

## **IAA Study Group Status Report**

**Responsible Commission:** IAA commission 3 on Space technology and System development.

**Study Number and Title:** SG3.23, “Human Space Technology Pilot Projects with Developing Countries”

**Short Study Description** (repeat from Study Group Proposal): At the UN/China Workshop on Human Space Technology held in China, in September 2013, organized by UN Human Space Technology Initiative, CMSA and IAA, more than 31 different countries and regions around the world gathered. The participants defined several recommendations on how to foster the involvement of developing countries in Human Space Technology and this Study Group [SG 3.23] is fulfilling one of the recommendations.

The main goal of this Study Group is to define Pilot projects, with space developing countries, making use of synergies between Human Space Technologies and Sustainable Development activities. For this SG, the space developing countries considered are those having space programs and need not be human spaceflight activities.

The Pilot projects will make use of existing ground and space infrastructures in space fairing countries. The aim is to support scientific and economic growth in space developing countries while getting them involved in Human Space Technologies. Pilot projects shall include not only experiments to be carried out (on ground or in space) or capacity building activities but also implementation of the results in space developing countries activities.

The Pilot projects will be selected following a Call for Proposals issued by IAA. The Study Group will have close interaction with the Human Space Technology Initiative of the United Nations Office for Outer Space in order to insure complementarity of the proposed activities

### **Progress in past six months:**

- Study group had four teleconferences through Skype-22 December 2014, 19 January 2015 and 12 March 2015
- Members : Total 32 members (including co-chairs and secretary) from 12 countries as given in Annex-1.
- Content of the Study report has been finalized after discussion in teleconferences and is given below.

#### 1. Introduction

2. Space Developing Countries - Challenges and Opportunities
3. Human Space Technology & Infrastructure Survey and their relevance for Space Developing Countries
4. Call for Pilot Project Proposals
5. Pilot Projects Selection
6. Preliminary Implementation Plan
7. Decision Roadmap
8. Recommendations
9. Conclusions
10. References
11. Annexures:

Annex-1, Call for Pilot Project Proposals, Details

Annex-2, Post 2015 Development Agenda and relevance to Human Space Technology

- Teleconferences held between Co-chairs and Secretary four times and the modalities of work and contents of report finalized. A draft report prepared and circulated to all 32 members for their comments and feedback, which are awaited.

**Website Study Information update:** (please give any update regarding Study Group Membership, documents, Study Plan and Schedule):

- There are 32 members in the group now and list is available in website.

**Issues requiring resolution?** (recommend approach):

- More active participation from members required. It is decided to form three or four groups with a group leader and divide the chapters for further elaboration.
- It is also proposed to hold telecom with more members and enrich report with more of their contribution

**Product Deliveries on Schedule?** (If modified explain rationale):

- Yes

**Study Team Member Changes?** (List any Study Team Members that you wish to discontinue, and provide names plus contact coordinates of any Members you wish to add on the second page of this Study Update form.) Note: Complete contact information including email, tel. and fax must be provided for all additions. Only Members with complete contact information will be listed and receive formal appointment letters from the IAA Secretariat.)

**Name of person providing Study Group Status (Study Group Chair or Co-Chair):**

Dr Giuseppe Reibaldi (Co-chair, Italy) and Prof.Fengyuan Zhuang (Co-chair, China),  
Secretary :Dr. Unnikrishnan Nair S. (India)

**Status Report Date: 13 March 2015**

**Study Team Membership Changes**

Effectivity Date:

**Discontinue:**

Name  
Current email address

Name  
Current email address

Name  
Current email address

**Add:**

Name  
Current email address  
Tel.  
Fax  
Mailing address

No	Name		Country	Email	Remarks
1	Giuseppe Reibaldi	Co-Chair	Italy		ok
2	Zhuang Fengyuan	Co-Chair	China		ok
3	Unnikrishnan Nair	Secretary	India		ok
4	Werner Balogh	Member	Austria		ok
5	Fairos Asillam	Member	Malaysia		ok
6	Yean Joo Chong	Member	Singapore		ok
7	Nandu Goswami	Member	Austria		ok
8	Min Chen	Member	China		ok
9	Yinghui Li	Member	China		ok
10	Hong Liu	Member	China		ok
11	Qiusheng Liu	Member	China		ok
12	Yulin Deng	Member	China		ok
13	Peng Shang	Member	China		ok
14	Yongding Liu:	Member	China		ok
15	Jingnon Weng	Member	China		ok
16	YangYang	Member	China		ok
17	Inho Choi	Member	Korea		Not in IAA site list
18	Mukai Chiaki	Member	Japan		ok
19	Yamashita Masamichi	Member	Japan		ok
20	Iwase Satoshi	Member	Japan		ok
21	QinYi-Xian	Member	USA		ok
22	Wu Honglu	Member	USA		ok
23	Laurence Retman Young	Member	USA		
24	Macleish Marlene	Member	USA		ok
25	Shumilina Irina	Member	Russia		ok
26	Peter Graef	Member	Germany		ok
27	Akinyede Joseph	Member	Nigeria		Not in IAA list
28	Gerzeri Rupert	Member	Germany		ok
29	John Charles	Member	USA		Not in IAA list
30	Othman, Mazlan	Member	Malaysia		Not in IAA list
31	Kozlovskaya Inessa	Member	Russia		Not in IAA list
32	Sawat Tantiphawad	Member	Thailand		ok
33	Prof. Suk Ho Chung	Member	Saudi Arabia		ok
34	Prof. Imran Amin	Member	Pakistan		ok
35	Bin Asillam MHD	Member	Malaysia		ok

	Fairos		National Space Agency of Malaysia (ANGKAS A)- National Space Center		
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