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Accelerate-to-Demonstrate (A2D) Facility Annual Event

Leveraging Critical Minerals for Meeting the Sustainable Development Goals

Wednesday, April 15th, 09:00 – 10:30am



Agenda

Time	Activity
09:00 – 09:05	Introduction, Ms. Ghada Ahmed, Project Coordinator – Critical Minerals, UNIDO
	1: Presentations
09:05 – 09:15	Advancing clean energy solution in the transport sector in Tanzania, Mr. Samuel Agasa Magiya , Finance and Reporting Manager and Ms. Noela Kimei, Business Development Manager, Oasis Group
09:15 – 09:25	Lithium-ion battery recycling, Mr. Adrian Clews, Founder and CEO of Hinckley E-Waste Recycling Ltd
09:25 – 09:35	Green Rare Earth Processing, Mr. Vetumbuavi Mungunda, Founder of Ombu Capital
09:35 – 09:45	Q&A
	2: Panel Discussion
09:50 – 10:15	- Ms. Ellin Victoria, Executive Director of the Jakarta Office, QMB New Energy Materials in Indonesia - Mr. Abdoul Aziz IDRISSE, Senior Mining Engineer, Ministry on Mining, Niger - Mr. Diego Quintero, CEO - Founder ReSolar LATAM, Colombia
10:15 – 10:27	Q&A
10:27 – 10:30	Conclusion - UNIDO



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Part 1: Opening Presentations



Moderator:

Ms. Ghada Ahmed,
Project Coordinator,
Critical Minerals, A2D
Facility, UNIDO



**Mr. Samuel Agasa
Magiya**, Finance and
Reporting Manager,
Oasis Financial
Services



Ms. Noela Kimei,
Business
Development
Manager, Oasis
Financial Services



Mr. Adrian Clews,
Founder and CEO of
Hinckley E-Waste
Recycling Ltd



**Mr. Vetumbuavi
Mungunda,**
Founder of Ombu
Capital



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Leveraging Lithium Value Chains for Sustainable E-Mobility in Tanzania

**Mr. Samuel Agasa Magiya , Finance and Reporting
Manager, Oasis Financial Services**
**Ms. Noela Kimei, Business Development Manager,
Oasis Financial Services**

Leveraging Lithium Value Chains for Sustainable E-Mobility in Tanzania

❖ Payless Energy Limited /Oasis Financial Services Limited.



Current E-Mobility Landscape in Tanzania

- ❖ Heavy reliance on imported batteries
- ❖ Limited local production
- ❖ Growing demand EVs
- ❖ Gap: Limited Local production, leading to high costs which limits adoption of Evs.
- ❖ Our solution- (Local production, building local skills hence reducing operating costs.



Integrated E-Mobility Ecosystem-Project Pillars

- ❖ Local Battery production.
- ❖ EV manufacturing (2 & 3 EW)
- ❖ Infrastructure Development- Swapping stations
- ❖ Designed for African Market.
- ❖ Entered MOUs with asset financing entities.
- ❖ Well structured after-sale service.
- ❖ Knowledge sharing and Capacity Building





Lighthouse Impact

Manufacturing Model

- ❖ First fully local company in this EV Sector in Tanzania- Demonstrating local manufacturing potential
- ❖ Local experts with world-class skills.
- ❖ Model for other African countries

efficient

lightweight

Comfortable

Designed for Multi-purpose use

- ❖ Clients: commercial and private riders
- ❖ 24 hours Battery swapping service.
- ❖ Significantly low operating costs
- ❖ Pouch cell technology (LMFP) 74V 50AH:
- ❖ Weight of the battery- 27Kg.



Driving SDG Impact & Inclusion

- ❖ SDG 5 Gender Equality
- ❖ SDG 7 Affordable clean Energy
- ❖ SDG 13 Climate Action
- ❖ Partnership with Technical Training Institutes.
- ❖ Women: 30% of workforce (target >40%)



Scalability & Replicability and Unlocking Value in Africa's Lithium Chain

- ❖ Local manufacturing reduces cost & risk
- ❖ Scalable across East Africa & SADC
- ❖ Adaptable model for African markets
- ❖ Targeting 20,000 EV and 1,000 battery swapping stations within 1 to 2 years.





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Lithium-ion battery recycling in Nigeria

Mr. Adrian Clews, Founder and CEO of Hinckley E-Waste Recycling Ltd

Hinckley Ewaste Recycling

UNIDO A2D FACILITY
ANNUAL EVENT

April 2026



Introduction

Recycling Lithium Batteries for Critical Minerals - An Africa First



Lithium-ion battery waste

This project directly addresses build-up of lithium-ion battery waste, built up across the country and wider Africa, which could not previously be addressed and resulted in costly shipping to Europe and Asia for recycling

Creation of recycling facility

Lithium-ion recycling facility will produce high quality black mass, capable of recycling 5,000 tons of waste batteries per annum and combining off the shelf products with partner expertise to ensure economic viability of the resulting materials



Introduction

Recycling Lithium Batteries for Critical Minerals - An Africa First

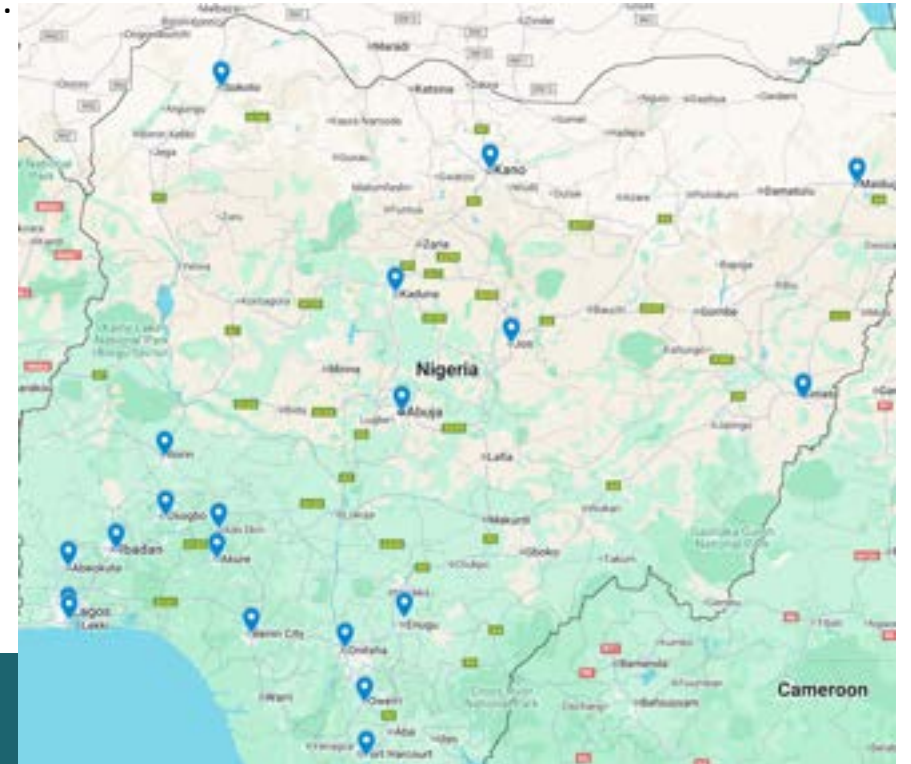


Capacity building

Training and capacity building is ambitious and is lead by expert partner ACE-FUELS. This will include workshops, webinars, study tours and communications strategies, ensuring key audiences are engaged.

We will install 20 collection centres across all six geopolitical zones, addressing waste in all zones and creating 96 local jobs, supported by training and community engagement. Hinckley Recycling will draw from their experience with the informal collection sector to formalise the sector, making it safer for all involved and aim to incentivise and increase the income of over 50,000 women by 2030.

Lighthouse project



Executive Summary

Hinckley to develop Africa's first urban mining plant in Nigeria, comprising of a Lithium-Ion Battery recycling facility.

Background



Hinckley Ewaste Recycling is the first government approved ewaste recycler in Nigeria. Working closely with international partners and the Nigerian government to develop policy and legislation for ewaste management in Nigeria.

Hinckley Ewaste Recycling Ltd. and aims to expand and focus Hinckley's e-waste recycling capabilities on lithium-ion battery recycling.

We will source lithium-ion batteries (LIB) through formal and informal channels and sell the resulting recovered components and products on international markets.

Executive Summary

Hinckley to develop Africa's first urban mining plant in Nigeria, comprising of a Lithium-Ion Battery recycling and reuse facility.

Situation



Nigeria generates over 440,000 tonnes of e-waste annually, including imported e-waste. 80% of recycled e-waste is processed informally with the hazardous components posing significant health and environmental risks when inappropriately processed and disposed.

LIB waste is expected to reach at least 12,000 – 21,000 tonnes per annum by 2030, driven by the growing use of consumer electronics (mobile phones and laptops) and solar powered systems and devices. However, LIB recycling and reuse is highly unexploited.

PCB waste contributes 50,000 tonnes presently to Ewaste problem in Nigeria. This is forecast to grow to 100,000 tonnes in the next 7 years. Crude smelting practices in Nigeria of PCB's are a serious environmental and health risk.

Executive Summary

Hinckley to develop Africa's first urban mining plant in Nigeria, comprising of a Lithium-Ion Battery recycling and reuse facility.

Opportunity

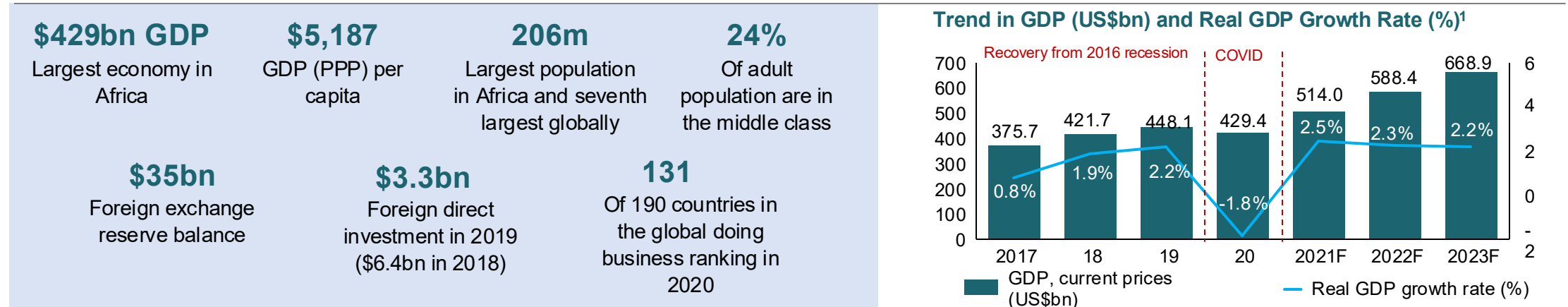


Manufacturing, renewable energy and the digital economy continue to attract significant investment and support from the Federal Government of Nigeria, private sector and donor community.

Hinckley has an opportunity to develop a best-in-class lithium-ion battery facility

As the global demand for batteries continues to grow, mainly driven by the increasing electrification of transport vehicles and use of renewable energy solutions, recycling and repurposing of used batteries will be key to ensure a sustainable battery supply chain and will contribute to a circular economy.

Nigerian Macroeconomic Overview



COVID response



FGN approved Nigeria Economic Sustainability Plan (ESP) in June 2020, outlining real sector, fiscal and monetary stimulus measures for implementation



Focus on job creation, implementation and projects and provision of support to improve productive capacity in agriculture, **manufacturing**, **renewable energy**, housing and **digital economy**



Central Bank of Nigeria has cut the monetary policy rate twice by a total of 200bps to 11.5% to support the economy and manage inflationary pressures.

1. International Monetary Fund (IMF)

Despite the macro economic challenges, key evolving trends continue to position Nigeria as a fertile ground for investment:

1. **Economic diversification:** increasing efforts to change the country's export structure and revenues from non-oil sectors; improvements in the ease of doing business; implementation of the ESP and African continental free trade agreement
2. **Import substitution:** focus on achieving self sufficiency in critical sectors (particularly agriculture and manufacturing), will support the development of made in Nigeria goods and services and promote foreign exchange stability
3. **Increasing investment in infrastructure:** higher budgetary allocations in public works and road constructions, **installation of solar home systems**, mass housing, and other infrastructure projects and private sector partnerships to reduce deficit
4. **Growing financial inclusion:** increasing focus on strengthening social safety nets to protect the very poor and vulnerable groups.

E-waste is the fastest growing waste stream in the world driven by advances in technology and consumer demand for electrical and electronic goods.



53.6 million tonnes of e-waste was generated globally in 2019, up 21% in five years and is expected to grow to 74 million tonnes by 2030¹



\$57 billion worth of high value recoverable materials (such as gold, copper, aluminium, cobalt, platinum) were dumped or burned rather than recycled or reused with only 17.4% of the e-waste in 2019 being recycled¹



Over **440,000 tonnes** of e-waste is estimated to be generated by Nigeria annually, of which c.100,000 tonnes is imported



c.80% of e-waste recycling in Nigeria is processed through the informal sector and Nigeria lacks adequate waste management systems and infrastructure



E-waste contains **hazardous substances** and improper disposal poses significant risks to the environment and can lead to adverse health effects including damage to the nervous system, lungs, kidney, liver, thyroid, heart, eye, respiratory system, fertility, memory loss, skin irritation and cancer.

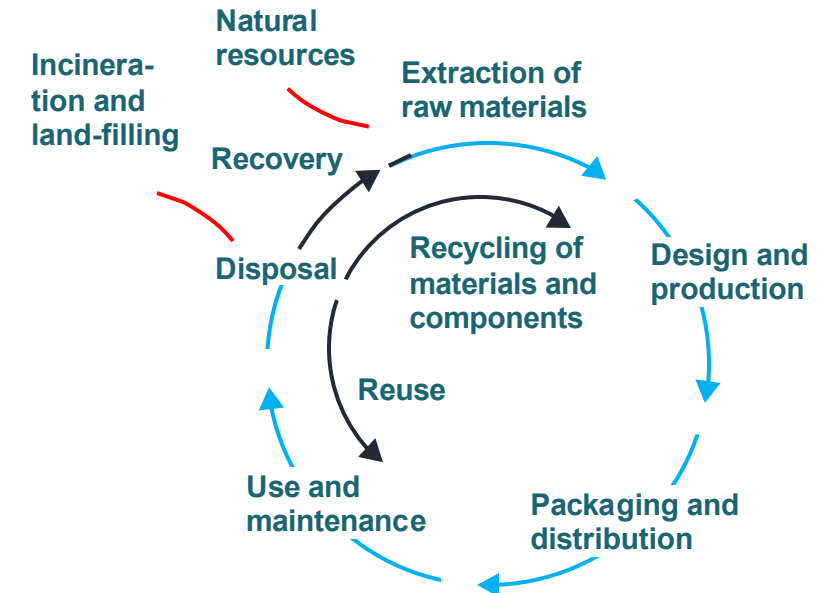


Law was ratified in 2011 by the National Environmental Standards and Regulations Enforcement Agency (NESREA) that enforces the collection and ethical disposal of electronic waste and lays the responsibility on their producers (both local and international OEMs) as well as importers and distributors.



Formal e-waste management, provides appropriate collection, sorting, storage and disposal systems with licensed recyclers processing, repairing, recycling, recovering valuable components and disposing of e-waste in line with local and international best practice.

Typical product life cycle²



1. Global E-waste Monitor 2020

2. Source: Arremmen et al. Life Cycle management A business guide to sustainability (Paris, UNEP, 2007) P 12

There is an opportunity to capture value from battery waste through recycling while also averting the environmental and safety hazard in Nigeria

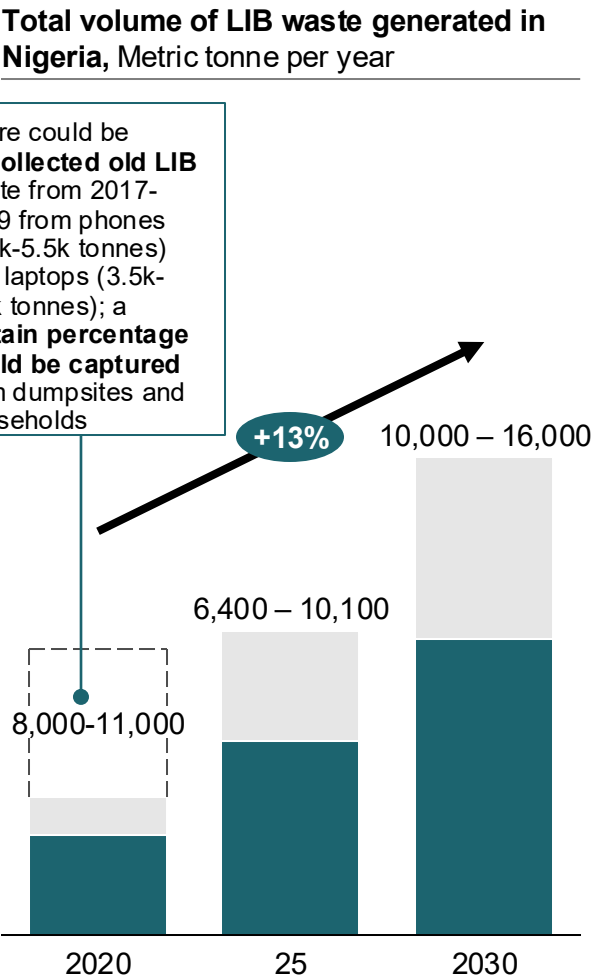
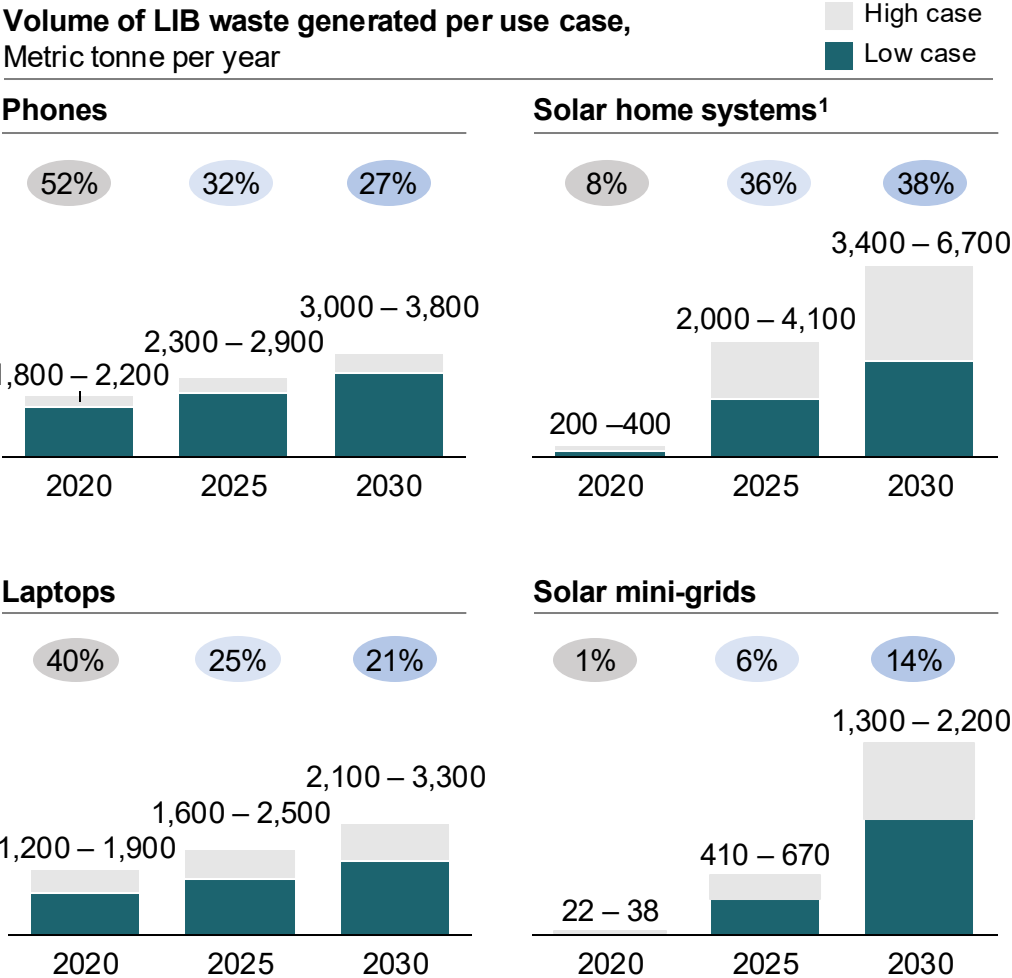
Battery type	Use cases	User groups	Collectors	Current state of recycling
Lithium ion battery (LIB)	 Consumer electronics (phones, tablets, laptops and power banks)	- Individual owners - Large corporations - Public institutions	- Formal sector - OEM (returned and failed devices) - Existing recyclers and disposal service providers - Retail shops drop-off stations - Electronic device repair shops (failed unusable batteries) - Garbage collector companies - Importers and distributors - Informal sector - Electronic device repair shops - Garbage collectors	- Most LIB waste ends up mixed with municipal solid waste as there is no established recycling by the informal and formal sector - Not recycled LIBs constitute a hazard as they could overheat and cause explosion and fires - LIBs could be recycled for their components or refurbished to create second life battery pack
	 Solar powered systems (solar home systems, rooftop solar PV panels and batteries, solar mini-grids)			
	 Electric and hybrid vehicles (E2W and E4W ¹)			

1. Electric two wheel and electric four wheel
2. Lead levels over 5 micrograms could cause cardiovascular problems and over 10 micrograms learning disabilities

Source: Business Today 2018, Dying in instalments: How lead battery recydlers are poisoning Nigerians (Part I)

Currently, phones and laptops contribute ~85% to LIB waste but solar powered devices are projected to dominate the market by 2030

Percentage of total waste per year per device			
2015	2020	2030	CAGR %



- **Phones and laptops** are the **main sources of LIB waste** currently
- Solar powered devices will contribute to more than 60% by 2030 driven by their heavy battery sizes and government initiatives to expand access to off-grid electricity (FGN in ESP plan committed to delivering **5 million new solar connections**, serving **25 million** Nigerians not connected to the grid)
- Additional source of LIB waste are:
 - **Tapping into the uncollected LIB waste** from **phones** (4500 – 5500 MT) and **laptops** (3500 – 5500 MT) from 2018 - 2020
 - Rise in the number of **hybrid electric vehicles** and their battery waste expected to increase **from 2025**

1. Excluding Pico lanterns

SOURCE:
 Statista 2018, Consumer Electronics Market in Nigeria
 Industry expert in Nigeria with experience with 10 year of experience in electrical maintenance, renewable energy and power sector

Impact of Informal Recycling - Nigeria



business.



Faruk Balogun, who often plays football near the factory had blood lead levels of 27 micrograms. Even toddlers are not spared with Kehinde and Taiwo, twins of one-year and ten months recording 19.2, and 24.4 micrograms.

The WHO says that in adults, blood lead levels as little as 5 micrograms per decilitre can cause cardiovascular problems and reduces the immune system. In children and embryos, lead attacks brain and nerves and can lead to learning difficulties and even mental retardation.

<https://businessday.ng/businessday-investigation/businessday-investigation-f/article/dying-in-instalments-how-lead-battery-recyclers-are-poisoning-nigerians-part-i/>

Everest Metals is located less than 500 meters away from Christheirs Nursery and Primary school, which had over 200 students, who are between 2 and 14 years. The head teacher who didn't want to be named said she sometimes considers sending the children home when the smoke becomes intense.



Confronted with test results showing high levels of lead in the blood of people living close to its lead battery recycling operation in Ipetoro, Sagamu, local government area of Ogun State, Everest Metals Nigeria Ltd's first line of defence was that it had all the government registrations required.



Impact of Informal Lithium Mining - Nigeria



NASARAWA, Nigeria (AP) — Dressed in a faded pink dress, 6-year-old Juliet Samaniya squats under scorching skies to chip at a jagged white rock with a stone tool. Dust coats her tiny hands and her hair as she works hour after hour for less than a dollar a day. The landscape around her is dotted with active and abandoned mineshafts, farmland that may soon be cleared in search of more rich ore, and other mine workers — many of them children.

Juliet should be in school, her mother, Abigail Samaniya, admits. Instead, she spends her day mining lithium, a mineral critical for batteries needed in the global transition to clean energy, to earn money that helps sustain her family.

“That is the only option,” Abigail Samaniya said.

<https://www.france24.com/en/live-news/20250206-nigeria-s-lithium-mining-eldorado-sparks-concerns>



“Revenue generation seems to have trumped the need to protect human rights,”

Extraordinary



Federal Republic of Nigeria
Official Gazette

No. 160 Lagos - 5th September, 2022 Vol. 109

Government Notice No. 142

The following is published as supplement to this Gazette :

S. I. No.	Short Title	Page
79	National Environmental (Electrical and Electronic Sector) Regulations, 2022	B3451-3514

21. All operators, importers, exporters, manufacturers, assemblers and distributors of various brands of electrical power products or equipment shall subscribe to the extended producer responsibility programme for end-of-life, discarded electrical power products as prescribed in Schedule VI to these Regulations.

Extended Producer Responsibility Programme.

51.—(1) Any person who violates the provisions of these Regulations commits an offence and shall upon conviction, be liable to a fine not exceeding ₦200,000 or to imprisonment for a term not exceeding 1 year or to both and an additional fine of ₦5,000 for every day the offence subsists.

Penalties.

(2) Where an offence under these Regulations is committed by a facility, it shall upon conviction, be liable to a fine not exceeding ₦1,000,000 and an additional fine of ₦50,000 for every day the offence subsists.

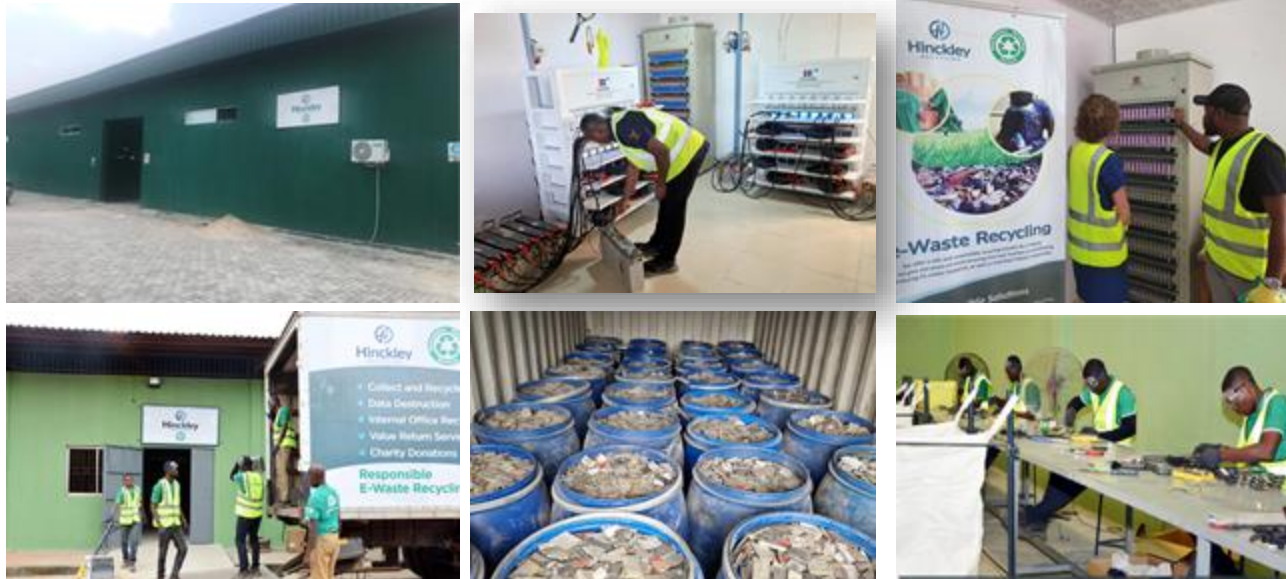
National Environmental (Electrical and Electronics Sector Regulations 2022

Hinckley Recycling became Nigeria's first government approved e-waste recycler in 2017 providing end of life solutions for electrical and electronic equipment

- Hinckley Recycling offers socially responsible e-waste solutions which conform to strict environmental recycling regulations and legislations locally.
- The Company works to ISO14001 Certification guidance in relation to component recovery from e-waste and residual disposal of e-waste.
- Battery shipments outside Nigeria are carried out in accordance with the Basel convention regulations.



Current Services

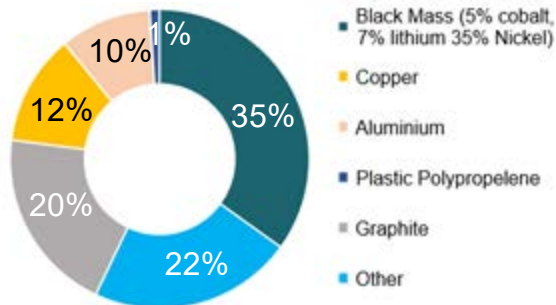


- **Collect & Recycle Service (CARS):** Recovery of redundant electrical and electronic items; secure destruction of confidential and protected data and recycling of items which are tracked and reported.
- **Internal Office Recycling:** Provision of recycling bins; removal of printer toner and ink cartridge in security tagged and sealed heavy-duty sacks and recycling in line with Basel convention hazardous waste regulations.
- **Data Destruction:** Data destruction through controlled processes and procedures with individual items tracked through IT asset management system (data eradication with certification, degaussing and disintegration).
- **Re-Use and Redeployment:** Recovery, refurbishment, upgrade, re-configure and re-deployment of IT equipment at end of product lifecycle that still meet business needs.
- **Value Return Services:** Repair, remarketing and resale of used technology products to optimise residual value returned to clients by operating a profit share or fixed purchase price mechanism.
- **Charity Donation:** Facilitation of client donations of IT equipment to charities through the refurbishment and delivery of equipment; and provision of relevant software.
- **Employee Purchase:** Provision of new or near new IT hardware, which clients can offer employees at competitive prices (trade prices). These included refurbished notebooks, systems and monitors with fully license operating systems and carry 1-3 years manufacturer's warranty.

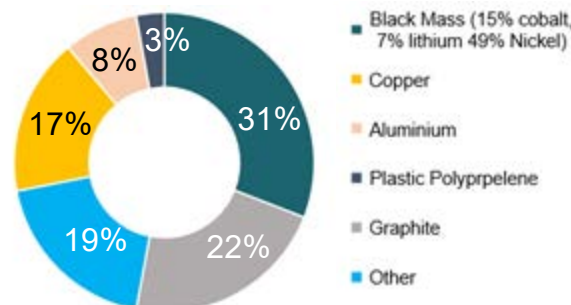
Project Plan: Lithium-ion battery recycle and reuse facility

- The lithium-ion battery recycle and reuse facility shall have a throughput of 5,000 tonnes.
- Hinckley Recycling will collect, recycle and extract valuable components from solar lithium ion and mobile phone batteries for sale on international markets.
- Valuable components include black mass, copper, aluminium, plastic polypropylene, graphite and others.
- The Company will develop a battery laboratory in partnership with:
- Through the partnership, Hinckley Recycling will test, redesign and rebuild battery packs from solar lithium-ion phosphate batteries and create second life products.

Extracted components from Solar lithium-ion batteries:



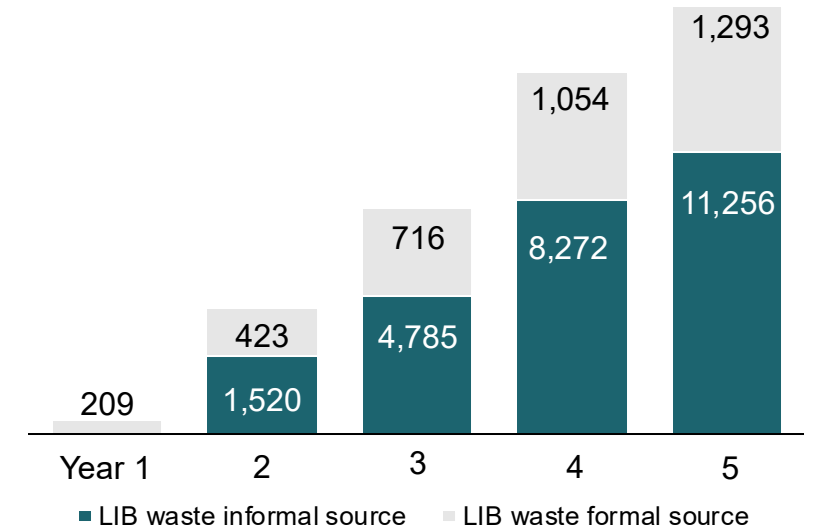
Extracted components from Mobile phone lithium-ion batteries:



STRICTLY PRIVATE & CONFIDENTIAL

Target Volume of LIB waste sourced for recycling and reuse

Metric Tonne



Economic Opportunities in Battery Recycling

The global battery recycling market was valued at \$18.58 billion in 2023 and is projected to reach \$31.41 billion by 2028, growing at an annual rate of 11.07%.

In the Middle East and Africa, the lithium-ion battery recycling market is expected to grow from \$88.87 million in 2023 to \$433.27 million by 2031, at a CAGR of 21.9%.

Experienced team backed by strong international advisers and partners

Management Team



Adrian Clews
Managing Director

Adrian Clews has 14 years' experience working and living in Nigeria within the electronics service and recycling sector. He is an expert in developing service models for technology products in Nigeria.



Hussein Apeh
- Head of Research and Development

Hussein holds a masters degree Industrial Chemistry from The Federal University of Technology, Akure (FUTA). Israel has worked for Hinckley in our recycling unit for over 3 years and has extensive experience working on R&D tech projects..



Stella Oriere
Finance Manager

Stella is a chartered accountant and specialises in finance with a BA (Hons) in Accounting and Finance from the University of Lagos. He has over 20 years experience working on finance projects with blue chip companies in Nigeria. Stella has expertise in account auditing and financial control systems.



Ikenna Obinna – Business Dev. Manager

Ikenna Obinna has worked with Hinckley Recycling for over ten years specialising in promoting responsible recycling practices for end-of-life electronics waste. He has secured ongoing recycling contracts with Canon, Samsung, Lenovo, HP, DHL and continues to rapidly grow the business.

Advisers



Michael Clews

Michael Clews has over 25 years of experience working in Nigeria as a Telecommunications Engineer for Shell Nigeria and was the founder of Hinckley Associates. He has strong political and business links in Nigeria and is a leader in developing winning business strategies in Africa.



Mark Stevenson

Mark Stevenson has over 40 years experience in the ULAB field with many years spent in the secondary lead smelting sector. Mark has strong experience in the technical, commercial, environmental and occupational health and safety of ULAB recycling.



Emenike Goodluck

Emenike Goodluck is a highly experienced electrical engineer with a masters degree from Carnegie Melon University Africa in Electrical and Computer Engineering. Emenike specialises in embedded systems, industrial automation and renewable energy. Emenike is passionate about environmental conservation



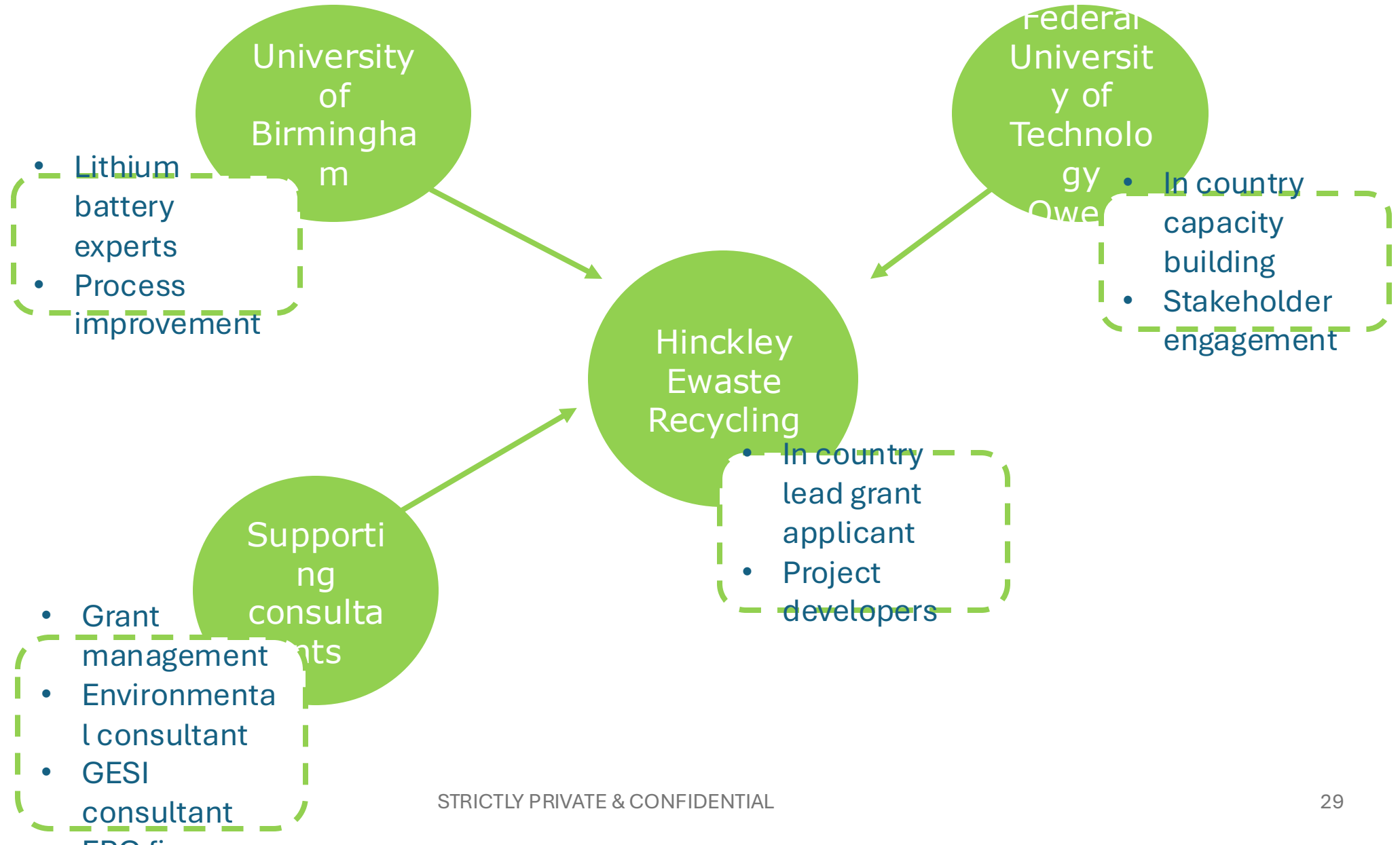
Laura Allerston

Laura holds a 1st class degree in Chemistry with Nanotechnology and a PHD in Chemical Engineering from the University of Birmingham. Laura has over 8 years experience working with lithium battery technology both for Acceleron and Smart Villages.

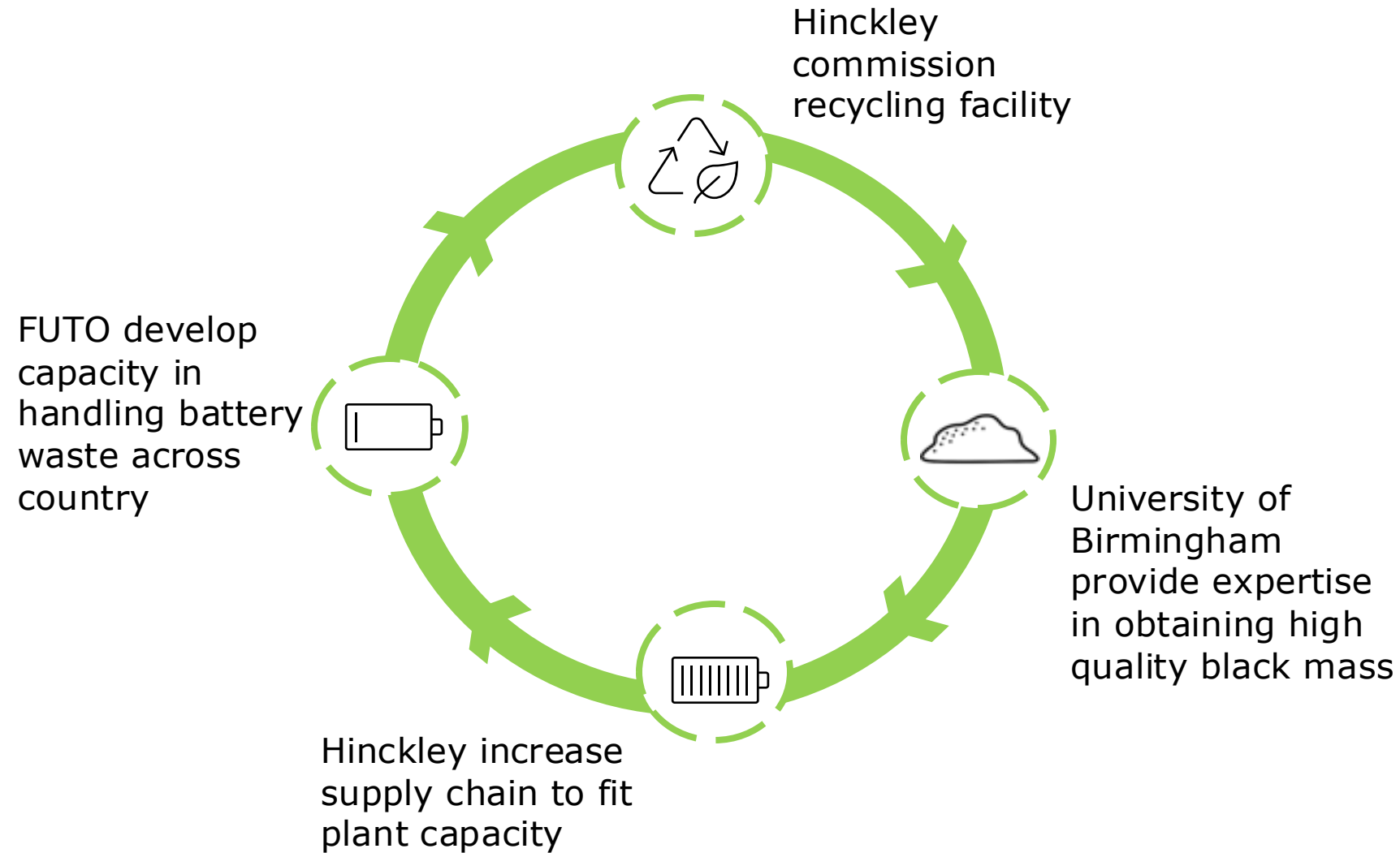
Partners



Team Roles



Team Roles



Activities across the first two months

Participation in the A2D kick-off event

Key members of our project team attended the A2D facility event including Adrian Clews, Emeka Oguzie and Laura Allerston.



Communications and knowledge management

Technical battery training for women

Knowledge or Information – Participants gained practical knowledge on battery systems, including cell testing, pack assembly, and identifying cells suitable for repurposing.

Medium – The training was delivered through in-person, hands-on sessions to ensure direct engagement and practical skill development.

Tools - Women were introduced to and trained in using essential diagnostic and assembly tools for testing battery cells and building functional battery packs.



Communications and knowledge management

Field readiness

ACE-FUELS has initiated early-stage field-aligned activities leveraging ongoing work in waste management, gender inclusion, and energy systems to support rapid project rollout.

Rapid mobilization approach

We will utilize FUTOs existing ecosystems for rapid deployment. This includes utilising data from:

- existing student field teams
- ongoing projects in line with A2D objectives
- immediate data and stakeholder access
- community access points already established

Geographic footprint

A: Southeast Zone

Owerri, Imo State

Enugu, Enugu State

Onitsha, Anam bra State

B: South South Zone

Port Harcourt, Rivers State



In addition to Hinckley's already established locations, this provides an already established field presence across many of the areas we are targeting.

Communications and knowledge management

Waste management field activities

Early Field Engagement: Waste Systems Mapping

- Ongoing waste characterization studies
- Community-level engagement on waste practices
- Preliminary insights relevant to battery waste streams

This activity (taking place Owerri, March 2026) supplies baseline data for the collection centre development.

These inception-phase activities (as well as GESI activities, demonstrate that ACE-FUELS has transitioned immediately into implementation mode, leveraging existing field systems, youth capacity, and inclusive research platforms to enable rapid, scalable deployment of A2D interventions.



Next steps

Plans for the next quarter

Activity	Detail	Date
Partner meetings	In person kick off meeting with UoB	22 nd April 2026
Finalising consultants	Contract signing with consultants for the project	End of May 2026
Inception report and supporting Annexes	Completion of inception report detailing the work to be undertaken during the project	Submitted to A2D facility by end of May 2026
Project website	Production of MVP of the partner run project website	Across the next Q
Baseline battery waste assessment	Developed by FUTO, supported by students and data collection	Across the next Q
Launch GESI-inclusive training	Developed by FUTO with Hinckley support	Across the next Q
Engage informal collectors	Developed by FUTO with Hinckley support from prior work in the area	Across the next Q

Contact Information

Adrian Clews

Managing Director, Hinckley Ewaste Recycling Limited

Email: aclews@hinckley.com.ng

Website: www.hinckley-recycling.com



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Green Rare Earth Processing in Namibia

Mr. Vetumbuavi Mungunda, Founder of Ombu Capital

UNIDO A2D Facility Annual Event 2026 · Bogotá, Colombia · 15 April 2026

Critical Minerals Thematic Session

G.R.E.E.M

Green Rare Earths & Minerals

Low carbon Rare Earth Value Addition



Green Rare Earth Processing in Namibia

A Demonstration for SDG-Aligned Critical Mineral Value Chains

Vetumbuavi Mungunda | Simon Hengua | Elisabeth Amadhila

The Challenge: Critical Minerals at the Heart of the SDGs



Supply Security

Clean energy transition depends on NdPr for EV motors and wind turbines, yet supply is dangerously concentrated in one country.



Developing Country Exclusion

Africa holds significant REE deposits but exports raw ore. It is missing the value addition step and the jobs, revenue and strategic leverage that come with it.



SDG Imperative

SDGs 9, 13, 1 and 5 all require a different model: green processing, in-country value addition, and equitable benefit sharing.





List of Critical minerals analysed

- Lithium
- Nickel
- Manganese
- Cobalt
- Graphite
- Rare Earth Elements (REEs)
- Copper
- Platinum Group Metals (PGMs)



Large Deposits with advanced projects requiring to come on stream

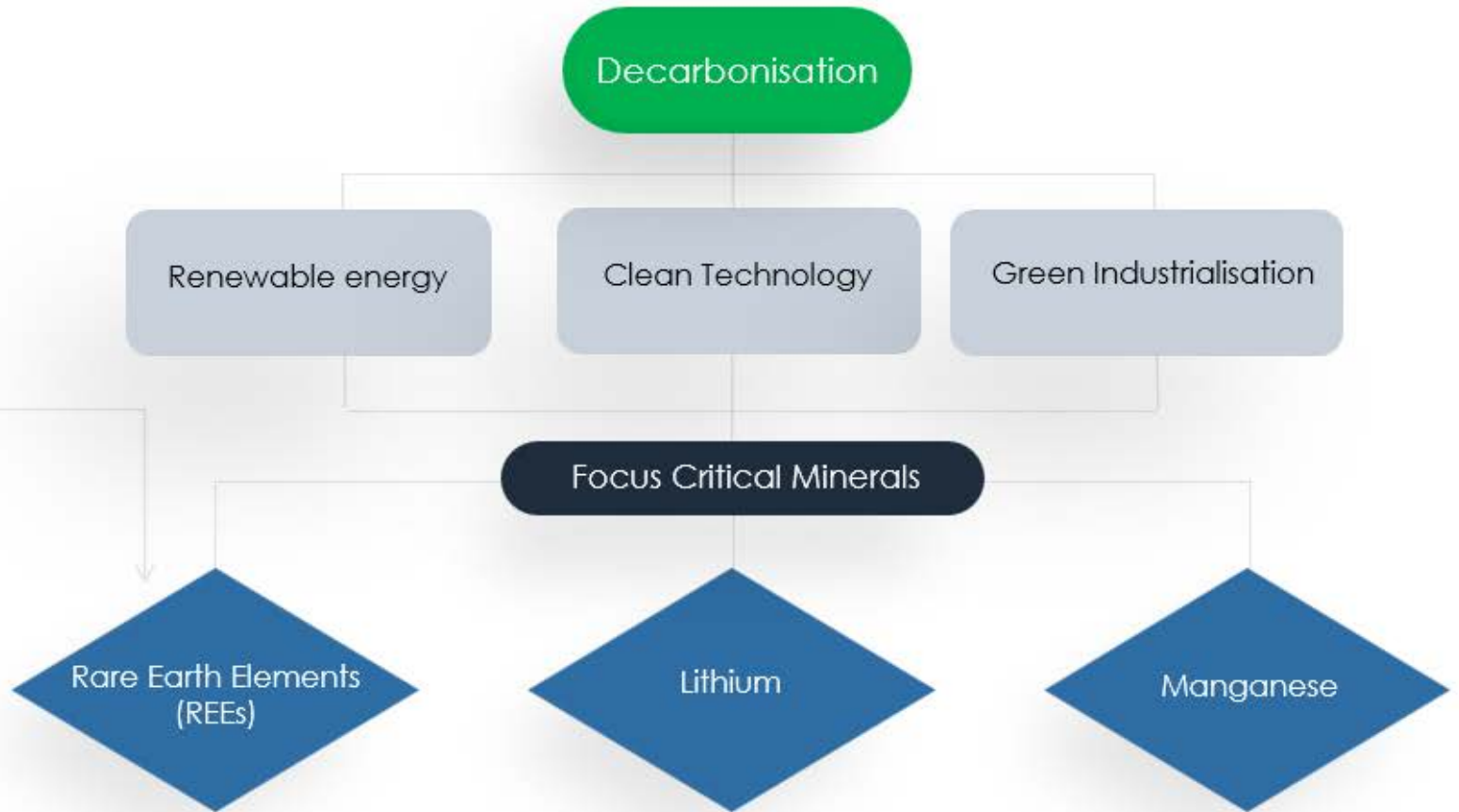


Moratorium on Raw mineral exports



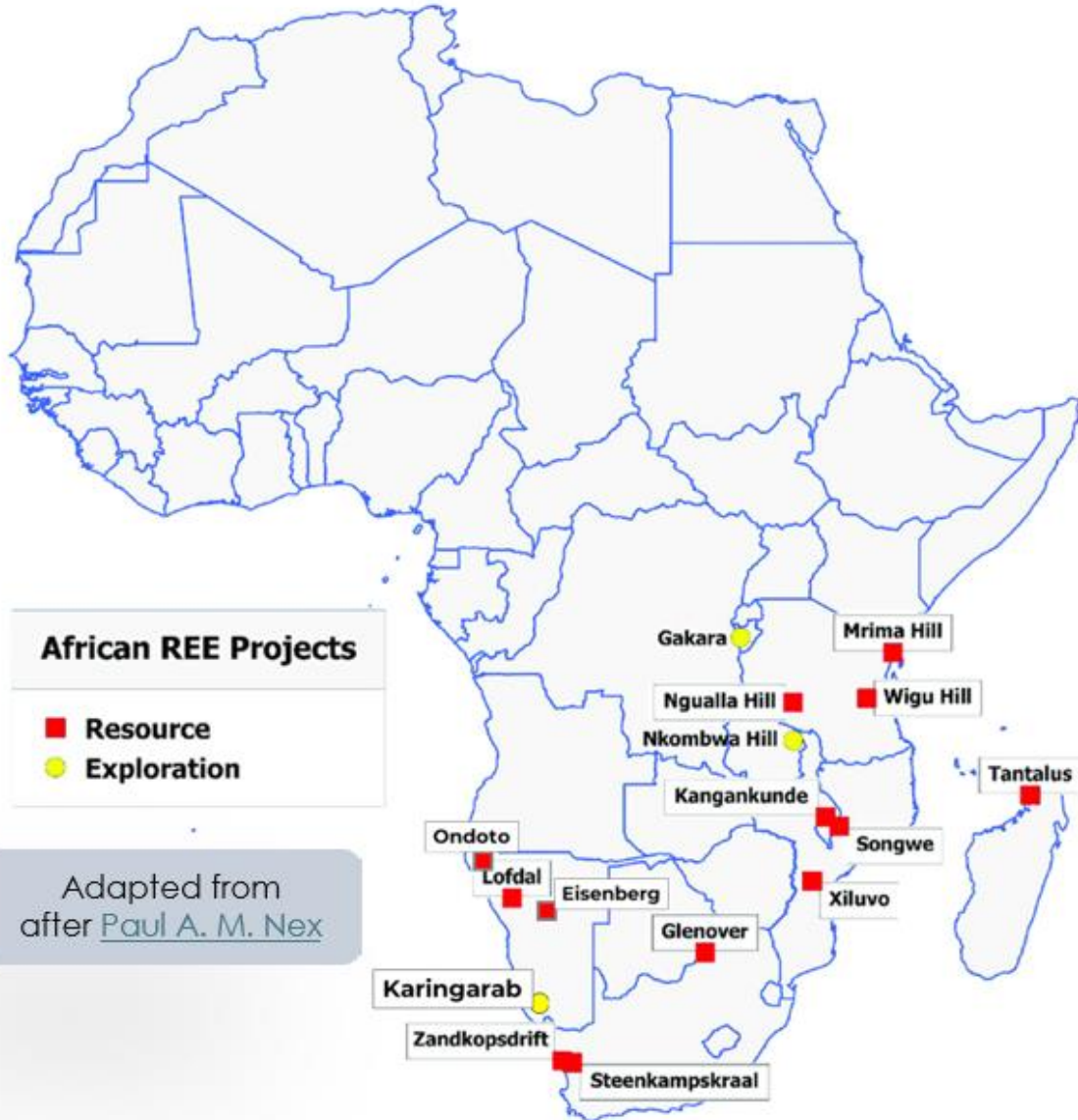
Imperative to set up beneficiation plant for critical minerals

TIME TO LEAPFROG



Rare Earth Projects in Southern Africa

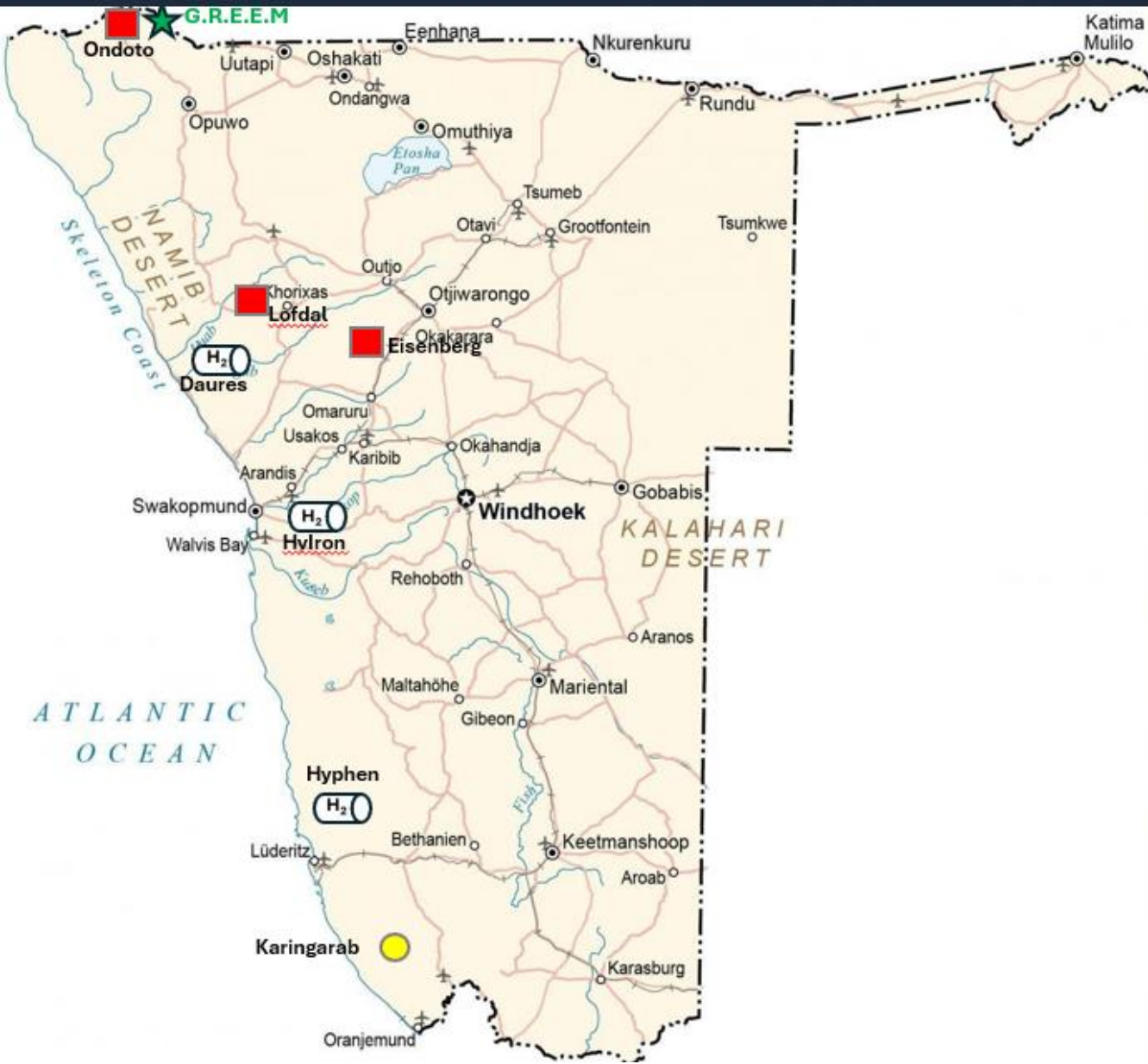
G.R.E.E.M
Low carbon Rare Earth Value Addition



G.R.E.E.M · UNIDO A2D Facility · Bogotá, April 2026

Rare Earth Projects in Namibia

G.R.E.E.M
Low carbon Rare Earth Value Addition



- G.R.E.E.M site located close to a water source, road network in the Kunene Region
- Kunene region is one the of least developed regions in Namibia, with a high proportion of marginalized indigenous communities.
- Ecosystem of Green hydrogen and PV power plants and REE earth deposit exist in the country

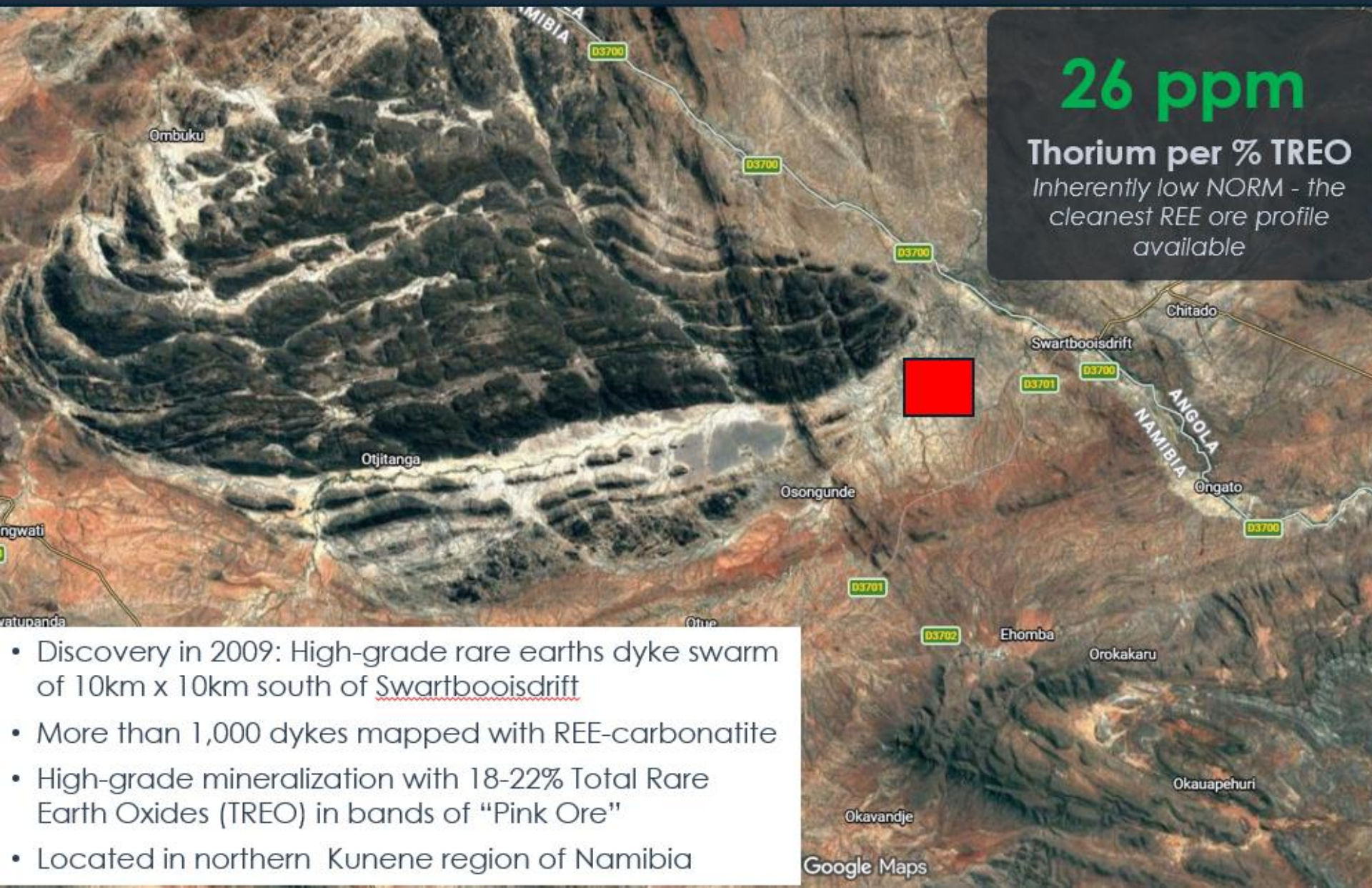
REE Deposits in Namibia

Deposit	Country	REE Type	Mineralogy	Resource/ Tonnage	Grade	Likely Processing/ Separation Route
<u>Ondoto (Gecko)</u>	Namibia	LREE	Bastnaesite + calcite (very low Th/U)	~32,800 t TREO	18-22% TREO in ore bands	Optical sorting → acid bake → solvent extraction → separated REOs
<u>Lofdal</u> (Namibia Critical Minerals-Japan Organisation Metals and Energy Security)	Namibia	HREE	Xenotime (Dy/Tb/Y- rich)	~44,000 t TREO	0.2-0.6% TREO	Acid bake (600°C) → impurity removal (MgCO ₃) → HREE carbonate precipitation (validated pilot plant)
<u>EUREKA</u> (E-treck)	Namibia	LREE	Monazite	~310,000 t TREO	1-3% TREO	Monazite cracking (acid or caustic) → leach → SX separation
<u>Karingarab</u> (Namdeb)	Namibia	LREE	Monazite ± bastnaesite; strong supergene enrichment	~181 Mt @ 1.9% TREE (~3.5 Mt REO)	~1.9% TREE	Monazite cracking → leach → SX; supergene zones may allow easier beneficiation
<u>Eisenberg</u> (Broadmind)	Namibia	LREE	Monazite- bearing carbonatite + hematite plug	Inferred resource (tonnage defined in NI)	1-3% TREO	Monazite cracking → leach → SX; hematite-rich zones may require pre-concentration
<u>Kieshöhe</u> (Kendick)	Namibia	Mixed LREE + HREE	Monazite + bastnaesite + multiple REE oxides (LREO + HREO suite)	No formal resource yet	Oxide <u>wt%</u> reported only	Standard monazite/bastnaesite flowsheet: cracking → leach → SX; potential for mixed LREE/HREE

The Opportunity: The Ondoto Rare Earth Deposit

G.R.E.E.M

Low carbon Rare Earth Value Addition



26 ppm

Thorium per % TREO

*Inherently low NORM - the
cleanest REE ore profile
available*

32,800 t

TREO resource

*JORC + internal estimates
across district*

18–22%

TREO grade

*"Pink Ore" - among the
highest-grade REE deposits
globally*

10+yr

Mine life

*2,000–2,500 t/yr TREO
production target; large
exploration upside*

- Discovery in 2009: High-grade rare earths dyke swarm of 10km x 10km south of Swartbooisdrift
- More than 1,000 dykes mapped with REE-carbonatite
- High-grade mineralization with 18-22% Total Rare Earth Oxides (TREO) in bands of "Pink Ore"
- Located in northern Kunene region of Namibia

Google Maps

The G.R.E.E.M Project: What We Are Demonstrating



**Off-Grid
Solar PV + BESS**
0.8–2 MWp + storage



Hydro-metallurgy
4-stage process
90% recovery



**NdPr Metal
/Alloy Product**



311 t

CO₂eq avoided/month
at full operation



USD 4.8M

UNIDO A2D grant + USD
1.2M co-funding

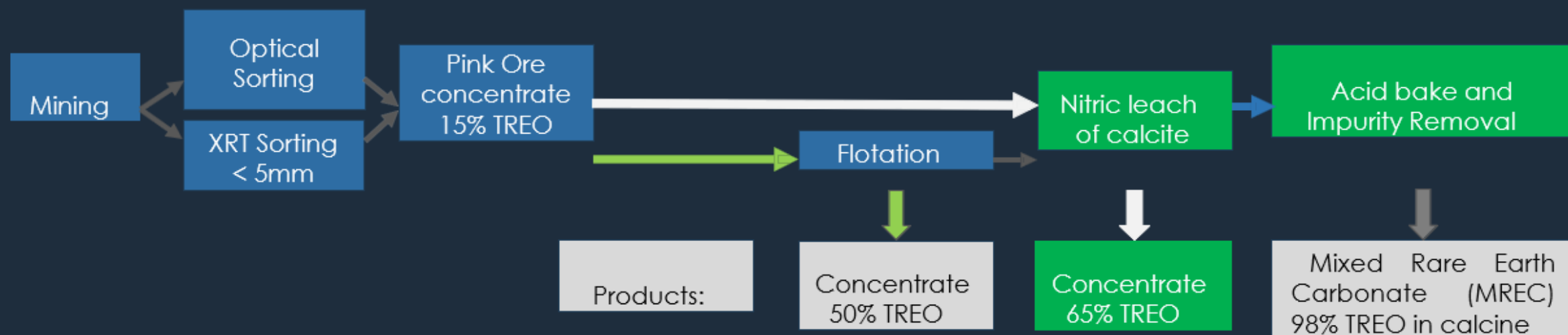


37 months

Dec 2025 – Dec 2028 · 3
phases



Metallurgy - Flow Sheet Options



Route	Final processing step	Recovery REE	Products	NPV sensitivity to higher REE price	Product shipment within (months)
Option 1	Direct Acid Bake + Impurity Removal	90%	MREC 98%	Very High	24 months
Option 2	Nitric leach + Acid Bake	90%	MREC 98% + Fertilizer	High	24 months
Option 3	Nitric leach	90%	Concentrate 65% TREO+ Fertilizer	Low	12 months
Option 4	Flotation (option through to acid bake)	70%	Concentrate 50% TREO	Low	9 months

SDG Impact: Beyond the Processing Plant

G.R.E.E.M
Low carbon Rare Earth Value Addition



13 CLIMATE ACTION



**Approx. 311 t CO₂eq
avoided / month**

- Fully off-grid: solar PV + BESS — zero grid dependency
- Metallurgy eliminates carbon from the processing process
- Modular design: 0.8–2 MWp initial → 2.74 MWp at full capacity
- Annual independent GHG verification (ISO 14064)

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



**First green REE
processor in SSA**

- First demonstration of this integrated model in sub-Saharan Africa
- Diversifies global NdPr supply chain from single-country dependency
- TRL 6–7 → 9: advances commercial readiness for the entire sector
- Modular blueprint replicable across 7+ known Ondoto ore bodies

1 NO POVERTY



5 GENDER EQUALITY



**50% female
training target**

- Dedicated vocational training programmes
- Partnership with the Namibia University of Science & Technology (NUST)
- Targeted recruitment of women from disadvantaged communities
- GESI Transformative (Level 4) commitment throughout
- Community Development AG.R.E.E.Ment before construction begins

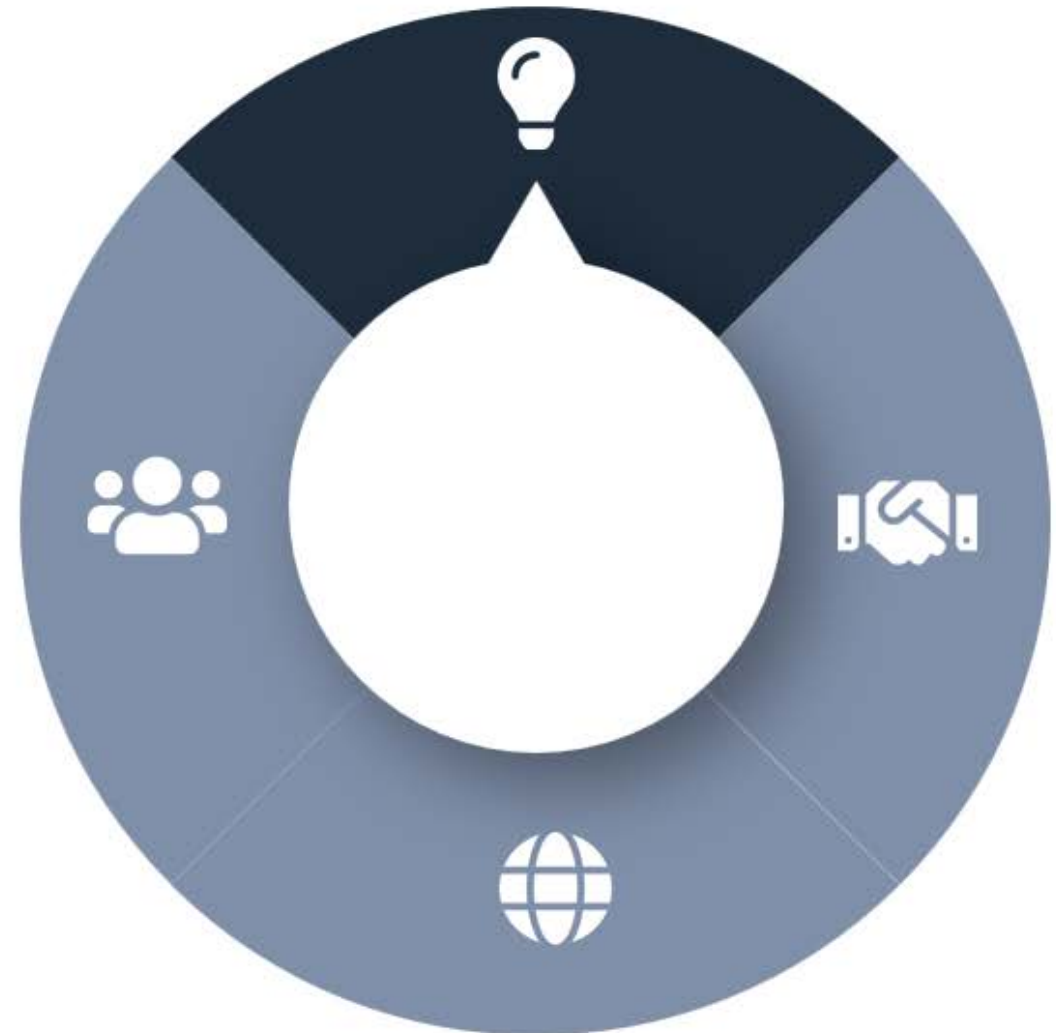
7 ore bodies identified

Only 2 drilled to JORC standard. The resource base alone justifies scale-up. Large exploration upside across the country.

Commercial blueprint for the sector

Global market access

Knowledge and capacity transfer



Replication and the Lighthouse Effect

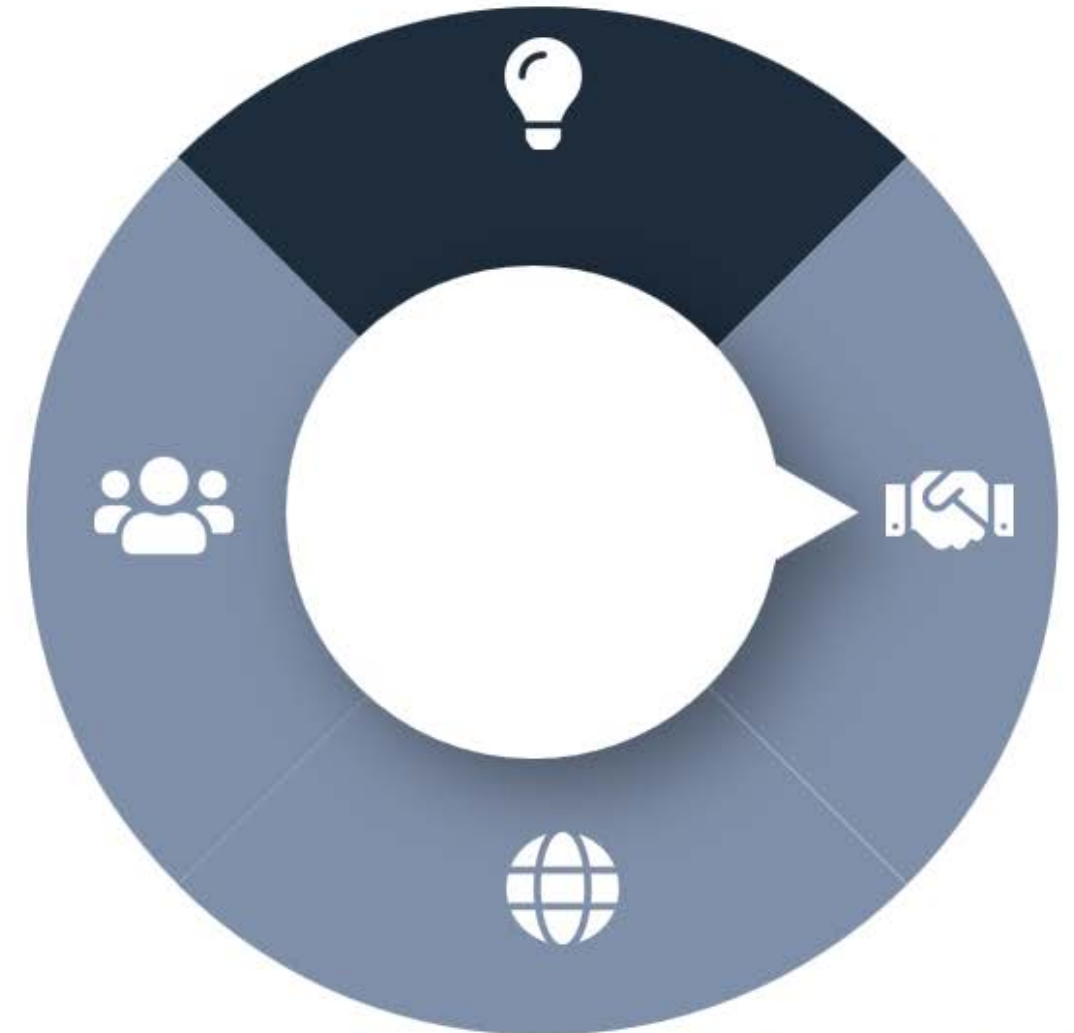
7 ore bodies identified

Commercial blueprint for the sector

Demonstrating bankable economics lowers the WACC for similar projects and attracts private investment into ex-China REE supply chains.

Global market access

Knowledge and capacity transfer



Replication and the Lighthouse Effect

7 ore bodies identified

Commercial blueprint for the sector

Global market access

EU, Japan and US off-takers actively seeking non-Chinese NdPr supply. G.R.E.E.M is designed from day one to serve these markets.

Knowledge and capacity transfer



Replication and the Lighthouse Effect

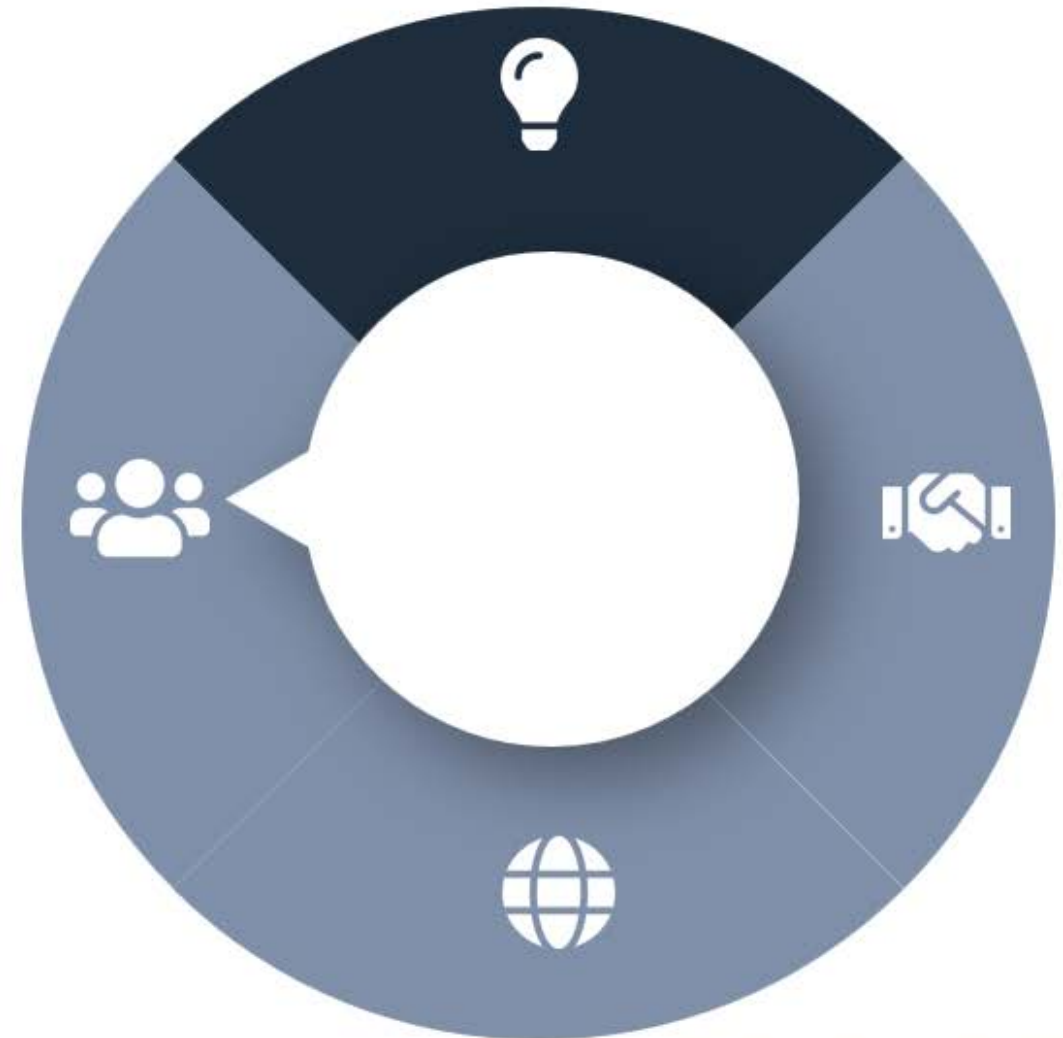
7 ore bodies identified

Commercial blueprint for the sector

Global market access

Knowledge and capacity transfer

9 site visits/year from Year 3; 2 knowledge products published; dedicated training programme - building the local workforce for replication.



G.R.E.E.M

Green Rare Earths & Minerals

Low carbon Rare Earth Value Addition



Africa has the ore. Namibia has the policy framework. G.R.E.E.M provides the demonstration.

- *A2D Facility funding is the de-risking instrument that makes the first demonstration investable.*
- *The blueprint is designed for replication.*
- *The invitation is open.*

Vetumbuavi Mungunda | Simon Hengua | Elisabeth Amadhila

www.ombucapital.co.na



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Supported by the UNIDO Accelerate-to-Demonstrate
(A2D) Facility, funded by the UK Government



UK Government



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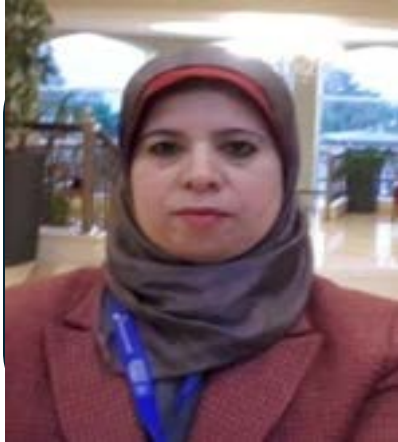


Partners:



UK Government

2- Panel Discussion



Moderator:

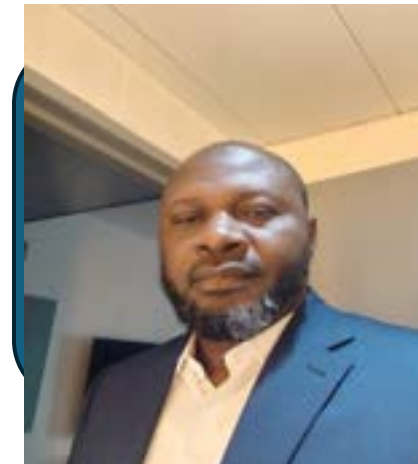
Ms. Ghada Ahmed,
Project Coordinator,
Critical Minerals, A2D
Facility, UNIDO



Ellin Victoria,
Executive Director of
the Jakarta Office, QMB
New Energy Materials
in Indonesia



**Mr. Diego
Quintero,** CEO -
Founder | ReSolar
LATAM, Colombia



**Mr. Abdoul Aziz
IDRISSA,** Senior
Mining Engineer,
Ministry on Mining

Thank you



Please do scan the QR Code and
fill up the feedback form



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Partners:



UK Government

Accelerate-to-Demonstrate (A2D) Facility Annual Event

Critical Minerals Workshop: Theory of Change - Leveraging Critical Minerals for Meeting the Sustainable Development Goals

Wednesday, April 15th, 11:15 am– 12:30pm



Critical Minerals Workshop – Advancing SDGs through Theory of Change

Objective:

Identify the pathways that show how demonstration projects supported by the A2D Facility /critical minerals value chains can drive sustainable Development Goal, and to learn from each other's experiences using a theory-of-change approach.

Step 1: Participants are grouped by SDGs (1, 9 and 13), work in three groups, each focusing on one SDG

Table 1: **SDG 1 – No Poverty**

Table 2: **SDG 9 – Industry, Innovation and Infrastructure**

Table 3: **SDG 13 – Climate Action**

Step 2: Each group is provided “**SDG Assessment Form – Theory of Change**” (40 minutes)

The Task: Groups must populate the form using a **Theory of Change** approach to understand:

- **The inputs needed:** enabling conditions
- **The activities that demonstration projects can implement:**
- **The outputs they generate:** trained workforce, improved processing efficiency, new partnerships,
- **The outcomes and impacts that contribute to the SDGs:** How could these outputs translate into measurable contributions to SDG 1, 9, or 13? What are the short- and long-term impacts?

Thank you



Please do scan the QR Code and
fill up the feedback form



Creating **clean heat**
and power with biomass
residues to future-proof your
cuppa

A2D Bogota – April 2026

Compact Syngas Solutions



The MicroHub



Power, heat
and hydrogen



Low Carbon



24/7



Waste/Biomass
feedstock



Modular

The Problem



High emissions driven by fertiliser use, diesel backup power and fuelwood reliance



Volatile energy and fertiliser costs eroding margins and constraining reinvestment



Degraded soils, climate volatility, market oversupply and an ageing farming workforce



The Solution: MicroHub Clean Heat & Power for the Agriculture Sector



The CSS MicroHub converts agricultural residues into 24/7 clean heat and power, providing essential energy infrastructure for tea factories and agri-processor with permanent carbon capture and soil improvement.

MicroHub:

- Replaces grid instability and diesel back-up generation
- Delivers continuous thermal energy for withering, drying and hot water
- Converts residues into biochar, enabling permanent carbon capture and soil improvement

Designed for agriculture in emerging markets:

- Uses local residues (tea prunings, bamboo, eucalyptus)
- Operates independently of unreliable grids and supports other intermitted renewal technologies such as solar and hydro to provide 24/7 base load requirements
- Modular and scalable for plantation and factory deployment

Results:

- Lower and more stable energy costs
- Reduced emissions and fuelwood dependence
- Improved soil health and climate resilience
- **Anchored by an operating demonstrator under UNIDO's A2D Facility.**

Accelerate-to-Demonstrate (A2D) Project



Funded by:



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Step 1: Demonstrate

**Deploy a first-of-its-kind
'lighthouse' MicroHub
plant**

- Build, install and commission system
- Operate in a live tea processing environment
- Validate technical performance and reliability

Step 2: Scale

**Replicate the model across tea
and agro-processing sectors**

- Roll out commercially across tea plantations in Kenya
- Expand into wider agri-processing industries
- Enable scalable, low-carbon energy deployment across Africa

Duration: 3 years



Supivaa
Advisory Group Ltd

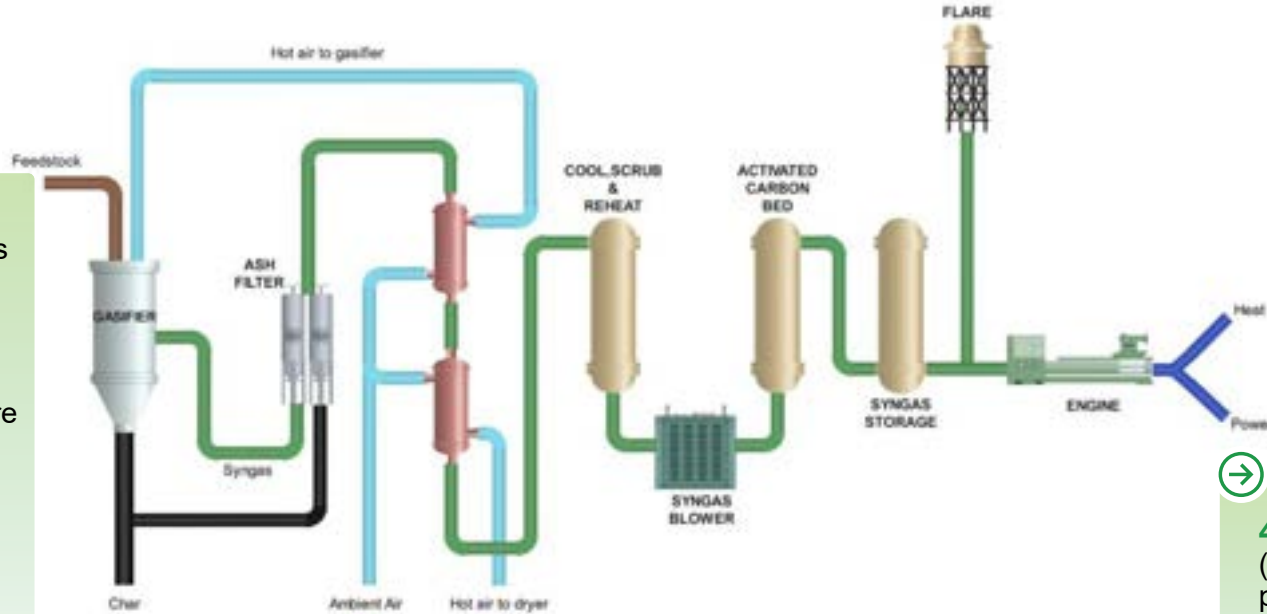


MicroHub – Inputs & Outputs



3,732 tonnes feedstock
(540 kg per hour)

15% moisture content



- **560 tonnes** biochar
- **1,414 tonnes** of CO2 sequestered

Up to
600kWth of
heat

30m³ **95°C**
water



480 kWh power
(430-450 kWh post-
parasitic load)

Consistent output to
displace grid and
diesel generation and
support intermittent
solar and hydro
generation

MicroHub – Feedstock



Tea prunings



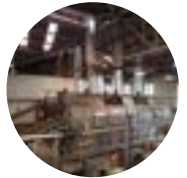
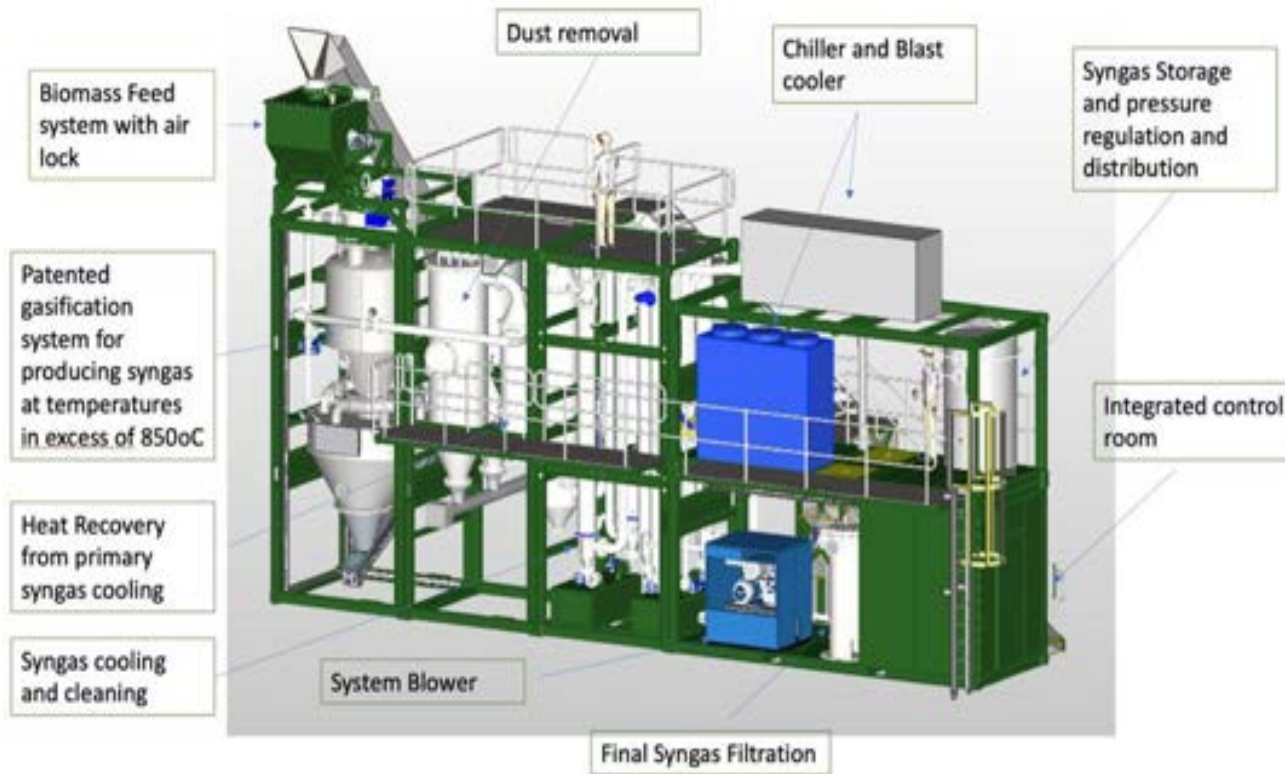
Tea prunings



Bamboo chips



Eucalyptus chips



Power & heat (partial boiler displacement) for tea processing



Biochar, a structural soil amendment



MicroHub – App



Apple Store App
QR Code



A2D 2025-28 Outputs & Impact



Remove 1,400+ tCO₂ every year through biochar sequestration

Reduce fertiliser-related emissions and input intensity

Utilise agricultural residues currently underused or burned

Displace high-emission energy (diesel, grid losses, incineration)



Lower energy costs by displacing grid power, diesel and boilers

Improve margins via higher yields, fertiliser efficiency and tea quality (biochar)

Carbon revenues & risk mitigation through verified removals and abatement



8–10 skilled jobs per plant (target 50% women) plus fabrication & after-sales

Local biomass supply-chain employment

Climate and environmental monitoring aligned to international standards

Contact Details

Paul Willacy
CEO
Compact Syngas Solutions
00441244 529 589
paul@syngas-solutions.co.uk
www.syngas-solutions.co.uk



QR Codes

www.greener-tea.africa



Greener Tea – Apple App



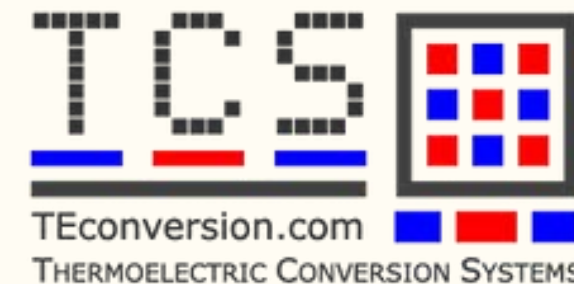
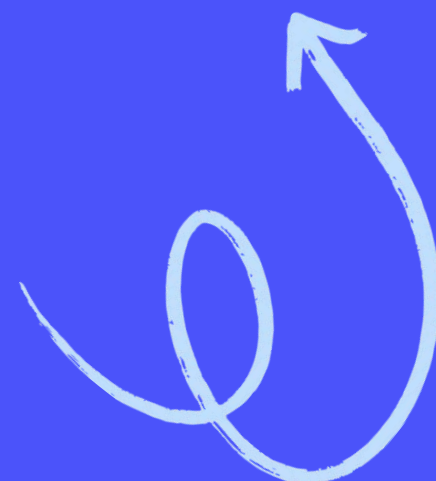
Greener Tea – Google App



Coal Zero by Green Steam

Presented by:

João Gomes, MG Sustainable Engineering (Sweden)



ABSOLICON

BR

BROADREACH
ENERGY





Dr. Jonathan Siviter
Director - Thermoelectric Conversion Systems, UK
Project Coordinator



Dr. Georgiana Maries
Founder - MG Sustainable Engineering, Sweden
Lead PM – Technical Coordination



David Volkwyn
Co-Founder Greenline Africa, South Africa
Technical Sales & Marketing Director
Project Developer



Dr. João Gomes
Founder - MG Sustainable Engineering, Sweden
Board - Absolicon Solar Collectors AB
Lead PM – Technical Coordination



The Project

Challenges & Opportunities at Rhodes Food Group

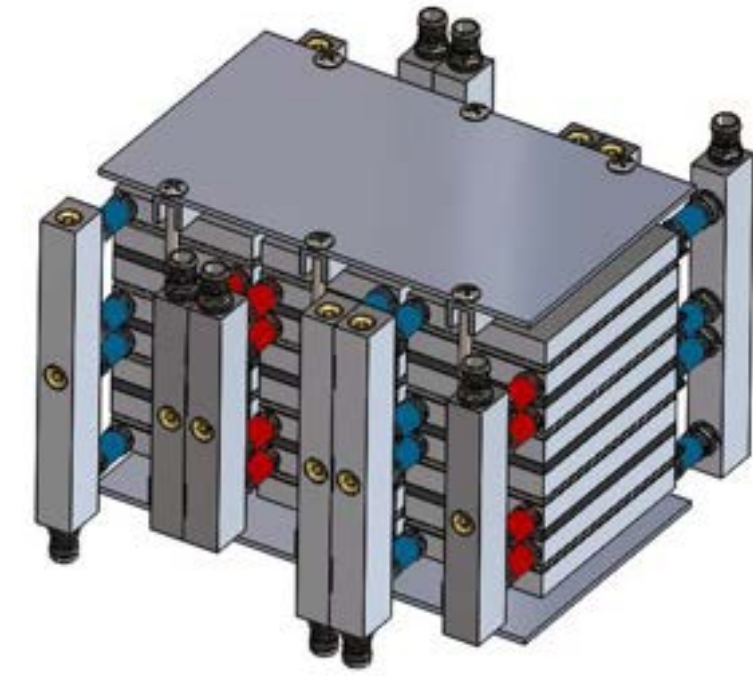
Utilising coal-based steam for core processing presents a high thermal demand throughout the year.

The plant faces sustainability pressures from export markets and rising energy costs.

There is an opportunity to implement a hybrid solar retrofit within the existing plant infrastructure.



An Integrated Clean Steam Solution for Rhodes Food Group



- Solar thermal integrated within plant footprint
- Thermal storage for operational stability
- Mechanical Vapour Compression for temperature lift to 178C
- SCADA-linked to existing steam systems
- Continuous, production-aligned clean steam



Structured Delivery Roadmap

Design Finalisation



This phase involves completing the **detailed designs** and ensuring all technical specifications meet **industry standards**, setting the groundwork for subsequent project steps and stakeholder approvals.

Equipment Delivery



In this milestone, all necessary equipment will be **procured and delivered to the site**, ensuring that logistics are streamlined for the next phases of installation and integration.

Mechanical & Electrical Integration



This phase encompasses the physical assembly of systems, electrical systems will be connected, enabling the integration of controls for monitoring.

Commissioning, Stakeholder Engagement



Following mechanical and electrical completion, this phase focuses on commissioning under live production, verifying performance and carbon impact, engaging stakeholders, and activating exploitation pathways for replication.

Responsible Delivery at



Commitment to Inclusion and Compliance

Multidisciplinary Team

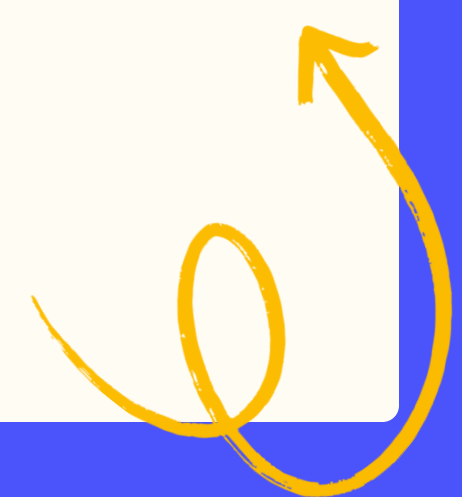
Our project boasts a **diverse team** of experts from various disciplines, ensuring comprehensive problem-solving and innovation tailored for South Africa's unique industrial landscape.

Local Partners

Collaboration with **local implementation partners** strengthens our approach, fostering community engagement and enriching project outcomes through regional insights and resources for effective execution.

Gender Tracking

We are committed to **gender participation tracking**, promoting inclusion and ensuring equal opportunities for all individuals involved in the project's development and execution.



Rhodes Food Group as Lighthouse Facility



Plant-level steam
metering



GHG Protocol carbon
accounting



Quarterly LCOH
verification



SCADA performance
repository

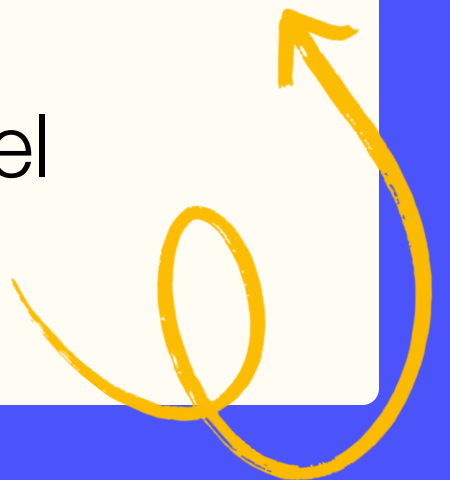
Lighthouse Role

Industry site visits

Technical briefings

Sector roundtables

Replication reference model



Scaling Pathway



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BROADREACH
ENERGY



GREENLINE AFRICA
SUSTAINABLE ENERGY SOLUTIONS



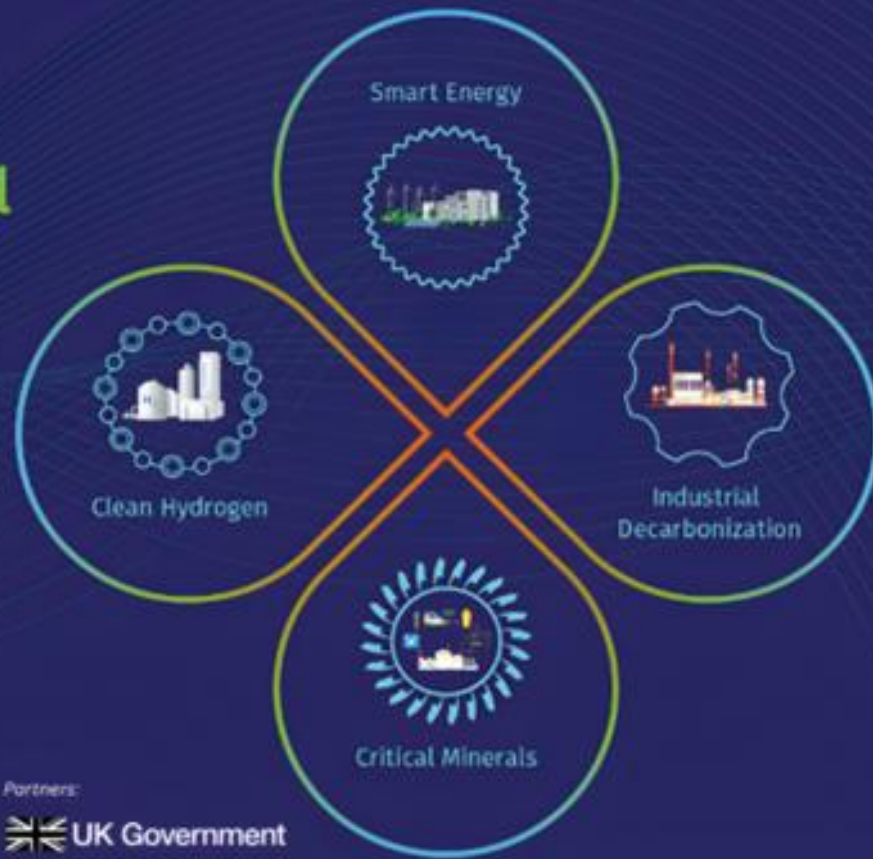
Scalable solutions for a cleaner future



**Scaling Innovative
Solutions for
Sustainable Industrial
Development
A2D Facility Annual
Event 2026**

13-16 April 2026, Bogotá Colombia

#A2DFacilityAnnualEvent2026
#AcceleratingClimateInnovation



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Partners:



Thank you for your time



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Driving net zero transformation for green industrialization

Energy Systems and Industrial Decarbonization Unit
Energy and Climate Action Division
UNIDO



INDUSTRIAL DECARBONIZATION for SUSTAINABLE FUTURE

INDUSTRIAL EMISSIONS
account for
30%
of CO2 emissions¹

HIGH-EMITTING SECTORS
represent
70%
of this total²

For 1.5°C, industrial
emissions must be **CUT** by
95%
by 2050³

Renewables & energy efficiency
improvements will continue to be
necessary, but not sufficient.

**Net zero by 2050 will
require all technologies
and all fuels approach.**

60%
of the **cement sector** emissions
reductions will likely come from
CCUS.³

55%
of the **steel sector** emissions reductions
will come from **electrification & H₂
based DRI**.³



70% of
global CO2 emissions comes from
cities, with **transport & buildings**
among the largest contributors.⁴

**75% of
GLOBAL URBAN
INFRASTRUCTURE
for 2050 is yet to be built.**

¹ Including indirect emissions from electricity use, UNIDO, 2025 ² Achieving Net Zero Heavy Industry Sectors in G7 Members, IEA, 2022

³ Net Zero by 2050 A Roadmap for the Global Energy Sector, IEA, 2021 ⁴ IPCC, 2022



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STRATEGIC PARTNERSHIPS

Partnerships are vital in addressing global challenges

A photograph showing a long row of national flags on tall poles, with a classical building in the background.

GOVERNMENTS AND REGIONAL AND
LOCAL AUTHORITIES

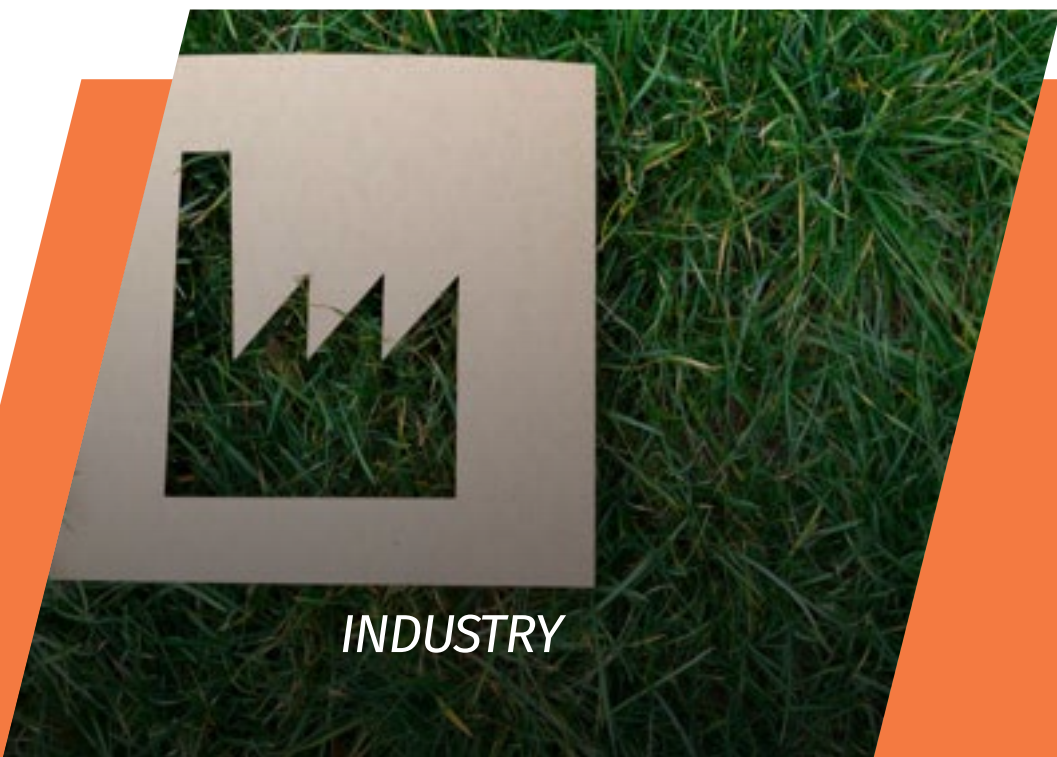
A photograph of several colorful balls (blue, green, red, purple) with arrows pointing in various directions, symbolizing movement or interaction.

CIVIL SOCIETY

A photograph of a grand classical building with many columns, likely a university or research institution.

ACADEMIA AND
RESEARCH INSTITUTIONS

We build strategic alliances to accelerate clean energy solutions, mitigate climate change, and foster inclusive and sustainable industrial development.

A photograph of a white cardboard cutout of a factory with three smokestacks, placed on a green lawn.

INDUSTRY

A photograph of several hands of different people holding a small green seedling with soil, symbolizing growth and partnership.

PRIVATE SECTOR



CHARTING PATHWAYS FOR NET ZERO INDUSTRIAL DEVELOPMENT

STRATEGIC INTERVENTIONS

STRATEGIC FRAMEWORKS

roadmaps, action plans, strategic guidance and monitoring, reporting and verification frameworks



ENERGY MANAGEMENT

ISO 50001 energy management systems and industrial energy systems optimization



SUPPORTING AFFORDABLE AND LOW-CARBON INFRASTRUCTURE

for more resilient, sustainable rural and urban systems



FACILITATING TECHNOLOGY DEPLOYMENT

through energy efficiency, renewable energies and breakthrough technologies



FOSTERING GLOBAL STANDARDS

for harmonization of carbon accounting methodologies and standards



DEVELOPING LEAD MARKETS AND CREATING DEMAND

for low-carbon industrial products such as steel and cement





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OUR CHAIN OF SUPPORT

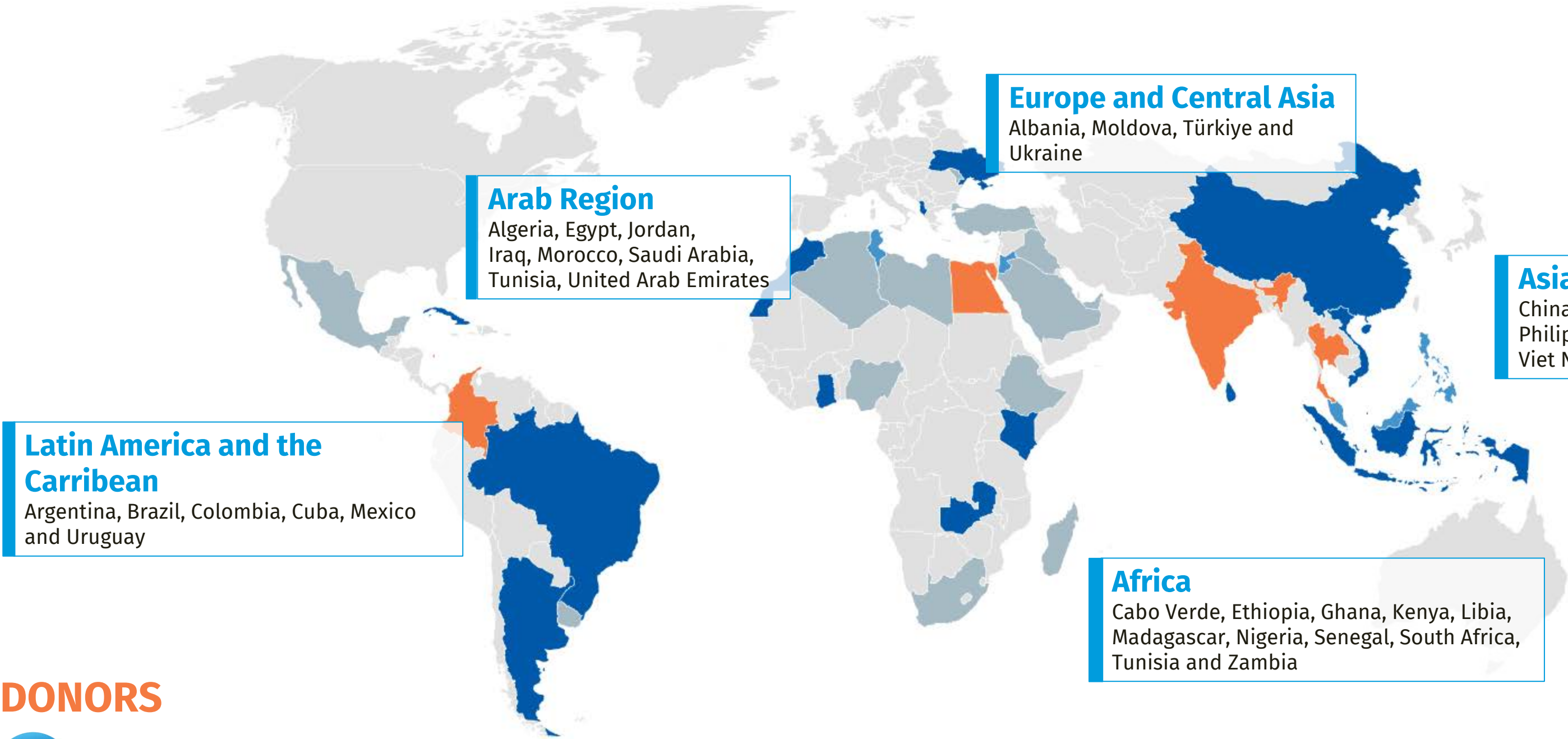
TO ACCELERATE ACTIONS FOR INDUSTRIAL DECARBONIZATION





WHERE WE WORK

- Industrial decarbonization
- Urban decarbonization
- Urban + industrial decarbonization
- Project pipeline



Global Programmes
Global Matchmaking Platform for Industrial Decarbonization (GMP), Industrial Deep Decarbonization Initiative (IDDI), Net Zero Net Zero Partnership for Industrial Decarbonization (NZP-ID), Global Energy Districts Programme

DONORS





ADVANCING GREEN INDUSTRIALIZATION

Belém Declaration on Global Green Industrialization

The Declaration was launched on 14 November 2025 at COP30 by the Government of Brazil, with support from UNIDO. It has 48 listed supporters, including 18 governments.

The 19 supporting governments are: Australia, Brazil, Egypt, Germany, Ghana, Kenya, Indonesia, Japan, Korea (Republic of), Mexico, Namibia, Nigeria, South Africa, Spain, Sweden, Türkiye, Tuvalu, the UAE, and the UK.

Key Focus Areas

- The Declaration seeks to advance global cooperation on green industrialization (understood to mean cleantech development, industrial decarbonization, and green industrial growth strategies) in promotion of **development**, **climate**, and **energy security** objectives. The full declaration can be [read here](#).
- Brazil, UNIDO, and other partners are **working to translate the Declaration into concrete action**. The first meeting of Declaration supporters was held on 8 April 2026 in Vienna.
- Supporters are now working towards the launch of a **Global Green Industrialization Agenda (GGIA)** and Mechanism, to be launched at COP31. The GGIA will work to advance opportunities for countries to foster green industrialization.
- We welcome more African countries signing as supporters of the Belém Declaration and working together to ensure the GGIA effectively supports Africa's development objectives.



The Belém Declaration on Global Green Industrialization

Supporters as of 7 April 2026



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GREEN PUBLIC PROCUREMENT

Industrial Deep Decarbonization Initiative (IDDI)

A coalition of governments from developed and developing countries working with the private sector to **decarbonize heavy industries** starting with steel, cement and concrete, established by the Clean Energy Ministerial and UNIDO.

KEY SERVICE AREAS:

- Establishing an approach for collecting interoperable data to report on the procurement of **low- and near-zero-emission materials**
- Promote interoperability of standards and definitions for low- and near-zero emission products
- Setting commitments and best practices for the public procurement of these materials

The IDDI has developed a **Green Public Procurement (GPP) Pledge** and supporting guidance to assist governments in driving ambition on green public procurement policy. It is open to new members.

Current members: Brazil, Canada, Germany, India (co-lead), Japan, Saudi Arabia, the United Arab Emirates, the United Kingdom (co-lead) and the United States.

The IDDI also brings together a coalition of over **70 related initiatives and organizations**, including:



<https://www.industrialenergyaccelerator.org/areas-of-work/the-industrial-deep-decarbonisation-initiative//>





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NEW APPROACHES TO EXTENDING SUPPORT

Industry Decarbonization Hubs

Creating an enabling framework for **policy development, knowledge sharing, and project preparation**

Pillars:

- **Institutional frameworks:** developing a coordinated portfolio of strategies, policies, incentives and regulatory frameworks to build Brazil's institutional capacities
- **Project preparation and delivery:** mobilizing private investment and concessional finance at scale to build a coherent and relevant pipeline of projects
- **Research and innovation:** reinforcing Brazil's green industrial research and innovation ecosystem with international partnerships and technical cooperation programmes

Current country focus: Brazil, Mexico and South Africa

Donor:

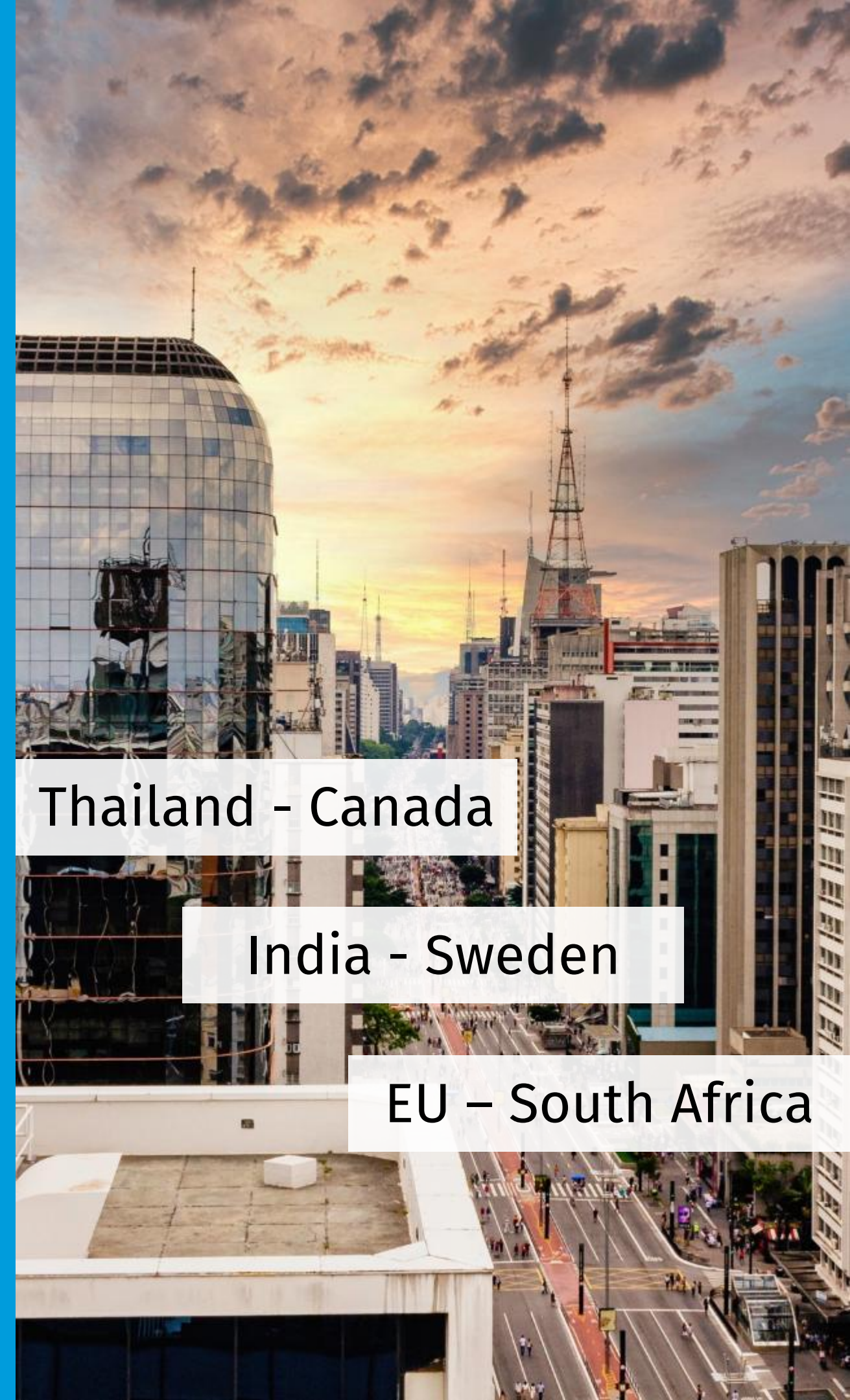


Department for
Energy Security
& Net Zero

Thailand - Canada

India - Sweden

EU – South Africa





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In-country deep dive

Decarbonization of the cement and concrete sectors in Thailand

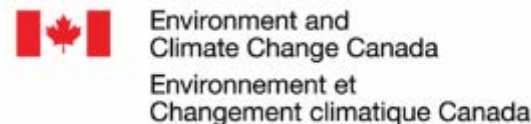
Provides innovative solutions for effectively greening industries driving the business case for industrial decarbonization

KEY SERVICE AREAS:

- **Technical assistance and investment support** to help develop conducive policy and regulatory framework and a country-driven national and industrial net-zero roadmap
- Low-carbon technology development **entrepreneur support**
- Enhanced regional **knowledge and experience sharing**

Key partners: Department of Industrial Works; Department of Climate Change and Environment; Comptroller General's Department; Pollution Control Department; Office of the National Economic and Social Development Council; Thai Cement Manufacturers Association

Donor:



Key partners:





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NET ZERO
PARTNERSHIP

Net Zero Partnership for Industrial Decarbonization (NZP-ID)

Objective: Provide customized support to emerging markets and developing economies with decarbonizing heavy emitting industries to reach net zero by 2050

Focus on heavy industry: Iron & steel, cement & concrete

GLOBAL Programme:

1. Planning & Policy Support

2. Technology Collaboration & Pipeline Development

3. Partnerships & Knowledge Sharing

Its **NDC 3.0 Support Package** helps countries **unlock more ambitions and actionable climate plans**, attract investors and create new job and business opportunities.

Donors



Countries

Climate Club members

Pipeline development

MENA countries cement sector

Donor:



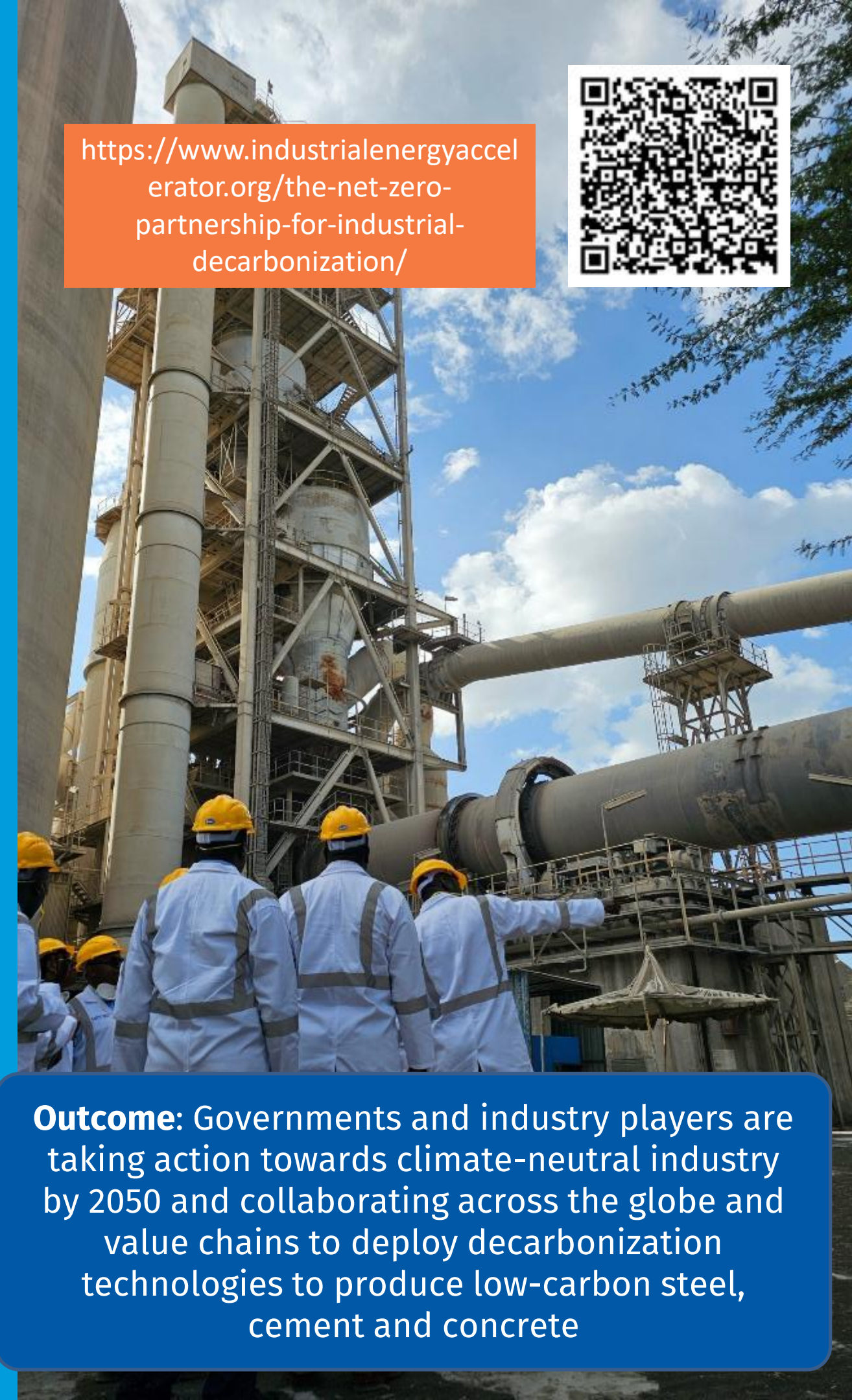
Key partner:



<https://www.industrialenergyaccelerator.org/the-net-zero-partnership-for-industrial-decarbonization/>



Outcome: Governments and industry players are taking action towards climate-neutral industry by 2050 and collaborating across the globe and value chains to deploy decarbonization technologies to produce low-carbon steel, cement and concrete





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PPG Phase

Global Decarbonization Investment Accelerator (GDIA)

Supporting industrial decarbonization implementation from **GIS asset-level data** and required financial architecture to generate coherent industrial decarbonization **investment plans**.

Two main components:

- 1) Standardized methodologies via a digital data monitoring & modelling tool: asset-level data modelling, technology foresight assessment, supporting policy assessment, and enabling financial architecture assessment
- 2) Application of these methodologies end-to-end in two pilot countries (Colombia and Kenya) to build sector-wide cement decarbonization investment pipelines & additional on-demand support via the CIF supported Just-in-Time Country Support Facility

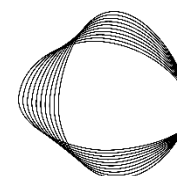
GDIA Synergies: GDIA builds on NZP & GMP work and builds the asset-level evidence base and financial architecture required to make industrial decarbonization investable

GDIA Scalability: Expansion under GEF-9 in (1) sectoral dimension including steel, fertilizer production and alternative fuels, and (2) vast country scale-up via GEF-9 Child projects

Donor:



Key partners:

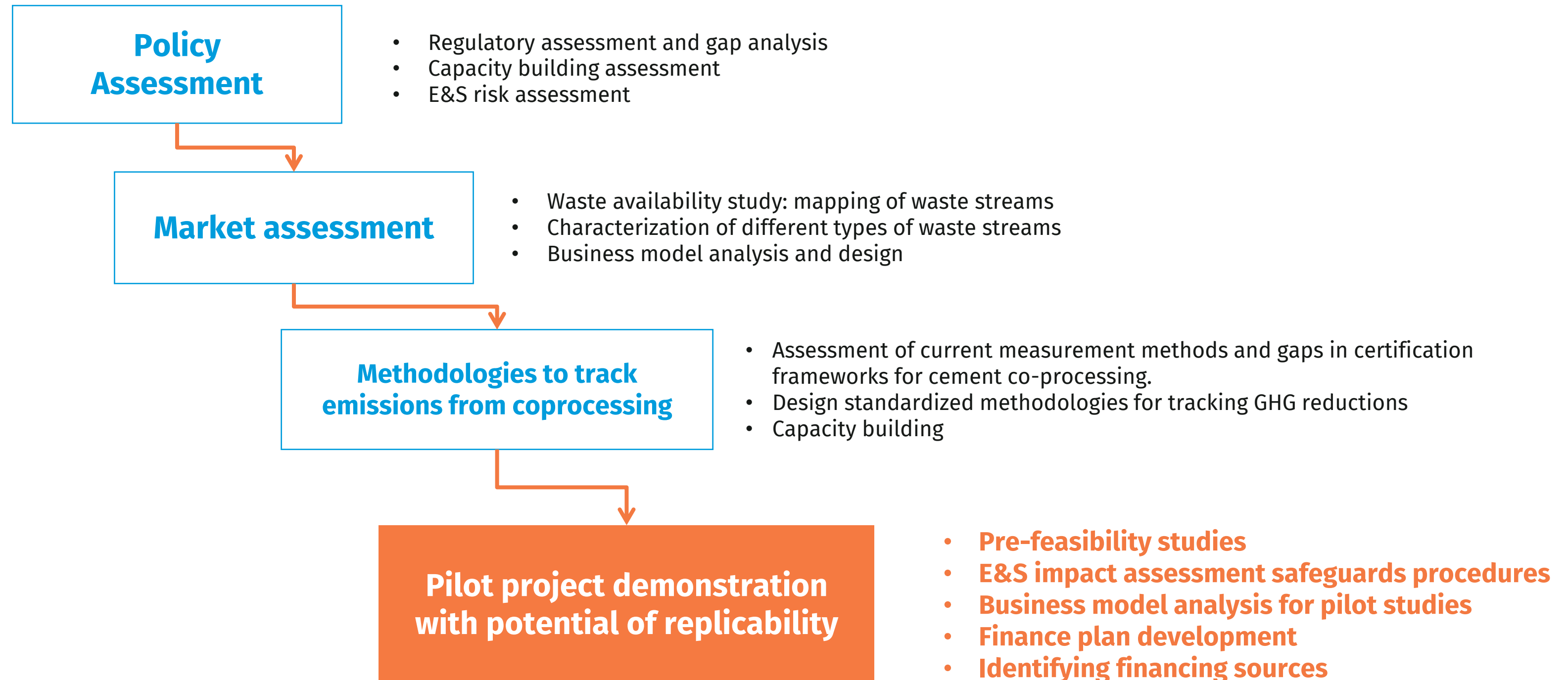


CLIMATE
TRACE



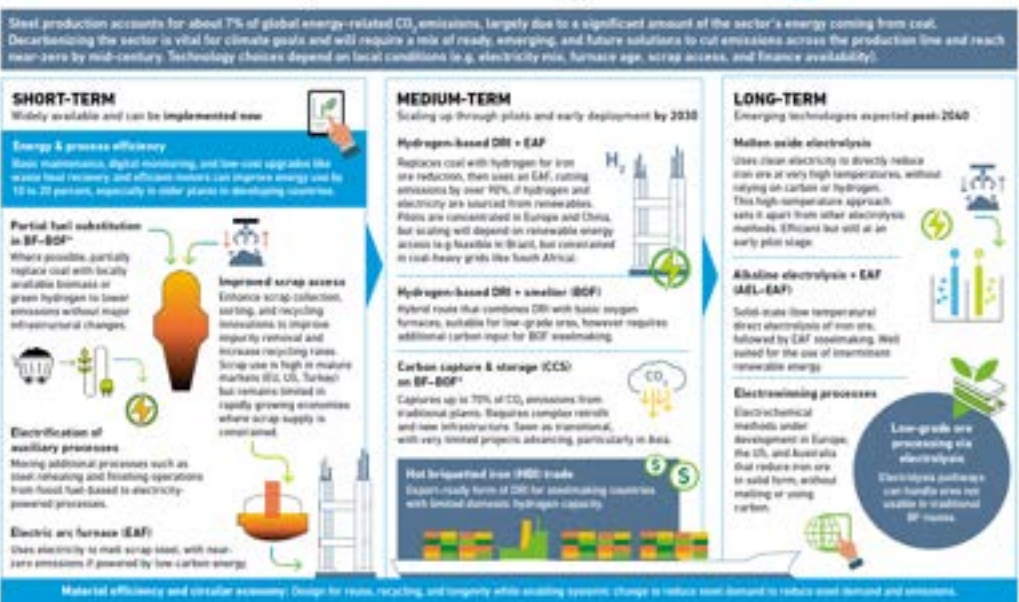
In-country deep dive: Colombia

Support the development of a business model for waste-derived cement plants, secure stakeholder buy-in, and design demonstration projects at the cement plant level





A Timeline of Technologies for Decarbonizing Steel



Why countries should integrate industries into their NDCs



NET ZERO PARTNERSHIP

Strengthening Institutional Mechanisms for NDC Design, Implementation and Tracking

DO'S AND DON'TS

NET ZERO PARTNERSHIP

Setting More Ambitious Industry-specific Targets in your NDC

A QUICK GUIDE

EXPLAINER

Decoding Industrial Decarbonization
Iron and Steel: What is the State of Decarbonization Technologies?

- Steel production emits around 2.6 billion tonnes of CO₂ each year, mostly from coal-based blast furnaces. These continue to dominate global steelmaking.¹
- Several technologies can already help reduce emissions or are developing quickly. These include hydrogen-based direct reduced iron (H₂-DRI), electric arc furnaces powered by renewables, and carbon capture. However, these rely on access to clean electricity, affordable green hydrogen, the right infrastructure, and finance.²
- Around 70 percent of coal-fired blast furnaces are expected to require reinvestment by 2030. This is a critical window to shift to low-emission production and avoid locking in high-carbon infrastructure.
- Emerging markets and developing economies (EMDEs) will lead future steel demand. Supporting their transition to low-carbon technologies and circular approaches is vital for meeting global climate goals.
- Rapidly growing markets such as India and Southeast Asia are expected to double or triple production within a decade, much of it currently coal-based. Without stronger incentives and technology transfer, these new plants risk locking in emissions.
- While long-term technologies like electrolysis are still evolving, immediate solutions—such as improving material efficiency, increasing scrap recycling, and partially switching fuels—can already reduce emissions and bring economic benefits.



TEC BRIEF

Integrating hard-to-abate industries in the process of preparing and implementing NDCs

NDC 3.0 Guidebook for Industrial Decarbonization

VOLUME 2
JUNE 2025





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Get in touch

Follow our activities through our **social media** channels and **get in touch via email** for more information and collaboration opportunities!



[**h.salamancadejour@unido.org**](mailto:h.salamancadejour@unido.org)

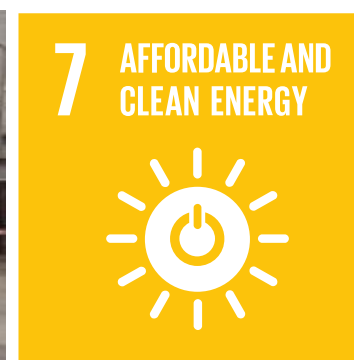


[**UNIDO Industrial Decarbonization**](#)



[**www.industrialenergyaccelerator.org/**](http://www.industrialenergyaccelerator.org/)

Thank you!





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Embajada de Suiza en Colombia
Cooperación Económica y Desarrollo (SECO)



OBJETIVOS
DE DESARROLLO
SOSTENIBLE

Industrial Decarbonization through Eco-Industrial Parks

Juan David Salazar Espitia – LAC Technical Coordinator GEIPP



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Did you know that the Eco-Industrial Park model in Colombia has achieved a reduction of +19,000 tCO₂ per year through +13 million USD in sustainable investments?





Key components:

1. Defined area
2. Lead management
3. Cooperation
4. Continuous improvement (Environmental, Social, Economic)

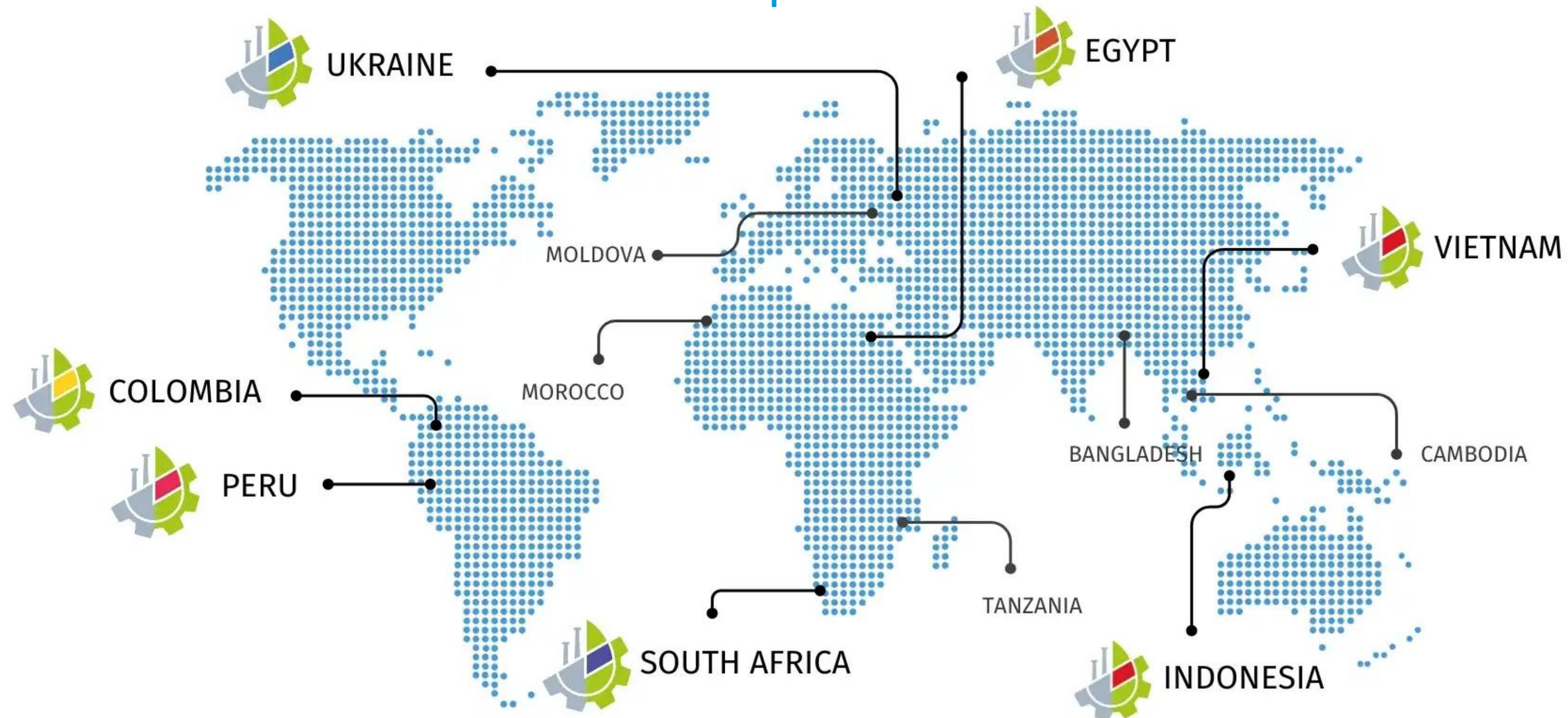
**Industrial
park (IP)**

**Eco-Industrial
Park (EIP)**

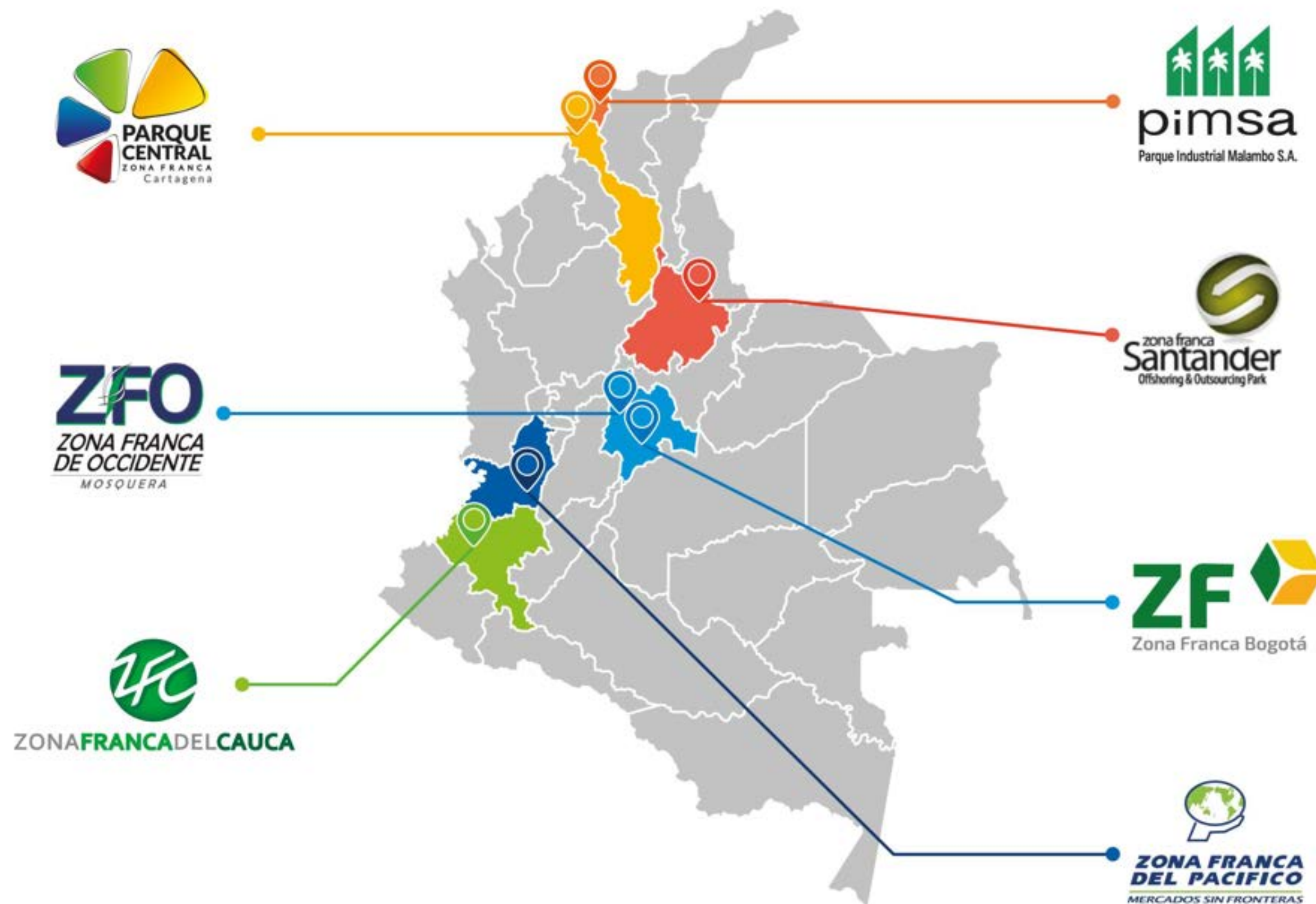
*Beyond environmental
impact: driving economic
performance.*

Global Eco-Industrial Park Programme - GEIPP

Objective: To demonstrate the viability and benefits of the EIP model to increase resource productivity and improve the economic, environmental and social performance of Ips and tenant companies



GEIPP Colombia – Prioritized parks



Phase 1: 2020 - 2023

Phase 2: 2024 – 2028

GEIPP supports EIP transition to 7 IPs in Colombia, through:

- Technical assistance and advisory
- Prefeasibility and feasibility studies
- RECP assessments in companies
- Capacity building
- Information monitoring

How to transition to EIP?

International Framework for Eco-Industrial Parks



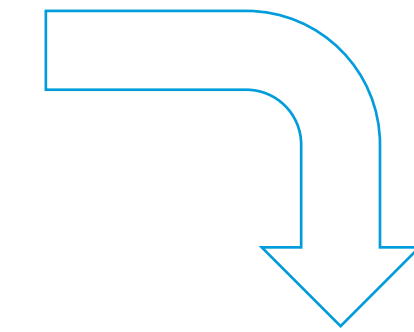
64 prerequisites and performance indicators.

National Standard

First EIP standard in the world!



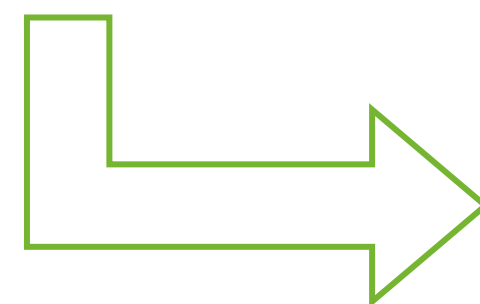
3 levels for certification



The World's First
Certified EIP is in
Colombia

EIP Performances

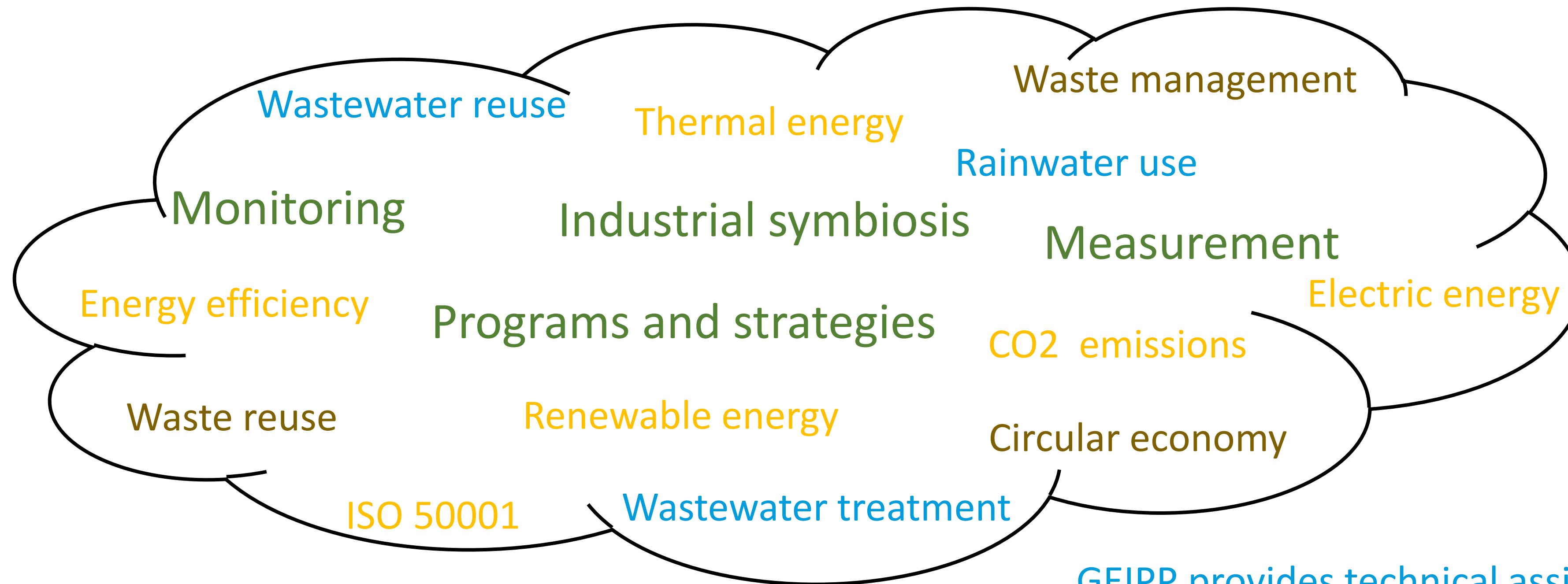
Park management performance	Environmental performance	Social performance	Economic performance
• Park management services • Monitoring • Planning and designing	• Environmental management and monitoring • Energy management • Water management • Waste and material use • Natural environment and climate resilience	• Social management and monitoring • Social infrastructure • Community outreach and dialogue	• Employment generation • Local business and SME promotion • Economic value creation



Alignment with Industrial
decarbonization principles

Linking EIP Environmental Performance to Industrial Decarbonization

Environmental assessment areas (EIP Framework):



GEIPP provides technical assistance to IPs for EIP transition, which promotes industrial decarbonization



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Case studies:

GEIPP technical assistance promoting industrial decarbonization

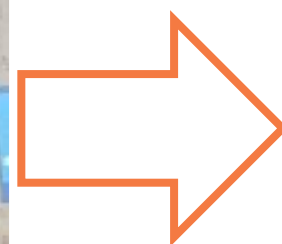
Case Study 1: Floating PV solar energy farm for EIP



- Investment: 2.5 M USD (PPA)
- Energy savings: 1,100 MWh/y
- GHG emissions reduction : 920 tCO₂/y

Additionally, 2,646 m³ of water are used from the rainwater lagoon per year.

Case Study 2: Switching from coal-fired boiler to natural gas boiler



- Investment: 518.376 USD
- Savings: 172,445 USD/y
- ROI: 3 years
- GHG emissions reduction: 2,987 tCO₂/y

Opportunity identified from the RECP assessments

Case Study 3: Industrial symbiosis of waste exchange

Exchange of residual plastic between 2 generating companies and 1 company that manufactures plastic cleaning and kitchen elements.



- Local use of 564 t/y
- Creation of a business model for the creation of symbiosis in the EIP
- Identification of the anchor company.



Case study 4: energy efficiency in tenant company

Optimization of the compressed air system in a tenant company:



- Investment: 107.000 USD
- Savings: 129.000 USD/y
- ROI: 1 year
- Energy savings: 1,604 MWh/y
- GHG emissions reduction : 262 tCO₂/y



Network redesign, adjustments to blowing points, leak correction, among others.

Case Study 5: Solid waste collection center



- Solid waste reused: 366 t/y
- Participating companies: 23
- Investment: 65,000 USD
- Savings: 30,150 USD/y
- ROI: 2.2 years

A service from the EIP management for the tenant companies

Impacts of Implemented EIP opportunities and projects

Impact	Total	Total annual equivalencies
 Energy savings (MWh/y)	14.858	 7.886 Colombian households
 Fossil fuel savings (GJ/y)	9.892	 251 Vehicles
 Water savings (m3/y)	5.492	 137 Olympic swimming pools
 Reduction in waste generation(t/y)	3.873	 484 Garbage trucks
 Reduction in generation GHG emissions(tCO2/y)	19.708	 895.818 Trees
 Investment (USD)	\$ 13.479.184	
 Savings (USD/año)	\$ 2.878.124	

The EIP model is a proven engine for industrial decarbonization: it transforms operational efficiency into measurable environmental impact and financial profitability



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Embajada de Suiza en Colombia
Cooperación Económica y Desarrollo (SECO)



Thank you for your attention.

Contact details

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Global Eco-Industrial Parks Programme

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+57 3122002917





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Partners:



UK Government

Accelerate-to-Demonstrate (A2D) Facility Annual Event

Investing in Equality: Bridging the Financing Gap for Women-Led and Inclusive Demonstration Projects

15 April 2026 | 09:00–10:30 | Bogotá, Colombia



Agenda

Introduction (9.00 – 9.05)

- Ms. Lorena Alberte, GESI – ESS Project Coordinator, UNIDO

Opening Presentation (9.05 – 10.00)

- Ms. Amanda Diaz, Operations Officer with the Sustainable Infrastructure Advisory team at the International Finance Corporation (IFC) in the World Bank Group.
- Ms. Megan Laws, Monitoring, Evaluation and Learning (MEL) Adviser and Government Social Researcher in the UK Department for Energy Security and Net Zero (DESNZ)
- Julia Santander, Managing Director Investments, EcoEnterprises Fund
- Paula Andrea Osorio, Tangara Investment Project Coordinator, Impacta Fund
- Adebusuyi Olutayo Olumadewa Founder & CEO DoTheDream Youth Development Initiative
- Felipe Betancur, General Director, Fundacion Todos Podemos Ayudar

Fireside Chat (10.00 – 10.25)

- Moderated by Ms. Lorena Alberte, GESI – ESS Project Coordinator, UNIDO, With all previous panelists

Objectives:

- Showcase how gender lens investing and gender-responsive finance mechanisms contribute to de-risking demonstration projects and strengthening project bankability.
- Demonstrate actionable strategies to mobilize private, blended, and catalytic finance for women-led and inclusive demonstration projects.



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Partners:



Speaker

**Amanda Diaz, Operations Officer at Sustainable
Infrastructure Advisory Team, IFC**



**BANKABLE BY DESIGN
EMBEDDING GENDER AND ESG STANDARDS IN
MULTILATERAL INVESTMENT DECISIONS**



**International
Finance Corporation**
WORLD BANK GROUP

THE WORLD BANK GROUP: DRIVING DEVELOPMENT, REDUCING POVERTY

Emerging markets must create **hundreds of millions of jobs** in the next decade.

Job creation is the
World Bank Group's
highest priority.



WORLD BANK GROUP GENDER STRATEGY 2024-2030

The Strategy prioritizes 3 key objectives to advance gender equity that are measured by 6 outcomes:

STRATEGIC OBJECTIVES

OUTCOMES



GENDER EQUITY:

Risk Mitigation and Value Creation



RISK MITIGATION

IFC Performance Standards (PS)

Guide assessment and management of labor, community safety, and stakeholder risks. Gender considerations are embedded in PS.

Risk Management

Comprehensive safeguards to proactively address risks (such as delays, protests, litigation, and costly redesigns), **ensuring stakeholder concerns are effectively managed.**

VALUE CREATION

Workforce and Leadership

Gender-smart approaches are designed to deliver measurable, sustainable outcomes that enhance efficiency and innovation (e.g. increase talent availability in sectors with skill shortages, cost reduction from inclusive practices, enhanced safety culture).

Community engagement and supply chains

Unlocking new markets, driving innovation through diverse perspectives, and expanding economic opportunities for both the project and the communities it serves.

EMPOWER 2 POWER (E2P)

Multi-partner platform to foster talent, drive innovation, and build future human capital for the energy sector in LAC.

- Convenes public and private actors to coordinate data, skills, leadership, and policy actions for an inclusive energy workforce.
- Five work streams: (1) knowledge & disaggregated data, (2) economic opportunities, (3) digital/technical skills, (4) leadership & networks, and (5) policy dialogue and coordination.





~~GENDER~~ & INFRASTRUCTURE ~~TOOLKIT~~

A practical playbook to integrate gender equity and social inclusion into infrastructure projects from planning to operation.

- Infra sector-specific gender guidance, action plans, KPIs, templates, and M&E tools.
- Available in English, Spanish and French.



~~S~~SOURCING 2 ~~E~~EQUAL (S2E)

- Increase the participation of women-owned businesses in corporate supply chains.
- Business case: More diverse and localized supply chains enhance resilience, reduce delays and cost overruns, and improve the social license to operate.
- Two work streams: (1) engagement with corporate buyers to adopt inclusive procurement practices, and (2) capacity-building for women-owned suppliers.



SUSTAINABILITY-LINKED FINANCING WITH GENDER KPIS

Financial incentives to support borrowers in achieving measurable, context-sensitive E&S outcomes, including gender targets.

- Ties inclusion directly to cost of capital, embedding social performance into financial structuring. Loan pricing and terms are linked to clearly defined, measurable KPIs, independently verified.
- In infrastructure, the most used social KPIs globally are Gender & DEI, including women in management, workforce, and technical roles.



EXAMPLES OF SUSTAINABILITY-LINKED FINANCING IFC'S TRANSACTIONS WITH GENDER KPIS





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Partners:



Speaker

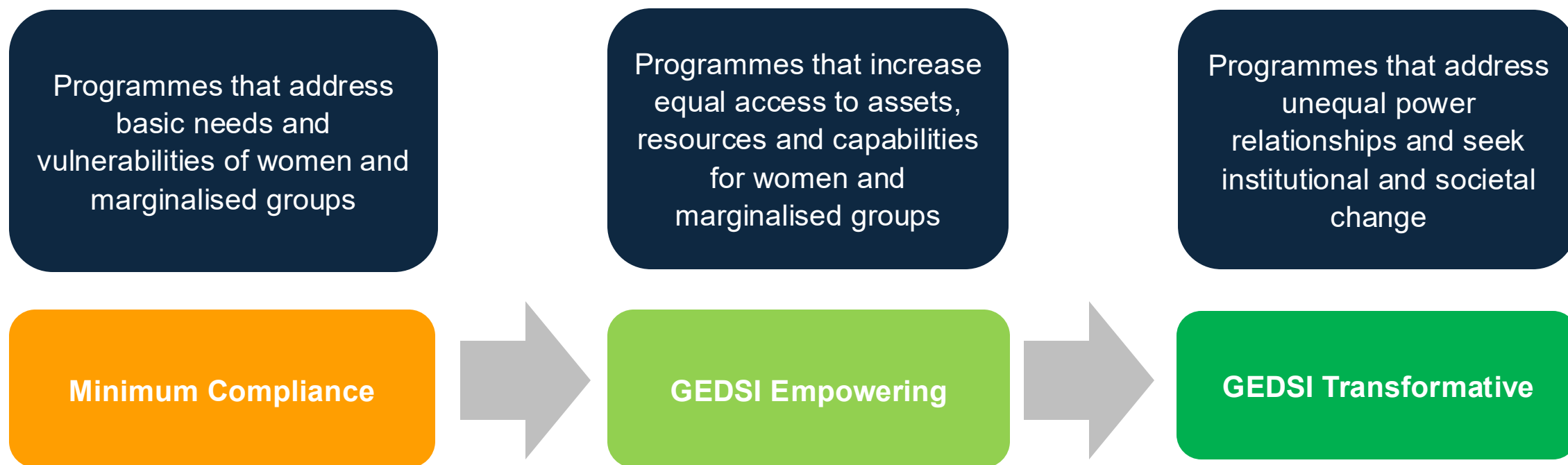
**Megan Laws, MEL Advisor and Government Social
Researcher, UK Department for Energy Security and
Net Zero (UK DESNZ)**

UK International Climate Finance (ICF) ambition on GEDSI

To deliver the UK ICF's ambition on GEDSI, all **ICF programmes** must comply with the UK's legal obligations and international commitments, including but not limited to:

- The **International Development Act 2002** and the **International Development (Gender Equality) Act 2014**.
- The **Equality Act 2010**, and associated Equalities Impact Assessments
- Alignment with the UK's pledge under the **Sustainable Development Goals** to "leave no-one behind"
- **Do no harm** and FCDO's Programme Operating Framework (PROF) and Environmental and Social Safeguarding requirements, including safeguarding against Sexual Exploitation, Abuse, and Harassment (SEAH)
- UN Convention on the Rights of Persons with disabilities
- The **Inclusive Data Charter**

ICF GEDSI ambition scale



Case Study: FCDO's Transforming Energy Access (TEA) programme

- The TEA research and innovation platform integrates GEDSI strategies to empower women across Sub-Saharan Africa, South Asia and the Indo-Pacific in the clean energy sector through training, Masters programmes and work placements.

Gender Equality, Disability & Social Inclusion (GEDSI) Toolkit



Overview

Toolkit

Gender webinar series

TEA Disability Training

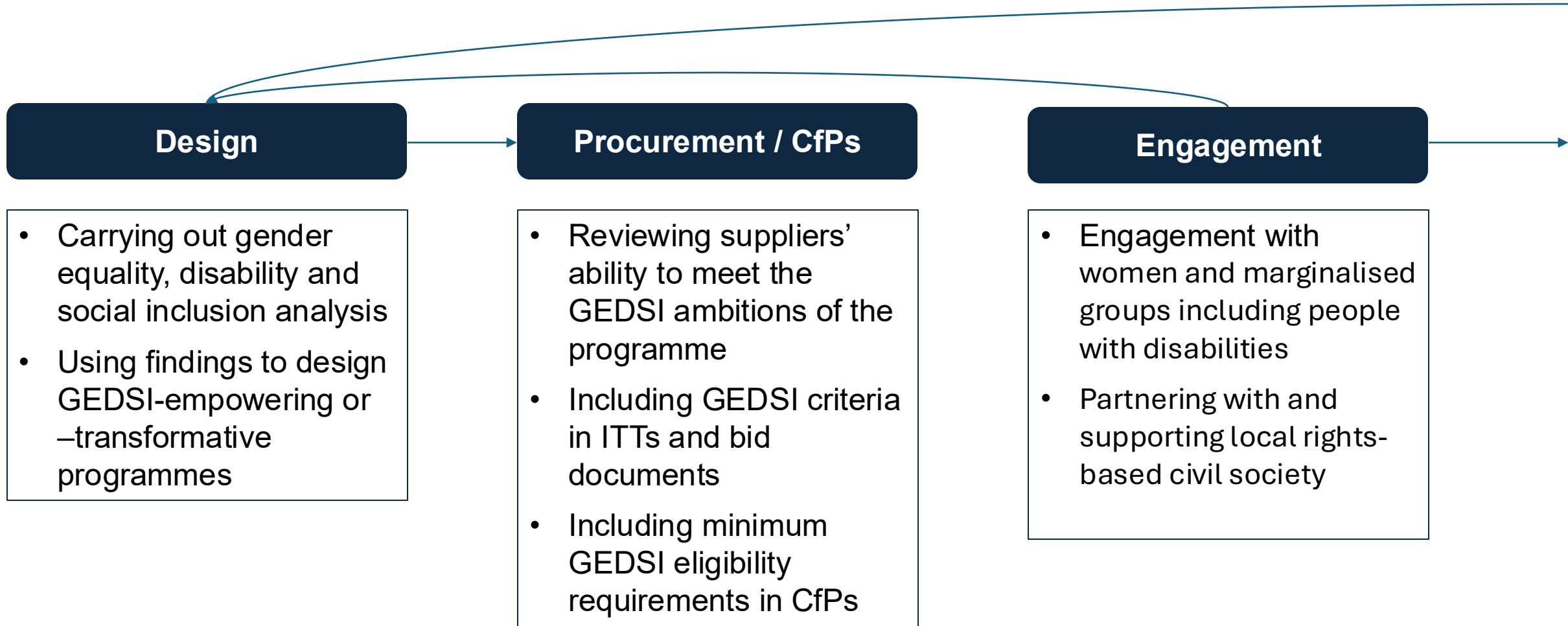
TEA Gender Bootcamp

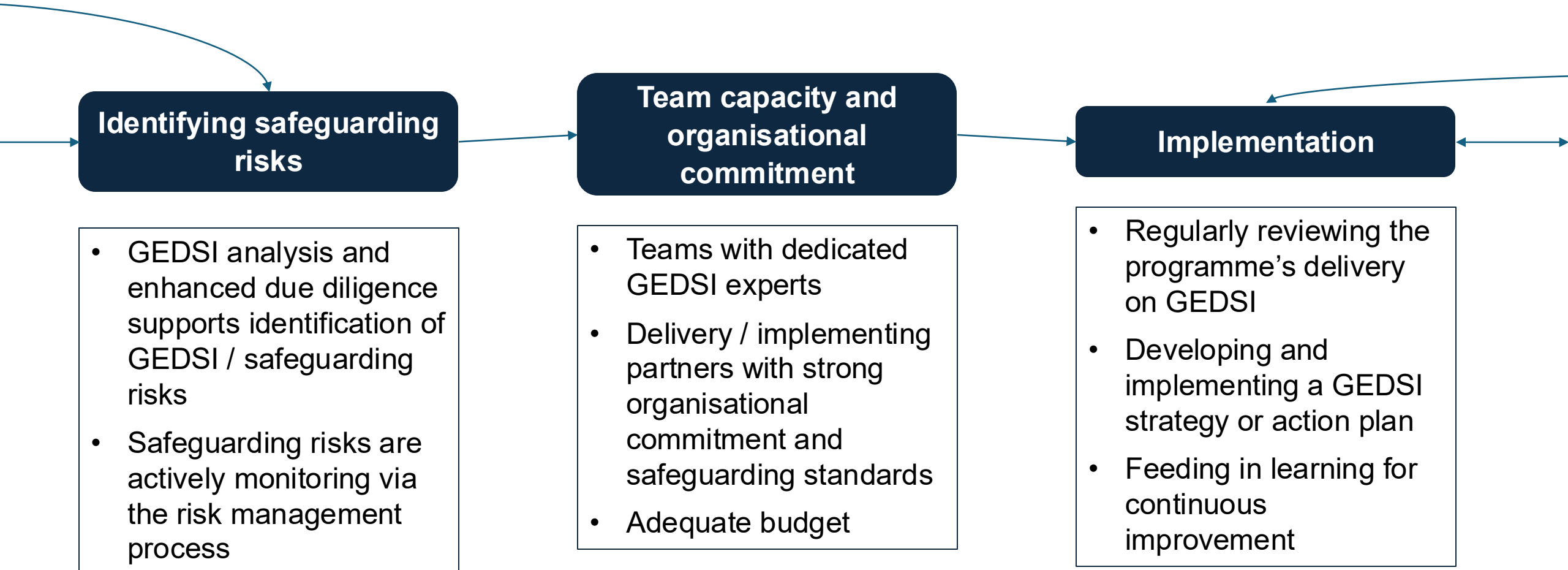
Tested Gender Approaches

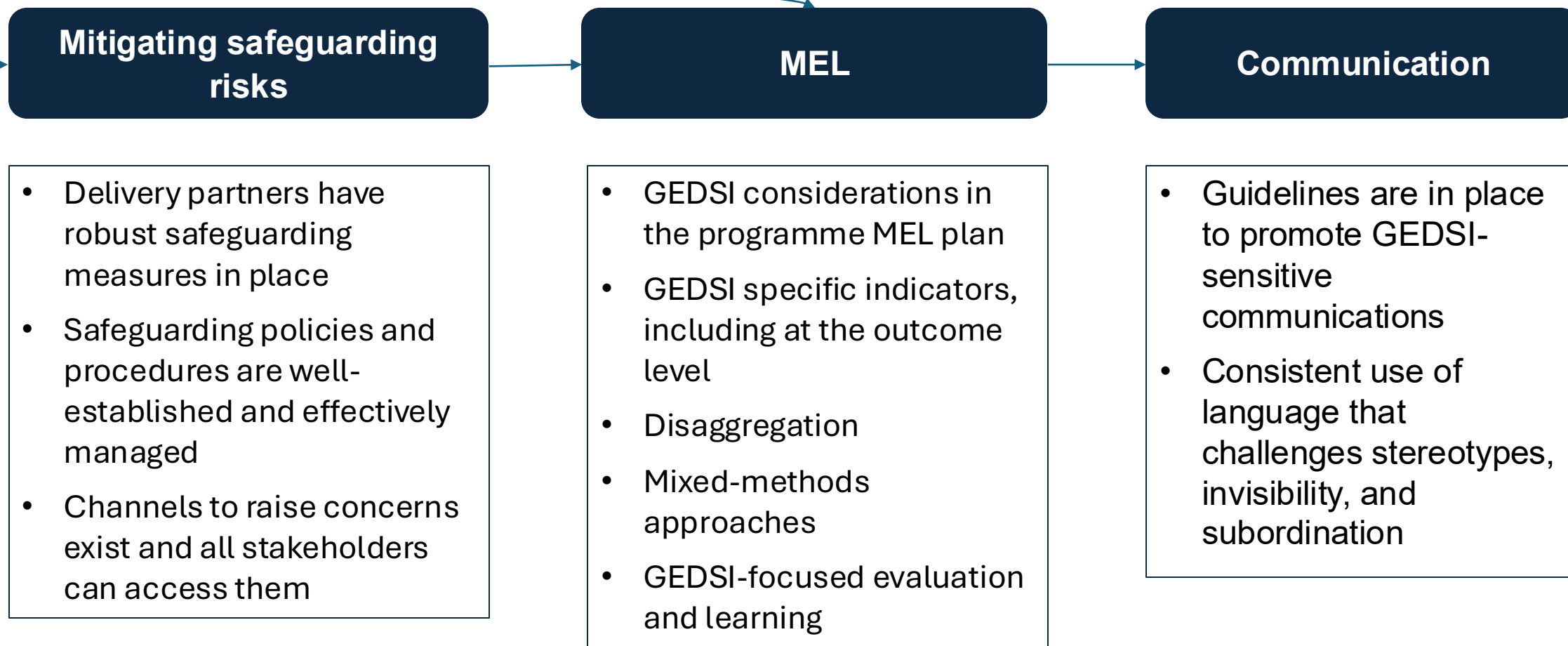
The TEA platform is working to integrate a gender equality, disability, and social inclusion (GEDSI) lens into key decision-making and project activities, tracking results, and supporting a just and inclusive clean energy transition that leaves no one behind.

UK ICF ambition on GEDSI

- All **new ICF programmes** should be designed to be "GEDSI empowering" at a minimum. This would usually equate to scoring 1/'Significant' or 2/'Principal' under the OECD DAC Gender Marker.
- **The ICF portfolio will follow a twin-track approach to GEDSI**, whereby as well as GEDSI mainstreaming, an increasing portion of ICF programmes will be designed to be "GEDSI transformative". This would usually equate to scoring a 2/Principal under the OECD DAC Gender Marker.
- All **new ICF programmes** should consider the inclusion and empowerment of people with disabilities in their design and delivery to ensure a more transformative approach. Relevant programmes should be marked as "significant" (or "principal" if the primary focus is on people with disabilities) under the OECD DAC Disability Policy Marker to indicate that they are inclusive of people with disabilities.







Mainstreaming GEDSI on A2D

- The programme has published [a GEDSI framework](#), informed by context-specific analysis, that sets out the principles, requirements, and actions needed to ensure meaningful integration during design and implementation and recognises both **intersectionality** and **multidimensionality**.
- GEDSI is a minimum eligibility requirement for all demonstration projects. For moderate- or high-risk projects, further assessments are undertaken to identify potential risks and provide mitigation actions and measures.
- All projects must achieve a score of 1/Significant against **the OECD DAC Gender Marker** and score of 2 against **the UNIDO Gender Marker**, have documented measures ensuring accessibility, inclusive consultation, or non-discrimination of persons with disabilities and marginalised groups in supported activities, and meet the criteria in UNIDO's ESS Policies and Procedures – as tracked in our results framework.

Mainstreaming GEDSI on A2D

- The programme logframe **disaggregates by protected characteristics**, including gender, where appropriate.
- The programme will be evaluated alongside other programmes under the Clean Energy Innovation Facility (CEIF) platform. **GEDSI is an explicit evaluation requirement**, with all programmes under the platform assessed for the extent to which (and how) they generate wider SDG co-benefits, including but not limited to, green job creation and gender equality and social inclusion benefits.
- The programme benefits from **GEDSI expertise** – in DESNZ, in the delivery partner team, and in the evaluation team.

Thank you

Any questions?



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Partners:



Speaker

**Julia Santander, Managing Director Investments,
EcoEnterprises Fund**

EcoEnterprises Fund

Convergence Webinar: *Integrating Gender and Climate in Blended Finance*



May 2026

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EcoEnterprises Fund

The transformative power of investment

We are a women-owned and led firm with an unparalleled **25-year track record in impact investing**, building portfolios that boost

Natural climate solutions

combining nature-based solutions with innovative approaches to drive meaningful climate action.

Biodiversity and natural ecosystems

Enhancing nature positive strategies across sectors.

Social impact

with a particular interest in **women-led and gender lens** businesses, to create a more equitable society.

Value creation with blended capital

Our Funds close a gap in local financial markets where impactful businesses continue to face a persistent structural lack of **tailored growth capital** and of **hands-on support**, that ensures the robustness of the underlying business model as companies scale. Our **technical assistance facility** supports projects centered on:



Improved business outcomes

Improved financial management & forecasting, capital raise support, and enhanced governance.



Gender-smart action

Gender Action Plans, incl. Gender lens trainings, awareness campaigns, and improved HR practices.



Climate solutions

Carbon and water footprints, emission reduction plans, climate change mitigation & adaptation projects.



Enhanced E&S capacity

Biodiversity studies, environmental and social management systems, and certification support.



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Partners:



Speaker

**Paula Andrea Osorio, Tangara Investment Project
Coordinator, Fondo Impacta**



Fundación para el
emprendimiento
Impacta



Network/Program Members:

Latimpacto

SVXCO

village capital



CONNECT

RED DE IMPACTO

ColCapital
Asociación Colombiana
de Capital Privado

elt Climate-KIC



A background image showing two hands cupped together, holding a small green seedling with dark soil. The image is overlaid with large, semi-transparent purple circles. The text is centered in white.

**Invest Smart,
Impact Strong,
Profit from Positive Change!**

360 Portfolio to leverage sustainable entrepreneurship

Value connections

Access to co working and creative spaces, capital relational – clients and market connections, and access to talent.

Open Innovation

Solving innovation challenges from entrepreneurs and for entrepreneurs.

Technology with purpose

Advice and access to tools for the sophistication of sustainable business through technology.

Acceleration and Transformation

Development and strengthening of capabilities to create, improve and grow their business models.

Finance access

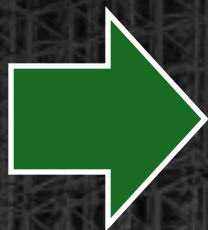
Access to financial resources through Fondo Impacta, for ventures with high growth potential.



360 Portfolio to leverage sustainable entrepreneurship

Finance access

Access to financial resources



How do we transition from grants to investments that deliver scalable impact with measurable outcomes?



1. IMPACTA FOUNDATION As a General Partner

Dealflow
Due Diligence
Monitoring
Ensure profitability and successful exits

2. PE Fund as a Vehicle

Robust Fund Structure (LP-GP frameworks)
High Transparency and Reporting Standards
Clear LP-GP Communication Channels
Independent Third-Party Fund Administration
ESG & Impact Integration with Measurable KPIs

	Traditional investment	Responsible investment	Impact investment	Sectorial impact investment	Impact first investment	Philanthropy
Thesis	Seeks to maximize profitability, ESG factors are not taken into account or only to a very limited extent.	The term responsible is used because the evaluation of ESG factors is done proactively although investments with high ESG risks are not taken into account.	Sustainability and financial considerations are essential in making investment decisions.	Las inversiones se realizan en sectores específicos que claves para el desarrollo de factores ESG como: eficiencia energética, cambio climático, etc.	Investments are made in specific sectors that are key to the development of ESG factors such as: energy efficiency, climate change, etc.	Decision-making takes only social and/or environmental factors into account.
Impact measure	✗	✗	✓	✓	✓	✓

Source: Adapted from Sonen Capital



Subfund 3:

Subfund 1:
8 companies in
climate and
inclusion, focus on
return with impact

Subfund 2:
Women in climate,
with empowerment
and readiness for
investment

Your fund, your
impact thesis





TANGARA: Catalyzing Climate Tech in Colombia

Bridging the early-stage capital gap for women-led innovation in **Bioeconomy, Circular Economy, Energy Transition, and Agritech.**



The Asset

Natural Capital

10%

Of global biodiversity resides in Colombia, positioning the country as a strategic node for a bio-based economy.

The Liability

Climate Exposure

4.3% & 47%

Colombia loses **4.3% of its GDP annually** to climate impacts, with **47%** of its territory classified at high or very high climate risk.

A transition to a climate-resilient economy is an urgent necessity, yet early-stage climate startups lack the tailored financial instruments to scale their solutions.

The Gender-Capital Market Failure

41.8%

Funds for **integrated mitigation & adaptation solutions** (vs. 13% for men).

1.14%

Of LatAm climate capital reaches **female founders**.

The ROI

The Gap

Women-led startups show **higher capital efficiency** but face **systemic biases**.
This is the ecosystem's **largest untapped investment opportunity**.

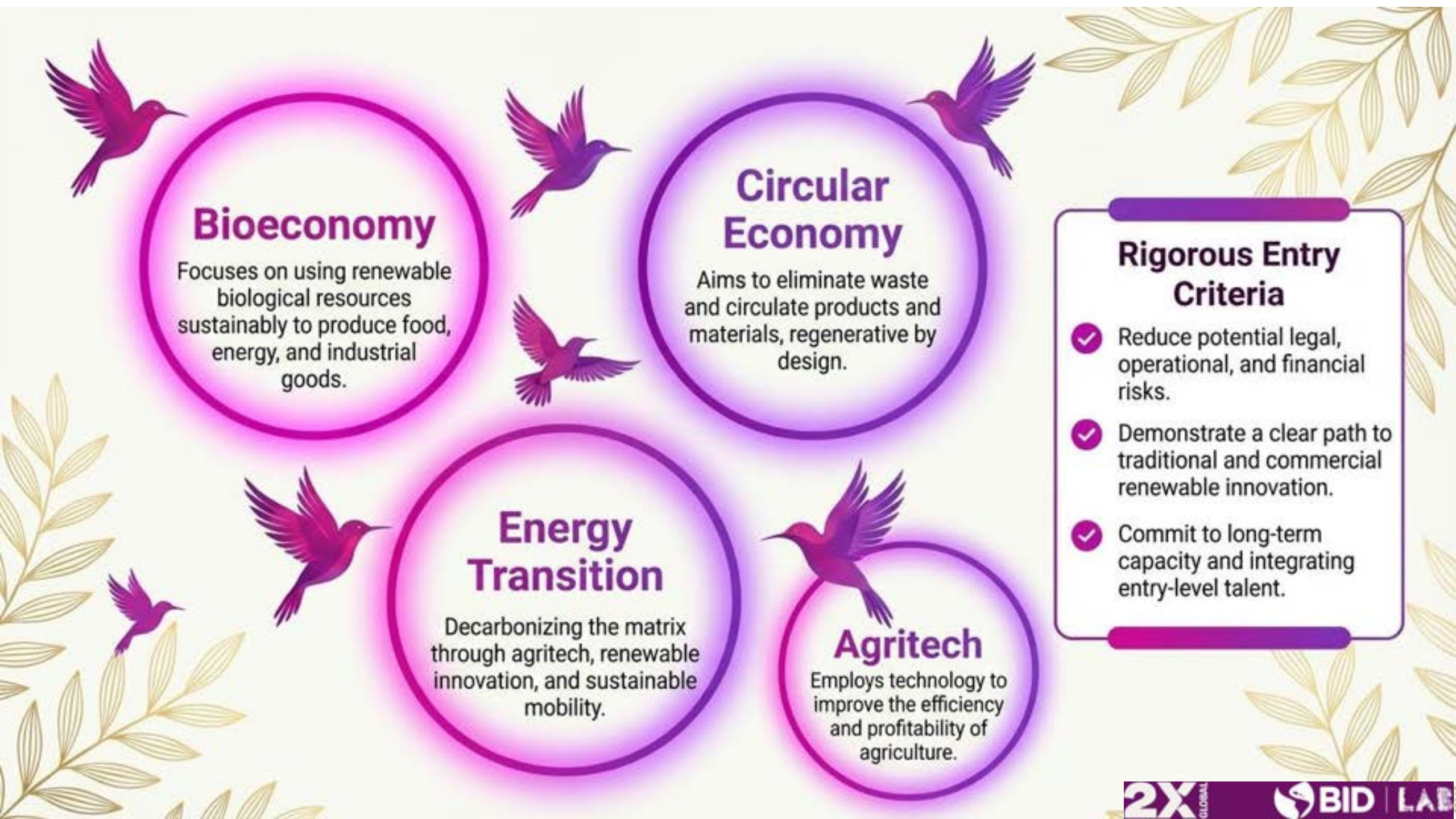
The Catalyst: Tangara Investment Readiness

Tangara

A stylized illustration of a suspension bridge with two tall towers and multiple cables, spanning a deep canyon. Several birds are shown in flight around the bridge. The background is a light blue sky, and the canyon walls are a darker blue. The overall style is clean and modern.

Backed by
IDB Lab,
Universidad Ean,
Connect, and
Biointropic.
and 2X

We systematically
dismantle technical,
financial, and
network barriers,
delivering a
de-risked pipeline
of high-impact
climate tech
to investors.



Bioeconomy

Focuses on using renewable biological resources sustainably to produce food, energy, and industrial goods.

Circular Economy

Aims to eliminate waste and circulate products and materials, regenerative by design.

Energy Transition

Decarbonizing the matrix through agritech, renewable innovation, and sustainable mobility.

Agritech

Employs technology to improve the efficiency and profitability of agriculture.

Rigorous Entry Criteria

- ✓ Reduce potential legal, operational, and financial risks.
- ✓ Demonstrate a clear path to traditional and commercial renewable innovation.
- ✓ Commit to long-term capacity and integrating entry-level talent.

The Tangara Commitment



80%

80% of the companies financed through this program will be led by women.

We are actively rewiring the investment ecosystem. Tangara moves beyond quotas by integrating a specialized gender lens module directly into the investment readiness process, equipping female founders to dominate capital negotiations.

The Pipeline: Systematic De-risking

Phase 1: 44 Startups

Enter rigorous capacity building and structural diagnostics.

Phase 2: 22 Startups

Graduate to advanced, individualized financial readiness and data room preparation.

Phase 3: 15 Vetted Startups

Access direct funding (12 direct co-investments + 3 corporate pilots).

Investor Takeaway: Investors gain exclusive access to a highly curated, deeply vetted pipeline that has survived months of technical and financial stress testing.

Component 1: Financial Readiness & Empowerment

Block 1: Market & Validation

Strengthening commercial traction and preparing for pilot scaling.

Block 2: Unit Economics

Rigorous financial modeling, break-even tracking, and profitability metrics.

Block 3: Impact Architecture

Designing certified methodologies to quantify social and environmental returns.

Block 4: Gender Lens Leadership

Conquering systemic barriers, mastering investor negotiation tactics, structuring inclusive governance, and applying gender-lens impact metrics.

Component 2: The Investment Engine

FCP Impacta Fund

The specialized financial vehicle executing flexible, blended finance.



**Direct Co-Investment Pool (\$710,000 USD
(including \$300,000 from 2X))**

Deploying catalytic capital alongside co-investors to drive immediate scalability.

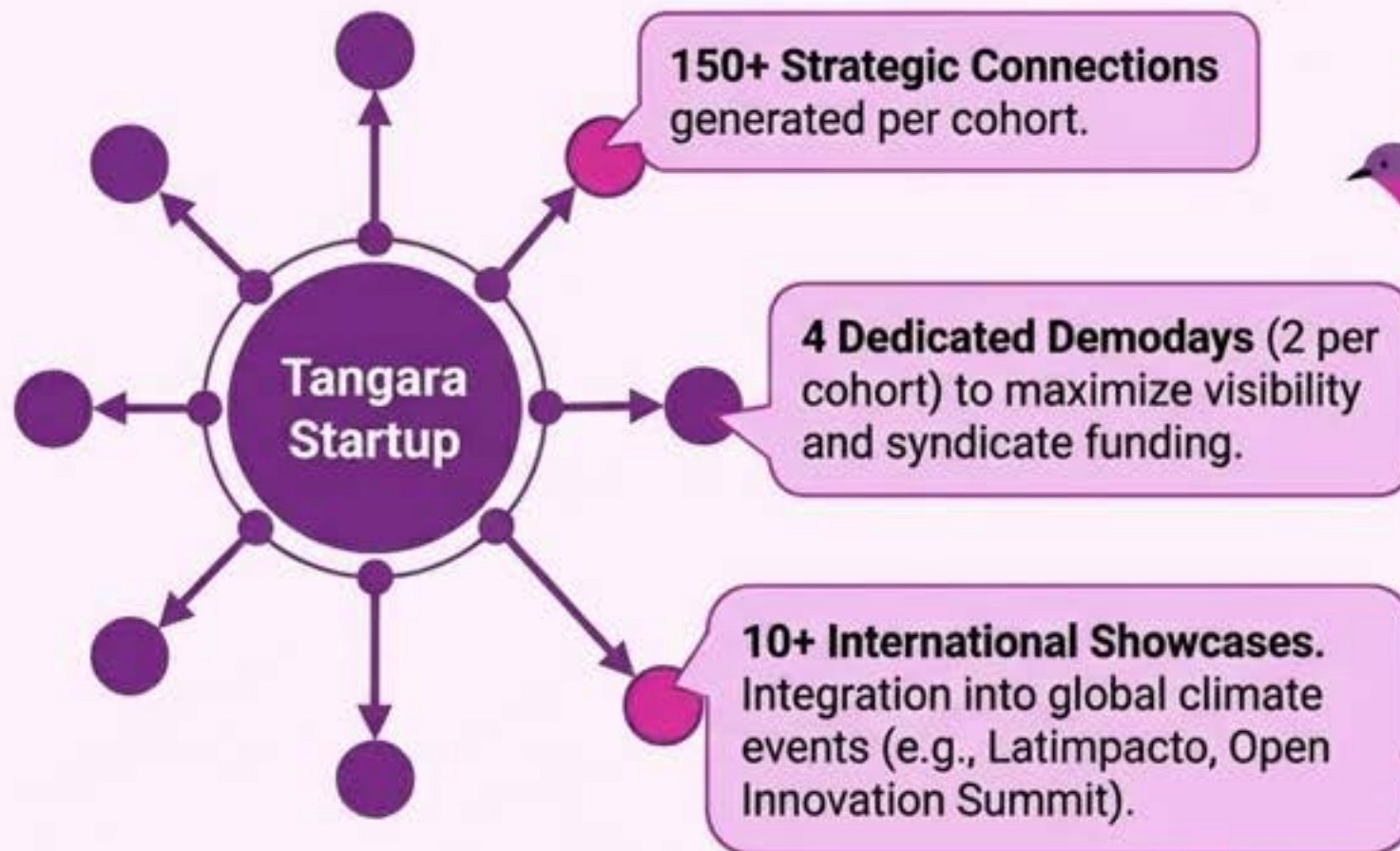
Pilot Execution Pool (\$50,000 USD)

Funding 3 commercial pilots with an average of \$16k program match alongside a minimum \$13k corporate match to validate technologies in real-world industrial settings.

Component 3: The Ecosystem Network

Basecamp

Embedded in the Ean Legacy building—a Cradle-to-Cradle® certified innovation hub providing state-of-the-art coworking and collaboration spaces in Bogotá.



Component 4: Rigorous Impact Measurement

Environmental

95%



110,000

Tons of CO2e
reduced or avoided.

Land Use



Increased hectares under
sustainable, regenerative
management (forestry/agriculture).

Economic



Break-even achievement,
revenue growth against financial
models, and green job creation.

Methodology: Incorporating experimental baselining tailored to the specific TRL and market reach of each technology, ensuring transparent, institutional-grade reporting.



The Co-Financing Opportunity

We are seeking \$1.22 Million USD in catalytic co-financing.

This capital directly leverages the secured IDB Lab framework, allowing you to co-invest alongside a fully operational, vetted fund. Your investment will directly scale 15 rigorously de-risked, heavily women-led climate technologies driving Colombia's transition to a Net-Zero bioeconomy.

Why Invest in Tangara?

The Tangara Advantage

A De-risked Pipeline

Avoid the friction of early-stage sourcing. We provide 36 months of rigorous, IDB-backed vetting, financial restructuring, and technical readiness.

Systemic Climate Impact

Direct contribution to the Paris Agreement and Colombia's E2050 strategy through verifiable CO₂e reduction and natural capital preservation.

The Gender Alpha

Capitalize on the ultimate market inefficiency. Break the 1.14% funding barrier to capture the superior ROI of women-led climate innovation.



Join the Transition.

Be the catalyst for Colombia's inclusive climate economy.

Contact the FCP Impacta Fund Directors to secure your allocation in the \$1.22M co-financing round.



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Partners:



Smart Energy: Grid Resilience through Intelligent PV and Storage in Nepal

Objective

The project will support Nepal's clean energy goals by providing a concrete demonstration of the cost-effectiveness and reliability of **smart solar and storage systems**, paving the way for larger-scale deployments.



PROJECT KEY INFORMATION

LEAD ORGANIZATION
Practical Action

CONSORTIUM PARTNERS

- Gham Power Private Limited Nepal
- Swanbarton Private Limited UK

DURATION
01 Feb 2025 - 01 Mar 2028

LOCATION
Nepal





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Partners:



Speaker

**Adebuisoyi Olutayo Olumadewa, Founder & CEO,
DoTheDream Youth Development Initiative**

**A2D Facility Annual Event 2026; Scaling Innovative
Solutions for Sustainable Industrial Development
GESI – Impact Sessions**

Investing in Equality: Bridging the Financing Gap for Women-Led and Inclusive Demonstration Projects

Adebusuyi Olutayo Olumadewa

**Lead Strategist - Girls in Energy Project
Founder DoTheDream YD**

The Main Goal of Girls in Energy

**Rural Industrialisation: Local Action in Powering
Progress - One Community at a Time**

1

**Urban to Rural Migration - Job Creation /
Intersectionality as Economy - One community
per time**

2

**Social Inclusion - Girls Women, Youths
Solutions in Local Action - One Community
Per time**

3



GIRLS IN ENERGY
DotheDream Initiative



DO THE DREAM®
Youth Development Initiative

A2D Facility Annual Event 2026; Scaling Innovative Solutions for Sustainable Industrial Development

Peculiarities to Global South

High Unemployment

1

Growing Youth Population

2

Energy Poverty

over 670 million people lacking electricity access and 2 billion relying on polluting fuels

3

WHAT ARE WE DOING WITH GIRLS IN ENERGY

WHY GIRLS IN ENERGY?
WHY LOCAL ACTION ?

WHY WOMEN AND GIRLS TO
LEAD IN ENERGY

WE ARE BRINGING THE **FUTURE NEAR**
BY CONNECTING SUSTAINABILITY TO
POSTERITY



GIRLS IN ENERGY PROJECT



Girls in Energy is Leading Renewable Mini-Grid Development to Advance Gender Equality and Clean Energy for a Sustainable Future

The Girls in Energy (GiE) Project, spearheaded by DoTheDream Youth Development Initiative (YDI), is a transformative, scalable intervention that empowers girls and young women across the Global South communities by positioning them as leaders, innovators, and stewards in renewable energy deployment and STEM-driven sustainable development.



5 PILLARS STRATEGY

**A2D Facility Annual Event 2026; Scaling Innovative
Solutions for Sustainable Industrial Development
GESI – Impact Sessions**

Interest

CONFERENCE

raises Awareness for
interest development
among Girls,
Women, Youths and
indigenouse People

Inspiration

CAREER

Linear and Non Linear .
The greater session to
enable Culture of
Energy as a Living
thing in becoming a
Global Player

Inundation

CAMPING

Smart Energy Value
Chains - Leverage
Intersectionality as
Economy. AI ,digital
tools , tech,, Smart
Metering,

Impact

COMPETITION

developing innovative
solutions for real-world
energy challenges.
Create SMART Energy
Road Ahead. Ilinearl and
non Linear

COMMUNITY

Empowerment of women, girls to drive local actions that significantly improve access to reliable, affordable, and sustainable electricity at the grassroots level through the development and management of a 10MW distributed renewable energy mini-grid hub.



COMMUNITIES – Local Action, Global Progress

This pivotal component empowers women and girls to take active leadership in driving local energy solutions that enhance access to reliable, affordable, and sustainable electricity at the grassroots level. Central to this effort is the development and management of a 10MW distributed renewable energy mini-grid hub, designed and operated by the girls and women involved.

By fostering deep local ownership and hands-on involvement in every phase—from design to implementation and operation—the initiative ensures long-term sustainability and community empowerment. This grassroots-driven model not only delivers cleaner and more resilient energy but also catalyzes economic opportunities and meaningful social transformation.

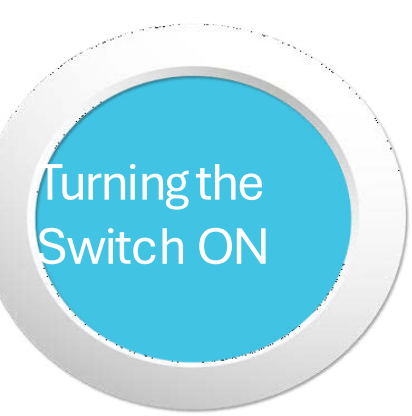
Outcome: The Communities pillar strengthens energy access and resilience, creates sustainable economic growth, and generates powerful social impact—championing inclusive environmental progress on a global scale.

POWERING PROGRESS



Girls In Energy Conference

LABEO COLLEGE



A2D Facility Annual Event 2026; Scaling Innovative Solutions for Sustainable Industrial Development

• COMMUNITY IMPACT

- Generating Electricity from Lime
- Creating a Power Bank Using Renewable Materials Waste to





COMMUNITY IMPACT



THE CONVERSATIONS



SUSTAINABLE MODEL

SKILLS

Democratise the Skills needed to upscale - from one community to another

SERVICE

Turn the skills to service in powering homes, hospital, industries with electricity

SOLUTION

Create a Big Picture of the Skills learnt for continous improvement for mass servicing of the community and cities



SUSTAINABILITY

PRESERVATION OF THE GLOBAL SOUTH WITH WOMEN CAUSING THE CHANGE THROUGH ACCELERATING DEMONSTRATION LEAVING NO COMMUNITY BEHIND.

Welcome to the United Nations

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中文

English

Français

Русский

Español



United Nations

Department of Economic and Social Affairs
Sustainable Development



Home

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HLPF

SIDS ▾

SDG Actions ▾

Engage ▾

News

About

SDGs Leadership Resource Center

DoTheDream Youth Development Initiative (Non-governmental organization (NGO))

[#SDGAction53280](#)

DoTheDream YDI & Life Dev Center Leadership Ce



GIE HUBS

JOB CREATION



**ROBUST
ECONOMY
SPORTS/**

**CLOSING THE
GAPS**

THE GIRLS IN ENERGY is

Thank you for Listening



energy@dothedreamydi.org, admin@dothedreamydi.org
www.dothedreamydi.org, www.girlsinenergy.org

**+1 347 421 8176, +1 443 425 9748
234 (0) 803 9513 286**



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Partners:



Speaker

**Felipe Betancur, General Director, Fundacion Todos
Podemos Ayudar**

Real Problems, Real Solutions

Felipe Betancur Posada
NGO= Todos Podemos Ayudar
Medellin – Colombia

Felipe Betancur - Fundación Todos Podemos Ayudar



Better health for people with disabilities



1 Over **BILLION** people globally experience disability



1 in 7 people

People with disabilities have the same general health care needs as others

But they are:

2x

more likely to find health care providers' skills and facilities **inadequate**

3x

more likely to be **denied** health care

4x

more likely to be treated **badly** in the health care system



1/2 of people with disabilities cannot afford health care

50%

more likely to suffer catastrophic health expenditure



These out-of-pocket health care payments can push a family into poverty

Rehabilitation and assistive devices can enable people with disabilities to be independent



970 MIL

people need glasses and low vision aids



75 MIL

people need a wheelchair; Only **5-15%** have access to one

466 MIL

people have disabling hearing loss



Production of hearing aids only meets: **10%** of global need **3%** of developing countries' needs

Making all health care services accessible to people with disabilities is achievable and will reduce unacceptable health disparities



remove physical barriers to health facilities, information and equipment



make health care affordable



train all health care workers in disability issues including rights



invest in specific services such as rehabilitation

Approximately 20% of the global population experience significant disability

And Assistive tech is very expensive \$\$\$\$



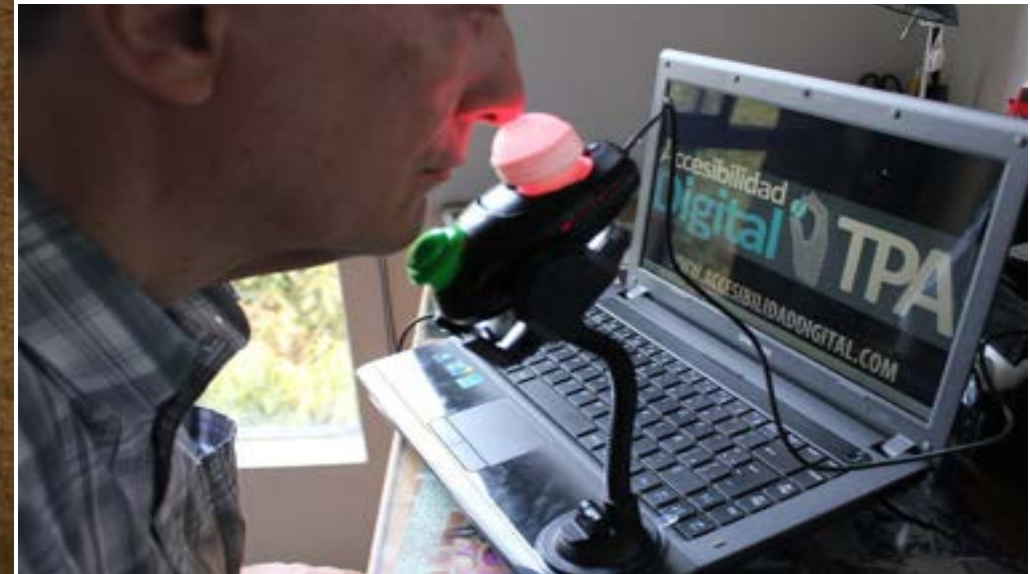
\$3,500USD



\$4,500USD

The innovative aspect

Back to the basics



The essence of the project



Hearing people, really trying to understand the real problems and challenges that they face about inclusion of people with disabilities, as a solution, we develop low-cost assistive solutions that really work

Background

- 16 years
- More than 100 low-cost assistive inventions/adaptations
- 1.000 video tutorials.
- More than 800 workshops in Colombia and internationally.
- Ecommerce with more than 5.000 products



Impact created / success factors



- Helping with adaptations that help people with disabilities study, work, play video games, play sports, travel, have sex, have a better life, more independent.



Financing - Challenges

Challenges: Lack of empathy or knowledge about real inclusion with governments, schools, companies, and most of the people.



Financing and sustainability: conferences, workshops, accessibility consulting and online store selling specialized accessible products.



Next steps



- Hearing and understanding real and inclusion challenges problems in other countries, and working with others, to develop new innovative low-cost assistive solutions for those problems.
- More networking, work more with other countries, make the project bigger each year = more social impact.

Thank You

Real Problems, Real Solutions

Felipe Betancur Posada
NGO= Todos Podemos Ayudar
Medellin - Colombia

Building Access, One Hack at a Time: Fundación Todos Podemos Ayudar

contacto@todospodemosayudar.com WhatsApp +57 3006000144



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Progress by innovation



Partners:

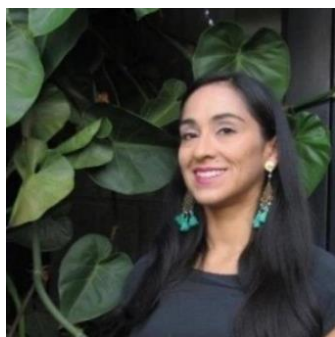


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Fireside Chat



Moderator:
Lorena Albarte
GESI – ESS Project
Coordinator,
UNIDO



Amanda Diaz
Operations Officer,
IFC



Megan Laws
MEL Adviser & Gov.
Social Researcher,
UK DESNZ



Julia Santander
Managing Director,
Investments
EcoEnterprises
Fund



**Paula Andrea
Osorio,**
Tangara
Investment
Project
Coordinator



Felipe Betancur
General Director,
Fundacion Todos
Podemos Ayudar



**Adebisuyi
Olutayo**
Founder & CEO,
DoTheDream
Development
Initiative



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Gender Equality and Social Inclusion Framework

- Provides a **structured approach** to integrate GESI across the **entire project lifecycle**
- Ensures projects actively address **inequality, exclusion, and unequal access to opportunities**
- Grounded in a **human rights-based approach** and aligned with **UNIDO's Gender Equality and Empowerment of Women** commitments and 2050 Vision
- Positions projects not only as technical interventions, but as **development processes** that shape **who participates, who benefits, and who may be excluded**
- Guides developers to design projects that generate **inclusive social, economic, community, and environmental benefits** for women, youth, persons with disabilities, local communities, and underrepresented groups
- Promotes **inclusive stakeholder engagement, equitable access to opportunities, skills development, decent work, community ownership, and benefit-sharing mechanisms**
- Provides **practical tools, templates, indicators, and participatory methods** to embed GESI into project design, implementation, and evaluation
- Requires **gender-disaggregated data**, proactive GESI activities, and **mandatory reporting** on gender and inclusion outcomes
- Aligns with **UNIDO Gender Marker (Score 2)** and **OECD-DAC gender equality policy marker (score 1)**

 UK Government



 Scan Me

GESIMF for the A2D Facility Website:
[Here](#)



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Q&A

Your Feedback Matters!

🔗 Please take a few minutes to fill out the Session Feedback Form.

Your input will help us improve future events and training sessions.

Time to complete: ~5 minutes

💡 Your responses will remain confidential and will be used to enhance future engagements

Thank you for your valuable feedback!

Investing in Equality: Bridging the
Financing Gap for Women-Led &
Inclusive Projects





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Further Information

- **A2D Facility Website:** A2DFacility.unido.org
- **A2D Facility LinkedIn Account:** [Follow the LinkedIn page here](#)
- **A2D Facility Mailing List:** [Join the mailing list here](#)
- **A2D Facility Year 1 Annual Report:** [Access the Annual Report here](#)
- **A2D Facility Year 2 Annual Report:** [Access the Annual Report here](#)
- **A2D Facility Market Assessments:** [Access the reports here](#)
- **A2D Facility GESI Framework:** [Access the GESI Framework here](#)
- **A2D Facility ESMF:** [Access the ESMF here](#)

Thank you





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Accelerate-to-Demonstrate (A2D) Facility Annual Event

Data into Human Impact

15 April 2026

11:15 – 12:30



Agenda

Introduction (11:15-11:20)

- Mr. **Peter Warren**, UNIDO
- Mr. **Yaman Al Eryani**, UNIDO

Presentation (11:20-11:40)

- Mr. **Joe Dodds**, (Strategic Communications Manager), DESNZ
- Ms. **Manjush Sunil**, Programme Manager, Water Research Committee

Video (11:40-11:50)

- Smart Green Energy

Activity (11:50-12:30)

- Groups case study - Write a 2-minute, human-centered story based on facts.

Objective:

Turning technical facts and project milestones into stories.

Simplify the Message: From a local community member to international community

Include the voices of women and marginalized groups in the story narrative



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Partners:



UK Government



Speaker

**Joe Dodd, Strategic Communication Manager,
DESNZ**



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Partners:



Speaker

**Manjusha Sunil, Programme Manager, Water
Research Commission**



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Partners:



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Video

UBUNTU ENERGY



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Group Exercise

The story lab



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Thank you

A2D Facility Annual Event:
Feedback Form (Impactful
Storytelling) 15 April 2026



Please share your feedback on the session
Scan the QR code to fill the form



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How to participate in UNIDO Call-for-Proposals

*Information Session for interested
grant applicants*



Agenda

- **General Information, Documents and Requirements**
- **Evaluation of grant proposals & Matters to be considered**
- **Submitting a grant proposal in the UNIDO e-procurement portal**
- **Questions & Answers**

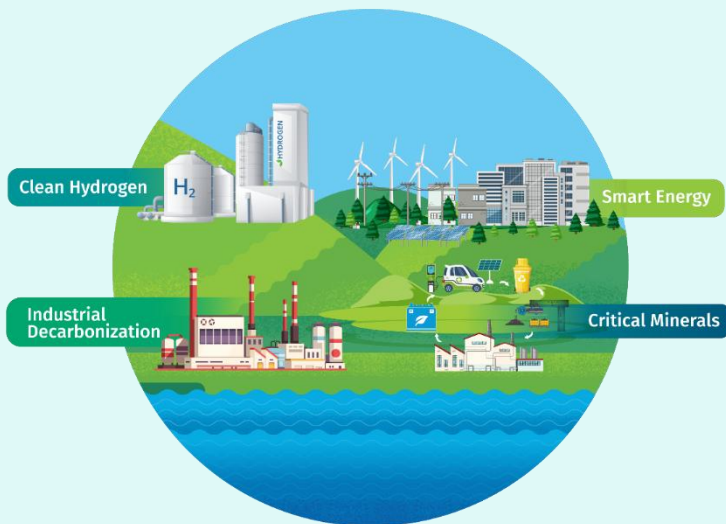


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General Information Documents and Requirements



What is a Call-for-Proposals (CfPs)?

used when

- **UNIDO approaches the market/targets grant applicants through open competition** to receive grant proposals for **requirements within the framework of a specific programme or project**
- **UNIDO awards a grant to one or more grant beneficiaries** to implement its proposed project

in accordance with the UNIDO Grants Manual

Important:

- read the CfP documents carefully
- understand the qualification, technical and financial criteria
- fill out the required documents/annexes diligently addressing all requirements

A2D Facility 3rd Call for Proposals

Call for Proposals (CfP) for the selection of Grant Beneficiary/ies for the implementation of A2D Facility Demonstration Projects in Developing Countries

Reference number:

UNIDO Call for Proposal (CfP)/RFx [7000008435](#)

Publishing date: 14 April 2026

Submission deadline: [18 June 2026, 4:00 p.m. CET \(Vienna time\)](#)

Clarifications may be requested at latest eight working days prior to the submission deadline
[09 June 2026 by the latest](#)

Responses to clarifications will be published in form of [Clarification Notes](#) in an anonymous way

Suitability/eligibility of a company (experience in a certain area) or of a project proposed for funding (size, scope, technology, etc.) related questions will not be addressed

A2D Facility 3rd Call for Proposals

Call for Proposal Information Form

Section I: General Information

Section II: Preparation and Submission of Grant Proposals

Section III: Procedure for Preliminary Examination, Evaluation, Ranking and
Selection of Grant Proposals

Section IV: Award and Related Procedures

Section V: Terms of Reference/Scope

Part A: Background and Project information

Part B: A2D Facility activities

Part C: Technical content

Part D: Financial content

Section VI: Qualification Requirements/Criteria

Part A: Admissibility, Exclusion and Eligibility Criteria

Part B: Technical Evaluation Criteria

Part C: Financial Evaluation Criteria

Part D: Ranking Methodology

Section VII: Annexes to CfP

A2D Facility 3rd Call for Proposals

ANNEXES

Annex I: **Illustrative examples of A2D Facility projects** that might be supported under each thematic area

Annex II: **A2D Facility indicators and monitoring form**
to be completed and submitted with the proposal

Annex III: **Application Form**
to be completed, signed and submitted with the proposal

Appendix I to Annex III – Financial Worksheets
to be completed and submitted with the proposal in excel and pdf format

- **Budget Plan and Allocation** (annual budgets by component and activities – high level summary on A2D and co-funding)
- **Budget Note** (expenditure categories e.g. equipment, labor, installation, trainings; A2D funding only)
- **Activity and deliverable based milestone payment plan** (detailed budget breakdown)
- **Procurement Plan** (procurement methods, thresholds, timeline, estimated costs)

Note: personnel costs to be provided in a separate Recruitment plan

A2D Facility 3rd Call for Proposals

ANNEXES

Annex IV: **Institutional/Micro assessment form**

self-risk assessment about the grant beneficiary's capacities in areas of project management, organizational structure and staffing, accounting policies and procedures, fixed assets and inventory, financial reporting and monitoring, procurement and contract administration

[to be completed and submitted in excel format with the proposal](#)

Annex V: **Financial Statement and Certification**

[to be completed and submitted with the proposal](#)

Annex VI: **UNIDO Bank Information Form**

[to be completed and submitted with the proposal](#)

Annex VII: **Statement of Confirmation Form** includes Exclusion Criteria acceptance

[to be completed and submitted with the proposal](#)

Annex VIII: **Model Grant Agreement**

applicant must confirm of acceptance in Application Form (*not to be filled out*)

Annex IX: **General Grant Conditions**

applicant must confirm of acceptance in Application Form (*not to be filled out*)

A2D Facility 3rd Call for Proposals

ANNEXES

Annex X: **Operational Guidelines and annexes**

general template, *not to be filled out for the proposal*
will be adjusted as and if required for specific grant agreement after grant award

[Guidance and procedures](#) to enable the Grant Beneficiary to [effectively and efficiently implement the Project in accordance with the terms and conditions of the grant agreement](#)

The operational guidelines include the following Appendices:

- Appendix 1: Workplan
- Appendix 2: Procurement Plan
- Appendix 3: Risk Monitoring and Reporting Form
- Appendix 4: Progress and Final Technical Reports
- Appendix 5: Financial Report Form
- Appendix 6: Official Incident Report – Inventory Records or other Assets (only if applicable)
- Appendix 7: Form of Letter with Certified Signatures
- Appendix 8: Request for Payment

A2D Facility 3rd Call for Proposals

IMPORTANT:

- [Application Form \(Annex III\)](#), in case of discrepancies, has priority over information provided in other submitted documents
 - to be uploaded in PDF and electronic versions
 - the given structure, text, etc. of this application form as well as all related document/form/annexes of this CfP may not be adjusted by the applicant
 - Checklist of required supporting documents, annexes/attachments (list not exhaustive) is provided with the Application Form
- Please [DO NOT rename the Annexes I to X](#) to the CfP Information Form
- Additional submitted supporting documents should have a [meaningful name to allow easy identification](#)
- All requested documents must be [in the name of the Applicant/Lead Organization](#) (= entity that will sign the Grant Agreement in case of Award)
- All signatures shall be effected by a [duly authorized representative of the applicant](#)



A2D Facility 3rd Call for Proposals

Ethics

UNIDO requires its partners to **adhere to the highest ethical standards** during the tender process as well as during the execution of the grant agreement concluded with UNIDO

A2D Facility 3rd Call for Proposals

A2D Facility supports only **activities that implement and operate demonstration projects of innovative climate solutions in developing countries**

However, solutions that are commercialized in another country but remain at an earlier Technology Readiness (TRL) and Commercial Readiness (CRL) Level in the targeted developing country-of-implementation are eligible

The A2D Facility **does not support** projects **in the planning stage, research and development, or earlier-stage pilot tests**

Must include **all three mandatory activities** (which must be appropriately budgeted)

- Implementation and operational activities in developing countries (equipment purchases, construction, testing and operation etc.)
- Training and capacity-building activities that are directly linked with implementing and operating the demonstration project
- Knowledge and dissemination activities (including monitoring the performance of the demonstration project, collection of verified/validated data and reporting against the A2D Facility's indicators, hosting study tours, site visits and delivering capacity building activities at the demonstration project, and sharing lessons learned in national, regional and international fora)

A2D Facility 3rd Call for Proposals

Eligible projects must be proposed for **only one** of the following five (5) funding windows:

- 1) **Global Window** – Window 1
in one of the country that is eligible to receive Official Development Assistance (ODA)
- 2) **Geographic Window** – Window 2
implemented in one of the following three Conference of Parties (COP) hosting countries:
Brazil, Türkiye or Ethiopia
- 3) **Latin America and the Caribbean Window** – Window 3
in a country within the Latin America and the Caribbean region eligible to receive ODA
- 4) **Asia and the Pacific Window** – Window 4
in a country within the Asia and the Pacific region eligible to receive ODA

For windows 1 to 4: A2D Facility grant support is in the amount of **USD 1 to 5 million**

AND must fall under at least one of the following 4 thematic areas:

- **critical minerals**
- **clean hydrogen**
- **smart energy**
- **industrial decarbonization**

A2D Facility 3rd Call for Proposals

5) Larger-Scale Demonstration Projects Window – Window 5

significantly larger size and with greater “lighthouse” effects and transformational impacts

For window 5: A2D Facility grant support is in the amount of **USD 15 to 20 million**

AND must fall under at least one of the following 3 thematic areas:

- **critical minerals**
- **clean hydrogen**
- **industrial decarbonization**

A2D Facility 3rd Call for Proposals

Each funding window 1 to 5 will be **evaluated and ranked on a window by window basis and separately within the window by thematic areas**

UNIDO reserves the right to:

- move a proposal to a different window where a proposal is submitted into a window that UNIDO deems to be less relevant than another window
- re-badge the thematic area of a received proposal where the thematic area stated in a proposal is deemed by UNIDO to be less relevant than another thematic area

The applicant must confirm acceptance of the above

A2D Facility 3rd Call for Proposals

Implementation time frame of the A2D Facility project:

around **2.5 to 4 years** implementation timeframe

Proposal must attach an **Implementation timeframe** which ensures that the A2D Facility-funded part of a demonstration project is completed **no later than 14 December 2030**

No set funding caps for each window and/or thematic area

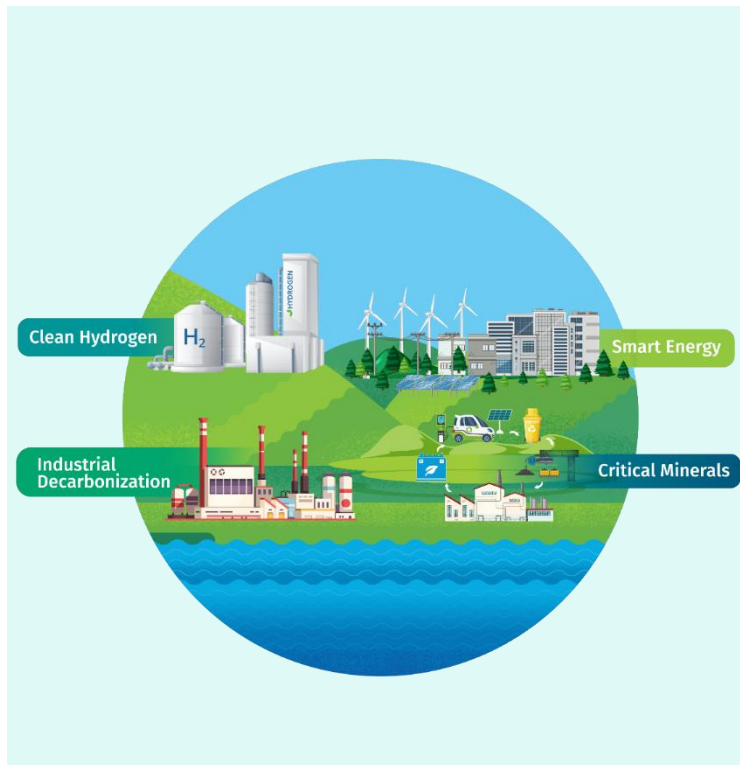
The **total grant amounts** awarded and **number of funding grant beneficiaries** under each window and thematic areas **depend on the results of the evaluation** (quality of the proposals etc.) of the respective window(s) and/or thematic areas and will be determined after final evaluation (ranking)



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Evaluation of the Proposals & Matters to be considered



Evaluation of Grant Proposals

A **Grant Evaluation Committee (GEC)** is formed comprising of UNIDO experts from side of administration as well as various technical departments.

Main stages of the Evaluation:

- **Preliminary Examination**
- **Technical Evaluation**
- **Financial Evaluation**
- **Ranking**

UNIDO reserves the right to assess the capacity of the grant applicants in all terms throughout the entire evaluation process

Preliminary Examination

ELIGIBILITY CRITERIA (mandatory)

1. **Majority of components and/or individual activities and/or sub-activities must adhere to the in-scope activities** (out-of-scope activities, if any, will be taken out)
2. **In a developing country eligible to receive Official Development Assistance (ODA)**
3. Both **overseas and local innovative solutions are eligible for support**, but the innovative solution must be **at the later-stage demonstration phase** of the innovation cycle (i.e. not at the pilot-testing phase)
4. Only **one demonstration project in one developing country**
5. Proposals must be submitted to **only one window**

Submissions to multiple windows by the lead applicant, or where the same project proposal is submitted to same or different window(s) by other consortia members will be rejected

Lead applicants cannot submit more than one project proposal (whether for the same or for different projects), either as the lead of another proposal or as a consortium partner of another proposal

Preliminary Evaluation

ELIGIBILITY CRITERIA (mandatory)

6. All proposals must partner with **at least one local organization in the developing country where the demonstration project is being implemented**

Consortium proposals are encouraged

Note: UNIDO will only sign the Grant Agreement with one company (= the lead company)

- If lead applicant is from a developing country where the demonstration project will be implemented, this condition is met automatically
- Locally registered branches or subsidiaries of international companies (= lead organization) located in the implementation country, do not qualify as a local partner organization, even if registered as a separate company or organization in the country
- Lead grant applicants or consortium members may not submit, or be formally part of, more than one grant proposal [on its own and/or separately as a joint venture partner/consortium member (except as a declared sub-contractor)]
- Applicants that are part of a holding company/group must disclose the name and country of registration of the parent entity. Multiple entities within the same economic group i.e. global/holding/mother company or similar [legally distinct entities within a single economic group] are not permitted to submit separate proposals or participate in multiple proposals either as lead applicants or consortium members.

Grant applicant's responsibility to adhere to above to avoid disqualification

- Cofinancing/co-funding entities are exempt from the above restrictions

Preliminary Evaluation

ELIGIBILITY CRITERIA (mandatory)

7. Must fit into **at least one of the thematic areas**
8. Submission into **only one funding window**
9. Lead organizations/entities and/or consortium partners **awarded a Grant Agreement under the previous A2D Facility Calls for Proposals** are **not allowed to participate** (on their own, as lead grant applicant or as a consortium partner of another lead applicant)

Cofinancing/co-funding entities having contributed to one or more awarded grant proposals of previous A2D Facility Call for Proposals are exempted from the above.

10. Applicant must be **registered as a legal entity** (private companies, NGOs, public sector agencies/organizations, universities, governmental or intergovernmental organizations or similar regardless of country of registration) and authorized to enter into contracts/agreements with UNIDO (a minimum of 3 years in business).

Certified copy of their Certificate of Incorporation

Preliminary Evaluation

ELIGIBILITY CRITERIA (mandatory)

11. Financial capacity:

- submit **independently audited financial reports for the last three (3) years** as well as a completed Rating Report (e.g. D&B or similar), if available
- submit a filled-in and signed **UNIDO Financial Statement and Certification Form** (Annex V).
- confirm availability or readiness to open a **dedicated USD bank account** and filled in **Bank Information Form/BIF** (Annex VI).
- confirm readiness to provide a **bank guarantee for advance payment(s)**, if requested by UNIDO at a later stage

12. Exclusion of funding and Protection of Data:

Adherence to **UNIDO Policy on Exclusion from Funding** and
UNIDO Policy on the Protection of Personal Data

by completing and signing the **UNIDO Statement of Confirmation form** (Annex VII)

Technical Evaluation

TECHNICAL EVALUATION CRITERIA

- **Seven Technical Evaluation criteria** [detailed description of scoring per criterion in the CfP]

1. Objectives and activities
2. Scalability and “lighthouse” effects
3. Additionality
4. Monitoring, reporting and dissemination
5. Risk Management
6. Environmental and social safeguards (ESS)
7. Gender equality and social inclusion (GESI)

Maximum scores: 94

Minimum scores: 42
to be considered for financial
evaluation

- **Based on scores**

- for criteria 1 to 3: **1 to 18** scores (18 representing highest scoring)
- for criteria 4 to 7: **1 to 10** scores (10 representing highest scoring)
- **scores below 6**: not answered/not addressed sufficiently,
information provided not relevant to the question or insufficient robust evidence
- if **one of the 7 criteria** does **not meet the minimum threshold**,
proposal is **technically not acceptable**

Financial Evaluation

FINANCIAL EVALUATION CRITERIA

- **Three Financial Evaluation criteria** [detailed description of scoring per criterion in the CfP]

1. Leveraging co-financing/co-funding
2. Budget Breakdown
3. Financial and Procurement Management

Maximum scores: 30

Minimum scores: 18
to be considered for ranking

- **Based on scores**

- for criteria 1 to 3: **1 to 10** scores (10 representing highest scoring)
- **scores below 6**: not answered/not addressed sufficiently, information provided not relevant to the question or insufficient robust evidence
- if **one of 3 criteria** does **not meet the minimum threshold**, proposal is **financially not acceptable**

Ranking

- Proposal considered **technically and financially acceptable**
- formula based on % weighting
technical score (70%) and financial score (30%)

Total Score = **Technical Score x 70% + Financial Score x 30%**

- Ranking of proposals determined based on:
total scores **from the highest-scored to lowest-scored proposal**
within each window and per thematic area

RANKING DOES NOT AUTOMATICALLY MEAN THAT A GRANT WILL BE AWARDED

Total grant amounts awarded and **number of funding grant beneficiaries** under each window and thematic areas **depend on the results of the evaluation** of the respective window(s) and/or thematic areas and will be **determined after ranking**

Role of Lead applicant

During tender:

- preparation of the proposal ensuring provision of all documents
- timely registration in UNIDO e-procurement portal and timely upload of proposal documents
- must demonstrate financial strength
Documents such as: audited financial statements, rating report, bank Information, dedicated bank account in USD etc.
- signs the proposal (= Application Form and forms requesting signature)

In case of award:

- signs the Grant Agreement with UNIDO
- is fully responsible and accountable for the fulfillment of the grant agreement vis-a-vis UNIDO
- acts as the focal point for communication with UNIDO (project team as well as procurement team)
- assumes responsibility for monitoring and reporting to UNIDO
- submits the invoices (to allow receipt of the funds after each agreed upon deliverable/milestone)

Note: Distribution of funds within the consortia is to be managed by the lead applicant according to their internal agreement

To be considered

Duly filling out the Micro Assessment form

- Use the drop-down menu in the “Risk Assessment” column, which automatically results in an assigned score in the “Risk points” column. If not done correctly, the form will show an error, as per the picture below.
- If the form has been filled out correctly, a risk score as well as an area risk rating and an overall risk rating is calculated at the bottom of the area
- Please make sure to include remarks and comments

Micro-assessment workbook						
Subject area (key questions in bold)	Yes	No	N/A	Risk Assessment	Risk points	Remarks/comments
1. GRANT BENEFICIARY						
1.1 Is the Grant Beneficiary legally registered? If so, is it in compliance with registration requirements? Please note the legal status and date of registration of the entity.					Error	
1.2 If the Grant beneficiary received United Nations resources in the past, were significant issues reported in managing the resources, including from previous assurance activities.				N/A	Error	
1.3 Does the Grant beneficiary have statutory reporting requirements? If so, are they in compliance with such requirements in the prior three fiscal years?				High Significant Moderate Low	Error	
1.11 Does the Grant beneficiary have any key financial or operational risks that are not covered by this questionnaire? If so, please describe. Examples: foreign exchange risk; cash receipts.		No		Low	1	
Total number of questions in subject area:	11					
Total number of applicable questions in subject area:	11					
Total number of applicable key questions in subject area:	5					
Total number of risk points:	19					
Risk score	1.727					
Area risk rating	Low					

To be considered

- Financial Worksheets - Appendix I to Annex III
 - The disbursement structure is milestone-based payments tied to deliverables
An **activity and deliverable based milestone payment plan** is to be provided
 - first payment is set within a threshold of 10% of the total approved grant amount
 - Requests for receiving funds outside of the distribution schedule are not permissible
- Re-allocation between budget outputs
Budgetary reallocations are allowed only in specific and exceptional cases and only with prior approval from UNIDO.
The administrative budget cannot exceed the 10 % threshold
- Eligible Costs
 - Not all costs are considered as eligible for reimbursement in the framework of the grant funds
 - eligible and ineligible costs can be found under additional information to financial evaluation criteria (Section V Part D of the CfP)

To be considered

- Tax status (VAT):

- Tax exemption to grant beneficiaries or related consortia members (and/or their sub-contractors) **varies on a country-by-country basis.**
- Grant applicants should **inform themselves related to country specific government provisions** and include/consider such information in grant proposal

Note: in most countries invoices for equipment and services from consortia members or sub-contractors to the grant beneficiary are not tax exempted

- Ownership of equipment or assets purchased with grant funds
& related insurance requirements

- Assets and property procured with funds from A2D grant shall be the **property of the grant beneficiary**
- The grant beneficiary shall have **title in said property/asset** and make use of it **solely for the purpose** of implementing the A2D project for the **entire duration** of the grant agreement

Note: grant beneficiaries must therefore ensure appropriate insurance of the equipment throughout the period of the grant agreement - costs to be considered



To be considered

- **Dedicated Bank Account**

- Applicants must confirm [availability or readiness to open a dedicated USD bank account](#) and provide filled [in Bank Information Form](#) (Annex VI)
In case of an existing USD bank account a [dedicated ledger bank account](#) must be provided

- **Bank Guarantee**

- Applicants must confirm [readiness to provide a bank guarantee for advance payment\(s\)](#) if requested by UNIDO at a later stage

End of CfP process/debriefing

Unsuccessful grant applicants are informed through an e-mail

Grant applicants [may ask for more detailed feedback](#) on their proposal
(= what the proposal lacked/was not successful)

UNIDO, as per Grants Manual provision, foresees a protest procedure.

The details of the protest modalities are to be found in the Grants Manual

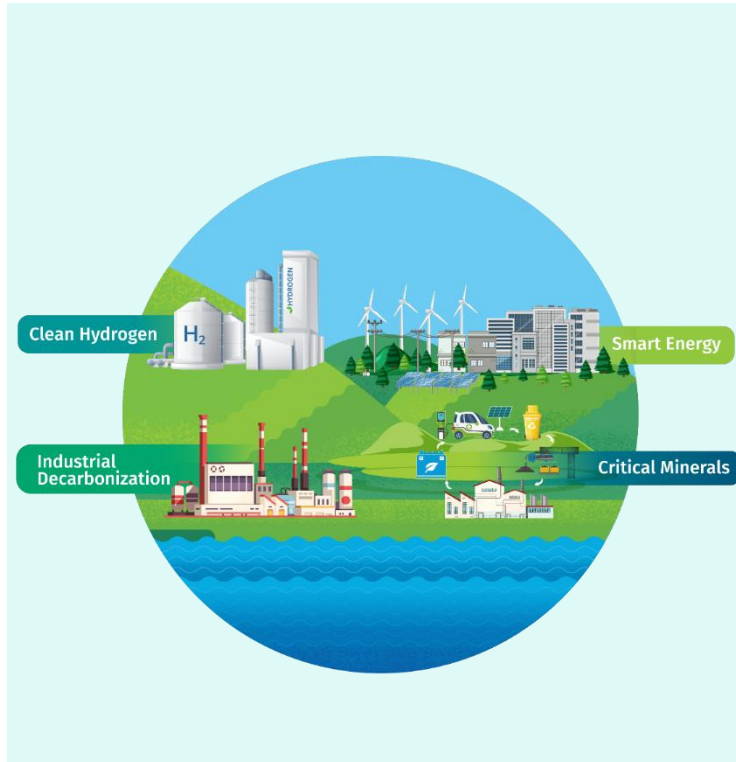
NOTE: a formal protest is not for the purpose of receiving a debriefing but a [legal action](#) in case of an applicant believing in violation of the process



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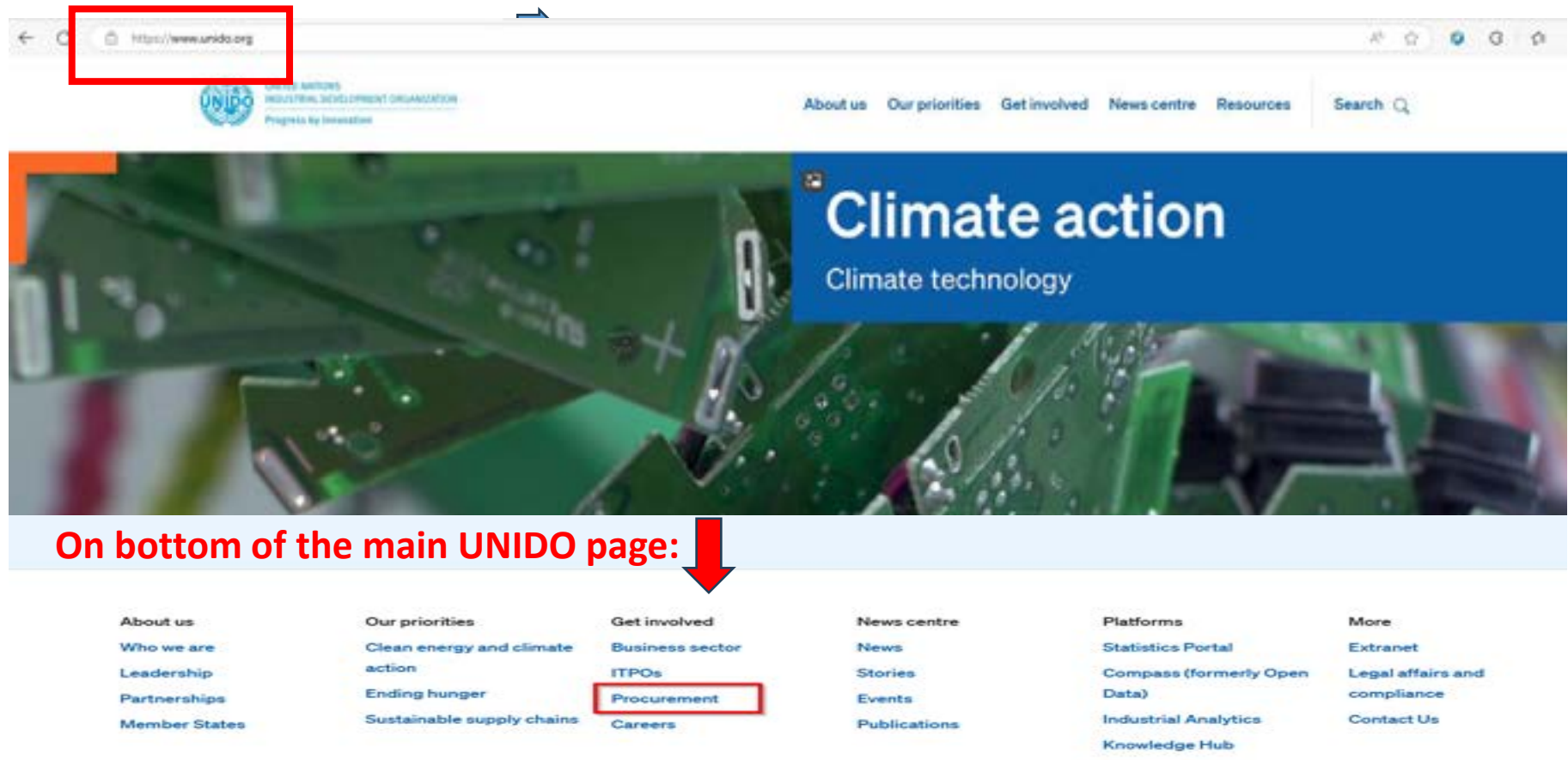


Submitting a proposal in the UNIDO eProcurement Portal



UNIDO's eProcurement Portal

Please visit: www.unido.org



The screenshot shows the UNIDO website. At the top, the UNIDO logo and name are on the left, and the A2D logo is in the center. On the right, it says 'funded by: UK Government'. Below the header, there's a navigation bar with links: 'About us', 'Our priorities', 'Get involved', 'News centre', 'Resources', and a search bar. The main banner features a green circuit board background with the text 'Climate action' and 'Climate technology'. At the bottom, there's a footer with six columns of links. The 'Get involved' column has a red box around the 'Procurement' link, with a red arrow pointing to it from the text 'On bottom of the main UNIDO page:'.

On bottom of the main UNIDO page:

About us	Our priorities	Get involved	News centre	Platforms	More
Who we are	Clean energy and climate action	Business sector	News	Statistics Portal	Extranet
Leadership	Ending hunger	ITPOs	Stories	Compass (formerly Open Data)	Legal affairs and compliance
Partnerships	Sustainable supply chains	Procurement	Events	Industrial Analytics	Contact Us
Member States		Careers	Publications	Knowledge Hub	



UNIDO's eProcurement Portal



● Procurement

- Procurement Methods
- Registration in UNIDO's Database
- General Procurement Conditions
- Notices
- Contract Awards
- UN Global Compact
- UNIDO Procurement Manual
- UNIDO Grants Manual

UNIDO Procurement





UNIDO's eProcurement Portal

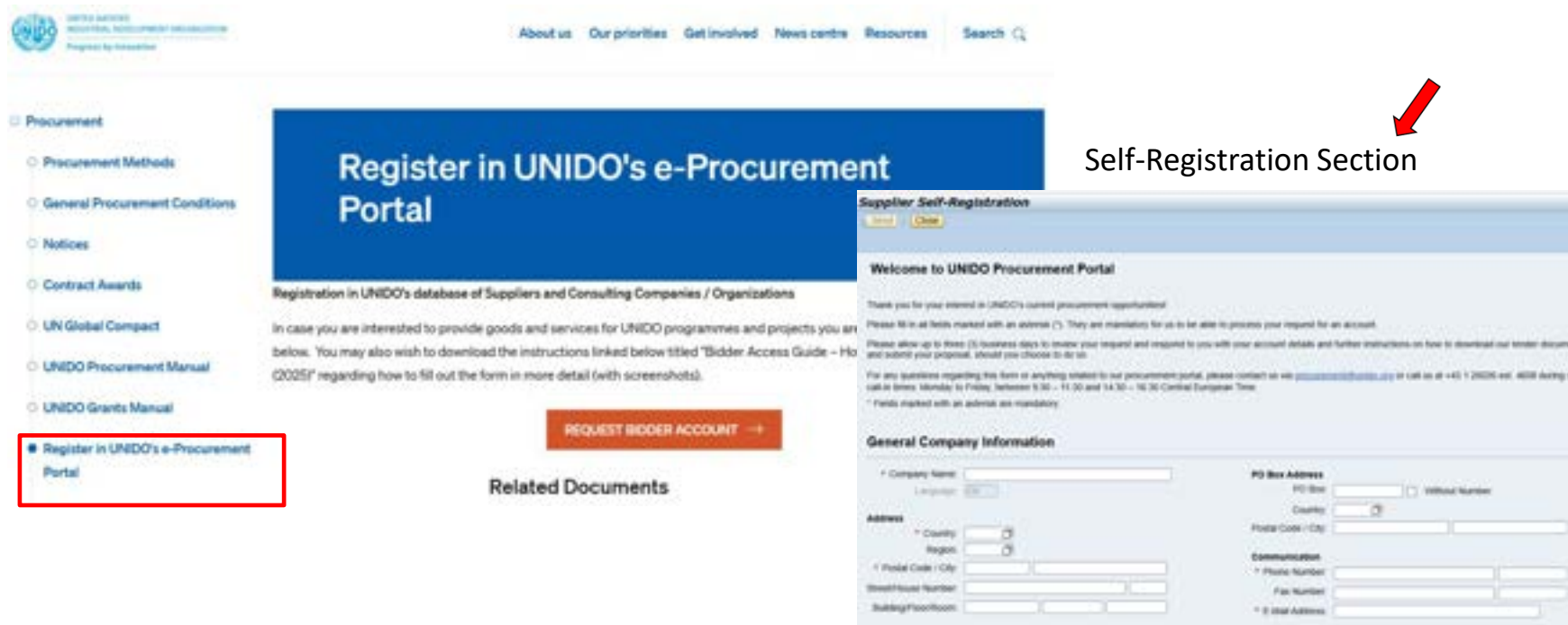


Supply of Equipment related to Training Programme in the Cinema Sector in Addis Ababa Creative Hub, Ethiopia	Ethiopia Ethiopia	17.04.2026 17:00:00 CET	Inv. to Bid (1 env.)	7000008417	Click here for more information
Provision of Services for preparation and development of a study tour in Switzerland/ Germany.	Vietnam Viet Nam	17.04.2026 18:00:00 CET	Request f. Quotation	7000008367	Click here for more information
Provision of services related to Local Planning and Coordination of the Ghana-Italy Circular Economy Dialogue	Ghana Ghana	17.04.2026 23:00:30 CET	Request f. Quotation	7000008432	Click here for more information
Call for Proposals (CfP) for the selection of Grant Beneficiary/ies for the implementation of A2D Facility Demonstration Projects i	Austria	18.06.2026 16:00:00 CET	Call for Proposal	7000008435	Click here for more information
Provision of metal construction works in Park Decks P1-1 and P2-1 at the Vienna International Centre.	Austria	20.04.2026 16:00:00 CET	Inv. to Bid (1 env.)	7000008380	Click here for more information



UNIDO Call for Proposals are also published on the [United Nations Market Place \(UNGM\)](#) [Procurement opportunities](#)

UNIDO's eProcurement Portal



The screenshot displays the UNIDO e-Procurement Portal. On the left, a sidebar lists navigation options: Procurement, Procurement Methods, General Procurement Conditions, Notices, Contract Awards, UN Global Compact, UNIDO Procurement Manual, and UNIDO Grants Manual. The 'Register in UNIDO's e-Procurement Portal' option is highlighted with a red box. The main content area features a large blue banner with the text 'Register in UNIDO's e-Procurement Portal' and a sub-header 'Registration in UNIDO's database of Suppliers and Consulting Companies / Organizations'. Below this, it states: 'In case you are interested to provide goods and services for UNIDO programmes and projects you are below. You may also wish to download the instructions linked below titled "Bidder Access Guide - Ho (2025)" regarding how to fill out the form in more detail (with screenshots)'. A red arrow points to the 'Self-Registration Section' on the right, which shows a 'Supplier Self-Registration' form. The form includes a 'Welcome to UNIDO Procurement Portal' message, a 'General Company Information' section with fields for Company Name, Address, and Contact details, and a 'PO Box Address' section.

If not yet registered, ensure **timely registration** (can take up to 5 business days!)

In case of technical / system issues, contact the UNIDO
procurement helpdesk procurement@unido.org

UNIDO e-Procurement portal

- Submission of the grant proposal **must be via the UNIDO e-procurement portal**
E-mail submissions are not permissible
- It is the applicant's responsibility to make sure that all the documents are **submitted** (not in 'save' mode) **by the deadline. Late submission is not allowed.**
- Consider that eventual technical specificities of computer systems/servers, local electricity problems etc. can delay the uploading process (**do not upload last minute!**)



Communication during CfP exercise

only allowed with UNIDO Procurement Services!

- All clarification requests must be directed **to UNIDO Procurement Services via e-mail or the e-Procurement Portal**
- Clarifications regarding eligibility of an entity or a project will not be entertained





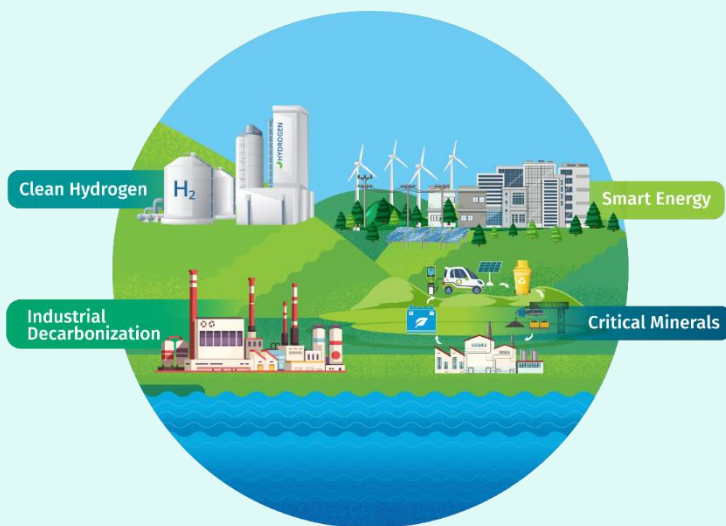
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Thank you for your attention!

Questions & Answers



Questions & Answers

- How to go about revenue generated from the A2D project?

In case the project accrues revenue (from interest or as a result of the implementation), the grant beneficiary shall maintain a record of such income earned and report it to UNIDO within periodic financial reports for UNIDO's review and decision

Utilizing any of the grant funds for other business purposes aside from the implementation of the approved grant activities is not permissible

- How do you treat Intellectual Property Rights?

Each Party retains full and sole ownership of its preexisting copyright, trademark, patent and other intellectual proprietary rights

IPRs resulting out of the A2D project, unless otherwise stipulated in the Grant Agreement, shall become the property of the Grant Beneficiary which is to grant to UNIDO a perpetual, non-revocable, paid-up, royalty-free, non-exclusive and transferable license to copy, distribute and use grant beneficiary project-developed IPR.

Questions & Answers

- Are expenses which occurred before signature of an agreement allowed?

No, only expenses incurred after the signing of the grant agreement are allowed

- Why is a dedicated UNIDO bank account/general ledger required?

This is grant management requirement to ensure accountability of the use of grant funds and a seamless financial review process by preventing the co-mingling of UNIDO funds with other funding



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Progress by innovation



Partners:



A2D Facility Annual Event 2026

Scaling Innovative
Solutions for Sustainable
Industrial Development

**13-16 April 2026,
Bogotá, Colombia**





Agenda

Time	Activity
16:15 – 16:20	Introduction
16:20 – 16:50	Panel Discussion with second cohort of A2D Facility-supported demonstration projects
16:50 – 17:00	Closing Remarks: • Ms. Natascha Annika Weisert, UNIDO Representative in Colombia • Ms. Lara Hirschhausen, Head of International Climate Finance Innovation Programmes, Department for Energy and Net Zero, UK Government • Mr. Alois Mhlanga, Director, Climate Innovation and Montreal Protocol, UNIDO
17:00 – 17:05	Completion of Participant Feedback Form & Next Steps
17:05 – 17:20	Final Closing
17:20 – 17:25	Event Wrap Up



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Partners:



Panel Discussion



Moderator:

Peter Warren

A2D Facility Manager,
UNIDO



Joao Gomes

Co-founder,
MG Sustainable
Engineering AB



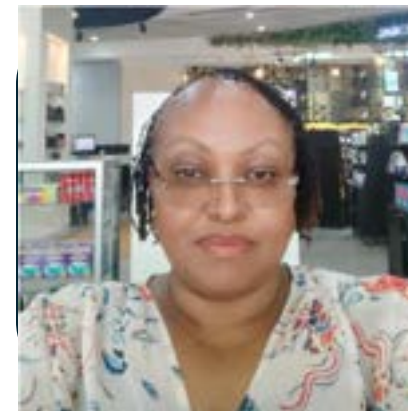
Elisabeth Amadhila

Portfolio Manager,
Ombu Capital (Pty) Ltd



Adrian Clews

CEO/Founder,
Hinckley Ewaste
Recycling Ltd



**Consolata Wothaya
Kanogu Mobisa**

Chief Finance Officer,
Diocese Of Nyeri
Trustee, Nyeri Hill Farm



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Partners:



UK Government



Closing Remarks

**Ms. Natascha Annika Weisert,
UNIDO Representative in Colombia**



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Partners:  UK Government



Closing Remarks

Ms. Lara Hirschhausen
Head of International Climate Finance Innovation
Programmes,
UK Department for Energy and Net Zero,
UK Government



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Partners:  UK Government



Closing Remarks

**Mr. Alois Mhlanga,
Director of Climate Innovation and Montreal
Protocol,
Technical Cooperation and Sustainable Industrial
Development,
UNIDO**



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Event Feedback Form for Participants & Next Steps





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THANK YOU!

