UNISPACE+50 Symposium

Space and Youth

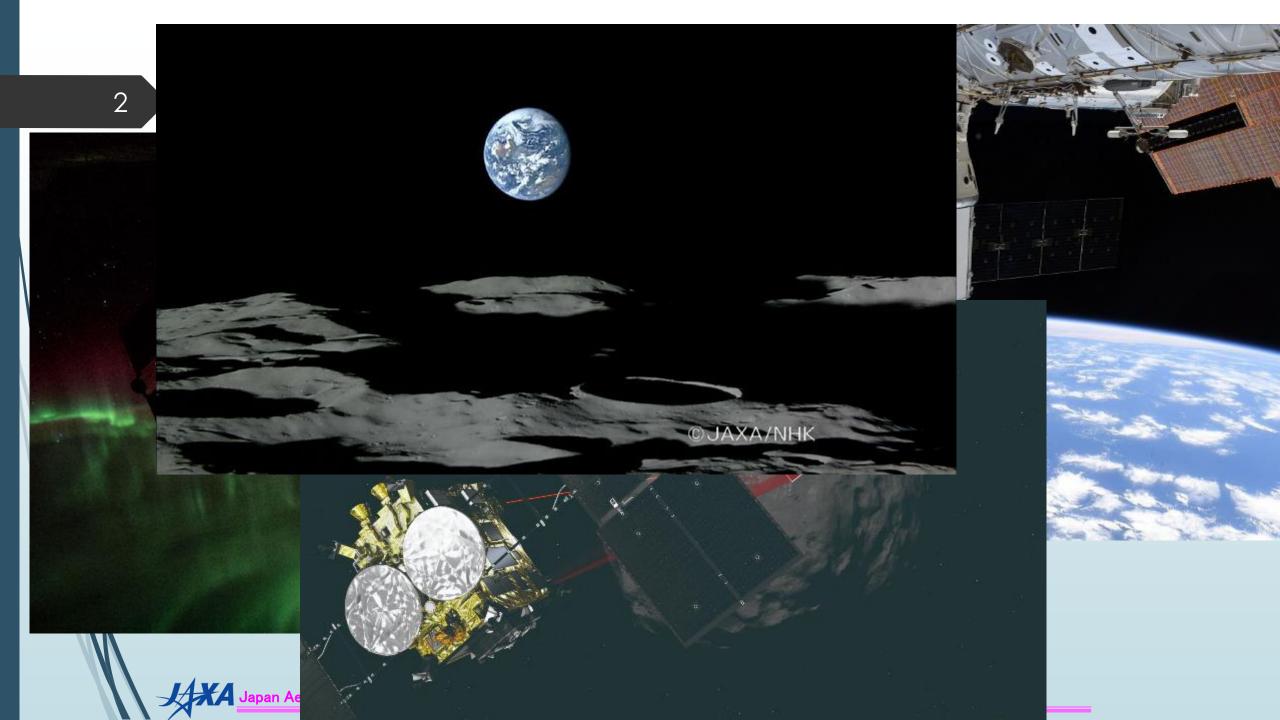
- Past, present and future importance of Space for youth -

June 19th 2018 @Vienna International Centre, Vienna, Austria Ms. Kaori SASAKI, Manager JAXA Space Education Center



About Space Education Space Based Education

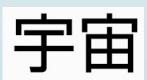
- About space education for future workforce of space community (i.e. Industry/Business, Academy, Government)
 - Acquisition of expertise and knowledge
 - Space science, technology, engineering and math (STEM)
- Space based education for all human to be equipped with social literacy
 - Ability to find own subject and to cope with it
 - Ability to leverage lessons learned
 - Attitude to continuous learning



Scope of Space Education



- Space is not only the place or phenomenon of outer the atmosphere
- Surrounding natural environment, such as weather, plants or animals, is the material for space education
- Lights of the stars are the long past days of lights
- Ancient Chinese thought form "Enanji" (approx. BC150), all of time (past, present and future) and all of expanse (up/down, right/left, NSEW) is the "UCHU" (space, cosmos, universe...)







Program – Space School for Families –

- We consider the children initial school age (5+ years old) can take the first step of space education
- They firstly learn things from families
- JAXA support local entities to host Space School for Families for local families
- Main participants are pairs of 5-10 years old children and their guardians(parents)
- They work together at home and join schoolings (2-3 times per a year)
- Closing event with home project presentations by every child

5

What happens...















Analysis and Outcomes

- "Some experiments were not easy but fun!"
- "We had some try and error but could feel achievements, share experiences and proud of children's' every effort"
- Families with Dialogical Communication style
 - Encourage proactive behavior of children
- Families with Instructional Communication style
 - Wait for commands instead of using their initiative

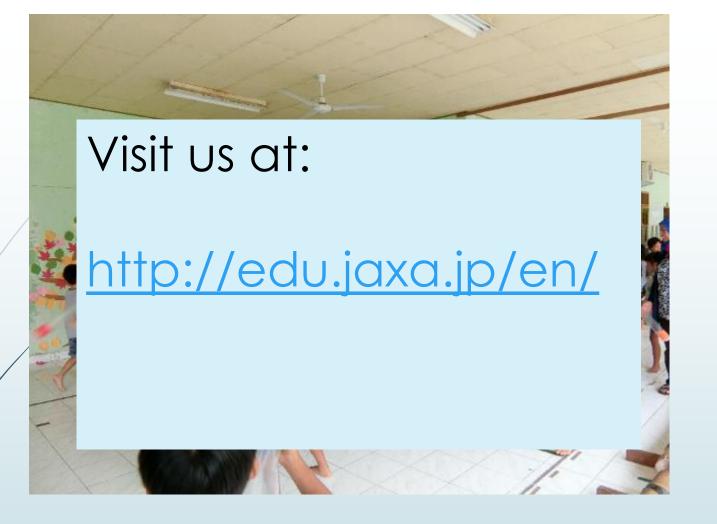


Space Education Programs by JAXA

		Elementary school	Junior-high school	Highschool	University/ Graduate school	Local public entity/community
	Informal Education	Cosmic (3rd graders – juni Space School for Families (Children and parents)	Collage or high students)	Kimission*1 (students) Aerospace School (students)	Educator ser local	Collaborate with science museums & local communities minar (collaborate with public entities)
/	Formal Education	Teachers' development and classroom partnership	Teachers' development and classroom partnership	Teachers' development and classroom partnership		Educator professional development (collaborate with local education boards)
	International engagement	APRSAF*2 Poster Contest (8-11 years old)	APRSAF Water Roc Event and educat workshop (12-16 years old a educators)	tor	ISEB*3 student program (under graduates and graduates)	APRSAF SEWG annual session APRSAF Educator Seminar (co-organize with space agencies)
	Content publishing	Website, SNS, magazine, Space Education TV, workbooks and learning materials				

*1 ... Kimission: Means "Your own Space Mission", *2 ... APRSAF: Asia-Pacific Regional Space Agency Forum, *3 ... ISEB: International Space Education Board

Japan Aerospace Exploration Agency





Thank you very much for your attention.