

Techn. Stages	Primary objective	Means	Institutional proposal	By	When	Mandate/source	
Research to development (and demonstration)	Knowledge sharing	Partnership	Global mechanism for research cooperation on sustainable development by 2013	EU	PrepRio20	A21 (34.21), JPOI (X.106, 108), JPOI (X.107), CA (11)	
		Programme	National research and education networks, including national science, technology and innovation observatories.	ESCWA	SG rep	Submission	
	Strengthen R&DD	Fund	Global network of regional science foundations, with technology development fund or funding mechanism to enable participation of developing countries in international R&D projects	Brookings	PrepRio20	DESA (2008), neglected tropical diseases	
		Partnership	Global R&D alliance on key technologies, with collaborative regional networks of research centres and partnerships	DESA, ESCAP	SG rep		
				GA	Rio/JPOI	A21 (34.21), JPOI (X.106, 108), DESA	
	Legal	International, regulatory body on technology development.	ECA, DESA	SG rep			
	Technology transfer	Fund	Publicly supported centres for technology development and transfer	Kazakhstan	PrepRio20	Submission	
Develop-ment to demonstra-tion	Business incubation	Partnership	Network of national business incubators, with programme on technology incubators	DESA	SG rep	DESA (2008), green revolution model	
		Fund	Technology prizes	UNESCO	SG rep	Submission	
Demon-stration to market	Reduce risk	Fund	Global clean technology venture capital fund (a risk capital fund)	Brookings	PrepRio20	DESA (2008)	
			IP sharing pool or fund	DESA	SG rep		
Market formation to diffusion (and further diffusion)	Technology transfer	Fund	UNFCCC Technology Mechanism (TEC and CTN)	UNFCCC	SG rep	CA (11)	
			Technology transfer fund. Loan and grant programmes.	ECLAC-POS, UNOPS, UNCDF, UNDP	SG rep	Submission	
		Programme	Online technology transfer facilitation mechanism (Technology4SME) or platform (planned by ROK)	ESCAP, UNESCO	SG rep		
			Regional Technology Centres (ESCWA and ESCAP)	ESCWA, ESCAP	SG rep	Submission	
	Legal	Economic partnership agreements on green technology transfer and deployment (incl. sustainable energy trade agreement)	Environmental and other conventions with technology transfer commitments	ECE, IMO	SG rep	Conventions	
			India, ICTSD	PrepRio20	Submission		
	Reduce IPR constraints	Partnership	Improved licensing systems: voluntary patent pools, eco-patent commons, EPO's blue skies proposal, and other collaborative IP mechanisms, including open-source and general public licenses.	ECE, OECD	Rio20	Submission	
	Technology information	Programme	Network of clearing-houses of technology information, including renewable energy technology banks	DESA	SG rep	DESA (2008)	
				ESCAP	SG rep	A21 (34.15, 34.16)	
	Knowledge sharing	Programme	UN capacity development programmes, including network of knowledge platforms (based on UNIDO's ITPOs, NCPCs, RECP, ITCs, CTCs) (considering spider-web, public-private structure)	GA	Rio		
				UNIDO, WIPO, UNDP	SG rep	Submission	
	Public participation	Legal	Committee on technological diffusion and conservation to promote public participation and technology diversification/diffusion.	ECE, OECD	Rio20	Submission	
				ETC	PrepRio20	Submission	
Technology assessment	Expert advice	Global advisory committee for the socio-economic and ecological evaluation of new technologies (under GA)	Intergovernmental mechanism for impact assessment of new technologies (e.g., through an institutional convention)	ETC Group, DPI/NGO conf., ICENT, APRN	PrepRio20	Submission	
			National advisory groups on technology ethics	ETC Group	PrepRio20	Submission	
			GA	Rio	A21 (31.10b)		
Partnership	International network of technology assessment centres	GA	Rio	A21 (34.26)			
Across (almost) all stages	Technology facilitation	Partnership	Global technology mechanism [or 'technology sharing facility' or 'technology clearing house' or 'global green innovation and technology partnership'] to facilitate technology transfer and sharing.	G77, Belarus, Bolivia, UNEP, AP Youth, ICTSD	PrepRio20	A21 (34.15, 16, 26), CA (11)	
			Identify options for a facilitation mechanism that promotes the development, transfer and dissemination of clean and environmentally sound technologies.... (for consideration by GA)	GA	Rio20	Rio20 (273)	
	Knowledge sharing	Programme	Support mechanism for capacity building and funding	EU, ECE	PrepRio20	(regional), A21 (31.4b), JPOI (X.106)	
				ECA	SG rep		
		Expert advice	Research capacity and outreach unit to monitor, forge partnerships and facilitating tech transfer	ECLAC-POS	SG rep	Submission	
			UN independent advisory body (including gender advisory board)	ECA, UN-Women	SG rep	Submission	
			Sectoral, inter-governmental or expert fora and dialogue mechanisms (e.g., Intergovernmental Panel on Sustainable Development)	ESCWA	SG rep	Submission	
	Public participation	Partnership	Multi-stakeholder Steering Committee (Members States, private sector, research communities, international organizations) with interagency secretariat support	Indonesia, SF, Children/youth	PrepRio20	JPOI (X.109, 111), A21 (31.4c,d)	
				UNEP, UN-Women	SG rep	Submission	
	Coordination	Partnership	Core UN structure to manage and coordinate activities	Implementation through resource pool of experts from partner institutions (incl. women scientists)	ITU	SG rep	Submission
				Regional and subregional cooperative mechanisms (with regional steering committees).	Pardee Center	PrepRio20	Submission
		Programme	Coordination unit in national government (focal point)	UNEP	SG rep	Submission	
				ECLAC-POS, UNEP	SG rep	Submission	

Notes:

Rio := Earth Summit 1992. A21 := Agenda 21, Paragraph numbers provided in brackets. JPOI := Johannesburg Plan of Implementation, 2002. CBD=Convention on Biological Diversity. CA= Copenhagen Accord 2009.

SG rep := Submission to UN-DESA in response to para 273 of the Rio+20 outcome document, as inputs for the report of Secretary General to the 67th session of the GA.

PrepRio20 := Submissions to UN-DESA in the preparatory phase for Rio+20

Investment and Technology Promotion Offices (ITPOs), National Cleaner Production Centres (NCPCs), Resource Efficiency and Cleaner Production (RECP) network, International Technology Centers (ITCs), Centres for South-South Industrial Cooperation, upcoming

DESA (2008). Climate change: technology development and technology transfer. United Nations, Department of Economic and Social Affairs. Background document prepared for the High-level Conference on Climate Change