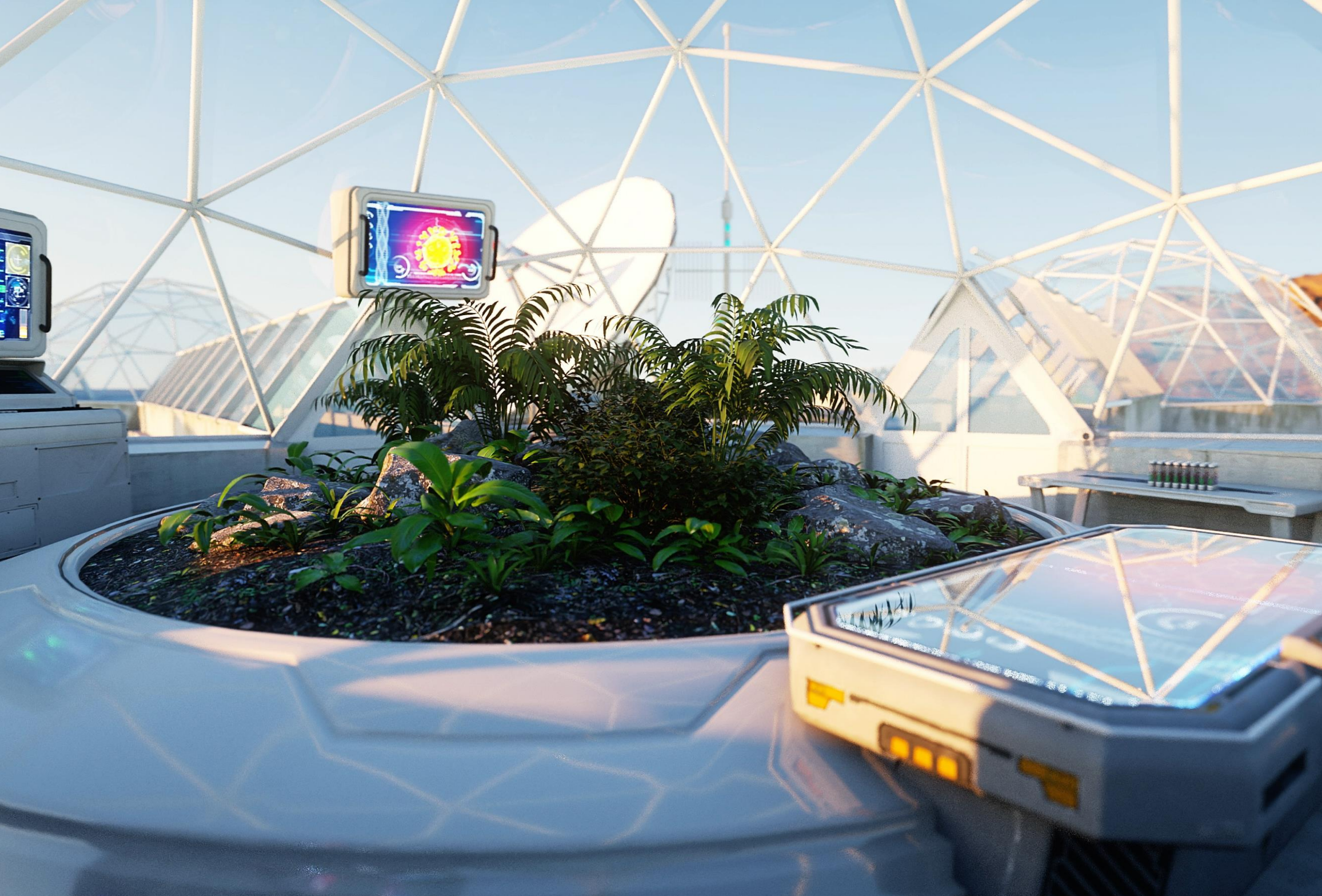
Search:

Object	Close-Approach (CA) Date	CA Distance Nominal (LD au)	CA Distance Minimum (LD au)	V relative (km/s)	V infinity (km/s)	H (mag)	Estimated Diameter
(2018 QH1)	2018-Aug-27 20:36 ± < 00:01	13.17 0.03384	12.97 0.03333	12.46	12.45	25.6	20 m - 44 m
(2018 LQ2)	2018-Aug-27 21:35 ± < 00:01	9.36 0.02405	9.36 0.02404	1.49	1.41	24.8	29 m - 65 m
(2016 GK135)	2018-Aug-28 16:31 ± 00:45	16.70 0.04290	16.66 0.04281	2.75	2.73	28.1	6.4 m - 14 m
(2016 NF23)	2018-Aug-29 03:38 ± < 00:01	13.14 0.03377	13.14 0.03377	9.04	9.03	22.9	70 m - 160 m
(1998 SD9)	2018-Aug-29 07:27 ± < 00:01	4.22 0.01083	4.22 0.01083	10.70	10.68	24.2	38 m - 86 m
(2018 DE1)	2018-Aug-30 15:30 ± 01:11	15.18 0.03902	14.62 0.03756	6.48	6.47	25.5	21 m - 47 m
(2001 RQ17)	2018-Sep-02 12:05 ± 00:01	19.26 0.04949	19.25 0.04947	8.27	8.26	22.6	80 m - 180 m
(2015 FP118)	2018-Sep-03 10:09 ± < 00:01	12.23 0.03144	12.23 0.03144	9.77	9.76	19.3	370 m - 820 m
(2018 QA)	2018-Sep-03 16:51 ± 01:01	17.43 0.04478	16.24 0.04173	20.37	20.37	23.4	54 m - 120 m
(2017 SL16)	2018-Sep-20 21:09 ± < 00:01	8.50 0.02183	8.29 0.02129	6.42	6.40	25.8	18 m - 41 m



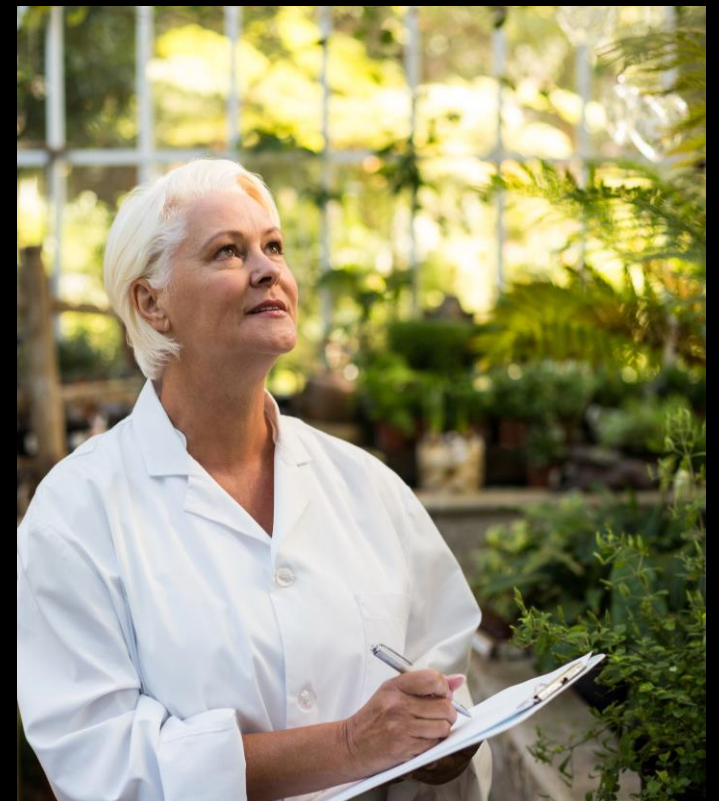






Key Take-home Messages

1. Document everything
2. Science it up!
3. Share your knowledge
4. Change your own internal mindset from a “fish story” to the “scientific method”
5. You CAN help solve the biggest problems facing humanity



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