

**United Nations
Human Space Technology Initiative
(UN-HSTI)**

**Under the Framework of
The Programme on Space Applications**

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UN Programme on Space Applications



- ◆ 1959: UN General Assembly created the **Committee on the Peaceful Uses of Outer Space (COPUOS)**.
 - i. To review the scope of international cooperation in peaceful uses of outer space.
 - ii. To devise the programmes in this field to be undertaken under the UN auspices.
 - iii. To encourage continued research & dissemination of information on outer space matters.
 - iv. To study legal problems arising from the exploration of outer space.

- ◆ 1968: “**UN Programme on Space Applications (PSA)**” was established in response to recommendations of the first UNISPACE (UN Conference on Exploration and Peaceful Uses of Outer Space).

- ◆ 1971: **The Programme became operational**. UNOOSA, as the Secretariat of COPUOS, was also given the responsibility for implementing the Programme.

Workshops/Conferences/Seminars (1971-2010)



Expert Meetings/Seminars/Workshops/International Conferences held 271 times
Participating nations; 67 countries (18,251 participants)

- Mountain Regions
- Tele-Health/Tele-Medicine
- Natural resources management
- Environmental monitoring
- Water Management
- Socio-Economic Benefit
- Global Navigation Satellite Systems
- Space Science
- Space Law

International Space Station (ISS)

UNISPACE III (in 1999)

The third and the latest UN Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE III) *recognized the importance of the ISS.*

Report of the UNISPACE III. (*Background and recommendations of the Conference, G. Harnessing the potentials of space at the start of the new millennium*)

400. International partnerships and cooperation between countries and companies involved in the operation and utilization of the International Space Station and those countries not yet participating in that endeavour should be encouraged.

401. Information about utilization of the International Space Station should be disseminated throughout the world in order to increase awareness of the matter in countries not yet participating in that endeavour.

402. Mechanisms for improving accessibility from a technical and financial point of view (for example, loans from the World Bank) should be encouraged to simplify utilization of the International Space Station, especially for developing countries.”

Human Space Technology Initiative (HSTI)

- Launched under the framework of the UN Programme on Space Applications -

Mandates:

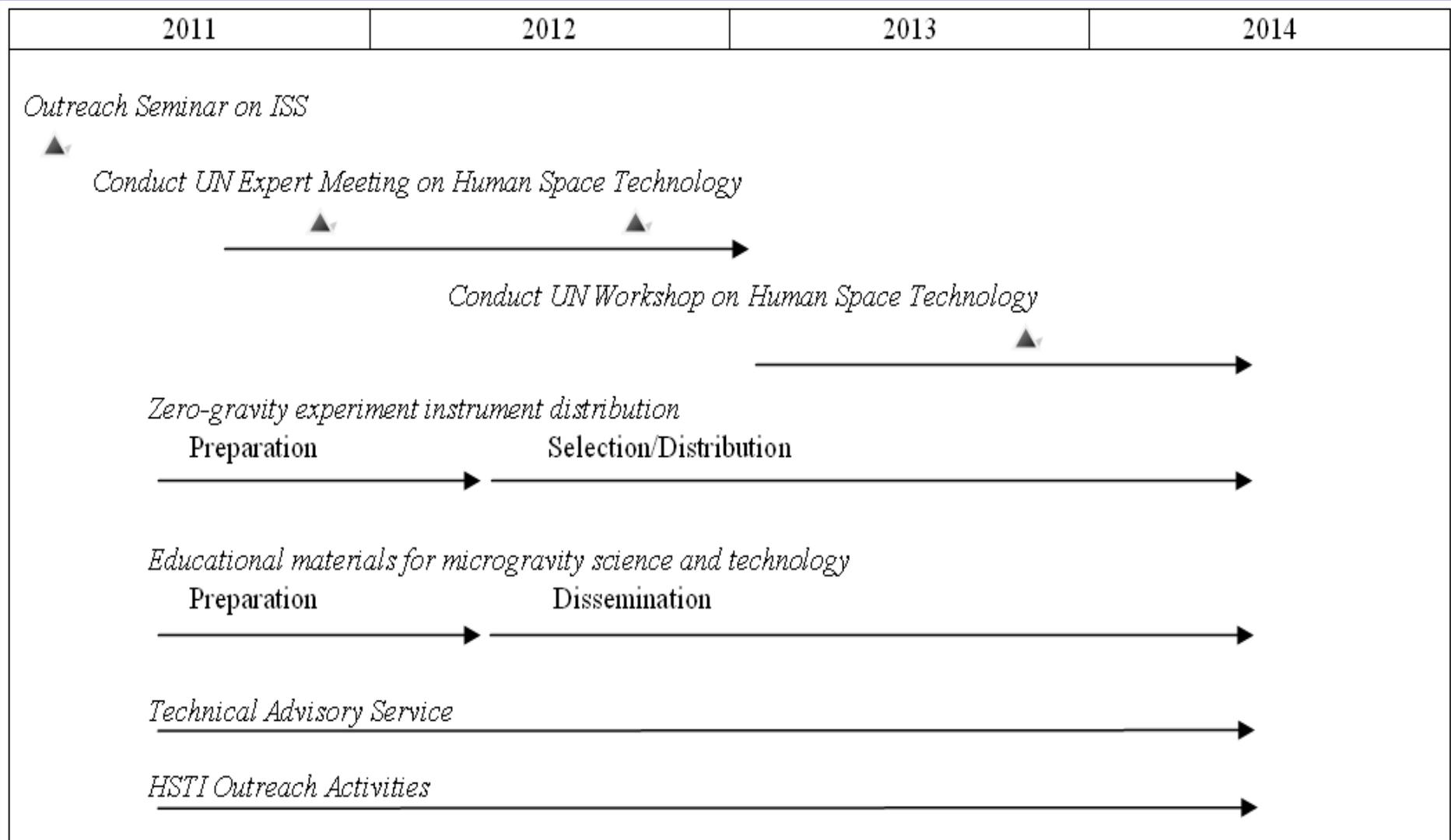
- Promote international cooperation in human space flight and space exploration-related activities;
- Create awareness among Member States on the benefits of utilizing human space technology and its applications;
- Build capacity in microgravity education and research.

HSTI Work Plan (2011-2013)

Objectives /principal activities

- 1) Provide a forum for exchange of information between ISS partner and non-partner countries
 - ◆ Organizing annual expert meetings/workshops/symposium in different world regions.
 - ◆ Bringing experts together in order to establish a common view on how to facilitate HSTI.
- 2) Inform Member States about microgravity research opportunities on ISS and other facilities.
 - ◆ Publishing and distributing of materials to Member States.
 - ◆ This will increase awareness of the possibilities/benefits of microgravity science.
- 3) Support Member States in increasing their competence level for microgravity research.
 - ◆ Distribution of educational materials to researchers/students for increasing their capacities in relevant disciplines.
 - ◆ The most substantial part: Distribution of zero-gravity experiment instruments to institutions in developing countries, in order to provide them with a low-cost, and easy way to conduct research under conditions similar to microgravity.

HSTI 3-Year Work plan





Office for Outer Space Affairs
United Nations Office at Vienna

Courtesy STS-123 crew

A photograph of the Space Shuttle Columbia in orbit, showing the orbiter, external tank, and solid rocket boosters. The shuttle is centered in the frame, with the Earth's blue and white cloud-covered surface visible in the background.

***TOGETHER,
REACH FOR THE STARS!***

STS-123 crew

62nd International Astronautical Congress, Cape Town, SA , 5 October, 2011, Human Space Technology Initiative / UN-HSTI