



GLOBAL SPACE EXPLORATION CONFERENCE (GLEX 2017)

6 - 8 June 2017
Beijing, China

GLEX 2017 Highlights

www.glex2017.org

Welcome Message

The GLEX 2017 conference which took place the 6-8 June in Beijing, China, was a great success! More than 1000 experts from all over the world gathered in China to discuss on important topics in Space Exploration. The programme was very dense and constituted of a wide variety of events with several plenaries, highlight lectures, technical sessions and GNF sessions. This was the sixth Global Conference that the IAF has organised and the second with the theme on Space Exploration, following GLEX 2012 in Washington DC.

In line with its mission to encourage cooperation, promote international development and share knowledge, the IAF is committed to supporting the international relationships that enable exploration of outer space. GLEX 2017 was designed to encourage the sharing of programmatic, technical and policy information, as well as collaborative solutions, challenges, lessons learnt, and paths forward among all nations with the desire to explore space.

A special thanks to our co-organiser and host, the Chinese Society of Astronautics (CSA), who did their foremost to ensure the success of this conference and whom the IAF looks forward to organising future events together with.

It is with pleasure that we provide you with this booklet documenting the highlights of GLEX 2017. We sincerely hope you will enjoy it and count on your participation to many more Global Conferences!



Jean-Yves Le Gall

President

International Astronautical Federation (IAF)



Pascale Ehrenfreund

Vice President for Communications, Publications and Global Conferences

International Astronautical Federation (IAF)

More than **1000** delegates from **50** countries!

4 Plenaries

9 Keynotes

9 GNF Sessions

26 Technical Sessions





Opening Ceremony

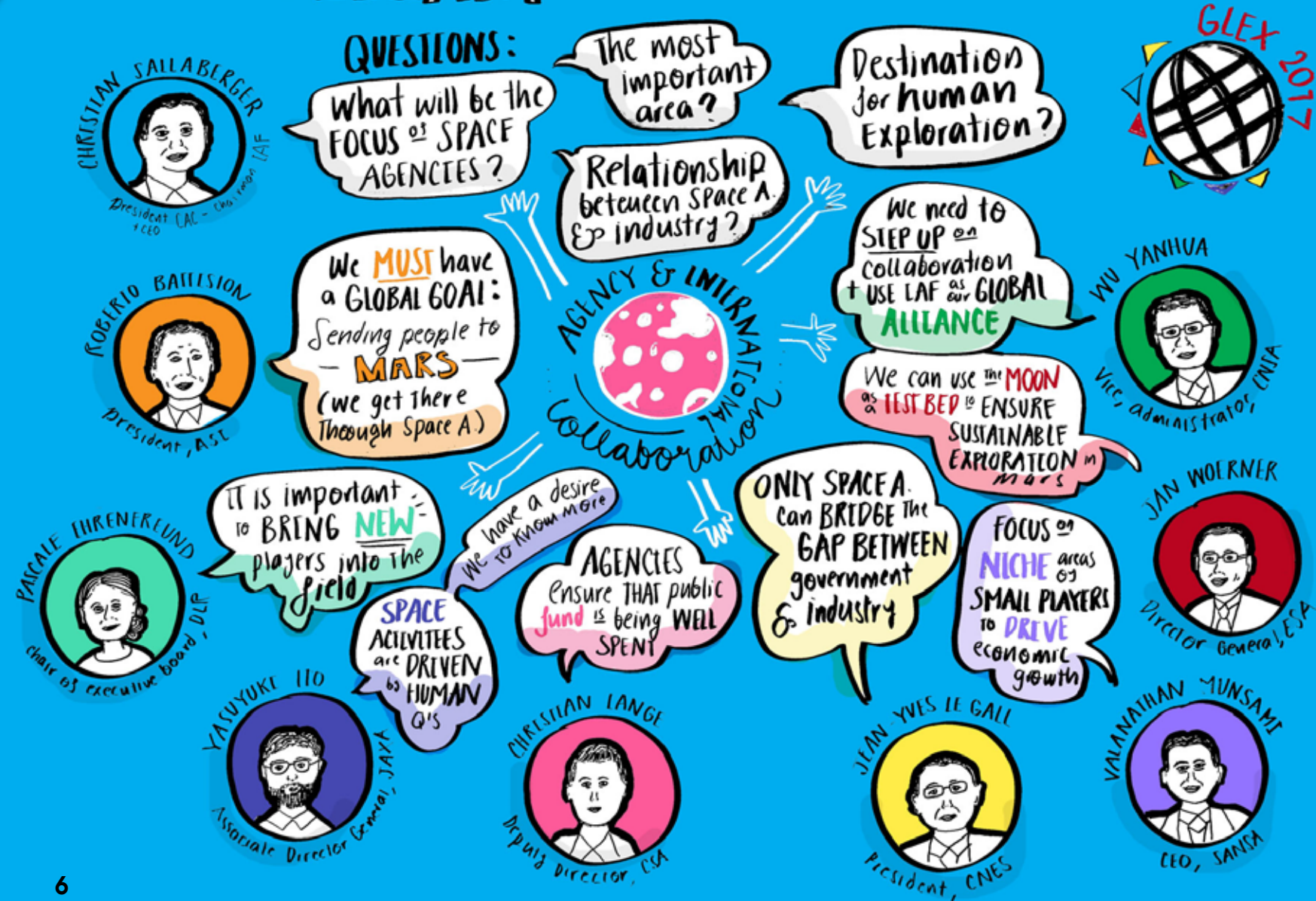


"International Cooperation will ensure a better future for humankind."

Xi Jinping, President, People's Republic of China



PLENARY 1: HEADS OF AGENCIES



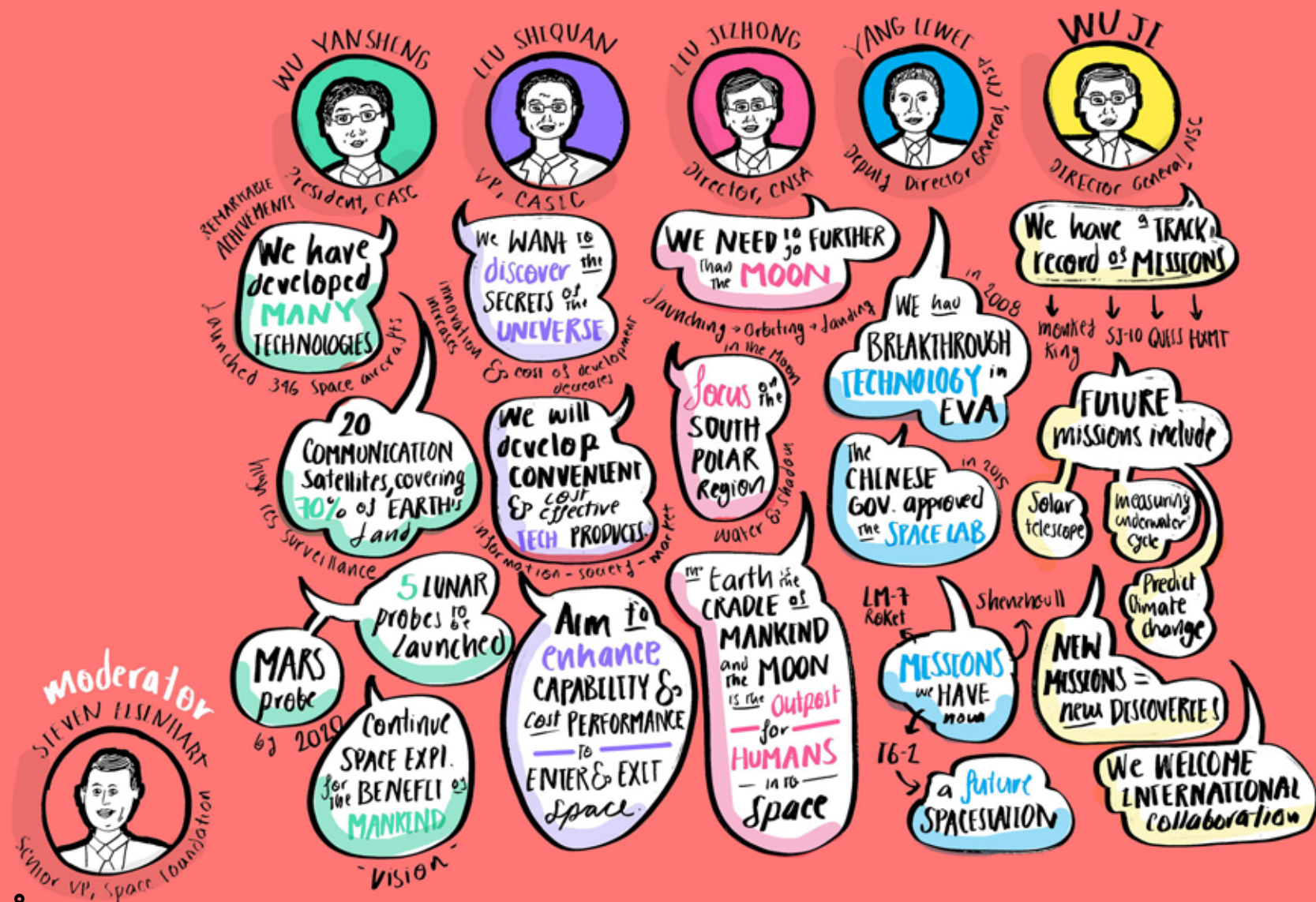
PLENARY 1: Heads of Agencies



"Sending Men to Mars is the ultimate endeavour in front of Mankind."

Roberto Battiston, President, Italian Space Agency (ASI)

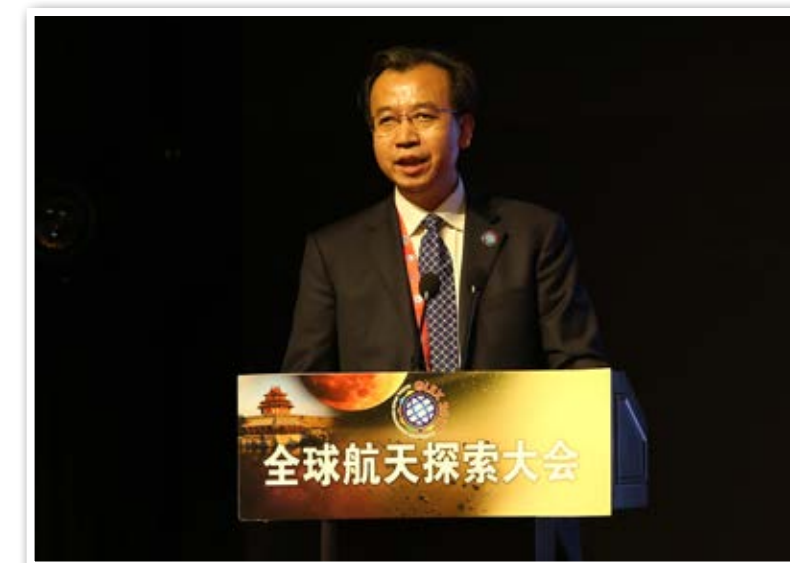
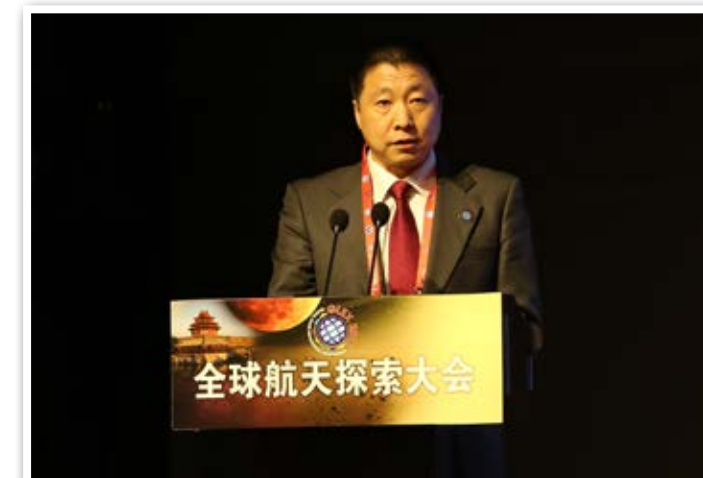
PLENARY 2: The DEVELOPMENT & PROSPECT OF CHINA'S SPACE ACTIVITIES

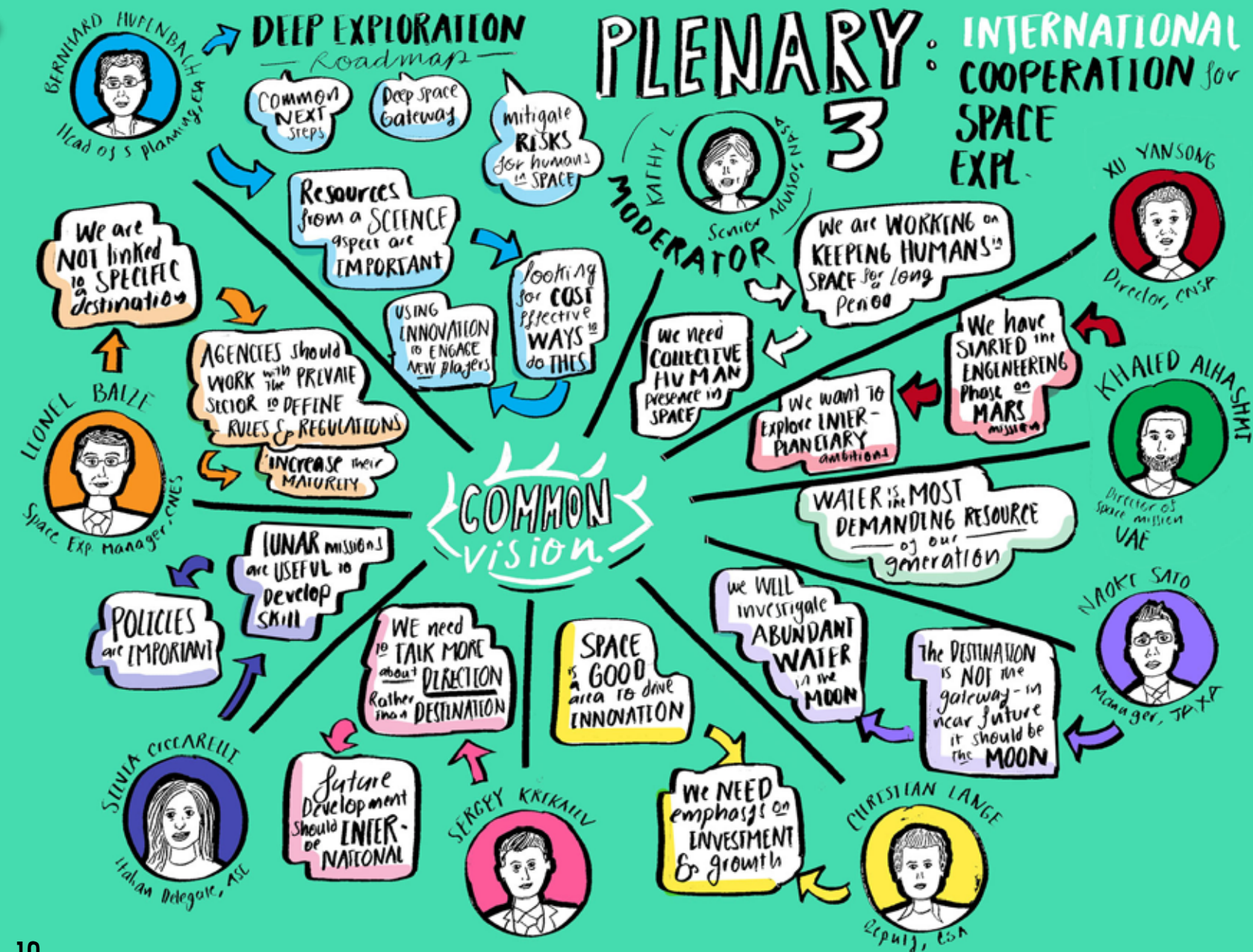


PLENARY 2: The Development and Prospect of China's Space Activities

"China is making preliminary preparations for a manned lunar landing mission."

Liu Shiquan, Vice President, China Aerospace Science and Industry Corporation





“In order to foster cooperation the ISECG Exploration Roadmap identifies concrete opportunities where Agencies can work together to address the challenges of future missions.”

Bernhard Hufenbach, Head of the ESA Strategic Planning and Outreach Office for Space Exploration, European Space Agency (ESA)

PLENARY 4: the ROLE of AFRICAN space nations in global space exploration

MODERATOR
ASANDA SANGONI
Liaison Specialist, SANSA

We ASPIRE to BE PART of Space exp. programmes, discussions & initiatives

We want future **greater** collaboration

We say **YES** to global collaboration

We have **3** satellites in orbit

Our Agency is amongst the **OLDEST** in AFRICA

MOHAMMED BEKHIZ
Head of Research
Algerian Space Agency

We NEED our **YOUNGER** generation to get INVOLVED in the whole range

all space activities are **CATALYSTS** for change

JOHN NDROGE KIMANE
CEO, Kenya National
Space Secretariat

SPACE expl might be a way to **BREAK** out of **POVERTY**

Just because efforts are **MODULAR** doesn't mean they are **INEFFECTIVE**

VALANATHAN MUNSAMI
CEO, South African
National Space Agency

if you go **FAST**, you go **ALONE** - if you want to **GET THERE**, you go with **OTHERS**

AFRICA has the **RIGHT** DRY climate **CONDITIONS**

AFRICA has the **YOUNGEST** population in the **WORLD**

We NEED **POLITICAL** & **PUBLIC** support

HUMBANI MASHELENE



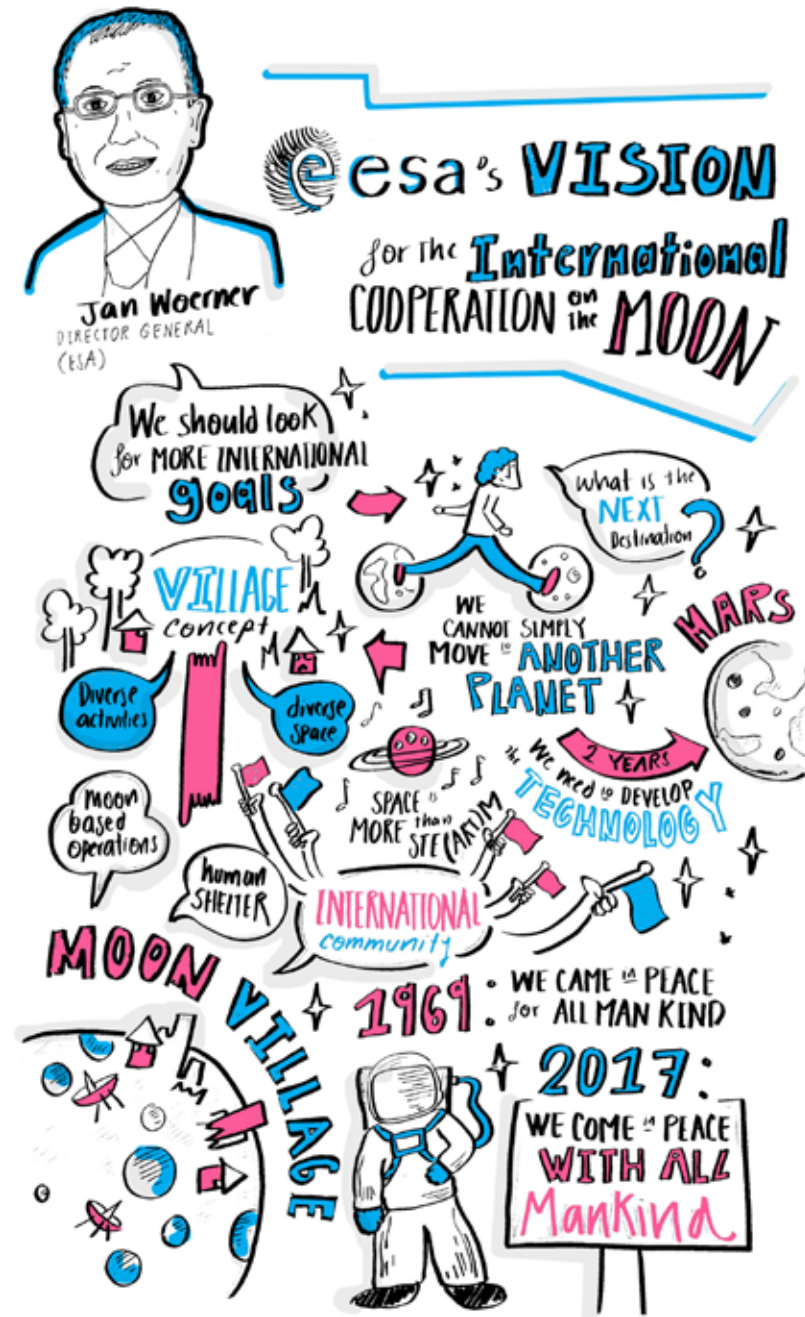
"You only break out of poverty if you have a vision and space exploration can inspire the way."

Valanathan Munsami, CEO, South African National Space Agency (SANSA)



PLENARY 4: The Role of African Space Nations in Global Space Exploration





"The Moon Village is a vision for global cooperation."

Jan Woerner, Director General, European Space Agency (ESA)

KEYNOTE 1: ESA's Vision for the International Cooperation on the Moon



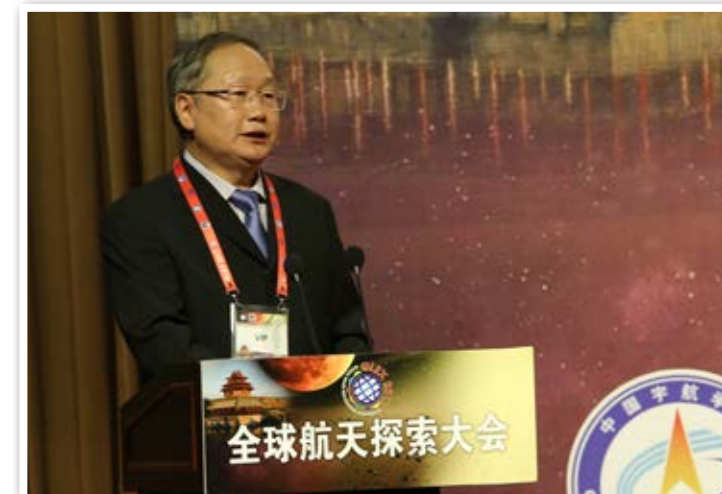
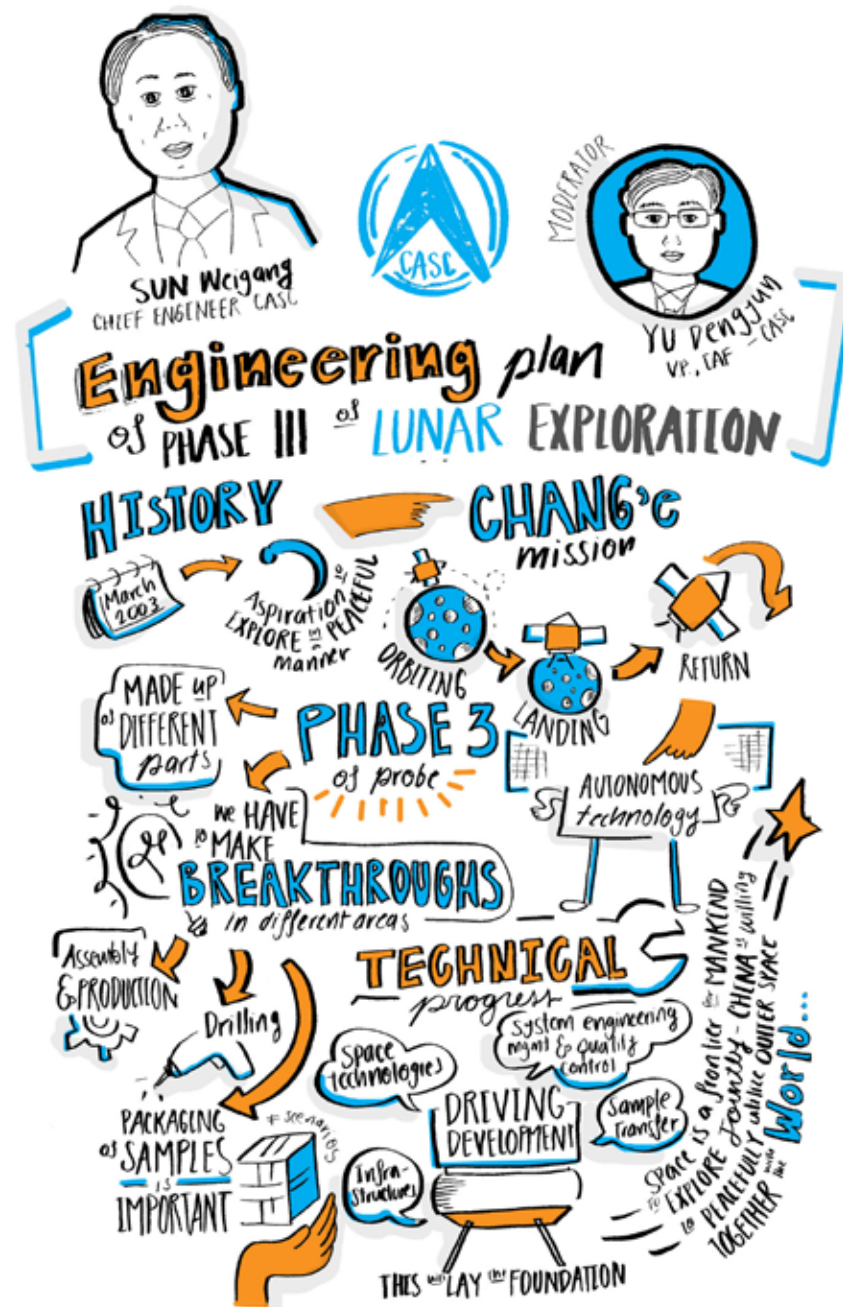


KEYNOTE 2: Recent Developments in Lockheed Martin's Human Space Exploration Programme



"Using the existing technologies will let us accomplish the space goals quicker."

Rob Chambers, Program Strategy Lead for Orion Production, Lockheed Martin Space Systems Company



KEYNOTE 3: The Engineering Plan of China's Lunar Exploration Program Phase III and Its Technological Progresses

"China will implement its last of three steps strategy of "orbiting, landing and returning" for the lunar exploration programme by launching the Chang'e-5 lunar probe by the end of 2017 and realising soft landing, sampling and return."

Sun Weigang, Chief Engineer, China Aerospace Science and Technology Corporation





KEYNOTE 4: Cycling Pathways to Mars

"We can establish permanent human settlement habitats on Mars."

Buzz Aldrin, Astronaut, Gemini 12 & Apollo 11, Buzz Aldrin Institute at Florida Tech





KEYNOTE 5: At the Crossroad of Space Exploration: the Thales Alenia Space Contributions



"Focusing on human exploration, the first step is full exploitation of LEO, then the lunar orbit and then we can jump to Mars."

Roberto Provera, *Director for New Initiatives & Customer Solution Development, Thales Alenia Space*

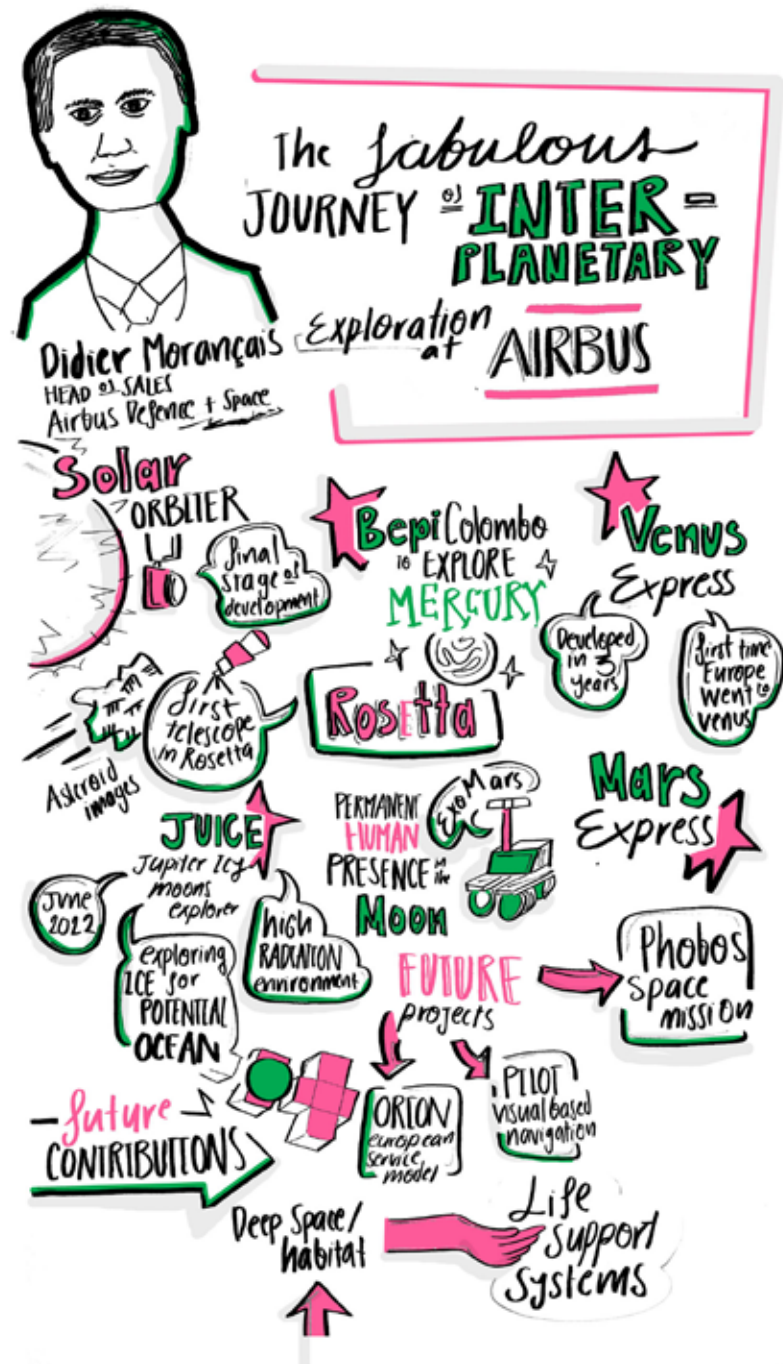


KEYNOTE 6: Space Launch Vehicle's Development in China



"Space transportation systems play a key role in space exploration and require long-term development effort."

Lu Yu, Director of Science and Technology Committee, China Academy of Launch Vehicle Technology (CALT)

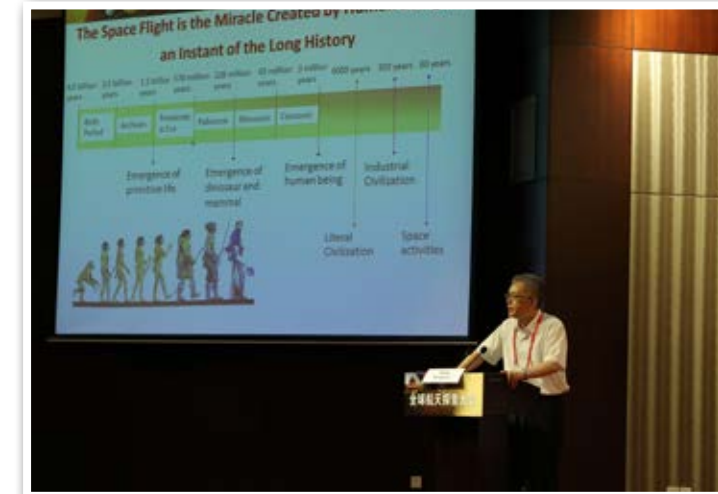


"Mars has become the priority target in human exploration."

Didier Morancals, Head of Sales – Science & Exploration, Airbus Defence & Space

KEYNOTE 7: The Fabulous Journey of Interplanetary Exploration at Airbus





KEYNOTE 8: Prospect of China's Deep Space Exploration

"Leaving Earth is the inherent nature & spiritual pursuit of humanity."

Zhang Rongquiao, Chief engineer of Lunar Exploration and Space Engineering Center, China National Space Administration (CNSA)





KEYNOTE 9: The Open Experimental Resources of Serve Payloads for International Cooperation Onboard Space Station



"China will help the emerging countries of the United Nations to enter into space by providing resources on board the Chinese space station."

Wei Chuanfeng, Deputy Chief Director of Tiangong-2 Space Laboratory, China Academy of Space Technology (CAST)



Global Partnership in Space Exploration and Innovation



Development Strategies and Scientific Objectives of Deep Space Exploration in China Before 2030

Exploration and Space Economy: the new paradigm of forefront developments



GNF Programme

Research on Technology
Validations of Deep Space
Exploration in the Space Station

Low-Cost Access to Space

Development and Prospects
of China Small Satellite



ILOA Galaxy Forum China
2017 – Results

Convenient and Cheap
Spatial Data Acquisition
and Service Technology
Communication and Display

Low-Earth Orbit (LEO) –
The “Trending New Orbit”
for the Future of Manned
Spaceflight?



Lunar Exploration

Exploration of Near Earth Asteroids



Law Issues and Public Awareness Related to Space Exploration



Space Laboratory, Space Station and Space Exploration

Mars Exploration

Entering into Space and New Energy and Propulsion Technology

Values and New Models for Space Exploration

International Cooperation for Space Exploration

Exploration of Other Destination



Scientific Objective and Infrastructure of Space Exploration

Technical Programme
200 Technical Presentations



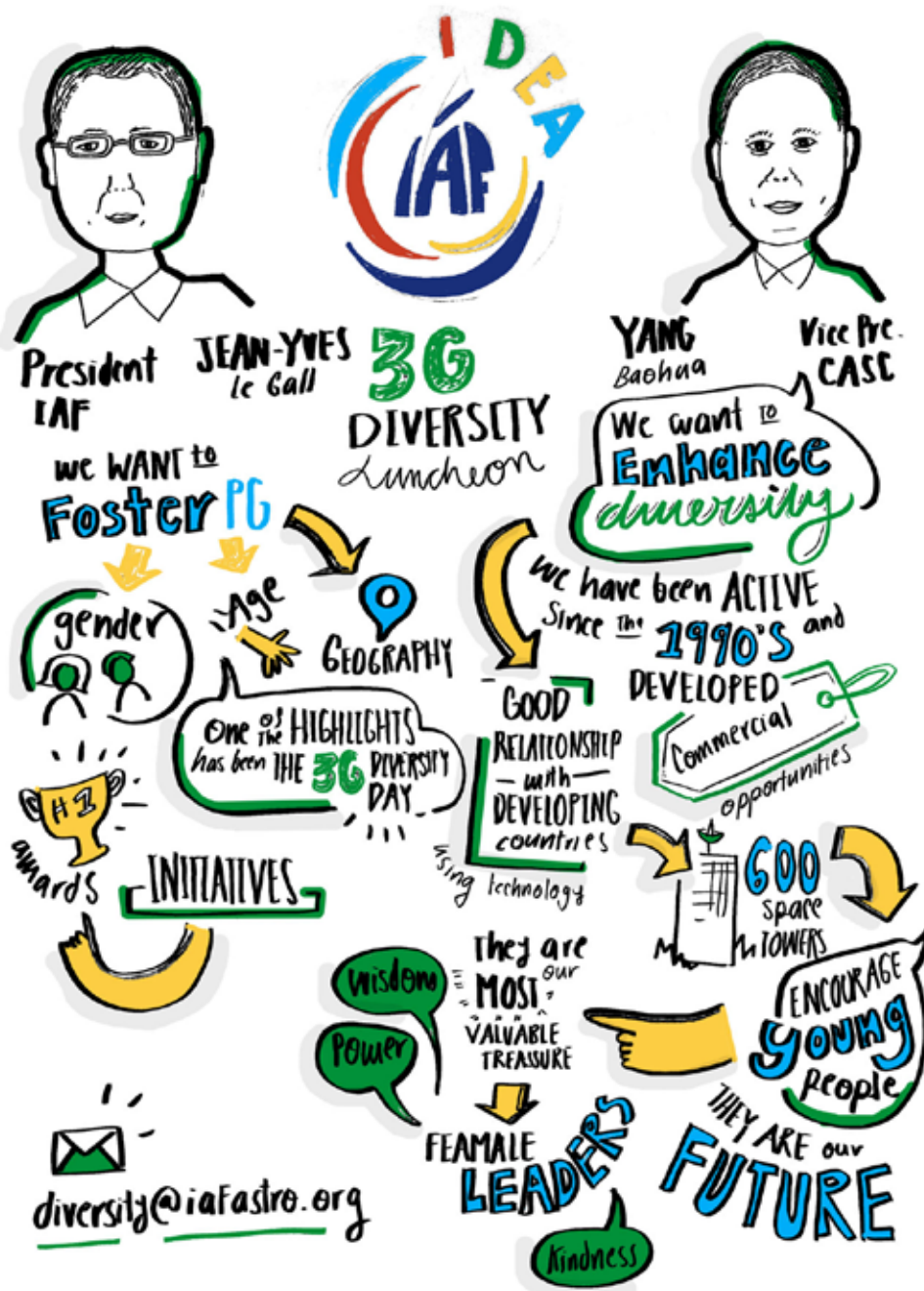
50 Posters

Key Technology of Space Exploration

Challenges of Life Support/Medical Support for Manned Space Exploration

Small Satellites





Generation, Gender and Geography

IDEA 3G Diversity Luncheon

"Will the first astronaut crew landing on Mars be an international crew and will it consist of female and male astronauts?"

Jean-Yves Le Gall, President, International Astronautical Federation (IAF)



GLEX 2017 SpaceUp



The third in the IAF's Global Conference SpaceUp events for students and young professionals took place at GLEX. Thanks to the hard work of the IAF Secretariat and the Chinese Society of Astronautics and the support of a range of sponsors, SpaceUp GLEX - the first ever SpaceUp in China - was extremely successful, attracting around 70 participants, both Chinese and international, as well as being live-streamed to a large online audience.

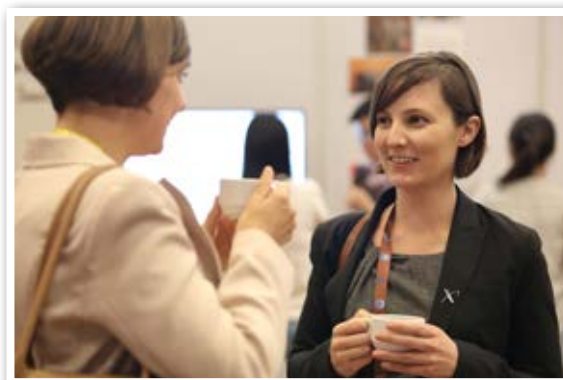
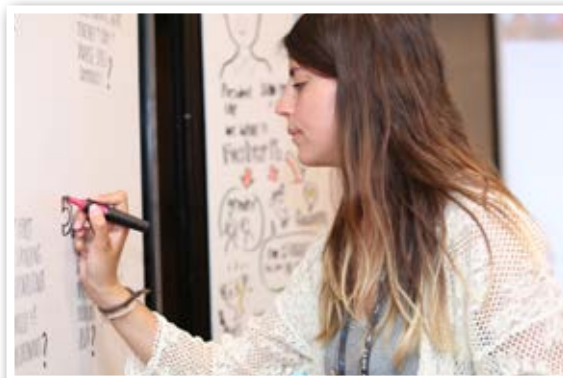




GLEK 2017 was an outstanding event!
See you at the Global Space Applications Conference GLAC 2018 in Uruguay!

Closing Ceremony







International Astronautical Federation

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Connecting @ll Space People