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CircularEconomy4Ghana
Innovation Challenge 2026

INNOVATION TEAMS BOOKLET



CircularEconomy4Ghana
Innovation Challenge 2026

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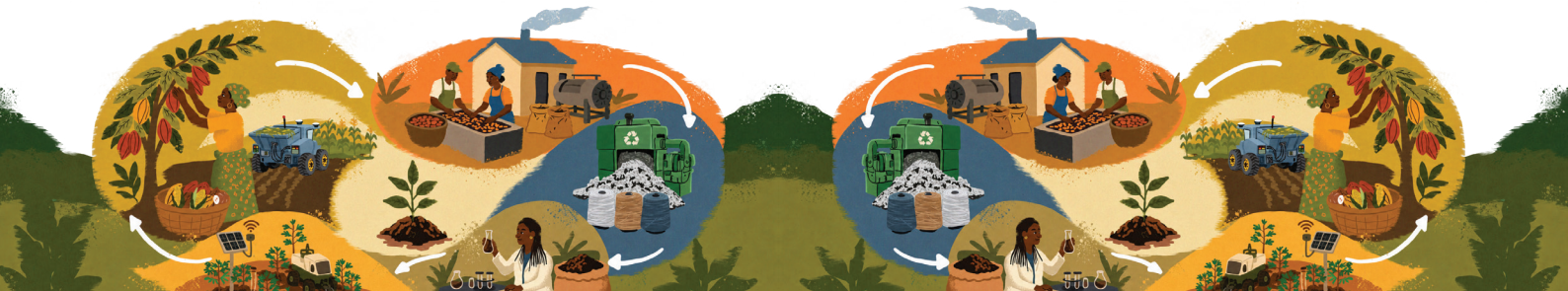
CircularEconomy4Ghana Innovation Challenge 2026

Ghana's agrifood system faces mounting pressure from climate variability, soil degradation, post-harvest losses, rising fertiliser costs, and inefficient waste management. Agriculture remains a cornerstone of livelihoods and economic activity, yet the sector continues to rely heavily on imported inputs while generating significant volumes of underutilised organic waste across farms, markets, agro-processing facilities, and municipalities.

Ghana's textile value chain faces parallel structural inefficiencies. Accra's Kantamanto market alone processes an estimated 15 million garments weekly, discarding up to 40% as unmanaged waste. Like the agrifood system, this waste stream remains largely untapped despite its potential to be transformed into valuable circular inputs — with natural and synthetic fibres offering opportunities to link sectors, reduce environmental impact, and create new economic value.

Within this context of resource pressure and systemic inefficiency, circular innovation and entrepreneurship represent a critical pathway for optimising resource use and building climate resilience. Ghana's innovation ecosystem is expanding, with growing activity in agri-tech, climate tech, and circular economy solutions, yet pathways from innovation to widespread adoption remain constrained by limited access to finance, weak market linkages, and insufficient business development support.

The CircularEconomy4Ghana Innovation Challenge is led by the Alliance of Bioversity International and CIAT through Accelerate for Impact Platform (A4IP) and implemented in collaboration with the International Water Management Institute (IWMI), the United Nations Industrial Development Organization (UNIDO) / ITPO Italy and with E4Impact. Endorsed by the National Entrepreneurship & Innovation Programme (NEIP) of Ghana and supported by the Italian Ministry of Foreign Affairs and International Cooperation. The project is organized as part of the CGIAR Food Frontiers & Security and Multifunctional Landscapes Science Programs.



3Farmate

Ghana

3Farmate promotes more resource-efficient agricultural production by deploying autonomous robots for grain farming, enabling farmers to apply inputs more precisely, optimize resource use, and minimize avoidable field-level waste.

Priority areas

Traceability, Data, and Supply Chain Efficiency for Circular Value Chains



Clinton Anani
Chief Executive Officer



Elijah Ocupualor
Co-founder & CTO

AgriCycle Ltd

Ghana

AgriCycle transforms agricultural waste into certified organic fertilizers through a circular economy model, restoring soil health while reducing waste pollution and synthetic fertilizer dependence in Ghana.

Priority areas

Nutrient Recovery and Circular Soil Fertility Solutions



Deborah Kwakye
CEO and Co founder



Zita Maya
Marketing Team Member

CropGuard+
Data Smart: Farmer first:

Asinyo Agricultural Services and Technology Ltd

Ghana

CropGuard helps smallholder farmers adopt regenerative and climate-smart practices by providing AI-powered advisory, digital traceability and data-driven insights that strengthen circular agricultural value chains in Northern Ghana.

Priority areas

Traceability, Data, and Supply Chain Efficiency for Circular Value Chains, Inclusive Circular Business Models for Youth and Women, Digital Advisory and Knowledge-Sharing Systems for Circular Agriculture, Innovative Financing and Financial Access for Circular Agri-Enterprises



Semanu Kpade
Programs Associate



Rufai Issifu
Partnership and Business Development Officer

BioBond

Ghana

BioBond turns cassava waste into a high quality adhesive for the wood and the paper industry to reduce emissions and waste in Gari processing communities.

Priority areas

Waste Segregation, Collection, and Valorization Systems



Arahamani Tawiah
CEO



Frank Frimpong
COO

CITRABLOOMM

CitraBloomm

Ghana

CN Plus is a plant-based biopesticide developed from agricultural waste, specifically orange peels and neem seeds, both of which are known for their natural pesticidal properties.

Priority areas

Nutrient Recovery and Circular Soil Fertility Solutions



Yuori Ernest Yirsob
Co-founder / CEO



Fidelis Zaagbeb
Co-founder / COO

CSIR-Biofert

Ghana

A solution seeking to produce a nutrient-rich soil amendment by vermicomposting textile waste collected from Kumasi Central Market, blending the resulting vermicompost with farmyard manure (FYM) and fortifying the mixture with dolomite.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Nutrient Recovery and Circular Soil Fertility Solutions, Inclusive Circular Business Models for Youth and Women



Fuseini Issaka
Team Leader



Godfred Yeboah
Senior Technical Officer

DUCKPRO GHANA LIMITED
THE FEED YOU NEED

Duckpro Ghana

Ghana

Duckpro Ghana cultivates Lemna minor using agricultural wastewater to recover excess nutrients while producing a protein-rich feed ingredient for livestock, promoting resource recovery and more sustainable animal husbandry.

Priority areas

Nutrient Recovery and Circular Soil Fertility Solutions



Ernest Sampong Darko
Team Lead



Ophelia Eva Amu Appiah
Production Assistant

DumsFlora Innovations

Ghana

Sustainable symbiotic poultry feed additive made from mushrooms, as an alternative to antibiotic growth promoters, solving the problem of Antimicrobial resistance.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Nutrient Recovery and Circular Soil Fertility Solutions, Inclusive Circular Business Models for Youth and Women



Philip Dumasi
Founder



Dorothy Dedea Somuah
Co-founder

Eastern Freshaura

Eastern Freshaura

Ghana

Eastern Freshaura develops natural edible coatings that extend the shelf life of fresh produce for farmers, aggregators, and households, particularly those without access to refrigeration or plastic packaging. It also upcycles snail shell waste from markets into calcium carbonate for use in animal feed and soil amendments.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Nutrient Recovery and Circular Soil Fertility Solutions, Inclusive Circular Business Models for Youth and Women



Joseph Bowyer
Research and Development Lead



Daniel Sarkodie Banful
Co-founder

EcoHusk Energy

Ghana

EcoHusk Energy transforms rice husks and other agricultural waste into affordable, durable, and smokeless cooking briquettes for households and food vendors in Northern Ghana, providing a more sustainable alternative to conventional cooking fuels.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Inclusive Circular Business Models for Youth and Women



Amina Bimunka Mohammed

Business and Productions Lead



Mashud Imoro

Finance and Logistics Lead

FreshLine Post Harvest Solutions

Ghana

Reina converts Ghana's post-harvest surplus into zero-additive, shelf-stable tomato powder and puree, dried mango chips and pineapple chips and turning harvest surplus into premium, market-ready food products for urban Ghanaian consumers.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Traceability, Data, and Supply Chain Efficiency for Circular Value Chains, Inclusive Circular Business Models for Youth and Women



Abigail Boadu

Managing Director



Wisdom Boadu

Manager (Operations & Innovations)

GOLD COAST TOKOTA

Gold Coast Tokota

Ghana

Gold Coast Tokota transforms textile, plastic and tyre waste into sustainable products, green jobs and circular entrepreneurship opportunities through craftsmanship, innovation and community driven manufacturing.

Priority areas

Innovative Financing and Financial Access for Circular Agri-Enterprises, Digital Advisory and Knowledge-Sharing Systems for Circular Agriculture, Waste Segregation, Collection, and Valorization Systems, Traceability, Data, and Supply Chain Efficiency for Circular Value Chains, Inclusive Circular Business Models for Youth and Women



Kumi-Gyau Samuel
CEO



Mary Seade
Co-founder

GREEN CARBON TECHNOLOGIES SWEDEN AB

Green Carbon Technologies Sweden AB

Ghana

A traceable circular-economy platform that converts suitable textile and agricultural waste into quality-assured biochar and carbon products, safely used in agriculture, land restoration, water treatment, and industry.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Nutrient Recovery and Circular Soil Fertility Solutions, Traceability, Data, and Supply Chain Efficiency for Circular Value Chains, Inclusive Circular Business Models for Youth and Women



Pius Lukong
CEO and Co-founder



Faisal Iddris

Harvora Industries Limited

Ghana

FarmRover is remote controlled nitrate-fertilizer factory on wheels, that makes nitrate fertilizer using only air, water and solar energy.

Priority areas

Traceability, Data, and Supply Chain Efficiency for Circular Value Chains, Nutrient Recovery and Circular Soil Fertility Solutions, Digital Advisory and Knowledge-Sharing Systems for Circular Agriculture



Kenneth Amoakohene
COO



Leslie Owusu Mensah
CEO, Lead Engineer

SoilPulse AI

SoilPulse AI

Ghana

SoilPulse AI serves thousands of farmers across five regions in Ghana, using soil sensors and an AI Agronomist Copilot to deliver instant soil analysis and crop diagnosis via web, mobile, and WhatsApp for over 30 crops.

Priority areas

Digital Advisory and Knowledge-Sharing Systems for Circular Agriculture, Traceability, Data, and Supply Chain Efficiency for Circular Value Chains



Timothy Dzadey
Founder and CEO



Perfect Elinam Agbedzi
Communication Officer

Hullsnovation Limited Company

Ghana

Hullsnovation transforms rice husks and plastic waste into durable, water-resistant plywood, reducing pollution and deforestation while creating green jobs and a circular value chain.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Inclusive Circular Business Models for Youth and Women



Abdul-Rahim Ziblim
Chief Executive Officer



Abdul Ganiu Gbulo
Chief Operations Officer

Jekora Ventures Ltd

Ghana

A scalable, incentive-driven waste valorization model that turns municipal solid and liquid waste into marketable green products while creating environmental and economic value.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Nutrient Recovery and Circular Soil Fertility Solutions



Felix Laryea
Administration Manager



Bubu Kumordzie
Waste Segregation Officer

Merdeo

Merdeo Foods Ltd

Ghana

Merdeo works as a business to business e-commerce platform connecting urban food and hospitality companies to local farmers through our storage houses to provide fresh quality produce affordably. We aim to reduce post harvest loss.

Priority areas

Traceability, Data, and Supply Chain Efficiency for Circular Value Chains, Nutrient Recovery and Circular Soil Fertility Solutions, Digital Advisory and Knowledge-Sharing Systems for Circular Agriculture



Nana Kofi Sarpong
Founder & CEO



Emmanuel Donkor
Co-founder & CTO

Mosdeen Trade Ghana Company Limited

Ghana

The organization transforms cocoa pod husk waste into potash and combines it with locally sourced palm kernel oil and shea butter to produce branded black soap gel. This approach modernizes traditional soap for formal markets while creating added value within cocoa value chains.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Inclusive Circular Business Models for Youth and Women, Traceability, Data, and Supply Chain Efficiency for Circular Value Chains



Osman Wiredu
Founder & CEO



Mateen Wiredu
Operations Manager

TRASH SMART

TrashSmart

Ghana

TrashSmart's app schedules and tracks collection of plastic and organic waste from Kumasi schools, turning plastic into sanitation bricks and diverting organic waste toward composting and soil fertility use.

Priority areas

Waste Segregation, Collection, and Valorization Systems, Digital Advisory and Knowledge-Sharing Systems for Circular Agriculture, Traceability, Data, and Supply Chain Efficiency for Circular Value Chains, Inclusive Circular Business Models for Youth and Women



Afua Asarebea Opare-Baidu
Founder and CEO



Michael Acheampong
Team Member

23 OCTOBER (FRIDAY) DAY 5: PITCH DAY & CLOSING	
06:00 – 07:00	Breakfast (packed) + check-out / Bus departs at 6:30 am
07:00 – 08:30	Travel to Lancaster Hotel (Luggage on bus) / Venue setup, guest registration and jury briefing
09:00 – 09:15	Welcome session + High-impact video + Partner remarks
09:15 – 10:00	High-level speeches
10:00 – 10:30	Coffee Break / Group Photo
10:30 – 12:00	Pitch x 20 (3 min) + Jury feedback
12:00 – 13:00	Lunch & Networking
13:00 – 14:00	Announcement of Selected Teams, Certificates & Awards Closing Remarks & Ceremony

The project is endorsed by

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IWMI
International Water Management Institute

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UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

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INVESTMENT AND TECHNOLOGY PROMOTION OFFICE
ROME, ITALY

E4 IMPACT
FOUNDATION

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