



Contribution to Sustainable Lunar Exploration and Utilization

by

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64th COPUOS

Vienna

30 August 2021

WHAT IS THE MOON VILLAGE ASSOCIATION ?

The Moon Village Association (MVA) created in June 2017,
to foster the implementation of the Moon Village.

MVA is Member of IAF and Observer in United Nations - COPUOS

A forum to advance development of the Moon Village involving Industry, government, space agencies, international organizations / NGOs, and the Public at large.

A catalyst stimulating a virtuous cycle of investments for the development of a lunar economy

- 800 INDIVIDUALS INVOLVED FROM 60 COUNTRIES:
 - 25% Female
 - 25% Students



>28 INSTITUTIONAL MEMBERS FROM 17 COUNTRIES

MOON VILLAGE IMPLEMENTATION

-Working Groups/Projects-



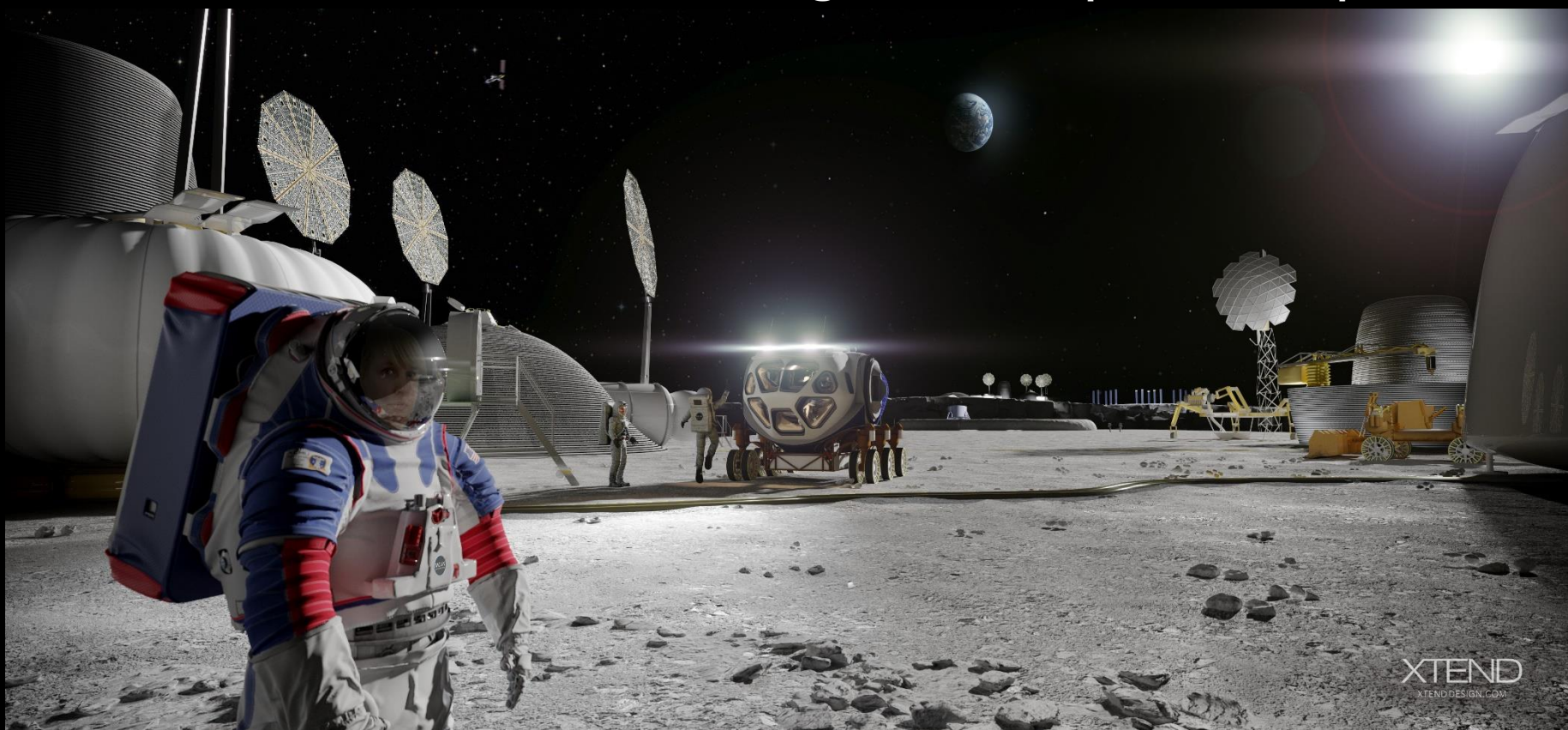
Moon Village 2045 Reference Concept



URGENT PROBLEM



- **Many Lunar missions planned in future, from many countries/stakeholders will be conducted in close by locations (i.e. South Pole, orbit)**
- **Lack of Coordination Mechanism could lead to harmful interference**
- **Need to Create confidence buildings and foster peaceful cooperation**



SOLUTION

- **MVA SET UP:**

- **GLOBAL EXPERT GROUP on SUSTAINABLE LUNAR ACTIVITIES (GEGSLA)**

- **Multi stakeholders:**

- Space Agencies/Governments**
 - Industries,**
 - Academia,**
 - Civil society**
 - Public**

- **DEFINE/AGREE:**

- **Recommended Framework and Key Elements for Peaceful, and Sustainable Lunar Activities, this will include:**

- Principles**
 - Key Elements (i.e. information sharing)**
 - Guidelines, for implementation the key elements (i.e. interoperability, debris mitigation, safe operations, etc)**

Participation of Space Emerging Countries (PECS)



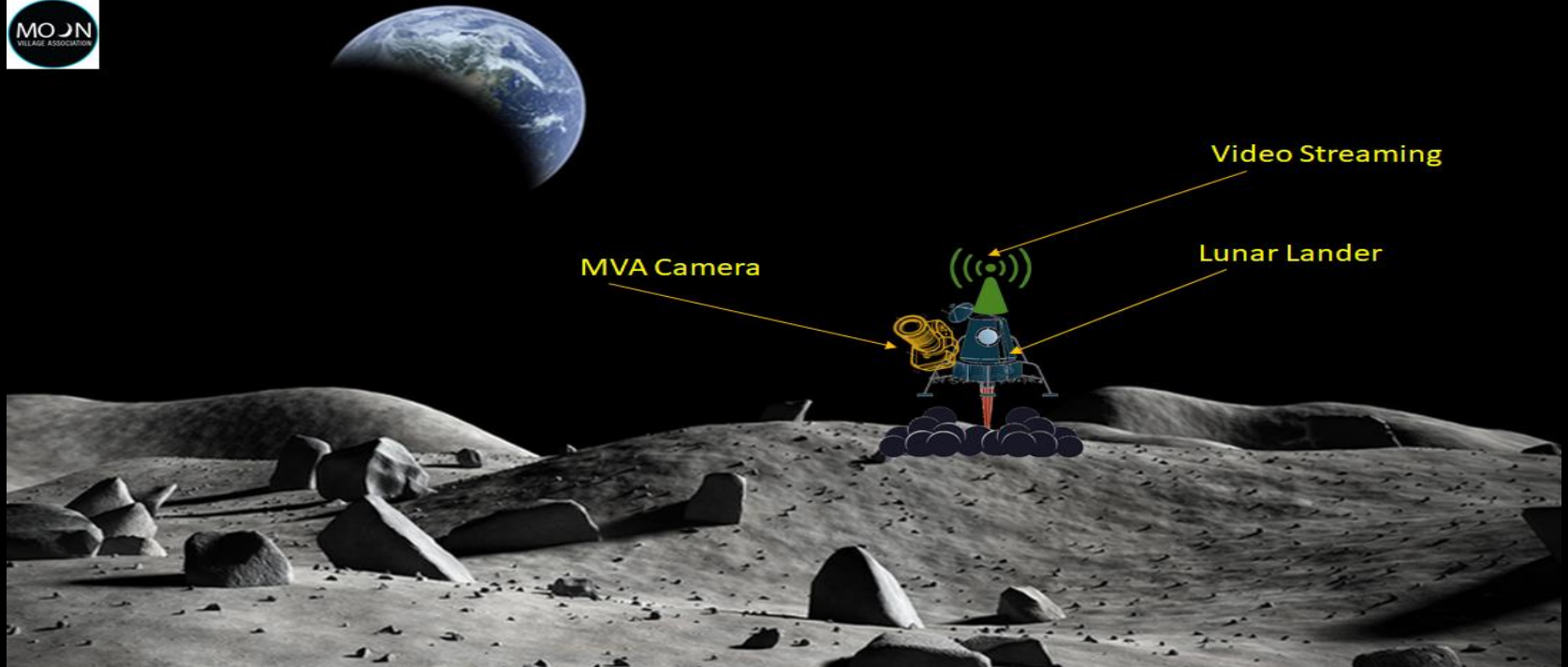
MVA-PESC 2021 Participating Teams



MV-PESC

REALIZING THE MOON VILLAGE:
PARTICIPATION OF EMERGING
SPACE COUNTRIES

Payload Project



- The Project is involving a global industrial consortium from:
CH, UK, Mexico, India, UAE, Egypt
- More countries are welcome
- MVA is seeking for the Lunar Lander carrier





5th Global Moon Village Workshop & Symposium

December 6-8, 2021
Nicosia, Cyprus



Cyprus Space Exploration Organisation



Global Network



- 49 national coordinators and 6 regional coordinators
- Call for new National and Regional Coordinators Open
 - Europe and Asia



Some of the Recent Activities



- Jordan: Spacesuit and rover competition
- Italy: Thursday of Galassica
- Egypt: Social media promotion, SG[Egypt]
- Africa: has been focused on recruitment
- Greece: Moon 2069 – A way forward



التلسكوب كأداة فنية والـ Overview Effect

غانم العتيبي



المحاور :

- دور الفنون في استكشاف الفضاء.
- اعمال فنية متعلقة بالكون والقمر من التراث العربي.
- تعريف الـ Overview Effect.
- صورة الارض من سطح القمر.
- ما يمكن تعلمه عن الـ overview effect من تجربة التلسكوب؟ ومن التراث العربي؟

Zoom Online

2021/4/20

PM 9:00



MOON VILLAGE ASSOCIATION GREECE
MOON 2069 : A WAY FORWARD
JULY 24, 16.00 - 18.00 GMT+3

COLLABORAZIONE CON:
MOON VILLAGE ASSOCIATION ITALY
CON IL PATROCINIO DI:
INFN
ISTITUTO NAZIONALE FISICA NUCLEARE

IOVEDÌ
DI GALASSICA

dal 4 febbraio al 15 aprile,
ogni giovedì alle 21 in diretta sulla pagina Facebook di
GALASSICA
FESTIVAL DELL'ASTRONOMIA

COMPETITION ANNOUNCEMENT
اعلان مسابقة



TOWARDS THE LUNAR GENERATION WORKSHOP July 2021

Sponsors and Partners

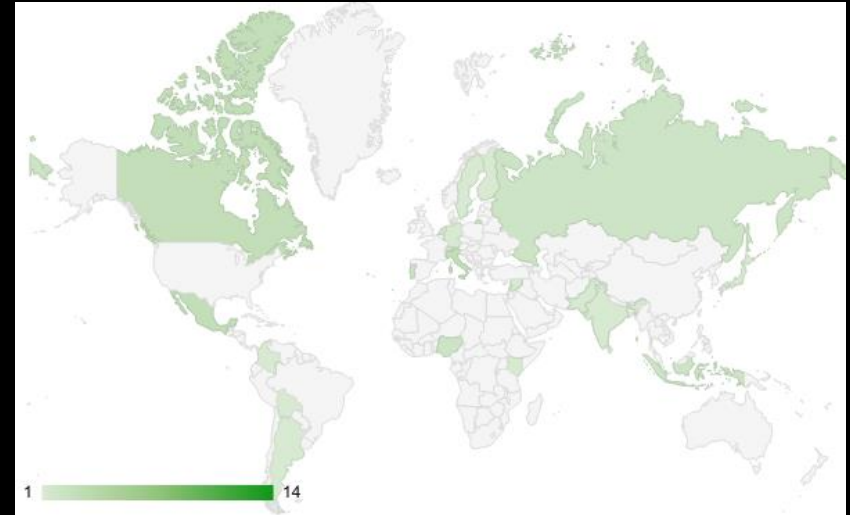
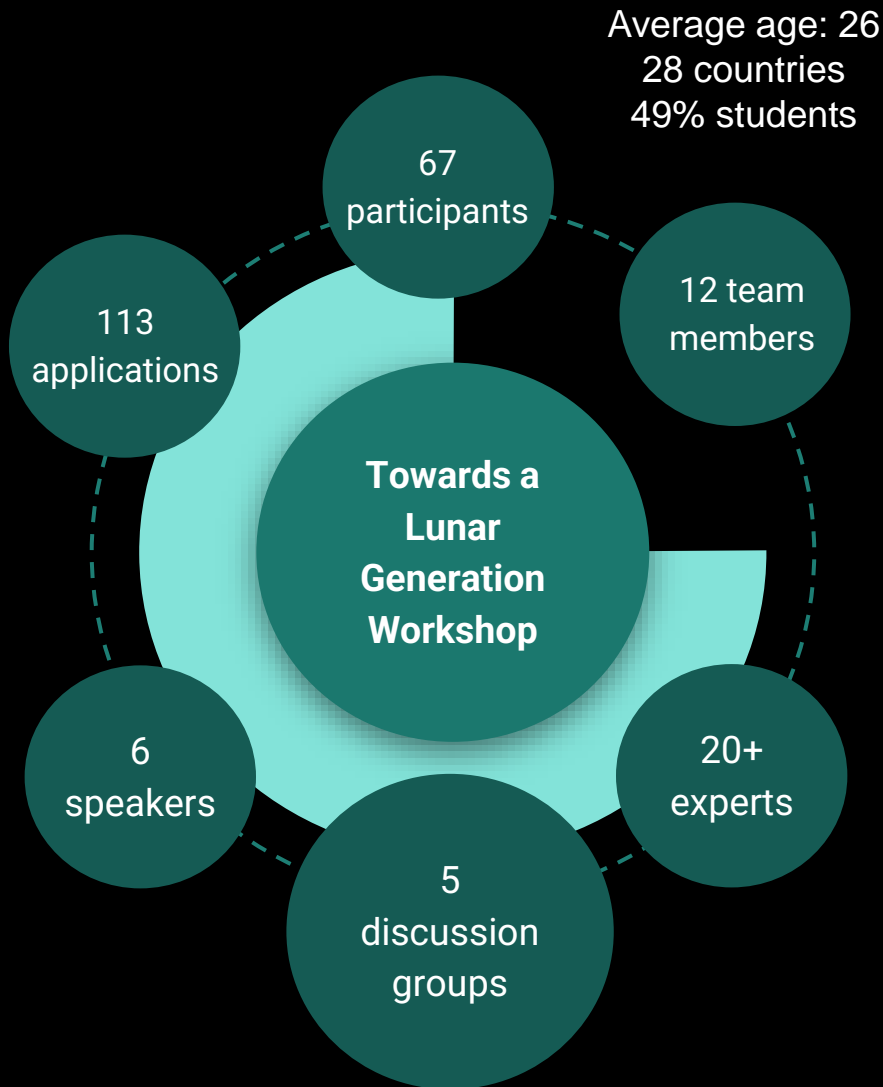
LOCKHEED MARTIN



**SPACE GENERATION
ADVISORY COUNCIL**



Overview



<https://moonvillageassociation.org/tlg2021/>

- Lunar Medical Autonomy
- Legal status and policy issues in Moon resource and Infrastructure development and utiliza
- Innovation Craters Hackathon
- Moon as a base for science
- Technologies for a sustainable Moon vil

Discussion Groups



- Lunar Medical Autonomy
 - Infrastructure
 - High risk medical emergencies, and how can they be tackled
 - Major human factors (including mental health) challenges on the Moon
 - Role of analogues
- Legal and Policy Issues of Resource Utilization and Infrastructure
 - Main challenges and obstacles to a legal framework
 - Sharing of resources and infrastructure be shared between various stakeholders
 - Reducing the risk of unpeaceful interactions on the Moon
- Hackathon focused on developing business ideas for lunar Explorations in the year 2030.
- Science on the Moon
 - Scientific objectives beyond current objectives
 - Manned missions vs robotic missions
 - Role of (a permanent) human settlement on the Moon in scientific advancement
- Technologies for a sustainable Moon Village
 - Main enabling technologies for operation on the Moon and
 - Role of emerging technologies
 - Role of emerging space countries
- 5, 10 and 50 year horizons
- Role of the MVA and SGAC



Science on the Moon

High Priority

Objectives

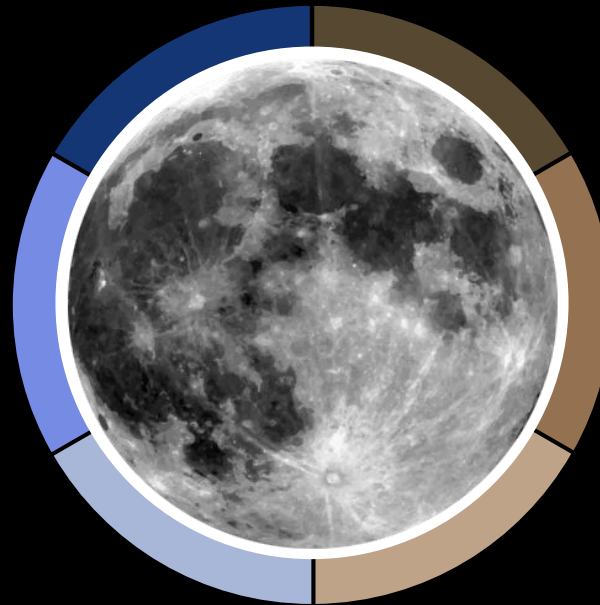
Quantum science/technology
Analogues on Earth and Moon
Moon-Earth ecosystem

Humans *vs.* and Robots

Each has a role to play
Human-robot collaboration

Role of Moon Village

Human physiological research
Sustainable community



International Collaboration

Standardization of interfaces and goals
Safety protocols and regulations

Emerging Space Countries

Build on national priorities
Identify scientific strengths

Role of MVA

Foster international collaboration
Create standardization working group

New MVA Project: Towards a Moon Village Generation

- Formation of the project started:
 - Website is live and we are looking for volunteers!
- Next topics Workshop will be related to:
 - Role of Emerging Space Countries
 - Science Communication and the Role of the Arts
 - Equity, Diversity and Inclusion in the Moon Village

Thank you for your attention!

www.moonvillageassociation.org

