

	Proposed functions	By*	when	Mandate
Knowledge sharing	Capacity building; information and knowledge sharing;	UNIDO	SG rep	New
	Training and capacity building activities.	ESCWA	SG rep	New
	Build capacity drawing on foreign experts	ECLAC-POS	SG rep	New
	Build capacity; support national development plans.	UNDP	SG rep	New
	Build capacity in public and private institutions to deliver technology transfer services	UNEP	SG rep	New
	Training and capacity building to build a cadre of national professionals on EST	ECLAC-POS	SG rep	New
	Assist developing countries at their request to build or strengthen their capacity to identify technology needs, to facilitate the preparation and implementation of technology projects and strategies that foster sustainable development;	UNEP	SG rep	New
	Identify gaps in access and development of tech and capacity building needs.	ITU	SG rep	New
	Capacity building in developing countries on human capital and research, institutional framework for innovation, and market/business environment.	WIPO	SG rep	New
	Support building science and technology capacity, with both women and men as contributors and beneficiaries, including through collaboration among research institutions, universities, the private sector, governments, non-governmental organizations and sci	GA	Rio20	Rio20 (272)
	Strengthen international, regional and national capacities in research and technology assessment..	GA	Rio20	Rio20 (275)
	Build national financial, scientific and technological capacities to develop, assess and use technology	GA	Rio/JPOI	A21 (21.18a, 34.20, 35.4d),
	Build technology assessment capacity and use it	GA	Rio/JPOI	A21 (34.26, 35.4c), JPOI
	Support country assessments of technology needs, technology prioritization and technology analysis (economic	UNEP	SG rep	New
	Technical assistance and scientific-technical knowledge exchange	GA	Rio/JPOI	Rio principle 9, JPOI (X.106,
	Training on technology ethics	GA	Rio	A21 (31.10c)
	Provide international support to countries to further develop their scientific, technological, professional and related capacities.	G77, Boston University, Pardee Center	PrepRio20	Rio principle 9, JPOI (X.106, 109, 110)
	Continued and focused implementation of the Bali Strategic Plan for Technology Support and Capacity-building	GA	Rio20	Rio20 (278)
	Implement the Bali Strategic Plan for Technology Support and Capacity Building without further delay.	G77, India, APRN, PDMA	PrepRio20	Bali Strategic Plan
	Promoting legislations and awareness programmes	ESCWA	SG rep	New
	Global knowledge and learning to enhance understanding and awareness globally of the potential for microfinance to scale-up access to clean energy.	UNCDF/UNDP	SG rep	New
	Facilitate regional and global peer learning, exchange, and training programs.	UNEP	SG rep	New
	Technical cooperation; collaborative research; and knowledge sharing.	IAEA	SG rep	New
	Technical assistance for clean energy to remove informational, technical and financial barriers to technology	UNCDF/UNDP	SG rep	New
	Pilot/demonstration projects, under specific regional /subregional initiatives	ESCWA	SG rep	New
	Promoting demonstration of activities so as to facilitate transfer of appropriate technologies.	ECLAC-POS	SG rep	New
	Provide policy guidance to CSD and GA High-Level Forum.	ITU	SG rep	New
	Help countries identify, develop, source, adapt and utilize existing and emerging technologies.	ECA	SG rep	New
	Facilitate information sharing	ITU	SG rep	New
	Promoting the development of regional information systems for mapping natural resources	ESCWA	SG rep	New
	Identification, collection, analysis, documentation, dissemination, and adapted replication of good practices.	ESCWA	SG rep	New
	Identification of priority areas, partners, gaps, solutions (open-source or commercial), and of ways of implementation.	ECE	SG rep	New
	Identification of gaps/needs	UN-Women	SG rep	New
	Documenting and sharing of best practices	UN-Women	SG rep	New
	Documenting and sharing lessons learnt	ECLAC-POS	SG rep	New
	Cooperation between scientists and policy makers for science-based decision-making	GA	JPOI	JPOI (X.109, 111)
	Scientific-technical input to intergovernmental processes, policies, and the UN	GA	Rio	A21 (31.4c,d)
	Disseminating research results	GA	Rio/JPOI	A21 (31.4e, 35.4b), JPOI (X.106, 109)
	UN to create inventory of technology clearing-houses	GA	Rio	A21 (34.17)
	Promote partnerships for implementation.	ITU	SG rep	New
	Stimulate technology cooperation	UNEP	SG rep	New
	Fostering collaboration to accelerate technology transfer	UNIDO	SG rep	New
	Strengthening networks, partnerships and capacity building for technology development and transfer, and fostering collaboration to accelerate technology transfer.	UNIDO	SG rep	New
	UN facilitation of intergovernmental dialogue. Intermediary.	ESCAP	SG rep	New
	Facilitating the intergovernmental dialogues on transfer of publicly-owned or -funded technologies.	ESCWA	SG rep	New
Intergovernmental or expert fora / dialogue mechanisms set up with specific sectoral focus.	ESCWA	SG rep	New	
Advocacy and partnerships for greater coherence and focus in creating enabling policy and business environments for FSPs.	UNCDF/UNDP	SG rep	New	
Continued, new and innovative public-private partnerships among industry, governments, academia and other non-governmental stakeholders aiming to enhance capacity and technology for environmentally sound chemicals and waste management, including for waste	GA	Rio20	Rio20 (217)	
Networking of existing set-ups.	ECA	SG rep	New	
Identifying roles of governments, partnerships and collaborative mechanisms.	UN-Women	SG rep	New	
Enhance green technology development, including with publicly funded R&D	GA	Rio/JPOI	Rio principle 9, JPOI (X.105, 106), MDG2010 (60), JPOI (X.113)	
Improve science and technology for SD, incl. for biodiversity and agriculture	GA	Rio	CBD COP10, A21 (16.1, 35.4a), MDG2010 (60)	

RD&D	Public sup	Promoting research and development	UN-Women	SG rep	New
		Promote basic and applied RD&D in the areas of energy, environment, chemistry, material sciences, and engineering	OECD, Europ. Students Forum, ECE meeting	PrepRio20	New
		Promote RD&D on technologies related to renewable energy; marine and coastal areas; drylands; forest resources; and green local technologies based on traditional knowledge.	IRENA, IOC, CGEE Brazil, Brazil, Egypt	PrepRio20	JPOI (X.105, 106, 113), A21 (16.1, 35.4a)
		Support developing countries in their efforts to collect environmental data	GA	Rio20	Rio20 (274)
		Increased number of women scientists	GA	Rio	A21 (31.4g, 35.21b)
	Networking	Identify and support centres of excellence as nodal points for technology research and development.	India Delhi meeting	PrepRio20	A21 (34.21), JPOI (X.106, 108)
		Support developing countries to access international R&D programmes	GA	JPOI	JPOI (X.107)
		Promote long-term, international partnerships between multinational and other enterprises	GA	Rio	A21 (34.27)
		Promote partnerships between public and private sectors	GA	JPOI	JPOI (X.106, 109)
		Stress the importance of cooperative action on technology innovation, research and development	GA	Rio20	Rio20 (270)
Help developing countries to independently develop appropriate technologies in line with their needs.		UNESCO	SG rep	New	
Build a global, cross-sectoral information/data network, based on the Global Earth Observation Network.		Japan, EU, AGEDI	PrepRio20	Partly, A21 (31.4e, 35.4b), JPOI (X.106)	
Cooperation in marine scientific research to implement the provisions of the United Nations Convention on the Law of the Sea and the outcomes of the major summits on sustainable development		GA	Rio20	Rio20 (160)	
Global environmental observing systems		GA	Rio20	Rio20 (274)	
Technology transfer and diffusion	Facilitation	Promote, facilitate and finance, as appropriate, access to and the development, transfer and diffusion of environmentally sound technologies and corresponding know-how, in particular to developing countries, on favourable terms, including on concessional	GA	Rio20	Rio20 (269, 270)
		Management of requests and responses in the technology cycle	UNIDO	SG rep	New
		Identification of what technology needs to be "facilitated"	UN-Women	SG rep	New
	Access	Explore modalities in the relevant forums for enhanced access to environmentally sound technologies by developing countries.	GA	Rio20	Rio20 (270)
		Make information accessible about relevant green technologies.	UNESCO	SG rep	New
		Provide universal access to broadband Internet service, and develop and diffuse social technologies.	Brazil	PrepRio20	A21 31.4, JPOI X.112
		Advance clean tech, tech access, leverage resources, promote investment and build capacity.	ITU	SG rep	New
		Promote access to green technology	GA	JPOI	JPOI (X.105)
	Diffusion	Enhance green technology diffusion	GA	Rio/JPOI	Rio principle 9, JPOI (X.105, 106), MDG2010 (60)
		Promoting the role of ICTs in facilitating the technology transfer mechanism. Advocating ICT-enabled solutions for low-carbon products and solutions.	ECLAC-POS	SG rep	New
		Develop and deploy ICTs	GA	Rio/JPOI	A21 (31.4h), JPOI (X.112)
	Transfer	Enhance the development and transfer of technologies.	UNEP	SG rep	New
		Exploring modalities for enhanced access to EST and gender sensitive technologies	UN-Women	SG rep	New
		Consider green technology transfer to developing countries on concessional terms, especially in the context of publicly-funded technologies, and consider expansion of the scope of technologies in the public domain.	G77, India, Egypt, Brazil	PrepRio20	A21 (34.18(e)iii), JPOI (X.105, 106, 113), MDG2010 (60)
		Exchange renewable energy technologies between countries, regions and different sectors.	IRENA	PrepRio20	JPOI (X.105, 106, 113), CA (3)
		Enhance green technology transfer (incl. on mitigation, adaptation, early warning, biodiversity and agriculture)	GA	Rio/JPOI	Rio principle 9, JPOI (X.105, 106, 113), MDG2010 (60), CBD-COP7, CA (3)
		Promote green technology transfer to developing countries on concessional and preferential terms	GA	JPOI	JPOI (X.105)
		Governments to purchase patents and licenses for transfer to developing countries on non-commercial terms	GA	Rio	A21 (34.18(e)iii)
Governments to encourage private sector to transfer green technology		GA	Rio	A21 (34.18)	
Promote joint ventures and FDI in line with developing countries' priorities		GA	Rio	A21 (34.28)	
Partnerships with the private sector on ICT	GA	MDG	MDG 8.F		
Technology mandates and goals	International	Consider a target share of financial resources to be committed to science, technology and innovation.	Brazil	PrepRio20	New
		Consider green technology roadmaps.	IRENA	PrepRio20	New
		Consider globally coherent, national goals and targets for 2020, 2050, 2070 and 2100, to be backed up by the Astana "Green Bridge" Initiative and related frameworks.	Kazakhstan	PrepRio20	New
		Consider the global goal that, by 2020, Governments promote production processes using best technology for	DPI/NGO conference	PrepRio20	New
		Consider the global goal that, by 2020, the majority of the world's goods and services are procured by	DPI/NGO conference	PrepRio20	New
		Consider long-term, global technology performance goals for key sectors, such as energy, water and waste.	Colombia, Guatemala	PrepRio20	New
		Consider long-term, global technology performance goals for key sectors, such as energy, water and waste.	Colombia, Guatemala	PrepRio20	New
		Developing technology transfer success criteria and indicators	ESCWA	SG rep	New
		Conducting studies on regional technology foresight and North-South technology transfer	ESCWA	SG rep	New
		International cooperation on codes of practise and guidelines	GA	Rio	A21 (31.10a)
	Changes to international legal instruments	GA	Rio	A21 (31.10d)	
	Showcase existing clean tech, standards, policies and regulations.	ITU	SG rep	New	
	National	Enabling environment for green technology and biotechnology	GA	Rio/JPOI	A21 (16.1), JPOI (X.105)
		Cooperation on codes of practice and guidelines	GA	Rio	A21 (31.10a)
		To reduce GHG emissions through improved technology and prevent spread of harmful aquatic organisms.	IMO	SG rep	New
		Assist countries in preparing for oil spills and enable ratification/implementation of int'l conventions.	IMO	SG rep	New
		Improve agricultural technology performance	GA	MDG	MDG2010 (60)
Finance	Providing funding and capacity building support	ECA	SG rep	New	
	Be self-sustaining through the establishment of a Fund;	ECLAC-POS	SG rep	New	
	Financing sources.	ECE	SG rep	New	
	Finance for clean energy to strengthen capabilities of FSPs to provide microfinance at scale.	UNCDF/UNDP	SG rep	New	
	Managing small loans and grants programs.	UNOPS	SG rep	New	

Policy environment and financing	Fi	Investment promotion.	UNIDO	SG rep	New
		Exploring modalities for promoting investments in science, innovation and technology	UN-Women	SG rep	New
		Engage in our countries as well as through international cooperation to promote investment in science, innovation and technology for sustainable development.	GA	Rio20	Rio20 (271)
	Economic instrument	Institute carbon and resource prices to stimulate green innovation, and financial/economic instruments for renewable energy technology deployment.	OECD, IRENA	PrepRio20	JPOI (X.105, 106)
		Promote 'cradle to grave' responsibilities of shipowners.	IMO	SG rep	New
		Promote international markets of hi-tech goods and services, in order to accelerate major innovations.	Kazakhstan	PrepRio20	New
	Policy environment	Need for enabling environments for the development, adaptation, dissemination and transfer of environmentally sound technologies	GA	Rio20	Rio20 (271)
		Support national policies to promote EST technology transfer and enabling frameworks (public-private interface and intellectual property rights)	UNEP	SG rep	New
		Create an enabling environment that aims to remove barriers to technology transfer and adaptation, especially to developing countries, in accordance with international obligations.	G77, Egypt	PrepRio20	A21 (16.1), JPOI (X.105)
		Create enabling frameworks that foster environmentally sound technology, research and development, and innovation, including in support of green economy in the context of sustainable development and poverty	GA	Rio20	Rio20 (72)
		Pursue science-based decision making and integrated policy, where science, technology, and innovation policies are aligned with sectoral policies and national sustainable development strategies	Botswana, UNESCO	PrepRio20	JPOI (X.109, 111)
		Facilitate informed policy decision-making on sustainable development issues and... strengthen the science-policy interface.	GA	Rio20	Rio20 (276)
		Promote green patents, to provide fair incentives to innovators of environmentally sound technologies.	Canada, G77, Brazil	PrepRio20	New
	Develop responses to the needs of developing countries in the area of patent protection and intellectual property rights, and explore the concept of assured access.	G77, Brazil	PrepRio20	Partly, A21 (34.18(e)iii)	

**Notes:**

A21 := Agenda 21. Paragraph numbers provided in brackets. CBD=Convention on Biological Diversity. CA= Copenhagen Accord 2009.