United Nations Commission on Science and Technology for Development

15 - 19 April 2024
Palais des Nations, Geneva, Switzerland

Exhibition on Global Cooperation in Science, Technology and Innovation for Development

Information about the exhibitors*

<table>
<tr><td rowspan="3">The Alliance of National and International Science Organizations for the Belt and Road Regions (ANSO)</td><td colspan="2">Description:
ANSO was a non-profit, non-governmental international science organization established on 4 November 2018 with the coordination of Chinese Academy of Sciences (CAS) and the support of 36 other national academies, research institutions, universities and international organizations around the world. ANSO already has 78 members from 52 countries by November 2023.

ANSO aspires to become an international science organization of much impact in the promotion of shared development and advances of the UN 2030 Sustainable Development Goals through catalyzing and implementing concrete programs, initiatives and actions in Science, Technology, Innovation and Capacity Building (STIC).</td></tr>
<tr><td colspan="2">Potential Collaboration:
ANSO has carried out a series of projects to advance the UN SDGs. For instance, CropWatch, initiated by research team at the Aerospace Information Research Institute of the Chinese Academy of Sciences, is a crop monitoring system. It has already been used in some Africa countries for their policy making.</td></tr>
<tr><td>Website:
• http://anso.org.cn/
• https://english.cas.cn/
• http://cloud.cropwatch.com.cn/</td><td>Contact:
For ANSO Secretariat
anso-public@anso.org.cn
For CropWatch Team
cropwatch@radi.ac.cn</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>Bagmati UNESCO Club</td><td colspan="2">Description:
Bagmati UNESCO Club is an NGO registered under the aegis of Nepal National Commission for UNESCO and is an umbrella organization to Nepal National Federation of Clubs and Associations for UNESCO.
We are hosting a booth on the topic, “Preserving Bagmati River Ecosystem: A Holistic Approach through Natural Science Innovations”</td></tr>
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* The information is provided by the exhibitors without editing. It does not imply endorsement by the United Nations. The list is arranged in alphabetical order.

	Potential Collaboration: We are looking for international collaboration in the technical and financial side for tech-based applications.	
	Website: • Nepal National Commission for UNESCO https://www.nncu.org.np/ • Bagmati UNESCO Club https://www.facebook.com/bagmatiunescoclub	**Contact:** Mr. Nishchal Baniya Chief Executive Officer, Email: nishchalbaniya@bagmatiunescoclub.org Phone: +977-9855033294
Botswana	**Description:** **University of Botswana (The Algae to Biodiesel project)** The global dependence on non-renewable fossil fuels has led to environmental degradation and increased carbon emissions. Traditional methods of energy production contribute to climate change, prompting a search for innovative solutions to address this growing environmental crisis. The Algae to Biodiesel project proposes a sustainable and renewable energy solution by harnessing the power of algae. Algae has the potential to be cultivated on a large scale to produce biodiesel. This process not only reduces dependence on fossil fuels but also mitigates environmental impact, as algae absorb carbon dioxide during growth, contributing to carbon neutrality. **Botswana University of Agriculture and Natural Resources (BUAN) (Resistance in Cultivated Cowpea)** Cowpea is an economically important grain legume crop due to its relevance to food security and population health in the developing world, as well as its stress resilience. However, aphid (Aphis craccivora Koch) is the cowpea pests of economic importance causing significant yield losses of up to 80–90%. BUAN and KirkHouse Trust (UK) collaborative research approach has been adopted to develop an aphid resistance variety. However, stronger globalized and more collaborative scientific research is required to ensure access to the resources and the mass of skills. This also promotes a diversified, inclusive, and equitable development of aphid resistance variety. **Botswana International University of Science & Technology (BIUST) (Novel Nano-Reagents)** The project being presented at the exhibition, focuses on the development of eco-friendly Nano-reagents for mineral froth flotation in mining operations. This innovative project aims to address environmental	

	concerns and promote sustainable mining practices through international collaboration, knowledge exchange, and capacity building. Our presentation will highlight the advancements in sustainable mining technologies and the positive impact of cross-border partnerships in advancing the mineral industry. Looking ahead, we are eager to expand our collaborative efforts by partnering with manufacturers in Asia to integrate our Nano-reagents with existing commercial products through in-depth insights on surface chemistry. **Botswana International University of Science & Technology (BIUST) (BIUST Fly-Ash Brick)** Our initiative, "BIUST Fly-Ash Brick," addresses Botswana's masonry quality gaps by utilizing Morupule B's fly-ash and BCL's slag. We develop sustainable and high-quality fly-ash and slag bricks that reduce the need for river sand and cement. Additionally, we aim to meet the construction needs of both local and neighbouring countries while aligning with global efforts for responsible resource utilization. Our mission is to provide BOBS certified bricks for low and high-cost buildings with future expansion to include pavers for industrial applications. This venture not only supports global sustainability goals but also establishes alliances with industry giants.
	Potential Collaboration: **The Algae to Biodiesel project** Government Representatives • Presenting opportunities for municipalities to adopt sustainable wastewater management practices. • Discussing how our technology aligns with government initiatives for cleaner energy. Energy Sector Professionals • Exploring partnerships for integrating algae-based biofuel into existing energy infrastructures. • Discussing the economic viability of algae-derived biodiesel. **Resistance in Cultivated Cowpea** Breeding Consortiums/Associations • Collaborative research • Staff and Student Exchanges • Exchange of the genetic materials • Short-term and long-term training Plant Biotechnology and Genomics Platforms (including other Omics platforms); Energy Sector Professionals • Access to research infrastructure • Collaborative research and exchanges • Skill development incl. bioinformatics Research Funding • Projects

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Conference and fellowships
Bilateral and multilateral

Novel Nano-Reagents
Our ongoing collaboration with Midlands State University in Zimbabwe has been Instrumental in advancing our early stages of the Nano-reagents synthesis. Looking ahead, we are eager to expand our collaborative efforts by partnering with manufacturers in Asia to Integrate Nano-reagents with existing commercial products through in-depth insights on surface chemistry.

BIUST Fly-Ash Brick
Beyond the need current for funding, we envision potential collaborations with international countries to exchange expertise on sustainable construction practices. We also plan on exploring technical partnerships for innovative research and development, ensuring the idea becomes a global leader in eco-friendly building solutions.
</td></tr>
<tr><td></td><td>Website:
The Algae to Biodiesel project
https://drive.google.com/file/d/1xVrUZujpSF6z882dQrTlALl6bI_SQtMP/view?usp=sharing

Resistance in Cultivated Cowpea
https://www.linkedin.com/posts/botswana-university-of-agriculture-and-natural-resources_buan-kirkhouse-collaborative-project-on-cowpea-activity-7094325103638814721-aocn/

BIUST Fly-Ash Brick

https://youtu.be/JMT4mZFE32k?si=60TUnIYRGYYnqwPK
https://fb.watch/qqCb2cmMyY/

</td><td>Contact:
The Algae to Biodiesel project
thobokgari@gmail.com

Resistance in Cultivated Cowpea
mtait@buan.ac.bw

Novel Nano-Reagents
Mr Nenguba Poloko (Principal Investigator)
nengubap@biust.ac.bw
Dr. Otlhapile Dinakenyane (Technology Transfer)
dinakenyaneo@biust.ac.bw

BIUST Fly-Ash Brick
Ms. Kenosi Kalayakgosi
kenosikkalayakgosi@gmail.com
Dr. Otlhapile Dinakenyane (Technology Transfer)
dinakenyaneo@biust.ac.bw</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>Ecole polytechnique fédérale de Lausanne (EPFL) – LC3 Project</td><td colspan="2">Description:
The Limestone Calcined Clay Cement (LC3) Project is a not-for-profit entity with a vision to transform the way cement is made all over in the world.

LC3 technology saves 40% of CO2 emissions in comparison to conventional cement. Scaling its adoption will have a huge impact in carbon emission savings in the cement industry.</td></tr>
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	To facilitate an industry-wide shift, the LC3 Project team is active all over the world with a focus on the Global South – where demand for cement will increase in the next decades – and collaborates internationally with public and private sectors, professional associations and NGOs.	
	Potential Collaboration: The LC3 Project is open to collaboration with government representatives in charge of urban development, construction, and sustainable development; representatives of building and construction professional associations, cement and concrete industry leaders; NGOs that are active in supporting the development of sustainable cities.	
	Website: • www.lc3.ch • https://www.linkedin.com/company/lc3project/ • https://www.linkedin.com/posts/world-economic-forum_cement-making-produces-8-of-global-co2-emissions-activity-7121164434953121793-7fpZ?utm_source=share&utm_medium=member_desktop	**Contact:** info@lc3.ch
Global Energy Interconnection Development and Cooperation Organization (GEIDCO)	**Description:** The key to realizing the inclusive, just and resilient energy transition is to build a modern energy system that is clean-led, electricity-centered, interconnected, multi-energy collaborative, smart and efficient, which is essentially the Global Energy Interconnection (GEI). Several global innovative cases of GEI on green energy and electricity transition in developing countries will be shared during the exhibition. The cases will cover the HVDC technique, energy storage, active distributed network etc. • Ethiopia - Kenya Electricity Highway Project • Belo Monte UHVDC Transmission Phase II Project in Brazil • State Grid Smart Internet of Vehicles Platform • Fengning Pumped Storage Power Station Project	
	Potential Collaboration: International Organizations, Utilities, Financial Institutions, etc.	
	Website: • https://en.geidco.org.cn/ • https://en.geidco.org.cn/research/lsre/ • https://en.geidco.org.cn/2023/1206/6138.shtml	**Contact:** Bo Yin bo-yin@geidco.org; Haoyan Xue haoyan-xue@geidco.org

International Atomic Energy Agency (IAEA)	**Description:** The exhibition will highlight some initiatives launched by the IAEA in collaboration with Member States and other UN organizations to tackle the most pressing needs of countries on the path towards sustainable development: • "Nuclear Technology for Controlling Plastic Pollution", aimed at addressing the burden of plastic pollution – collaboration with the private sector; • "Zoonotic Disease Integrated Action" (ZODIAC), established to strengthen countries' preparedness to detect outbreaks of diseases that originate in animals and can be transmitted to humans – collaboration with FAO, WHO and WOAH; • "Atoms4Food", an IAEA-FAO initiative to help countries boost food security through the use of nuclear science; • "Rays of Hope", aimed at supporting countries most in need to access cancer diagnosis and treatment–collaboration with WHO.	
	Potential Collaboration: • Countries interested in issues related to the subjects addressed or wishing to receive IAEA support; • Institutions in Member States willing to collaborate in hosting trainees or providing technical expertise; • Other international organizations willing to partner with the initiatives; • Representatives of Member States which have already contributed to the initiatives, and/or potential donors.	
	Website: ZODIAC https://nucleus.iaea.org/sites/zodiac/SitePages/Home.aspx NUTEC Plastics https://www.iaea.org/newscenter/news/nutec-plastics-using-nuclear-technologies-to-address-plastic-pollution Rays of Hope https://www.iaea.org/raysofhope Atoms4Food https://www.iaea.org/services/key-programmes/atoms4food	**Contact:** Laura Vai, Strategic Partnership Officer, Department of Technical Cooperation, IAEA l.vai@iaea.org

Latvia	**Description:** **Riga Tech Girls – "Tech is for everyone"** Riga Tech Girls with their projects in Uzbekistan, South Africa, Cameroon envisions the future where gender diversity thrives in tech industry, breaks barriers and fosters equal opportunities. **Tilde – "language technologies for connected world"** Tilde has played a crucial role in supporting creation of sustainable infrastructure for the use of modern language technologies in European and Central Asian countries, thus enabling especially smaller languages in the digital age.	
	Potential Collaboration: Riga Tech Girls is looking for partners who would like to support girls and women in developing their tech skills through STEM summer schools or programmes for female tech founders. Tilde works with governments agencies & ministries that need machine translation tools to introduce international standards in their local languages.	
	Website: • https://rigatechgirls.com/ • https://www.tilde.com/	**Contact:** Alise Pika-Ozola, Permanent Mission of the Republic of Latvia to the United Nations Office alise.pika-ozola@liaa.gov.lv +41 783171259
Objectif Sciences International	**Description:** Participatory Sciences at the service of governmental policies and UN-SDGs Challenge: resolving UN-SDGs takes time. Citizens and Government must collaborate to achieve 2030 goals. Participatory Science fosters collaboration and accelerate change, as: • Citizens design problematics and engage into action, • Research programs are led by citizens with methodologic and scientific support from scientists, • Solutions are innovative and support a long-term positive impact on SDGs and Peace, • Citizens co-define new policies that serve each UN SDGs Thus, Participatory Science ease implementation and reinforce government policies to resolve UN SDGs.	

	Illustration: Presentation of the initiative about Clean Water and Sanitation SDG 6	
	Potential Collaboration: • Governmental bodies on all scales: from cities (mayors) up to State (Ministry of Research / Science or Ministry of Environment, for example) • United Nations Entities, such as UN Women, UN Habitat, FAO, UN Development Program, among others	
	Website: https://www.osi-ngo.org/nos-actions/article/sciences-participatives-au-services-des-politiques-gouvernementales-pour-les?lang=en	**Contact:** info-un@osi-ngo.org
Okayama University	**Description:** The Partnership between Okayama University and UNCTAD, based on an unprecedented MoU in 2020, initiated the "Joint Research and Training Course for Young Female Researchers from Developing Countries" (short-term program) and the "Doctoral Degree Program for Young Researchers from Developing Countries" (long-term program). These programs welcomed 23 young female scientists and 3 doctoral candidates from 11 countries into interdisciplinary fields, including natural science, environmental science, and health science. Recognized by the UN, the short-term program notably addresses the gender gap in science, technology, and innovation, spotlighted at the "8th Multi-Stakeholder Forum on Science Technology and Innovation for Sustainable Development Goals."	
	Potential Collaboration: Our initiatives focus on CSTD member states in Africa and the ASEAN region. The long-term program accepts applications in November, while the short-term program accepts them in April. We encourage submissions from these states, with possible expansion to other regions. Attend our 17 April CSTD side event for more details.	

	Website: • https://globalengagementoffice.okayama-u.ac.jp/en/unctad/ • https://unctad.org/topic/science-technology-and-innovation/young-female-scientist-programme	**Contact:** Yu Tsuha (Ms.) Global Administrator sti-sdgs@adm.okayama-u.ac.jp
The Philippines Department of Science and Technology (DOST)	**Description:** **Fuel Cell R&D and Testing Center** The DOST's Fuel Cell R&D and Testing Center aims to establish a dedicated facility that contributes vital research and innovative testing solutions in developing and adopting localized fuel cell technology. A partnership on knowledge enhancement with the Centre for Hydrogen and Fuel Cell Research of the University of Birmingham and research visits and laboratory tours at Japan's National Institute of Advanced Industrial Science and Technology (AIST) and the R&D Center for Zero CO2 Emission with Functional Materials of the University of Tsukuba were undertaken. **R&D on Philippine Tannins** The Philippines conducted joint research on Philippine Tannins, a natural source of phenolics used in leather processing and fiber dyeing. Apart from local institutions, the DOST partnered with Bern University of Applied Sciences and also received funding support from the Swiss National Science Foundation. Two studies were conducted which are on biocides against wood and bamboo destroying organisms and Philippine agroforest residues as tannin sources for wood adhesives. **Social Sciences, Human Sciences, Education, Culture, Communication, and Information for Sustainable Development Goals (SDGs) Scorecard** The Social Sciences, Human Sciences, Education, Culture, Communication, and Information for Sustainable Development Goals (SDGs) Scorecard was developed through collaborative efforts between the Department of Science. and Technology and the Hydrology for Environment, Life and Policy (HELP) Davao Network, thru the invaluable support of the Malaysia Funds-in-Trust (MFIT) - UNESCO Regional Science Bureau for Asia and the Pacific Jakarta Office. This comprehensive tool serves as an instrumental means to measure the contribution of diverse programs, projects, and activities towards achieving the SDGs.	

	Potential Collaboration: The Philippines is open to possible partnerships on various fields of science, technology, and innovation through the implementation of joint research programs, scholarship, knowledge exchange, and other capacity building activities.	
	Website: https://www.dost.gov.ph	**Contact:** Karen Lou S. Mabagos Project Technical Specialist V Department of Science and Technology Republic of the Philippines klsmabagos@dost.gov.ph cc: ousec.rd@dost.gov.ph
United Nations Development Programme	**Description:** UNDP will showcase the results of SDG Digital, an initiative launched together with partners ahead of the 2023 SDG Summit in New York. The initiative highlights the pivotal role of digital technologies in achieving the SDGs, as highlighted in the Acceleration Agenda – a flagship report that argues digital technology can directly benefit 70% of SDG targets. In 2024, UNDP and ITU plan to organize the 2nd SDG Digital which will focus on our digital future. In addition, UNDP will present its ongoing work on Digital Public Infrastructure (DPI). This includes initial outcomes of the UN High Impact Initiative on DPI, the recently launched DPI Safeguards initiative, as well as a snapshot of the DPI Playbook and the DPI Compendium.	
	Potential Collaboration:	
	Website: • https://www.sdg-digital.org/ • https://www.undp.org/digital/digital-public-infrastructure • https://www.dpi-safeguards.org/	**Contact:** Felicia-Adriana Vacarelu, Communications Lead for Digital Transformation, Chief Digital Office, UNDP felicia-adriana.vacarelu@undp.org
United Nations Industrial Development Organization (UNIDO)	**Description:** (1) UNIDO AIM Global Alliance on AI for Industry and Manufacturing aims to promote responsible AI deployment, enhance industrial competitiveness, advance sustainable development, and promote fair access to AI technologies. (2) The Alliance for I4.0 and Smart Manufacturing in Africa (AISMA) aims at unlocking the potential of smart manufacturing in Africa through	

	awareness raising, collaboration and promotion of digital technologies into manufacturing and industrial processes. (3) STI Project: supports the creation of a policy and research and engagement program on how to leverage science, technology and innovation for the achievement of inclusive and sustainable industrial development and the SDG9.	
	Potential Collaboration: Collaborate with UNIDO's AIM and AISMA initiatives to leverage AI and digital technologies for industrial innovation and smart manufacturing in Africa. Promoting sustainable development, equitable AI access, and enhancing industrial competitiveness through global partnerships and knowledge exchange. The STI team invites Member States to partake in the Industrial Policy Lab (IPL) which provides opportunities for knowledge sharing and mutual learning on policy initiatives to foster industrial innovation.	
	Website: • https://aim.unido.org/ • https://www.unido.org/sites/default/files/files/2024-02/AISMA_Leaflet.pdf • https://open.unido.org/projects/M0/projects/190131 • https://sdgs.un.org/tfm/interagency-task-team/capacity/	**Contact:** AIM-Global@unido.org; aisma-alliance@unido.org; (STI team) Mr. Fernando SANTIAGO, Industrial Policy Officer, F.SANTIAGORODRIGUEZ@unido.org
United Nations Office of the Special Envoy on Technology (OSET)	**Description:** The importance of AI in digital transformation is underscored in the recent activities of the High-Level Advisory Board (HLAB) of the UN Secretary-General. The HLAB, comprising global experts and thought leaders, plays a critical role in shaping international discourse on these emerging technologies. Their recently released interim report is a testament to this effort. It emphasizes the need for a nuanced understanding of AI's impact, particularly highlighting the varying needs and capacities of different countries. Significantly, the report draws attention to the Global South, advocating for tailored strategies that acknowledge their unique socio-economic contexts. This focus is crucial in ensuring that AI-driven digital transformation is inclusive, equitable, and beneficial for all nations.	

	Potential Collaboration: We're embarking on a sectorial deep dive (health, workforce, technologies, agriculture, etc.) and invite inputs and collaboration from individuals and organizations. Additionally, we're seeking partners for regional consultations, with a special emphasis on the Global South and Africa, aiming to enrich our insights and strategies through diverse partnerships. Potential collaboration	
	Website: • https://www.un.org/ai-advisory-body • https://www.un.org/technvoy/ai-advisory-body	**Contact:** Dr. Mehdi Snene Senior Advisor, AI and Digital Transformation Mehdi.snene@un.org
United Nations Technology Bank for the Least Developed Countries	**Description:** Being established in 2017 to strengthen the STI capacity of LDCs, the Doha Programme of Action for 2021-2030 also reaffirms this role as "a focal point for the LDCs to strengthen their STI capacity towards building sustainable productive capacities and promoting structural economic transformation". Evidence from 14 completed Technology Needs Assessments will be used to disseminate the results for partners' action and showcase opportunities for partnerships in technology transfer and capacity building, through the Technology Makers Lab for digital skills development, the 'Hear, Listen and Speak' programme in Bhutan and the construction of a disaster resilient housing prototype in Mozambique.	
	Potential Collaboration: Potential collaboration opportunities on cross cutting areas of work and in LDCs can be identified, specifically in the transfer of technology and knowledge/skills. The projects fall under the following thematic areas: • Agriculture and food systems • Environment, climate change and resilience • Health • Education and digital skills development	
	Website: • https://www.un.org/technologybank/ • https://twitter.com/UNTechBank • https://www.linkedin.com/company/un-technology-bank-for-least-developed-countries/	**Contact:** Federica Irene Falomi Chief, Research, Analysis and TNAs federica.falomi@un.org

UN Women	**Description:** UN Women position paper on “Placing Gender Equality at the Heart of the Global Digital Compact: Taking forward the recommendations of CSW67”. This paper presents practical ways to mainstream gender perspectives into digital cooperation negotiations and build bridges between technical experts working on gender and STI. The Exhibition will spotlight the key recommendations from the 67th Commission on the Status of Women that can be used and emphasised in the work of CSTD, including adopting a stand-alone goal on gender equality to accelerate progress in bridging the gender digital divide.	
	Potential Collaboration: The position paper can be used by any stakeholder to inform their work on gender and technology and UN Women will be available to provide guidance and discuss engagement opportunities to further coordinate work on this topic.	
	Website: • www.unwomen.org • https://techforgenerationequality.org/ • https://forum.generationequality.org/	**Contact:** Helene.Molinier@unwomen.org
Universal Postal Union - .POST Business Management Unit	**Description:** .POST is the internet top-level domain sponsored by the UPU for the postal operators and organizations associated with the postal industry and supply chain. It is a secure and trusted Internet space to serve the needs of the global postal community in the digital economy. .POST secures user’s online presence on the Internet and support them to provide their customers with reliable and secure Internet-based postal services; it also offers a multi-service .POST platform with viable products to strengthen and extend Posts' and private sector business with innovative, Internet-based services; it also promotes innovation, integration and inclusion of Internet-based postal activities based on .POST.	
	Potential Collaboration: .POST has many potentials in areas related to digital transformation, cybersecurity or ISAC (Information Sharing and Analysis Center). If you would like to collaborate with us, please contact us at sabram@upu.int.	
	Website: https://trust.post	**Contact:** Mayssam Sabra trust.post@upu.int or sabram@upu.int

World Meteorological Organization (WMO)	**Description:** WMO will showcase its work on linking weather-, climate-, and water-related sciences and services to support sustainable development. For example, United in Science 2023 highlights the role these sciences play in achieving the SDGs, whereas The Global Climate 2011-2020 demonstrates how extreme events hinder progress toward the SDGs. Additionally, the Early Warnings for All Initiative aims to ensure that effective early warning systems save lives, reduce losses and damages and safeguard sustainable development gains. With input from National Meteorological and Hydrological Services, international organizations, and UN agencies, these projects highlight cooperation across science, technology and innovation to support the SDGs.	
	Potential Collaboration: WMO welcomes collaboration across diverse partners, including UN agencies, international organizations, civil society, and academia, among others, in linking weather, climate and water related sciences and services to sustainable development activities in support of the SDGs.	
	Website: https://wmo.int/activities/sustainable-development-goals	**Contact:** Lauren Stuart Scientific Officer WMO Science & Innovation Department lstuart@wmo.int