

Preliminary Draft

## International Space Goals/Objectives Matrix

Preliminary Draft

(Three of the major goals/objectives, not necessarily in order of priority)

Status	Goals/Objectives (1)	Goals/Objectives (2)	Goals/Objectives (3)	Unique Goals/Objectives	Agency/ Organization	Website for Agency/ Organization	Space Budget	Population	GDP	Comments
X	<b>Argentina</b>	Communications	Earth, ocean, and climate monitoring	Monitor movement of groundwater	Observation on food and water in Mercosur area	National Commission on Space Activities <a href="http://www.conae.gov.ar/eng/principal.html">http://www.conae.gov.ar/eng/principal.html</a>	\$50 million	40,482,000	\$260 billion	
	<b>Australia</b>	Astronomy	Potential launch site	Potential space tourism	New agency, run by volunteers - mostly students, receives no government funding	Australian Space Research Program <a href="http://www.innovation.gov.au/Industry/Space/Pages/AustralianSpaceResearchProgram.aspx">http://www.innovation.gov.au/Industry/Space/Pages/AustralianSpaceResearchProgram.aspx</a>	\$10 million	21,859,000	\$755.066 billion	
X	<b>Austria</b>	International cooperation	Applications of space technology	Strengthen international standing	Collaborating with ESA	Austrian Space Agency <a href="http://www.ffg.at/content.php">http://www.ffg.at/content.php</a>		8,356,707	\$361.791 billion	
X	<b>Belgium</b>	Earth and universe observation	Info on the terrestrial space environment	Develop advanced technologies	Global monitoring of the environment navigation aids - land, sea, air	Belgium Space Industry, also part of ESA <a href="http://www.belspo.be/belspo/res/rech/spatres/in_dus_en.stm">http://www.belspo.be/belspo/res/rech/spatres/in_dus_en.stm</a>	\$230 million	10,741,000	\$433.520 billion	
X	<b>Brazil</b>	Space applications due to the size of Brazil	Become competitive in the market for space goods and	Scientific and technical competence in the space area	Utilize space resources and techniques to solve national problems	Brazilian Space Agency (AEB) <a href="http://www.aeb.gov.br/">http://www.aeb.gov.br/</a>	\$219 million	191,587,000	\$1,268.508 billion	
X	<b>Bulgaria</b>	Space exploration	Space physics and astronomy	Remote sensing		Bulgarian Space Agency <a href="http://www.space.bas.bg">http://www.space.bas.bg</a>	\$1.5 million	7,606,000	\$93.569 billion	
X	<b>Canada</b>	Earth observation	Telecommunication	National partnerships	Make scientific contributions	Canadian Space Agency (CSA) <a href="http://www.asc-csa.gc.ca/eng/default.asp">http://www.asc-csa.gc.ca/eng/default.asp</a>	\$321 million	33,726,000	\$1,299.367 billion	
X	<b>China</b>	Earth observation	Manned mission to the moon	Deep space exploration focus: Mars	Chinese space station	China National Space Administration (CNSA) <a href="http://www.cnsa.gov.cn">www.cnsa.gov.cn</a>	\$500 million	1,339,000,000	\$4,832.992 billion	
X	<b>Czech Republic</b>	Earth observation	Navigation	Generic technologies	Strengthening relationship with ESA	Czech Space Office <a href="http://www.czechspace.cz/en/welcome-to-czech-space">http://www.czechspace.cz/en/welcome-to-czech-space</a>	\$152 million	10,474,600	\$172.285 billion	
X	<b>Denmark</b>	Earth observation (magnetic field)	Space technology (contribute to international missions)	Space physics and astronomy	Monitoring inland ice	Danish Space Research Institute <a href="http://www.space.dtu.dk/english.aspx">http://www.space.dtu.dk/english.aspx</a>	\$50 million	5,515,287	\$290.124 billion	
	<b>Finland</b>	develop space technology to improve the competitiveness	Communications and Navigation support	Space sensors and instruments		Tekes <a href="http://www.tekes.fi/en/community/Home/351/Home/473/">http://www.tekes.fi/en/community/Home/351/Home/473/</a>		5,340,011	\$233.563 billion	
X	<b>France</b>	Earth observation	Orbital telescopes	Civil applications of space	Security and defense	French Space Agency (CNES) <a href="http://www.cnes.fr/web/CNES-en/7114-home-cnes.php">http://www.cnes.fr/web/CNES-en/7114-home-cnes.php</a>	\$2.49 billion	65,073,482	\$2,499.146 billion	
X	<b>Germany</b>	Exploration of Earth and solar system	Research aimed at protecting the environment	development of environmentally-friendly	Global mobility and communication	German Aerospace Center (DLR) <a href="http://www.dlr.de/">http://www.dlr.de/</a>	\$1.242 billion	82,046,000	\$3,060.312 billion	
X	<b>Greece</b>	Environment of Mercury	Telecommunication	Solar particle analysis	Propagation in the heliosphere and in the Earth's magnetosphere	National Observatory of Athens <a href="http://www.noa.gr/indexen.html">http://www.noa.gr/indexen.html</a>	\$5 million	11,262,500	\$325.190 billion	
X	<b>India</b>	Remote sensing satellites	Telemedicine	Reach Mars by 2020	Launch Indian made shuttle and crew by 2015	Indian Space Research Organization (ISRO) <a href="http://www.isro.org/">http://www.isro.org/</a>	\$940 million	1,166,860,000	\$1,185.726 billion	
X	<b>Iran</b>	Earth observation	Manned mission into space	National security	Monitor natural disasters (earthquake prone country)	Iranian Space Agency <a href="http://www.isa.ir/index.php">http://www.isa.ir/index.php</a>	\$400 million	74,196,000	\$343.010 billion	
X	<b>Ireland</b>	Monitor the sun and its effects on the Earth's	Exploring comets	Planetary research (specifically Mars and	Astronomy	"Ireland does not have a specific national space program"	Enterprise Ireland: <a href="http://www.enterprise-ireland.com/">http://www.enterprise-ireland.com/</a>	4,422,100	\$217.756 billion	
X	<b>Israel</b>	Earth observation	International cooperation	Encourage national interest in space	Mapping nearby galaxies	Israeli Space Agency <a href="http://www.geocities.com/CapeCanaveral/5150/">http://www.geocities.com/CapeCanaveral/5150/</a>	\$50 million	7,424,400	\$204.133 billion	
X	<b>Italy</b>	Earth observation	Telecommunication	Medicine and biotechnology	Solar system exploration	Italian Space Agency (ASI) <a href="http://www.asi.it/en">http://www.asi.it/en</a>	\$1.55 billion	60,090,400	\$1,987.836 billion	
X	<b>Japan</b>	Earth observation	Asteroid samples	Moon landing	Facilitate experiments with faster internet connections (WINDS)	Japan Aerospace Exploration Agency (JAXA) <a href="http://www.jaxa.jp/index_e.html">http://www.jaxa.jp/index_e.html</a>	\$2.1 billion	127,580,000	\$4,992.846 billion	
	<b>Jordan</b>	National astronaut	Regional space cooperation					6,316,000	\$21.836 billion	
X	<b>Netherlands</b>	Earth science	Astrophysical research	Planetary research	Sensors for X rays and infrared radiation	Netherlands Institute for Space Research (SRON) <a href="http://www.sron.nl/index.php?option=com_content&amp;task=view&amp;id=220&amp;Itemid=459">http://www.sron.nl/index.php?option=com_content&amp;task=view&amp;id=220&amp;Itemid=459</a>	\$160 million	16,524,463	\$742.966 billion	
X	<b>Nigeria</b>	Earth observation	Telemedicine	Electronic education	Oil (China)	National Space Research and Development Agency <a href="http://www.nasrda.net/">http://www.nasrda.net/</a>	\$30 million	154,729,000	\$168.422 billion	
X	<b>Norway</b>	Using space to learn and meet national user needs	maintain a leading role in space-related ground	attain a leading international position in space research	create 10 % annual growth in the space sector	Norwegian Space Centre <a href="http://www.spacecentre.no/english/">http://www.spacecentre.no/english/</a>	\$840 million	4,828,000	\$340.732 billion	
X	<b>Pakistan</b>	Geoimaging stations	Telecommunication	Educate in satellites	To test the performance of indigenously developed satellite	Pakistan Space and Upper Atmosphere Research <a href="http://www.SUPARCO.gov.pk/index.asp">http://www.SUPARCO.gov.pk/index.asp</a>	\$13 million	167,013,000	\$162.627 billion	
	<b>Peru</b>	Propulsion	Astronomy	Rocketry	Geomatics	National Commission for Aerospace Research and Space Research Centre <a href="http://www.conida.gob.pe/">http://www.conida.gob.pe/</a>		29,165,000	\$122.948 billion	
X	<b>Poland</b>	Study physical processes of turbulence, shock formation, and reconnection in space	Astronomical observation	Solar system studies	Space physics	Space Research Centre <a href="http://www.cbk.waw.pl/strony/ramy/english/inen.html">http://www.cbk.waw.pl/strony/ramy/english/inen.html</a>	\$10 million	38,130,300	\$402.974 billion	
X	<b>Portugal</b>	Earth observation	National astronaut	Small satellites	More university space programs/majors	Portuguese Space Company <a href="http://www.spacegeneration.org/Portugal">http://www.spacegeneration.org/Portugal</a>	\$22 million	10,631,800	\$209.139 billion	
X	<b>Romania</b>	Involvement in international projects/missions	Human resources building	National security	Projects to spin-off and improve the economy	Romanian Space Agency <a href="http://web.rosa.ro/english/space_program/espac_e_program.htm">http://web.rosa.ro/english/space_program/espac_e_program.htm</a>	\$8 million	21,496,700	\$166.422 billion	
X	<b>Russia</b>	Monitoring the natural environment	Communications and Navigation support	Space exploration		Russian Federal Space Agency <a href="http://www.roscosmos.ru">http://www.roscosmos.ru</a>	\$2.2 billion	142,008,000	\$1,661.000 billion	
	<b>South Africa</b>	Environment and ecosystem studies	Earth observation	Ocean monitoring (Antarctic and Southern oceans)	Solar observation	South African Space Portal <a href="http://www.space.gov.za/spaceinza/index.php">http://www.space.gov.za/spaceinza/index.php</a>		48,697,000	\$243.315 billion	
X	<b>South Korea</b>	Telecommunications (satellites)	Satellites in sun-synchronous orbit	Remote sensing satellite	Develop own space craft	Korea Aerospace Research Institute (KARI) <a href="http://www.kari.re.kr">www.kari.re.kr</a>	\$300 million	48,333,000	\$727.111 billion	
X	<b>Spain</b>	Operation of ground stations	Remote sensing	Research on the affects of microgravity	Use of hydrogen fuel cells	National Institutes of Aerospace Technology <a href="http://www.inta.es/">http://www.inta.es/</a>	\$142 million	45,828,172	\$1,397.232 billion	
X	<b>Thailand</b>	Remote sensing satellites	Earth observation	Geoinformatics	Ground station satellite distribution	Geo-Informatics and Space Technology Development Agency (GISTDA) <a href="http://new.gistda.or.th/en/">http://new.gistda.or.th/en/</a>	\$80 million	63,389,730	\$268.581 billion	
No	<b>Turkey</b>	Earth observatoin	Communications	regional space cooperation		Scientific and Technological Research Council of Turkey <a href="http://www.tubitak.gov.tr/">http://www.tubitak.gov.tr/</a>		71,517,000	\$552.180 billion	
X	<b>United Kingdom</b>	Using earth observation to study climate change	Deep space observation	Robotic exploration (choose in 1986 to not be a part of human missions)	Search for past and present signs of life	British National Space Centre (BNSC) <a href="http://www.bnsc.gov.uk/">http://www.bnsc.gov.uk/</a>	\$438 million	61,612,300	\$2,007.049 billion	
X	<b>USA</b>	Global monitoring	Space station	Exploration	Currently under review by the Augustine committee	National Aeronautics and Space Administration <a href="http://www.nasa.gov/">http://www.nasa.gov/</a>	\$17.3 billion	307,002,000	\$14,002.739 billion	