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Committee on the Peaceful Uses of Outer Space Forty-sixth session Vienna, 11-20 June 2003 Item 7 of the provisional agenda* Implementation of the recommendations of the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE III)

> Input from the action teams for the report of the Committee on the Peaceful Uses of Outer Space to the General Assembly at its fifty-ninth session for its review of the implementation of the recommendations of the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE III)

Note by the Secretariat

1. At its fortieth session, the Scientific and Technical Subcommittee of the Committee on the Peaceful Uses of Outer Space continued to consider, through its Working Group of the Whole, the implementation of the recommendations of the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space (UNISPACE III). The 11 action teams that had been established by the Committee on the Peaceful Uses of Outer Space at its forty-fifth session¹ reported to the Working Group of the Whole on the work that they had conducted to date.

2. The Scientific and Technical Subcommittee noted with appreciation the efforts made by the chairpersons and members of the 11 action teams in making progress in the implementation of the recommendations of UNISPACE III for which they were responsible. The Subcommittee noted with satisfaction the substantial progress achieved by many action teams (A/AC.105/804, para. 63).

3. The Scientific and Technical Subcommittee welcomed the establishment by the Committee at its forty-fifth session of a working group to prepare a report of the

* A/AC.105/L.244

V.03-84551 (E)

Committee for submission to the General Assembly, in order for the Assembly to review and appraise, at its fifty-ninth session, in 2004, the implementation of the recommendations of UNISPACE III (A/AC.105/804, para. 67). It was noted that the report of the working group contained a list of sources of information that should be taken into account in preparing the report as well as an indicative, preliminary draft outline of the report.² The sources of information included recommendations and reports of the action teams.

4. With regard to the reports and recommendations of the action teams to be considered for incorporation into the report to the General Assembly, the Working Group of the Whole agreed to circulate a template to the chairpersons of the action teams. The Working Group of the Whole agreed that the action teams, in particular those which would have completed their work by June 2003, should complete and submit the template by the beginning of May 2003, for consideration by the Committee at its forty-sixth session (A/AC.105/804, annex II, para. 15 and appendix I).

5. Annexes I-XI of the present document contain the input from the 11 action teams established by the Committee at its forty-fifth session, in 2001.

6. As at 15 May 2003, the Action Team on Sustainable Development, to implement recommendation 11 of UNISPACE III, and the Action Team on Innovative Funding Sources, to implement recommendation 32 of UNISPACE III, had completed their work according to the work plans that they had submitted to the Scientific and Technical Subcommittee at its thirty-ninth session. The final report of the Action Team on Sustainable Development (A/AC.105/C.1/L.264) was submitted to the Subcommittee at its fortieth session. The final report of the Action Team on Innovative Funding Sources (A/AC.105/L.246) will be before the Committee at its forty-sixth session.

7. The Working Group of the Committee will consider the input contained in the templates completed by the 11 action teams, in preparing the report of the Commission to the General Assembly referred to in paragraph 3 above, in particular in reviewing the progress achieved by the action teams, identifying gaps in the implementation of the recommendations of UNISPACE III and considering the way ahead. As the action teams make further progress in their work and prepare their final reports for submission to the Scientific and Technical Subcommittee at its forty-first session, in 2004, it is anticipated that the input contained in the templates will be refined and revised as necessary and appropriate. Any revisions to the templates and additional input provided by the action teams will be considered by the Subcommittee at its forty-first session, when it finalizes its contributions to the report to the General Assembly.

8. Examination of the information provided by the 11 action teams indicates that most of them have completed their review of the current status of the matters relevant to the recommendations of UNISPACE III for which they are responsible. Findings of some of the action teams are based on the results of comprehensive surveys that they have conducted among the Member States, entities of the United Nations system and organizations with space-related activities. Some of them will require further work such as defining specific, concrete action necessary for the implementation of the recommendations, identifying the entities to undertake such actions and suggesting time frames.

9. In its resolution 57/116 of 11 December 2002, the General Assembly agreed that Member States should provide full support to the action teams in conducting their work. However, some of the action teams have indicated that the limited contributions from their members constituted impediments to their work. As the action teams enter the critical phase of defining actions to be undertaken to implement the recommendations for which they are responsible, the Committee might wish to call on all the members of the action teams, as well as other Member States, to provide full support to the work.

Notes

- ¹ Official Records of the General Assembly, Fifty-sixth Session, Supplement No. 20 and corrigendum (A/56/20 and Corr.1), paras. 50 and 55.
- ² Ibid., Fifty-seventh Session, Supplement No. 20 (A/57/20), annex I.

Annex I

Input from the Action Team on the Environmental Monitoring Strategy

Action team number: 1 Chairpersons: Parviz Tarikhi (Islamic Republic of Iran), Abdul Rahim Loulou (Syrian Arab Republic) and A. Movlyav (Russian Federation) Secretariat: (Islamic Republic of Iran) ١. Membership: Countries: Argentina, Australia, Belarus, China, France, Iran (Islamic Republic of), Iraq, (a) Italy, Japan, Kazakhstan, Lebanon, Mexico, Mongolia, Morocco, Nigeria, Pakistan, Philippines, Portugal, Russian Federation, Saudi Arabia, Syrian Arab Republic, United Kingdom of Great Britain and Northern Ireland, United States of America; (b) Organizations: Department of Economic and Social Affairs of the United Nations Secretariat, United Nations Office on Drugs and Crime, Economic Commission for Europe, Economic and Social Commission for Asia and the Pacific, United Nations Environment Programme, United Nations Educational, Scientific and Cultural Organization,^a European Space Agency, International Society for Photogrammetry and Remote Sensing, Space Generation Advisory Council and Manila Observatory. ۲. Brief mission statement: (a) Address the needs and requirements for use and protection of environment through improved monitoring methods approved by different countries and organizations; (b) Develop a comprehensive worldwide environmental monitoring strategy for long-term global observations by building on existing space and ground capabilities. 3. Findings: (a) In order to implement a comprehensive environmental monitoring strategy the available and produced data should be shared between the countries and organizations for better efficiency and economy; The developed countries can support setting up the strategy technically while developing (h)countries can provide field and ground data and information; The partnership between relevant national, regional and international institutions should (c) be enhanced, and the needed capacity should be built. 4. Recommendations for further action: Greater technical and scientific cooperation; (a) (b) Enhancement of knowledge and exchange of experience among countries and organizations; (c) Development of policies leading to sustainable environmental development; (d) Anchoring the current development and national environmental action plans and rural development strategies.

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•. Implementation already initiated:

(a) A questionnaire on the environmental monitoring and observation capabilities and possibilities of the member countries and organizations was prepared and distributed among members of the Action Team;

(b) The Action Team made efforts to expand and develop its activities and coverage of work by accepting new members, such as the Aquatic Ecosystem Health and Management Society.

¹. Indication of impediments to implementation:

Limited contribution from the members of the Action Team to its work.

Benefits to be derived from the implementation:

(a) Ensuring the sustainable use of ecosystems;

(b) Promoting national, regional and global cooperation on critical environmental issues.

A. Progress made by the Action Team:

(a) The Action Team has held three meetings in Vienna during the sessions of the Committee on the Peaceful Uses of Outer Space and its Scientific and Technical Subcommittee;

(b) The Action Team is in the process of compiling comprehensive information on environmental monitoring strategy provided by its members.

^a To be contacted through the Office for Outer Space Affairs of the United Nations Secretariat.

Annex II

Input from the Action Team on the Management of Natural Resources

Action tec	m number: 2 Chairperson: V. Jayaraman (India)
	Secretariat: (to be determined)
۱. Men	bership:
(a)	<i>Countries</i> : Australia, Azerbaijan, Brazil, Bulgaria, Canada, Chile, China, Czech Republic, France, India, Iran (Islamic Republic of), Iraq, Italy, Japan, Kazakhstan, Lebanon, Mongolia, Morocco, Nigeria, Pakistan, Philippines, Portugal, Russian Federation, Saudi Arabia, Syrian Arab Republic, United Kingdom of Great Britain and Northern Ireland and United States of America;
(b)	<i>Organizations</i> : Economic Commission for Europe, Economic and Social Commission for Asia and the Pacific, United Nations Educational, Scientific and Cultural Organization, ^a Space Generation Advisory Council, Manila Observatory and Philippine Astronomical Society.
۲. Brie	f mission statement:
Sustainab ecosysten Team har with the p	The millennium development goals (A/56/326, sect. III) and the World Summit on e Development have provided the framework for managing natural resources through the approach, community participation and "Green governance". The report of the Action nonizes the recommendations of UNISPACE III on natural resource management in line erspectives of the millennium development goals and the World Summit.
3. Find	ings:
systems (approach	In recent years, Earth observation technologies (remote sensing, geographic information GIS) and modelling) are being used operationally to put into the context the ecosystem towards policy formulation and planning, working out the suitable interventions and tation mechanisms and supporting directly the basis of livelihoods for poor fishermen and
(b) Promoting large-scale operationalization of Earth observation technologies, by Governments, private agencies and non-governmental organizations and at the community and stakeholders levels is of great significance. However, it is essential to understand the exact needs for information to be useful at all the levels. The use of Earth observation technologies must involve all the stakeholders, in order to become participatory in nature. One way of bringing together all the stakeholders could be through pilot or demonstration projects. The results of such a project are more likely to be accepted if a "bottom-up" approach is followed. The involvement of non-governmental organizations helps in integrating concerns at the grass-roots level. The use of Earth observation technologies as information support for "Green governance" and for the implementation of international protocols and conventions holds considerable promise and its success has already been demonstrated in some of the developing countries in the region of Asia and the Pacific;	

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(c) The use of Earth observation technologies involves a considerable amount of expertise as well as institutional mechanisms to deliver the services and products to the end-users. Among the capacity-building mechanisms, specialized training and institutional partnerships are important. Considering the urgent need for specialized training in the use of Earth observation applications in natural resource management, it is important to promote specialized training opportunities and disseminate the best practices through capacity-building activities.

4. *Recommendations for further action:*

(a) The use of Earth observation technologies in the natural resources management is important for the success of UNISPACE III as well as for the achievement of the millennium development goals and the implementation of the recommendations of the World Summit on Sustainable Development. The Office for Outer Space Affairs of the United Nations Secretariat can play the role of a catalyst in promoting and advocating the operational use of Earth observation technologies in building the natural resources base—especially in the framework suggested by the World Summit. The Office is an ideal platform to promote such concept by advocating the enabling policies among the Member States. This should make it possible to conduct proof-of-concept projects aimed at stakeholders and to establish a framework for international cooperation to promote the operational use of Earth observation technologies;

(b) It is important to develop a compendium highlighting best practices in Earth observation applications in natural resource management in line with the recommendations of the World Summit on Sustainable Development. With the analysis of experience and lessons learned based on the success stories gathered from different parts of the world—representing the diversity of the context and variety of the applications—the compendium will provide insights on the various operational issues and demonstrate the benefits of using Earth observation technologies to the stakeholders. The Action Team should take up this assignment as soon as possible;

(c) Earth observation applications in the natural resource sector require an interdisciplinary approach, involving database technologies, modelling frameworks, a multiplicity of themes and development of a decision support system. The interdisciplinary nature of Earth observation applications calls for focused and specialized training, taking into account the new paradigms emanating from recommendations of the World Summit on Sustainable Development. The Office for Outer Space Affairs could take the initiative to organize specialized training courses, taking advantage of the expertise and infrastructure available in the regional centres for space science and technology established in different parts of the world.

•. Implementation already initiated:

(a) The Space Generation Advisory Council (SGAC) is reviewing the report of the Action Team submitted to the Scientific and Technical Subcommittee at its fortieth session (A/AC.105/C.1/2003/CRP.5);

(b) The Action Team is initiating the process of compiling the compendium documenting best practices.

1. Indication of impediments to implementation:

The limited inputs from members of the Action Team, on success stories, lessons learned and expert opinions representing the diversity of the context and variety of Earth observation applications on the subject, hampered finalization of the report of the Action Team. Therefore, the report, in its present form, could not document the views and wisdom of all the members of the Action Team.

 \forall . Benefits to be derived from the implementation:

(a) In line with the recommendations of UNISPACE III, the implementation of recommendations contained in the report of the Action Team will lead to mobilization of public opinion in favour of using Earth observation technologies in natural resource management, especially in developing countries;

(b) Integration of Earth observation in natural resource management will strengthen ongoing efforts to reach the millennium development goals and implement recommendations of the World Summit on Sustainable Development, besides supporting decisions of Governments and stakeholders worldwide on managing natural resources.

 \wedge . Progress made by the Action Team:

The Action Team is in contact with SGAC on harmonizing the report of the Action Team, taking into account the findings of other action teams.

The Action Team is making efforts to compile a compendium, documenting best practices drawn from different parts of the world in managing natural resources.

^a To be contacted through the Office for Outer Space Affairs of the United Nations Secretariat.

Annex III

Input from the Action Team on Weather and Climate Forecasting

Action team number: 4		am number: 4	Chairpersons: F. D. Santos (Portugal) and D. Hinsman (World Meteorological Organization)
			Secretariat: A. Antunes (Portugal)
۱.	Men	nbership:	
	(a)	Czech Republic, Hungary Lebanon, Nigeria, Pakist	ustralia, Azerbaijan, Brazil, Bulgaria, Canada, China, Cuba, y, Iran (Islamic Republic of), Iraq, Italy, Japan, Kazakhstan, an, Philippines, Portugal, Russian Federation, Saudi Arabia, key and United States of America;
	(b)	Nations Educational, Sc	e and Social Commission for Asia and the Pacific, United vientific and Cultural Organization, ^{<i>a</i>} World Meteorological ervatory and Philippine Astronomical Society.
۲.	Brie	ef mission statement:	
inter			o enhance weather and climate forecasting through expanded of meteorological satellite applications.
3.	Find	dings:	
enha	ance v	ogical Organization (WMC	in the United Nations system and in particular the World D) planning process directly addressed activities needed to sting through expanded international cooperation in the field of
			that mechanisms within and outside of the United Nations is for international cooperation to achieve the goals set forth in
4.	Reco	ommendations for further ad	ction:
	(a) vices urces	in the implementation of	ember States of the National Meteorological and Hydrological the WMO long-term plan, including the necessary financial
` -	(b) eration iireme	hal as well as research	and international organizations providing space systems and development) that seek to meet WMO observational

•. Implementation already initiated:

The present space-based observing system is adequate to provide the data, products and services required for the present weather and climate forecasting needs and the vision for the future system responds to the increased needs for weather and climate forecasting. Two specific international groups are the Coordination Group for Meteorological Satellites and the Committee on Earth Observation Satellites (CEOS). The Coordination Group started as an informal group in 1972, to coordinate the first global geostationary system amongst satellite providers. The European Space Research Organization, the National Oceanic and Atmospheric Administration of the United States and the Japan Meteorological Agency were founder members. In 2002, research and development space agencies contributing to the space-based component of the global observing systems became members of the Coordination Group for Meteorological Satellites. CEOS was created in 1984 as a result of recommendations from the Economic Summit of the Group of Seven major industrialized nations. It serves as the focal point for international coordination of space-related, Earth observation activities among space agencies. CEOS encourages complementarity and compatibility among experimental and operational space-borne Earth observing systems through coordination in mission planning, promotion of full and non-discriminatory data access, setting of data product standards and development of compatible data products, services and applications.

1. Indication of impediments to implementation:

(impediments not indicated)

^V. Benefits to be derived from the implementation:

The extension of reliable weather and climate forecasting and assessments of the causes and course of longer-term Earth system change were two major accomplishments of WMO and its partner organizations that have a demonstrable value to humanity. However, they also opened a door towards a greater range of possibilities in the future. Annual losses due to natural disasters, most of which were weather-related, exceed on average 50,000 lives and tens of billions of dollars. Some research activities indicate that longer-term climate change would have an impact on the distribution, frequency and intensity of severe weather events. Annual decisions on food and fibre production, multi-year investments in infrastructure development, and management of fresh water resources, to name just a few contemporary socio-economic issues, could benefit significantly from reliable, extended services and products, such as:

(a) A 30-minute warning of very destructive weather events: for example, tornado prediction beyond 10 minutes is notoriously difficult but necessary in susceptible areas;

(b) A 5-day hurricane track prediction to ± -30 km: to reduce the number of false warnings resulting from the present landfall location uncertainty of 400 km at 3 days;

(c) A 10-14 day weather forecast: new measurements, especially tropospheric winds, and substantial advances in modelling capability can push short- and medium-term weather prediction to the limits;

(d) A 12-month regional rain rate: recent efforts in global water cycle modelling indicate the potential to determine regionally specific water cycle projections from global-scale water cycle observations;

(e) A 15-20 month El Niño prediction: "hindcasting" of the two most recent El Niño events indicates that this is possible with an adequate system of space-based and in situ observing capability paired with focused modelling efforts;

(f) A 10-year climate prediction: decade-scale climate prediction is theoretically possible with the extension of the research systems now being deployed to future operational systems.

A. Progress made by the Action Team:

Since its formation, the Action Team has held several workshops and meetings, including those held during sessions of the Committee on the Peaceful Uses of Outer Space and its Scientific and Technical Subcommittee. The review by the Action Team is complete and the implementation of the recommendations listed above will further enhance weather and climate forecasting through expanded international cooperation in the field of meteorological satellite applications.

^a To be contacted through the Office for Outer Space Affairs of the United Nations Secretariat.

Annex IV

Input from the Action Team on Public Health

Actio	team number: 6 Chairperson: J. Hamilton (Canada)
	Secretariat: (to be determined)
۱.	Membership:
	(a) <i>Countries</i> : Argentina, Australia, Azerbaijan, Bulgaria, Canada, China, Cuba, Czech Republic, Ecuador, Iran (Islamic Republic of), Iraq, Italy, Kazakhstan, Lebanon, Nigeria, Pakistan, Philippines, Portugal, Saudi Arabia, Slovakia, Syrian Arab Republic, Turkey and United States of America;
	b) <i>Organizations</i> : Economic and Social Commission for Asia and the Pacific, World Health Organization, ^{<i>a</i>} Space Generation Advisory Council, Manila Observatory and Philippine Astronomical Society.
۲.	Brief mission statement:
telem	To improve public health services by expanding and coordinating space-based services for edicine.
3.	Findings:
that a	a) There is a legitimate need for space-based services for telemedicine, whether in countries re members of the Group of Eight or in less developed countries;
publi	b) In addition to telemedicine, space-based technologies have other applications to improve health, for example:
	i) To identify and monitor situations conducive to emergence of specific diseases;
	ii) To conduct surveillance at the national level to identify and monitor spread of infectious liseases;
	iii) To maintain data on best medical practices and disseminate that information on a global basis;
	iv) To use space-based technologies for continuing education for the general public and for nedical professionals;
moni	c) The uses of space-based technologies listed above are specifically applicable to disaster oring and mitigation in addition to improving general public health.
4.	Recommendations for further action:
	a) Establish a secretariat;
confe	b) Identify resources for fulfilling the mission as stated above and for delivering the ets in accordance with the work plan of the Action Team, i.e. organization of a United Nations rence for telemedicine specialists, development of an international disease management rk and preparation of a report on the status and potential of telemedicine worldwide.

•. Implementation already initiated:

A preliminary discussion has taken place with the Space Generation Advisory Council regarding its possible provision of secretariat assistance.

Bulgaria has suggested the possibility of holding a telemedicine conference in conjunction with a telemedicine and telehome care trade fair planned in Luxembourg in April 2004.

 Indication of impediments to implementation:

Inability to identify adequate resources; lack of funding is the principal impediment.

Y. Benefits to be derived from the implementation:

- (a) Overall improvement of the well-being of people worldwide;
- (b) Better disease monitoring and management at both national and global levels;
- (c) Improved educational opportunities for the general public and for medical professionals;
- (d) Assistance in natural or man-made disaster monitoring and mitigation.

A. Progress made by the Action Team:

(information not provided)

^{*a*} Only to receive information.

Annex V

Input from the Action Team on Disaster Management

4		
Action te	am number: 7	<i>Chairpersons</i> : Li Chuanrong (China), J. Breton (France) and S. Parashar (Canada)
		Secretariat: Canada, China and France
۱. Me	mbership	
(a)	Colombia, Cuba, Czech Hungary, India, Indonesi Mexico, Morocco, Nige Saudi Arabia, Senegal,	Australia, Azerbaijan, Belarus, Bolivia, Canada, Chile, China Republic, Ecuador, Egypt, Finland, France, Germany, Greece a, Iran (Islamic Republic of), Italy, Japan, Kazakhstan, Lebanor ria, Pakistan, Peru, Philippines, Portugal, Russian Federatior Syrian Arab Republic, Thailand, Turkey, United Kingdom o rn Ireland and United States of America;
(b)	the Coordination of Hum the International Strategy Asia and the Pacific, Uni Project Services, Food Nations Educational, Sci European Space Agency	the United Nations High Commissioner for Refugees, Office for nanitarian Affairs of the United Nations Secretariat, secretariat of y for Disaster Reduction, Economic and Social Commission for ited Nations Environment Programme, United Nations Office for and Agriculture Organization of the United Nations, United ientific and Cultural Organization, World Health Organization, c, European Association for the International Space Year, Spac uncil, Manila Observatory and Philippine Astronomical Society.
۲. Bri	ef mission statement:	
internation relief an	onal cooperation, of an in d prevention efforts throu	Team is to examine the implementation, especially throug ategrated global system to manage natural disaster mitigation ugh Earth observation, communication and other space-relate
,	making maximum use of e	xisting capabilities and filling gaps in worldwide coverage.
	making maximum use of e dings:	xisting capabilities and filling gaps in worldwide coverage.
3. Fin (a) hampered satellites from free	dings: Space systems are alrea d by disasters. Space syste come into operation. How quent, mainly because of the	xisting capabilities and filling gaps in worldwide coverage. ady useful tools for the authorities of countries threatened of ems will become increasingly important as new generations of wever, in practice, the utilization of space systems today is fa ne cost of space-derived information, in particular at the disaster complexity and lengthy process of tasking space systems durin
3. Fin (a) hampered satellites from free preventio crisis; (b) system n commun protectio	<i>dings</i> : Space systems are alread d by disasters. Space syste come into operation. How quent, mainly because of the on phase, and the perceived The needs of users var may not meet all requirement ity but those expressed by	ady useful tools for the authorities of countries threatened of ems will become increasingly important as new generations of wever, in practice, the utilization of space systems today is fa the cost of space-derived information, in particular at the disaster complexity and lengthy process of tasking space systems durin y significantly depending on the type of disaster. One single ents. The real user needs are not those expressed by the space by local authorities involved in disaster prevention and civ necessarily use the same language as the space operators an

4. *Recommendations for further action:*

(a) Space operators should set up a mechanism to organize coordinated rapid response by space systems to disasters;

(b) The international community should establish an international mechanism to capitalize upon and disseminate expertise on space and disasters, including lessons learned and results of research;

(c) International training programmes should be organized for experts and civil protection field officers;

(d) An international entity should be created to deal with space and natural disasters.

•. Implementation already initiated:

The Charter on Cooperation to Achieve the Coordinated Use of Space Facilities in the Event of Natural or Technological Disasters (also known as the International Charter on Space and Major Disasters), initiated after UNISPACE III and now in full operation, with major partners such as the Indian Space Research Organisation, the European Space Agency, the National Oceanic and Atmospheric Administration of the United States, the Centre national d'études spatiales of France and the Canadian Space Agency, can be considered a first step in the implementation of the recommendations.

7. Indication of impediments to implementation:

(impediments not indicated)

V. Benefits to be derived from the implementation:

- (a) Easier access to space-derived information in all phases of disasters for all nations;
- (b) Establishment of an international entity dealing with space and natural disasters;

(c) In the long term, significant reduction of the toll paid by each nation to natural disasters: by adopting enhanced policies in the disaster prevention phase for urban planning and land use, based on more accurate and credible risk prediction; and by providing more accurate and credible early warning, such as in the case of floods, and immediate and efficient support to relief operations.

A. Progress made by the Action Team:

The Action Team conducted surveys among Member States on the user needs and national capacity in using space systems for disaster management. On the basis of the results of the surveys and input provided by its members, the Action Team compiled reports on those subjects.

The Action Team established six working groups on various disaster types (earthquakes, floods, forest fires, droughts, ice hazards, and oil spills and technological disasters) and four task forces on cross-cutting issues (technical and operational, organizational, capacity-building, and funding and financing aspects of disaster management). Through those subsidiary bodies, the Action Team is currently conducting a gap analysis to examine the impediments and obstacles in using space-based services and systems for disaster management and to identify possible solutions.

^{*a*} Only to receive information.

Annex VI

Input from the Action Team on Global Navigation Satellite Systems

Action team number: 10		<i>Chairpersons</i> : K. Hodgkins (United States of America) and M. Caparole (Italy)
		<i>Secretariat</i> : India, Malaysia (for compilation of the report) and International Telecommunication Union (for the web board management)
۱. <i>M</i>	lembership	
(8	Czech Republic, France, Ge Japan, Lebanon, Malaysia,	a, Belarus, Brazil, Bulgaria, Canada, Chile, China, Colombia, ermany, Hungary, India, Iran (Islamic Republic of), Iraq, Italy, Mongolia, Morocco, Pakistan, Philippines, Poland, Portugal, Federation, Saudi Arabia, Syrian Arab Republic, Turkey and
(t	Telecommunication Union, Organisation for the Safety Committee, European Asso Aeronautics and Astronau	nd Social Commission for Asia and the Pacific, International European Space Agency, European Commission, European of Air Navigation (Eurocontrol), Civil GPS Service Interface ciation for the International Space Year, American Institute of tics, International Association of Institutes of Navigation, ight and Measures, International Federation of Surveyors and
۲. В	rief mission statement:	
(a) Survey current efforts to ning system;	achieve a seamless satellite-based radio navigation and
		international cooperation and identify those with potential tion satellite systems (GNSS) and services;
and oth of awa	ner international organizations of	dations for entities of the United Nations, its Member States on actions to promote GNSS user interests, increase the level and facilitate the utilization of GNSS services, in particular in
3. F	indings:	
of civit policy individ	and commercial applications. makers of the benefits of thi ual operator. A coordination ntations, as well as appropriate	ons are generally recognized as being useful for a wide range System providers are working to increase awareness among s technology, but the task is beyond the resources of any n mechanism involving operators of GNSS and their nternational organizations, could easily be established for this

(b) It appears that the general public and governmental and non-governmental experts understand the basic utility of navigation, positioning and timing services offered by GNSS. While current and future GNSS operators are in a competitive mode, it is fully expected that collaboration will increase in order to serve the user community better. Outreach efforts must move beyond simple awareness among the general public and experts to provide assistance in the integration of GNSS into the basic infrastructure (government, commercial, scientific) of countries, in particular in the developing world. This requires the convening of regular regional workshops (similar to those recently organized by the Office for Outer Space Affairs of the United Nations Secretariat) and the development of "road maps", as well as the preparation of technical reports for the introduction of GNSS services in developing countries;

(c) GNSS signal security and integrity are one of the top priorities for the global user community, regardless of application. There is an urgent need for assistance to national and regional authorities, in particular in developing countries, to establish mechanisms for identifying and eliminating sources of interference that could degrade signals from GNSS and their augmentations.

4. *Recommendations for further action:*

(a) GNSS and augmentation providers should establish a GNSS coordination board that would include appropriate international organizations for the purposes of: (i) optimizing compatibility and interoperatibility; (ii) identifying mechanisms for implementing measures to protect the reliability and integrity of signals at the national, regional and global levels; (iii) coordinating modernization activities to meet user needs; (iv) developing "road maps" and preparing technical reports for the introduction of GNSS services; (v) organizing regional workshops; and (vi) providing training opportunities in GNSS, in particular in developing countries. It would be necessary to have a secretariat for the GNSS coordination board. One possibility would be to use the model of the Committee on Earth Observations Satellites, with secretariat responsibility rotating among the members on an annual basis. The GNSS coordination board must complement the International Civil Aviation Organization (ICAO) activities in promoting GNSS applications in civil aviation;

(b) (i) The Office for Outer Space Affairs, through the United Nations Programme on Space Applications, should continue to hold regional workshops for promoting the use of GNSS and their augmentations in developing countries;

(ii) The regional centres for space science and technology education affiliated with the United Nations should consider including GNSS programmes in their training activities;

(iii) In cooperation with GNSS and augmentation providers, or the proposed GNSS coordination board, the Office should maintain a web site to be developed to include information on systems descriptions, recent application developments, training opportunities, sources for assistance in integrating GNSS into national infrastructure as well as in protecting signal reliability and integrity at the national and regional levels. The GNSS coordination board could develop a concept and structure for the web site, as well as identify working methods to collect and update the information on a regular basis. Once this has been done, the web site could become part of the web site of the Office for Outer Space Affairs, to be maintained by the Office in cooperation with the GNSS coordination board.

•. Implementation already initiated:

The implementation of recommendation 4 (b) (i) above already started with the series of four regional workshops (Austria, Chile, Malaysia and Zambia) and one international expert meeting on GNSS for sustainable development held in the period 2001-2002 with co-sponsorship of the United Nations, the United States and the European Space Agency. An additional meeting to review progress on the implementation of recommendations made by the United Nations/United States of America International Meeting of Experts on the Use and Applications of Global Navigation Satellite Systems, held in Vienna in November 2002, is being planned for December 2003.

1. Indication of impediments to implementation:

As for the recommendations that require actions by the Office for Outer Space Affairs, one of the major impediments would be limited resources, including staff resources, to carry out additional work, in particular within the framework of the United Nations Programme on Space Applications. The same would hold true for those recommendations requiring additional resources from system providers. Whereas the civil aviation applications of GNSS are well coordinated through ICAO, the proposed GNSS coordination board would face an uphill task in promoting the use of GNSS for applications in fields other than civil aviation. This is primarily because some of the non-civil aviation applications for providing accurate position location and navigation services are dependent on telecommunications and other infrastructure available in the country. As yet, there is no international body to oversee and coordinate the specifications of the equipment and services in these areas.

 \forall . Benefits to be derived from the implementation:

Benefits from the implementation of the recommendation in section 4 (a) above would include increased awareness on the part of policy makers of the benefits of GNSS and subsequent increase in the political support that would result in government funding for the integration of GNSS into the national infrastructure. Benefits from the implementation of recommendations listed in section 4 (b) above would include the increased training opportunities in GNSS for developing countries, enhanced access by developing countries to information on GNSS and augmentations, as well as their applications and available services, and enhanced technical advisory services for developing countries to use GNSS in their development activities.

A. Progress made by the Action Team:

The Action Team has held six meetings. It has: (a) compiled comprehensive information on GNSS and augmentations, including policies, system descriptions and associated activities carried out through international cooperation; (b) conducted a global survey on the existing training opportunities in the field of GNSS; and (c) identified GNSS applications unique to regions.

Annex VII

Input from the Action Team on Sustainable Development

Action team number: 11	Chairperson: A. A. Abiodun (Nigeria)
	Secretariat: The Presidency, Abuja, Nigeria
1. Membership:	
(Islamic Republic of Peru, Philippines, Po	n, Belarus, Bolivia, Chile, China, Czech Republic, Egypt, India, Iran f), Iraq, Lebanon, Monaco, Mongolia, Morocco, Nigeria, Pakistan, ortugal, Russian Federation, Saudi Arabia, South Africa, Syrian Arab Inited Kingdom of Great Britain and Northern Ireland and United
Nations Educational Photogrammetry and	nomic and Social Commission for Asia and the Pacific, United , Scientific and Cultural Organization, ^{<i>a</i>} International Society for Remote Sensing, European Association for the International Space e Society, Space Generation Advisory Council, Manila Observatory nomical Society.
۲. Brief mission statement:	
any viable sustainable develop enhance human understanding a water—including the assessment	s that single out space technology as an indispensable component of oment agenda and specifically address how space technology can and management of fundamental life-support systems—air, land and nt and management, for example, of agriculture and food security, transportation, health care and disaster mitigation;
	al steps that each country should take in order to achieve the space its sustainable development goals.
3. Findings:	
information, is a starting point	analysis of space-acquired data, including the use of geographical on the path towards sustainable development. The inability of many oment efforts that are sustainable is rooted in poor-quality data nagement;
sustainable development issues. the Earth from Outer Space (G Mount Pinatubo in 1991, and Cooperation to Achieve the C	as brought into sharper focus the interdependence of the world on This is exemplified by the Principles Relating to Remote Sensing of eneral Assembly resolution 41/65, annex), the volcanic eruption of the entering into force, on 1 November 2000, of the Charter on Coordinated Use of Space Facilities in the Event of Natural or nown as the International Charter on Space and Major Disasters);
	nvestment and participation by Member States, in particular by e activities as a result of their recognition of the role of space ble development tool.

4. *Recommendations for further action:*

(a) Each country should urgently develop the necessary policy, commensurate with its capability, for space-related sustainable development programmes and should periodically sensitize its decision makers to the value and contribution of space science to human development through the organization of appropriate national and regional conferences. Each country should urgently develop its indigenous personnel through participation in regional centres of excellence in space science and technology and establish networks among national and regional institutions in order to facilitate and enhance collaborative research opportunities;

(b) In order to provide active coordination in environmental activities, international institutions, such as the United Nations Environment Programme and the Food and Agriculture Organization of the United Nations, should provide Member States with intellectual leadership that is built on a strong scientific and technical foundation. In order to provide a reliable basis for decision-making, existing conventions relating to sustainable development should forge stronger links with other science-based institutions worldwide, such as the International Society for Photogrammetry and Remote Sensing, the Committee on Space Research and the International Astronautical Federation (IAF), and their scientific advisory bodies should be expanded to include experts in the fields of space science and technology;

(c) At the level of political leadership, African and West Asian countries should urgently emulate the organization of programmes at the regional level similar to the activities of the Space Conference of the Americas and the Ministerial Conference on Space Applications for Sustainable Development in Asia and the Pacific. The General Assembly should find a way of regularly evaluating the compliance of Member States with globally agreed sustainable goals.

•. Implementation already initiated:

(a) Establishment of regional centres for space science and technology education sponsored by the United Nations;

(b) The ongoing organization of sustainable development activities by the Office for Outer Space Affairs of the United Nations Secretariat, the European Space Agency (ESA), the Committee on Earth Observation Satellites (CEOS) and IAF, in cooperation with Member States;

(c) The entry into force of the International Charter on Space and Major Disasters on 1 November 2000.

¹. Indication of impediments to implementation:

(a) Space activities, in particular those which can support sustainable development programmes, are not being identified as a national priority;

(b) Failure to provide the necessary political support at the national level and to make the necessary national financial and other commitments for space-based sustainable development programmes.

 \forall . Benefits to be derived from the implementation:

(a) Availability of skilled personnel who can contribute to the generation and use of scientific and technical knowledge and the making of adjustments in existing institutional arrangements;

(b) Establishment of regional and international agreements focusing on areas of cooperation in space activities that could support sustainable development efforts, including the establishment of appropriate networks;

(c) Availability of space-related advisory panels that can support the various existing international conventions relevant to sustainable development;

(d) Establishment of agreements between each country and funding entities, such as the United Nations Development Programme, the World Bank and the International Monetary Fund, focusing on providing support for those aspects of the country's development agenda which emphasize sustainable development.

A. Progress made by the Action Team:

(a) Through the development of the Action Team's report and participation in international meetings and conferences, members of the Action Team have contributed to the ongoing global awareness of the role of space science and technology in sustainable development;

(b) The Action Team is cooperating with international organizations, such as the Office for Outer Space Affairs, the United Nations Educational, Scientific and Cultural Organization, CEOS and ESA, in their activities on sustainable development for the benefit of Member States;

(c) The Action Team is sensitizing Member States to the need to bridge the digital divide within and across regional blocks and to the role and importance of the International Charter on Space and Major Disasters.

^a To be contacted through the Office for Outer Space Affairs of the United Nations Secretariat.

Annex VIII

Input from the Action Team on Near-Earth Objects

Action team number: 14	<i>Chairperson</i> : R. Tremayne-Smith (United Kingdom of Great Britain and Northern Ireland)		
	<i>Secretariat</i> : United Kingdom with assistance from the United States of America, the Committee on Space Research, the International Astronomical Union and the Spaceguard Foundation		
Membership:			
Iraq, Japan, Kazakhstan, L	l, China, Czech Republic, Finland, Iran (Islamic Republic of), ebanon, Pakistan, Poland, Russian Federation, Saudi Arabia, ted Kingdom of Great Britain and Northern Ireland and United		
Astronomical Union, Natio	Astronomical Union, National Space Society, Space Generation Advisory Council, The Spaceguard Foundation and European Space Science Committee—European Science		
Y. Brief mission statement:			
(a) Review the content, struct Earth objects (NEOs);	ure and organization of ongoing efforts in the field of near-		
(b) Identify any gaps in the or where other countries or organizations	ngoing work where additional coordination is required and/or could make contributions;		
(c) Propose steps for the imp specialized bodies.	rovement of international coordination in collaboration with		
3. Findings:			
(a) The threat of NEOs is believed (a) global;	eved to be comparable to more familiar hazards and the risk is		
(b) A range of scientific area evaluation and assessment of risk;	s require support and coordination in order to improve the		
	oration offers the most cost-effective response for scientific mitigation), as well as emergency or civil contingency action.		
4. Recommendations for further act	tion:		
	rnational collaboration to address the issues and improve e threat; write improved guidelines for risk management		

(b) The International Council for Science (ICSU) should consider, and encourage its member organizations to consider, the recommendations contained in various reports (see the workplan and other reference documents, such as the report of the task force on potentially hazardous NEOs commissioned by the Government of the United Kingdom and the findings and conclusions of the Organisation for Economic Cooperation and Development (OECD) Global Science Forum Workshop on Near Earth Objects: Risks, Policies and Actions, held in Frascati, Italy, in January 2003), and help plan the necessary multidisciplinary activity;

(c) Relevant activity needs to be better coordinated at the national, regional and international levels using and enhancing existing mechanisms wherever possible. Such activity could be coordinated by the Committee on the Peaceful Uses of Outer Space, possibly by including an agenda item on the subject in the Scientific and Technical Subcommittee at its forty-second and forty-third sessions in 2005 and 2006.

•. Implementation already initiated:

ICSU to consider the issues arising from the OECD Global Science Forum Workshop held in Frascati, Italy. Missions to NEOs are being increasingly coordinated internationally.

7. Indication of impediments to implementation:

Overlap and competition exist in search and discovery activity and there is no automatic follow-up of observations in many cases.

An overall solution requires the involvement of government as well as science. Scientific disciplines need to work together more and also to address the needs of civil emergency staff.

Y. Benefits to be derived from the implementation:

Greater coordination and cooperation will lead to improved search capability and efficiency.

A. Progress made by the Action Team:

Progress was made in developing the understanding of the Action Team and the Scientific and Technical Subcommittee on NEO issues.

Annex IX

Input from the Action Team on Capacity-Building

	•	ction ream on Capacity-Dunting
Action team number: 17		Chairperson: T. Okamoto (Japan)
		Secretariat: (to be determined)
۱. Memb	ership:	
H N	France, Hungary, In	, Azerbaijan, Bolivia, Brazil, Canada, Colombia, Ecuador, Egypt, Idia, Iran (Islamic Republic of), Japan, Kazakhstan, Lebanon, Takistan, Peru, Philippines, Portugal, Saudi Arabia, Syrian Arab States of America;
	Nations Educational, Committee on Space	omic and Social Commission for Asia and the Pacific, United Scientific and Cultural Organization, European Space Agency, e Research, International Astronomical Union, Space Generation Manila Observatory.
۲. Brief	nission statement: ov	erall goal and focus of work of the Action Team:
infrastructu opportunitie countries.	re such as fellows es at every level, f	ing activities through: (a) sharing the information on the existing hip programmes; and (b) enhancing educational and training rom children to experts and teachers, especially in developing
3. Findin	igs:	
between spa educational and training more effect system, suc	ace-faring countries a and training opportu g information, such a tive utilization of e h as those by the reg ed Nations, should be	capacity-building as a whole, it is necessary to reduce the gap and developing countries. Emphasis should be placed on enhancing unities in developing countries by improving access to educational as on best-practice cases of space-faring countries. In this regard, xisting training opportunities offered within the United Nations gional centres for space science and technology education affiliated e promoted and an interregional network should be established for
fellows, tea information developing	chers, and experts, for all levels should countries on capaci	tional and training opportunities, from children to postdoctoral should be promoted. For this purpose, educational and training be disseminated and shared, bearing in mind the emphasis placed in ty-building at the university level because of the importance of cially in space applications for those countries;
		not be achieved in a short period of time. It is important to develop short-term ones to ensure the steady enhancement of capacity-
4. Recom	nmendations for furth	er action:
To be	discussed among m	ambar accurtizes at the coverth accordination meeting of the Astion

To be discussed among member countries at the seventh coordination meeting of the Action Team, to be held on 13 June 2003.

•. Implementation already initiated:

(a) Various types of capacity-building activities are being carried out, such as the Global Learning and Observations to Benefit the Environment (GLOBE) Programme, Eduspace of the European Space Agency, the Space Education Project of the United Nations Educational, Scientific and Cultural Organization, Space Generation Advisory Council activities, Ad Hoc Working Group on Education and Training of the Committee on Earth Observation Satellites and the Space Technology, Applications and Research (STAR) programme of the Asian Institute of Technology;

(b) The Forum for Capacity-Building was organized by the Action Team in Houston, Texas, United States, on 15 October 2002 (with 52 participants from 17 countries and organizations). The results of the Forum are available on the web site of the Office for Outer Space Affairs of the United Nations Secretariat (www.oosa.unvienna.org/unisp-3/followup/action_team_17/houston2002/ index.html).

Information on the activities of the Action Team, including coordination meetings, is available on the web site of the Action Team (www.bonnoffice2002.org/UN).

¹. Indication of impediments to implementation:

(a) There is a large gap in capacity-building between space-faring countries and developing countries;

(b) The language problem is one of the barriers that must be taken into account, especially in space education for very young students, as most of the information is available in English only;

(c) The digital divide between space-faring countries and developing countries is also an impediment to the dissemination of educational or training information.

Y. Benefits to be derived from the implementation:

Capacity-building activities would be facilitated especially in developing countries, and capacity-building would be enhanced at all levels and in all regions, contributing to the enhancement of peaceful uses of outer space.

 \wedge . Progress made by the Action Team:

The Action Team has already held six coordination meetings. On the basis of input provided in response to the questionnaire circulated by the Action Team and other input from member countries, member organizations and other interested cooperating countries, including China and Cuba, the Action Team is preparing its final report, which will include an overall picture of capacity-building and related information.

Annex X

Input from the Action Team on Increasing Awareness

	n tea	m number: 18	<i>Chairpersons</i> : L. Sperry (United States of America) and J. Wimmer (Austria)
			Secretariat: (to be determined)
۱.	Mem	ibership:	
	(a)	(Islamic Republic of	, Austria, Bolivia, Brazil, Czech Republic, Egypt, France, Iran), Iraq, Italy, Kazakhstan, Lebanon, Malaysia, Morocco, Nigeria, ppines, Portugal, Saudi Arabia, Syrian Arab Republic and United
	(b)	Nations Educational, Committee on Space Photogrammetry and Association for the In Advisory Council, Sp	omic and Social Commission for Asia and the Pacific, United Scientific and Cultural Organization, ^{<i>a</i>} European Space Agency, Research, International Law Association, International Society for d Remote Sensing, International Space University, European international Space Year, National Space Society, Space Generation baceweek International Association, Austrian Space Agency, Manila ippine Astronomical Society.
۲.	Brie	f mission statement:	
			orts to increase awareness among decision makers and the general vities and the role space activities can play;
	(b)	Prepare a listing of ill	ustrative examples of successful outreach activities;
regare			treach activities and potential target audiences, in particular with hittee on the Peaceful Uses of Outer Space and the Office for Outer ons Secretariat;
	(d)	Provide recommendat	tions on future outreach activities and potential target audiences.
3.	Find	lings:	
the ge interg	gover	I public of the importa	of UNISPACE III ("Increase awareness among decision makers and ince of space activities") is being implemented at various levels (the al and non-governmental levels), partly within the framework of
	(b) on Te		to compile a complete list of relevant activities worldwide, the nining and selecting illustrative examples;
	(c) creas	Considerable differen	ces remain as to the emphasis placed by the various relevant actors
4.	Reco	ommendations for furth	er action:
			ommittee on the Peaceful Uses of Outer Space in the course of its ress made in the implementation of the recommendations of

(b) Observations and recommendations by the Committee and the General Assembly in 2004 regarding the state of implementation of the recommendation and types of possible future action for all relevant actors;

(c) Practical suggestions for future activities of the Committee and the Office for Outer Space Affairs in the framework of the United Nations.

•. Implementation already initiated:

(see "Findings", section 3 (a), above)

1. Indication of impediments to implementation:

The vastness of the subject makes a comprehensive evaluation and assessment very difficult.

V. Benefits to be derived from the implementation:

An increase of awareness would lead to a better understanding on how space activities can, in particular, contribute in a cost-effective manner to sustainable development, environmental protection and human security.

A. Progress made by the Action Team:

The Internet-based process of gathering information from Governments and nongovernmental entities through specially designed questionnaires is well on track; an interim report will be ready for the Committee at its forty-sixth session, in 2003.

^a To be contacted through the Office for Outer Space Affairs of the United Nations Secretariat.

Annex XI

Input from the Action Team on Innovative Sources of Financing

Action team number: 32 Chairperson: M. Laffaiteur (France)

Secretariat: (not identified)

١. *Membership*:

(a) Countries: Algeria, Australia, Colombia, Czech Republic, France, Germany, Iran (Islamic Republic of), Kazakhstan, Mexico, Morocco, Nigeria, Pakistan, Philippines, South Africa and Syrian Arab Republic;

(b) Organizations: Economic and Social Commission for Asia and the Pacific, European Space Agency, National Space Society, Space Generation Advisory Council, Manila Observatory and Philippine Astronomical Society.

۲. Brief mission statement:

For many years, the use of space applications, mainly by developing countries, encountered various problems, including the lack of qualified personnel and equipment and especially the absence of financial resources for the implementation of the process. The large scope of the utilization of space technologies, mainly in Earth observation, has been demonstrated during the last 20 years. However, these promising technologies have not supported development as much as they should have.

In this regard, it was decided at UNISPACE III to conduct a study to adopt measures aimed at identifying new and innovative sources of financing at the international level, including in the private sector, in order to support the implementation of the recommendations of UNISPACE III in developing countries. The workplan of the Action Team for 2002 and 2003 was adopted by the Scientific and Technical Subcommittee at its thirty-ninth session, in 2002.

3. Findings:

The Action Team has identified three main prerequisite elements for any development project that involves the use of space applications:

Funding: Lack of funding is often the major obstacle in introducing space technology (a) into operational development programmes or projects. That obstacle is generally linked to: (i) limited awareness of the possibilities and requirements for securing adequate financial resources to support priority programmes; (ii) difficulty in proving the cost-benefit advantage of space applications techniques to decision makers and potential users. Decision makers, responsible for these programmes or projects, must ensure to provide adequate information to the development banks or aid agencies.

(b) Political commitment: Government support is a must for projects or programmes of national scope and for projects for which international funding will be sought. The institutions that would participate in a pilot or demonstrative project using space applications should make a firm commitment, in cash and/or in kind to the implementation of the project, as this will add credibility to the project proposal. The institutions that have been identified as users in the project proposal should clearly indicate their commitment to using the space application upon demonstration of its cost-effectiveness;

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(c) *Education and training*: There is a pressing need to provide developing countries with further education and training opportunities in all areas of space science and technology. Trained personnel is essential if space technologies are to be integrated into operational programmes.

4. *Recommendations for further action:*

(a) To study carefully, in close liaison with the space industry, how it can contribute to the existing Trust Fund for the United Nations Programme on Space Applications. This should be done by the Action Team in order to present proposals to the Scientific and Technical Subcommittee at its forty-first session, in 2004;

(b) The United Nations should urgently request all Member States to contribute to the Trust Fund for the United Nations Programme on Space Applications. It would be the matter of a strict application of the corresponding provisions of the resolution adopted at UNISPACE III, which stipulates that all States should be invited to support financially or in kind in an annual letter from the Secretary-General that will, inter alia, identify priority project proposals for enhancing and assisting technical cooperation activities, in particular for human resource development;^{*a*}

(c) In order to mobilize space industry on the partnership issue, the Scientific and Technical Subcommittee should prepare a "white paper" that should be submitted to space industry. The document should contain a presentation of the main recommendations of UNISPACE III and the needs for the coming years;

(d) Experts in development banks or aid agencies are not always aware of the possibilities of space application techniques. It could be useful to include in the United Nations Programme on Space Applications the organization of short workshops for such experts in order to present the possibilities offered by space applications to support development, utilizing the results of pilot projects or techniques already used in application programmes.

•. Implementation already initiated:

(information to be provided)

¹. Indication of impediments to implementation:

(a) The difficulty to convince development banks and aid agencies to support development programmes using space applications;

(b) Well-trained people are necessary, but they need good prospects. This requires a long-term political commitment.

V. Benefits to be derived from the implementation:

Increased availability of funding sources for the implementation of the recommendations of UNISPACE III.

A. Progress made by the Action Team:

The report prepared by the Action Team (A/AC.105/L.246) should lead to greater awareness of the difficulties faced by developing countries in the utilization of space applications. This report should help decision makers, including those in development banks and aid agencies, in the use of space applications for the implementation of development projects. As the funding problem is inherent in a large number of recommendations of UNISPACE III, the proposals contained in the report should certainly be useful for enhancing the implementation of the recommendations.

^a Report of the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space, Vienna, 19-30 July 1999 (United Nations publication, Sales No. E.00.I.3), chap. I, resolution 1, sect. I, para. 1 (f).