



# MOON EXPLORATION GLOBAL SURVEY RESULTS

By

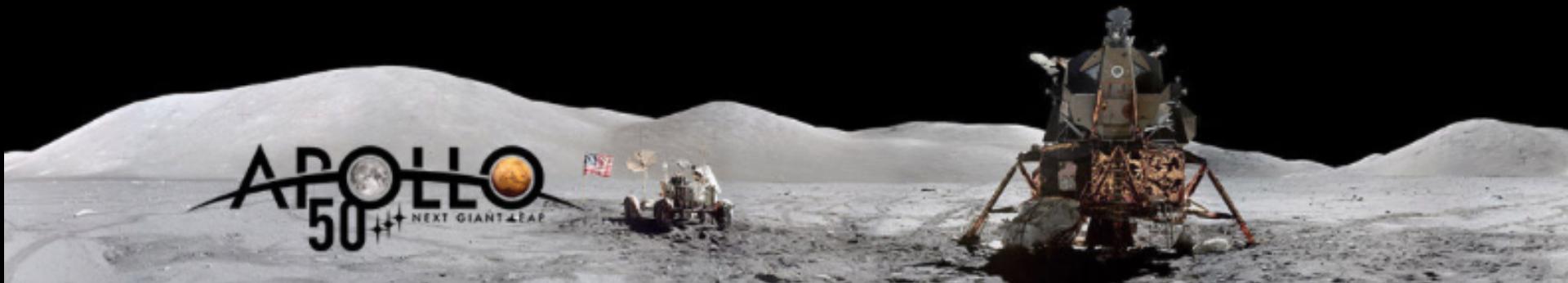
A. Decadi, G. Reibaldi, A. Angelidis

STC-COPUOS.  
Vienna, 7 February 2020

# INTRODUCTION



- MVA co-operated with the World Space Week Association in the *Global Survey about Moon Exploration*



- This survey is the first, on a global scale, about the **Moon Exploration** and Utilization
- Goal: What are people thoughts about going back to the Moon and MVA ?
- Available in different languages and for adults as well as for kids (10-18)

Survey started in September, ended in December 2019

## Moon Village Association Survey about Moon Exploration



In 2019, humankind celebrates the 50<sup>th</sup> anniversary of Apollo 11 and of the first human step on the Moon. A revival of interest for the exploration of the Moon is also observed in the major space faring nations. This year, the theme of World Space Week is "The Moon: Gateway to the Stars". In the frame of a partnership between the [Moon Village Association](#) and the World Space Week Association, a survey about Moon exploration was prepared. This survey will be the first, on a global scale, about the Moon Exploration and Settlement and the results will be presented at the UN in February 2020. Your participation is very important, as we would like to hear from YOU. What are your thoughts about going back to the Moon?

The survey is available in different languages and for adults as well as for kids (10-18). Feel free to share on social media!

Chinese (中文):      成年人      孩子

English:      Adults      Kids

Francais (French):      Adultes      Enfants

Italian (Italiano):      Adulti      Bambini

Portuguese (Português):      Adultos      Crianças

Russian (русский):      Взрослые      Дети

Ukrainian (українська):      дорослі      дітки

Read the short essay [Next Stop: The Moon](#) to find out what our Partner [Moon Village Association \(MVA\)](#) thinks about going back to the Moon.

# SURVEY – ADULTS



- 15 questions
- General questions: age, gender, nationality
- Knowledge about moon exploration:
  - How many people did the USA put on the Moon ?
  - Which of these countries has performed a smooth controlled landing on the Moon ?
- Interest for space exploration:
  - The Moon now - 50 years after Apollo 11, would you say....?
  - Why the Moon ? - What are the most compelling reasons to go to and stay on the Moon..... ?
  - Moon Village - Do you think that the creation of a Moon Village is important..... ?
  - Environment - In the context of climate and environment issues on the Earth, would you say that developing infrastructures on the Moon.... ?
  - Culture – what means the moon to you ?

# SURVEY – CHILDREN



- 12 questions
- General questions: age, gender, nationality
- Knowledge about moon exploration:
  - Which humans did walk on the Moon ?
  - Did humans or robots bring back lunar samples ?
  - Is there a human base on the Moon ?
- Interest for space exploration:
  - In your opinion, going to the Moon is...?
  - Would you like sometime to go to the Moon... ?
  - You think that humans shall ... ?
  - Imagine that you are an astronaut, for which main reasons would you like to go to the Moon.... ?
  - Imagine that you are an astronaut, for which main reasons would you like to go to the Moon.... ?
  - Are you interested by the Moon Village ?

# RESULTS

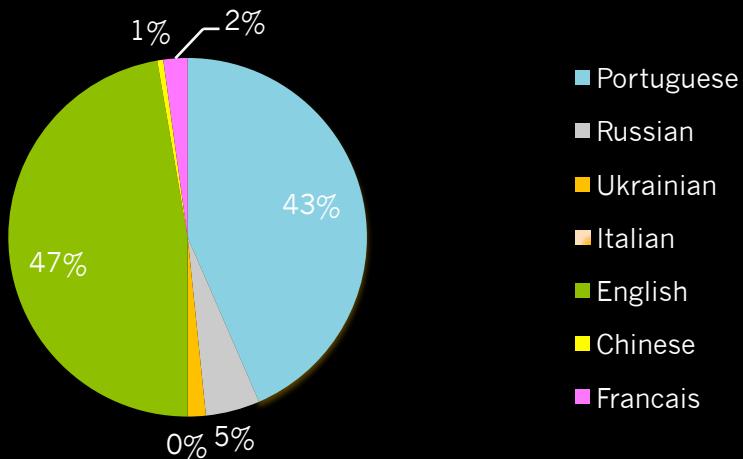


- Implication of the public from around the world :
    - 370 people have answered the survey
    - 42 nationalities around the world

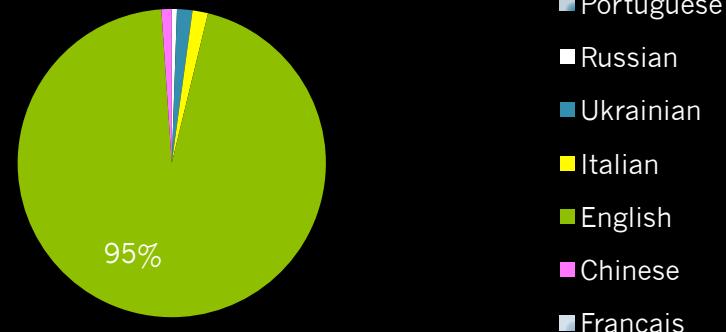


# RESULTS - REPARTITION

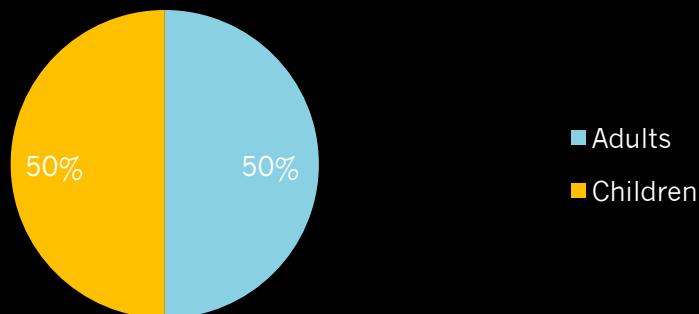
**Repartition by language ADULT**



**Repartition by language CHILDREN**



**Repartition ADULTS/  
CHILDREN**

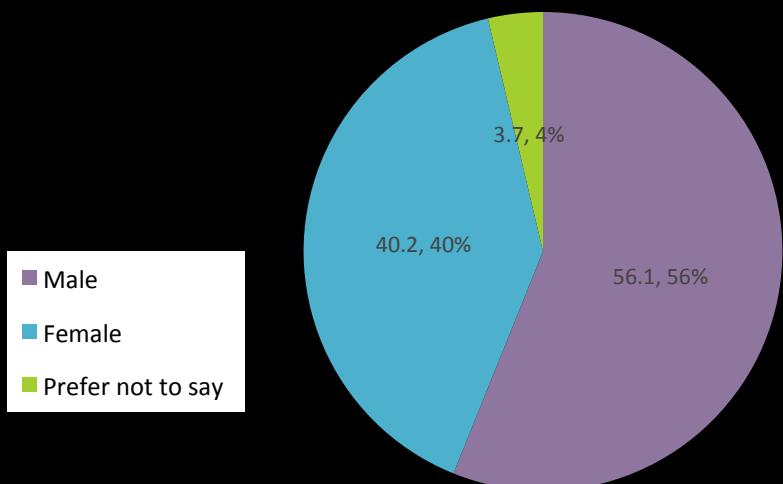


# RESULTS

Feedback of the public from around the world

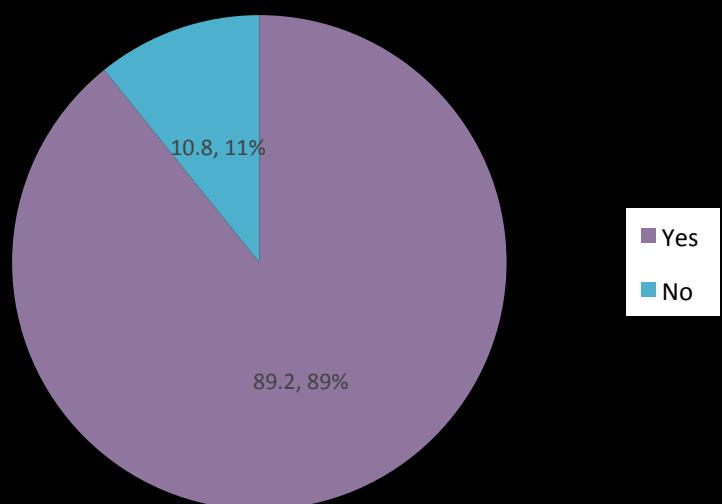
## Gender repartition :

- 56 % male - 40 % female



## Special interest :

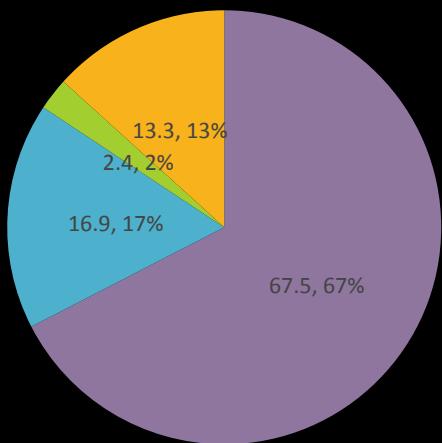
- 90 % interested in Space Exploration



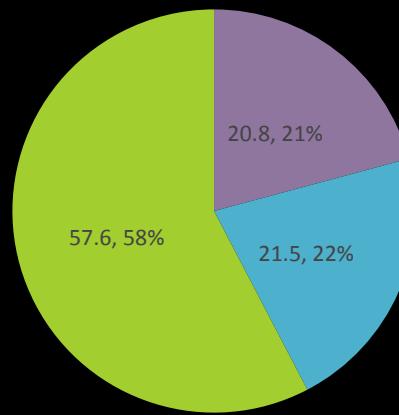
# RESULTS

## Should we go back to the Moon ?

67 % adults say YES



57 % Children say YES, but we should also take care of the Earth at the same time

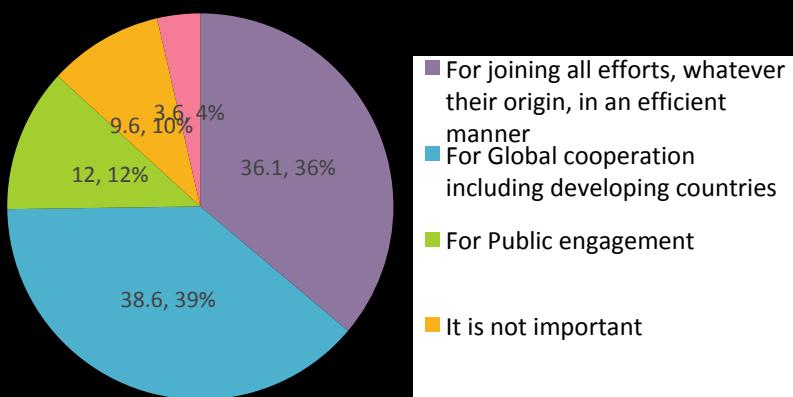


- It is time to go, stay and expand there
- It is sufficient to continue lunar robotic exploration only
- There is no interest for humans to come back to the Moon
- Humans shall go directly to Mars or asteroids
- Continue exploring space, settling on the Moon and then going to Mars
- Rather take care of the Earth and solve the ecological problems
- Do both, since going in space allows to find ideas to solve the problems on Earth

# RESULTS

## Why going back to the Moon is important ?

Adults say for joint efforts and global cooperation



Children say to live extraordinary adventures and better observe the universe

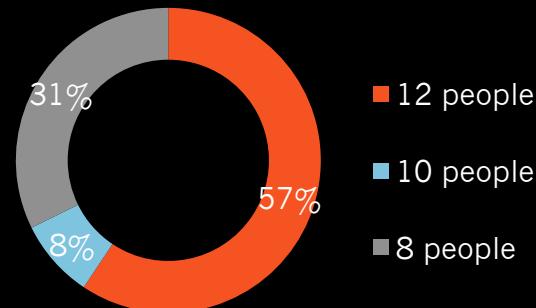


# The majority of adults are informed about Moon exploration. Yet, there is space for improvement

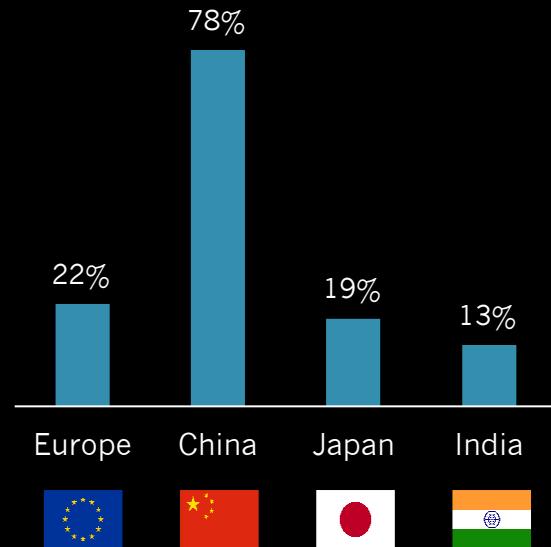
Which of these statements are true?

USA recovered and returned lunar samples back to the earth with robotic missions	48%
USSR/Russia recovered and returned lunar samples back to the earth with robotic missions	48%
USA did not land anything on the moon since the 70s	38%
Russia did not land anything on the moon since the 70s	34%

How many people walked on the Moon during American missions?

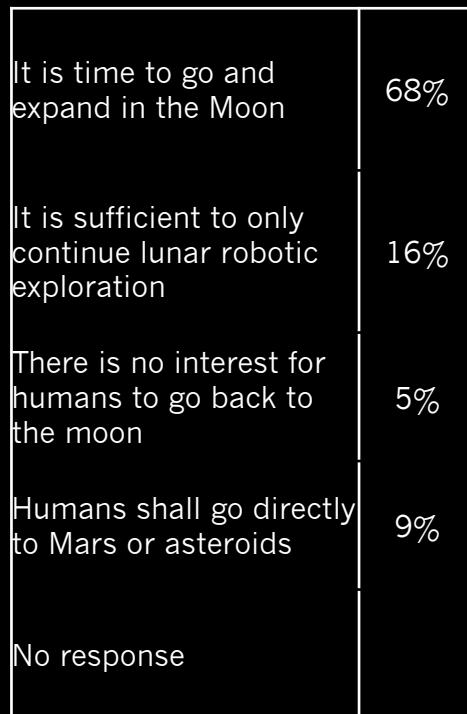


Which of these countries has performed a smooth controlled landing on the Moon ?

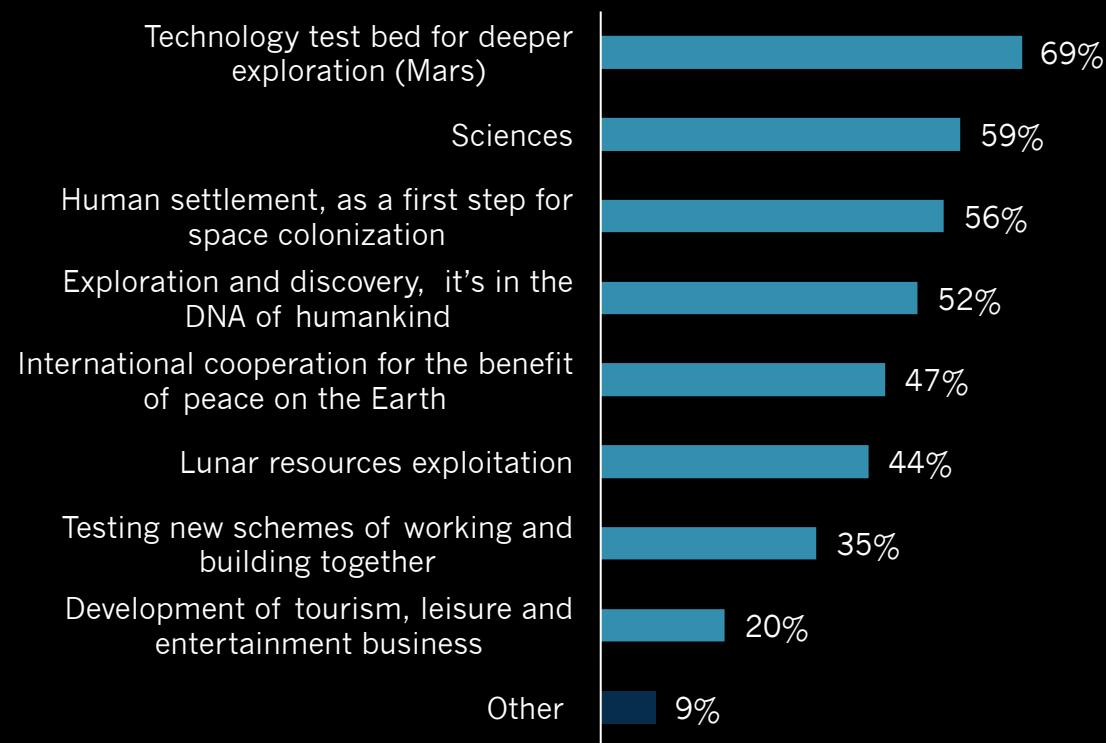


# There is a positive attitude towards future Moon exploration, especially for technological and scientific advancements

**50 years after Apollo 11, people believe that ...**

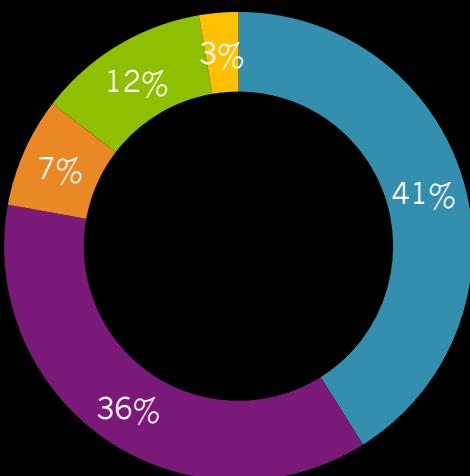


**The most compelling reasons to go to and stay on the Moon:**



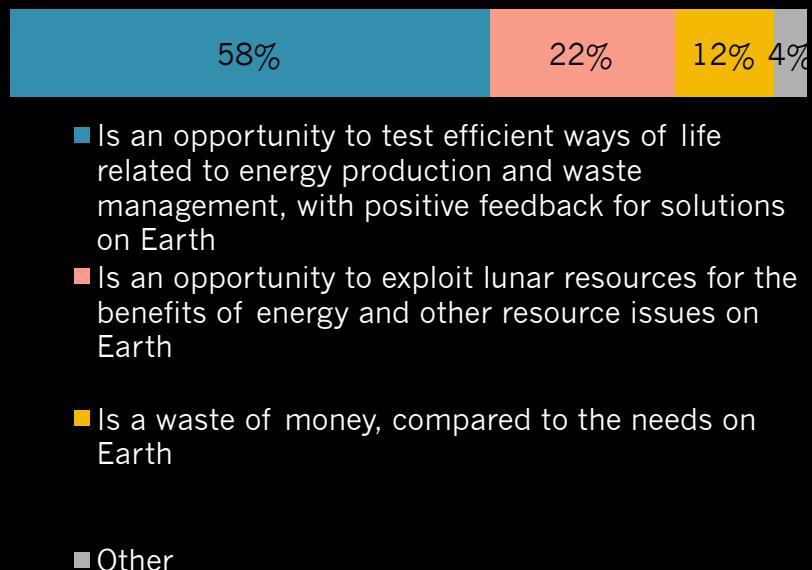
# The vast majority of adults believe that a Moon Village is essential for a global and efficient cooperation with the aim of alleviating environmental issues on Earth

**Do you think that the creation of a Moon Village is important?**



- For joining all efforts, whatever their origin, in an efficient manner
- For Global cooperation including developing countries
- For Public engagement
- It is not important
- Other

**In the context of climate and environment issues on Earth, people believe that developing infrastructures on the Moon ...**



# The Moon is a source of aspiration for many. It is also an important element of cultures all over the world

## Life & Culture



Adults

"In some ancient **legends** it is about the werewolves that eat from the moon. Also, our grandparents were saying about dogs "screaming at the Moon" when they barked for no reason." (50 y/o, Romanian)

"Moon does have a **spiritual** meaning for me as well. My culture believes in Moon affecting us and influencing our mood and behavior." (31 y/o, New Zealander)

"Moon has a **significant meaning** in my life. Because of lunar exploration I decided to be a **space scientist**. The motivation started exactly 30 years ago, when celebrating the 20th Anniversary of Apollo 11." (42y/o, Brazilian)

"Moon in Indian culture is an symbol of **peace** and **purity**." (50 y/o, Indian)

"The moon is the next ocean of mankind, a natural goal of expansion and potential source of valuable **resources**" (50 y/o, Russia)

"The Moon rules the farming season hence it **rules life**. It affects tide and Indonesia is the largest archipelago in the world, many fishermen rely on the Moon for survival... The moon is our **divine** feminine that affects us in many ways." (35 y/o, Croatian)

## Feelings

"When I look up at the Moon I see **mystery, future and beyond**." (42 y/o, Brazilian)

"The Moon is very important for me. Looking at the Moon gives me **peace** and **stability** by its predictable motion." (45 y/o, Croatian)

"it means to me the rebirth of the **exploration desire**, to unite everyone with the purpose of moving forward toward the stars." (32 y/o, New Zealander)

"It's a symbol of beauty. I feel **peaceful, dreamy**." (32 y/o, Saudi)

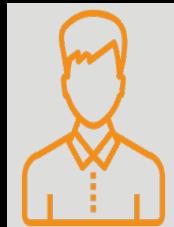
"I always felt very **emotional** and spiritually connected to the moon" (Female, 35 y/o, Indonesian)

"... It's the source of the **calmness** for me" (28 y/o, Indian)

"The moon is the night sun. That moment when you look at the sky and see the moon, let us **dream**." (36, Portuguese)

"Moon is the most **beautiful** object that we can see in night on naked eye." (28 y/o, Indian)

# In general, people of different nationalities, such as Indians, Americans, Portuguese, Russians, would like to be involved in the Moon Village



Adults

## Attitude towards Moon Village

"Yes, in the form of educational activities."  
(60 y/o, Ukrainian)

"Yes ... I'd probably be willing to do anything to assist."  
(50 y/o, American)

"Yes, I would as a project manager"  
(35 y/o, Russian)

"Yes, very directly. As a computer engineer I am sure it will be a lifetime challenge!"  
(36 y/o, Portuguese)

"Absolutely. I would like to work as a volunteer to bring in my expertise "  
(48 y/o, German)

"Yes. I would like to see the Government of Portugal together with the EU help to implement this idea and maybe I could be one of the lucky ones who go to the moon as a Systems Administrator "  
(44 y/o, Portuguese)

"Yes, I will be happy to inform my friends about the moon village project. I'm also interested to be involved directly."  
(19 y/o, Indian)

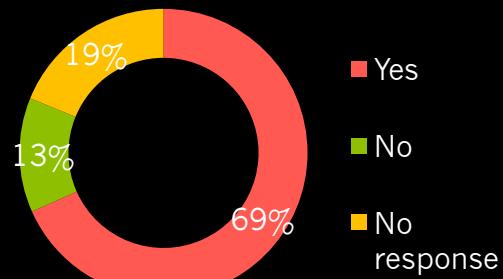
"Yes, as a teacher; to encourage students to dream big and pursue those dreams."  
(64 y/o, American)

"Absolutely. Teach the people around me about the scientific facts as opposed to the various circulating myths."  
(27 y/o, Indian)

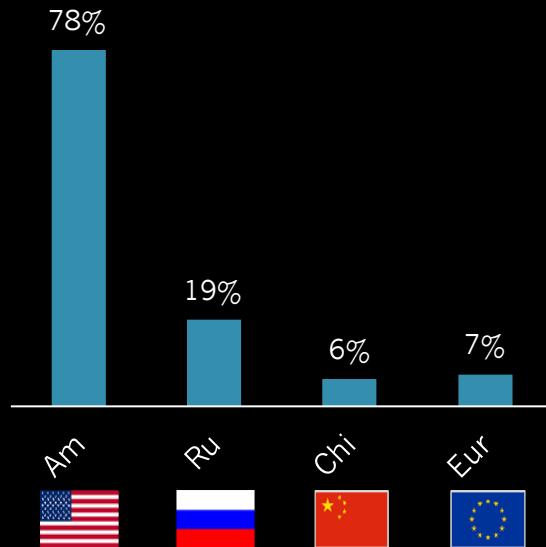
"Currently studying in a STEM field, been involved in rocket experiments. Hope to be able to contribute from a technical side as well as by inspiring others about science and engineering. And of course, if the possibility ever arises, I would like to go to the moon myself"  
(28 y/o, Austrian)

In general, young people are informed about Moon exploration. However, there seems to be a lack of knowledge regarding a human base on the Moon

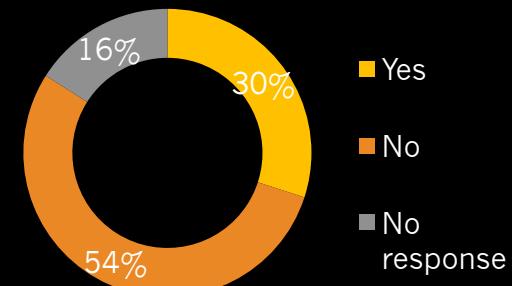
**Did humans or robots bring lunar samples back to Earth?**



**Who did walk on the Moon?**

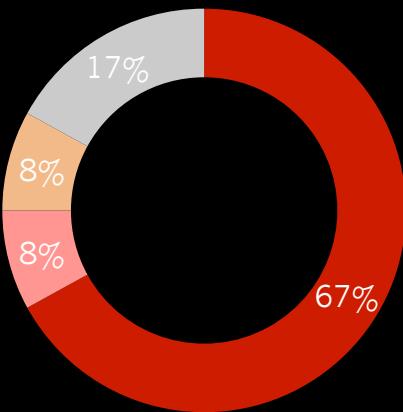


**Is there a human base on the Moon?**



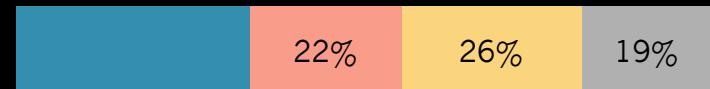
# Kids are enthusiastic about going to the Moon for scientific experiments but even as tourists

In your opinion, going to the Moon is...



- Possible but very expensive
- Easy, we send already robots to Mars
- Technically impossible
- No response

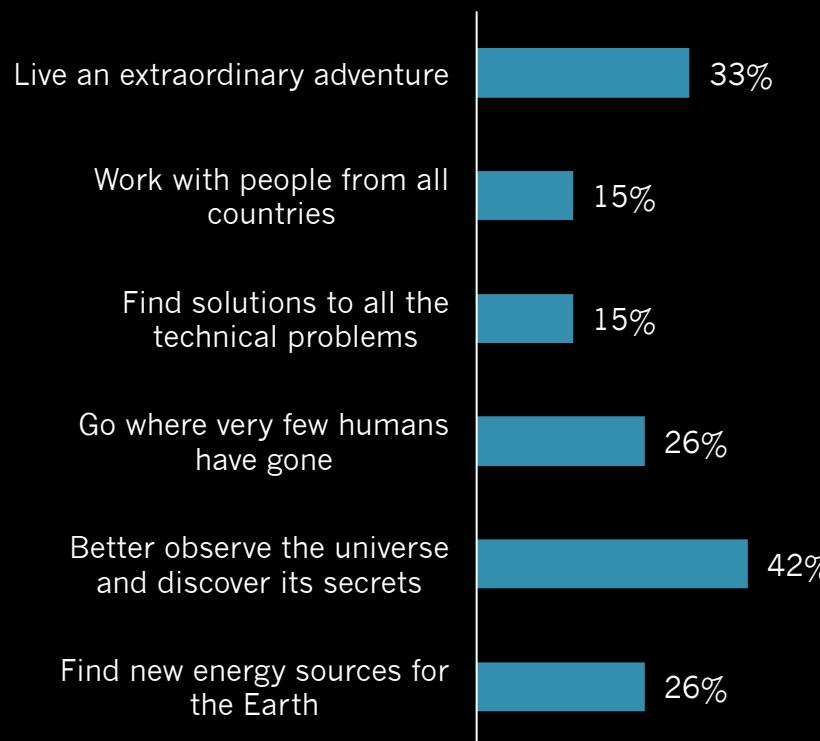
Would you like to go to the Moon?



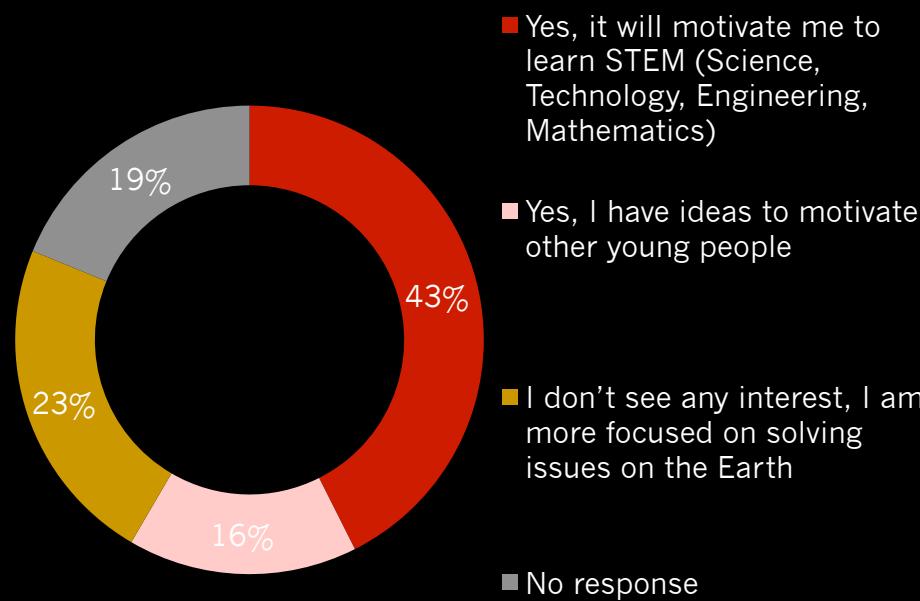
- Yes, to make scientific experiments
- Yes, as a tourist to walk there
- No, it is too dangerous
- No response

Traveling to the Moon is perceived as an exciting experience that offers the opportunity for new discoveries. Most kids believe that the Moon Village would be motivating for their future education

If you were an astronaut, what would be the main reasons for you to go to the Moon?



Do you think that the creation of a Moon Village is important?



# Children are enthusiastic about the Moon. They associate it with hope and it aspires them to discover the world



Kids & adolescents

## Life & Culture

"People say when you see the moon **god** is looking at you."

(9 y/o, Dominican)

"I like looking at the because one day I'll try to **discover its secrets.**"

(10 y/o, Spanish)

"Our ancestors used to **worship** the moon, together with the other non-living things such as the sun, the rocks, the sea, and etc. In Philippine myth, the moon goddess counterpart is named Mayari and is said to be the most deity of all..."

(17 y/o, Filipino)

Yes, I like when it's full moon, I enjoy looking at it bright and shiny, knowing that even when I don't see that it will return again."

(11 y/o, Croatian)

## Feelings

"It reminds of what humans have done what seemed to be impossible in the 60s. It means to explore the unknown and take risk to explore something new. It means to me to **go beyond our horizons.**"

(14 y/o, German)

"It makes me **proud** to know that we made it to the moon and it also makes me feel **happy**"

(28 y/o, AT)

"It means going **beyond my imagination** and going back to when I was a kid and was able to touch the stars up close and forever remember the moment."

(10 y/o, Spanish)

"The moon is **something mysterious, something interesting,** beautiful. This is something that **people have not yet destroyed.**"

(10 y/o, Ukrainian)

"...When I look at the Moon I feel **admiration** and **wonder**. The Moon for me doesn't represent just a step in Space exploration. For me it represents a whole era in human history! I believe that the Moon represents **hope**, because it is the proof that humans are capable of anything..."

(14 y/o, Greek)

# SYNTHESIS/WAY FORWARD



-First Global Survey conducted on the Moon Exploration and MV with 42 countries, reasonable balance between male and female, excellent for children and adults

- The highest number of replies were from Portugal!
  - Most of the people favorable in going back to the Moon
  - More than 70% children wants to go to the Moon
  - Many replies explain the importance of the Moon in their culture
  - Moon considered important to help environmental issues on Earth and this is even more important for children
  - Strong interest shown with respect to the Moon Village and being involved
  - Moon Village considered important to attract young people to STEM
  - Survey Data can be made available upon request to MVA
  - A detailed report will be presented at GLEX20 and IAC20
- 
- A new survey is proposed, in cooperation with other organizations, to increase the participants and understand specific measures to increase the efficiency of lunar outreach programs

*For more information on the survey, write to: mva-aso@cseo.or*

*Visit website: [www.moonvillageassociation.org](http://www.moonvillageassociation.org)*

