GCF Approaches to Implementation of Climate Action for Agriculture and Food Security

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GCF Participation in workshop in SB62

GCF portfolio overview

Total projects

297

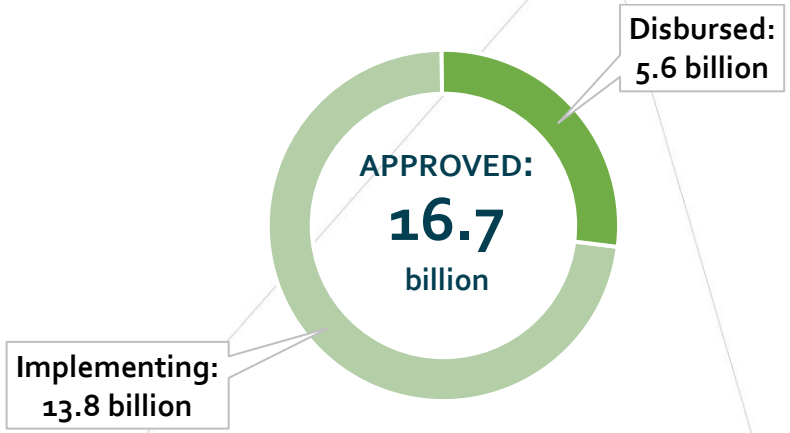
GCF funding

16.7B

Co-financing

46.5B

GCF Approved and disbursed funding



GCF FINANCE IN ADAPTATION RESULTS AREA(ARA)

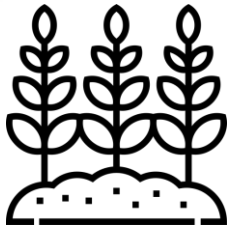
- 2.6B — ARA1 Livelihoods of people and communities
- 2.2B — ARA2 Health, food and water security
- 1.8B — ARA3 Infrastructure and the built environment
- 1.4B — ARA4 Ecosystems and ecosystem services

GCF FINANCE IN MITIGATION RESULTS AREA(MRA)

- 3.3B — MRA1 Energy generation and access
- 1.4B — MRA2 Low-emission transport
- 2.1B — MRA3 Buildings, cities, Industries & appliances
- 1.9B — MRA4 Forests and land use

As of June 11th, 2025 Unit: USDeq

GCF portfolio: Agriculture and food security projects



Agriculture and food security projects

131

GCF funding

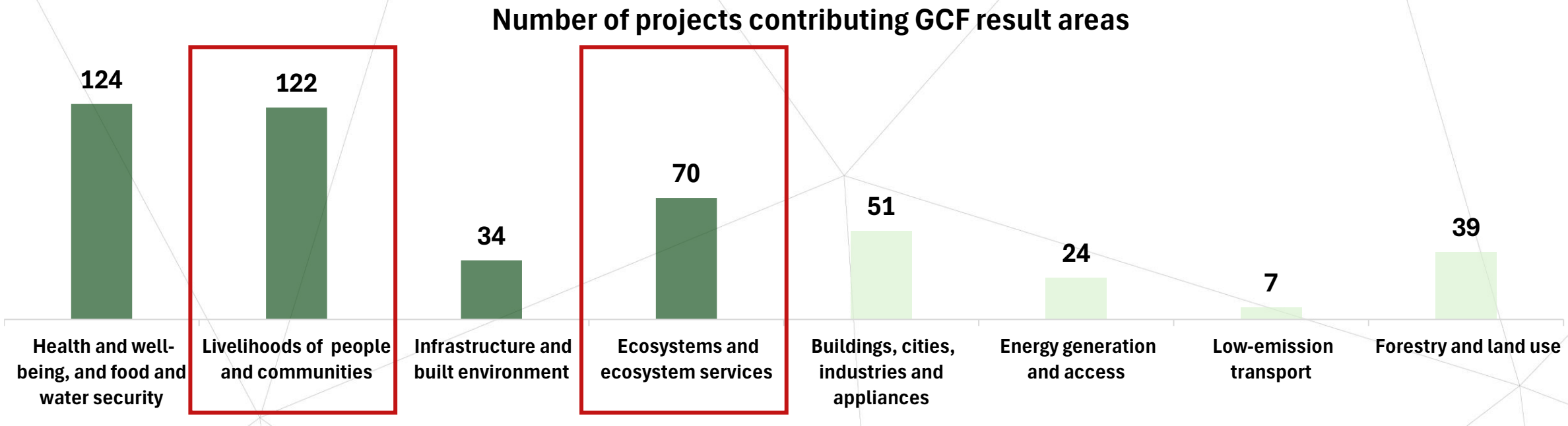
6.24B

Co-financing

11.85B

Systemic approach - Across GCF Result Areas

- Agriculture and Food security projects are naturally mapped against the Health, Well Being and Food and Water security result area.
- Intricate and strong links of agriculture projects to the “Livelihoods” result area. Most rural livelihoods are agriculture-based. **Human Systems**.
- Agriculture also intricately linked to natural resource management and ecosystems. GCF addresses this, as seen below. **Natural Systems**.



Systemic approach within Agriculture and Food Security projects: Value Chains

104

Value-chain related projects

(as of February 2025)

"Developing and improving agricultural **value chains** constitutes a holistic and systemic implementation approach, addressing multiple interconnected components of the agricultural system, thereby promoting long-term transformation"

Livelihood Diversification

Increased Income Opportunities

Women / Youth Empowerment

Enhanced Credit Access

Improved Market Access

Climate-resilient Agriculture

Holistic Approach to Agricultural Value Chains in GCF Projects

Production

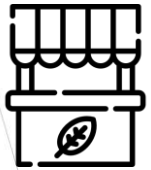
- **Climate-resilient agricultural practices** to mitigate climate-related risks (e.g. drought-/ flood-resilient seeds, nursery, crop diversification, land restoration)
- **Climate-smart technology** to increase productivity (e.g. agro-meteorological monitoring systems, soil and water management infrastructure, precision farming tools)

Processing

- **Improved processing equipment and facilities** for efficient value addition (e.g. climate-resilient storage, renewable-energy powered refrigeration facilities)
- **Recycling agricultural biomass and water** to optimize the use of resources and minimize post-harvest losses (e.g. feeds)

Distribution

- **Uptake of sustainable packages and materials** to reduce waste from the supply chain
- **Efficient transport** to reduce emissions and pollution (e.g. energy-efficient transport, relocation of processing facilities)



Consumption

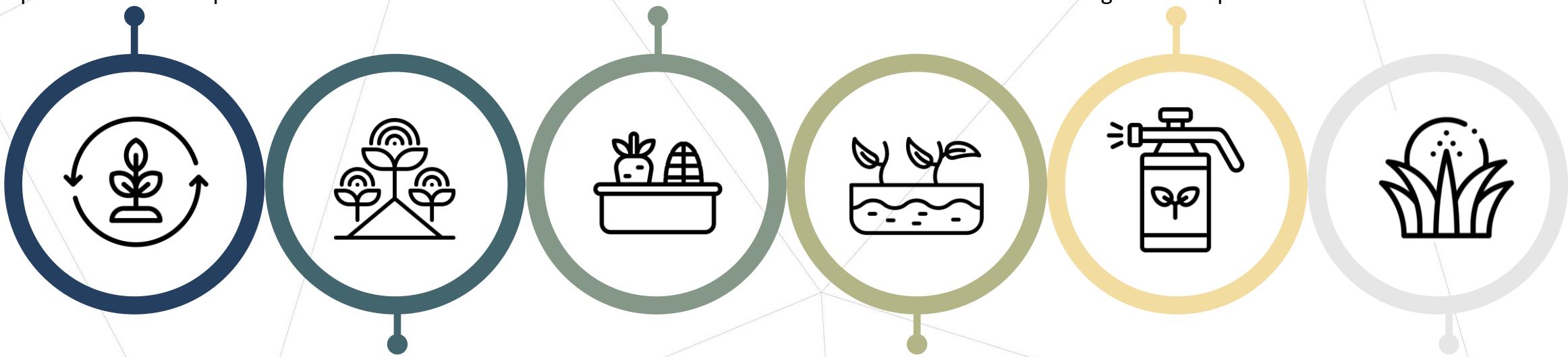
- **Eco-certification and eco-labeling** to enhance traceability of products and increase their profitability at all stages of the value chain
- **Knowledge sharing platform** to disseminate systematic knowledge and trainings to build capacity of communities, increasing their access to market

Innovative Agricultural Technologies and Approaches for Holistic Solutions – Harnessing natural systems

Regenerative Agriculture
Restoring and regenerating degraded productive landscapes

Farm to Table Solution
Promoting circular economy

Biological Control Measures
Controlling pest population and damage without pesticide



Agroforestry Solutions & Diversified Farming Systems
Including functional biodiversity at multiple spatial and/or temporal scale

Soil Carbon Sequestration & Management
Removing CO2 efficiently from the atmosphere

Emission Reductions from Agricultural Landscape
(e.g. Rice, Livestock)

Results for systemic change in Agriculture and Food Security Projects

	Indicator	Unit	Cumulative achievement	Lifetime target	Achievement %
Adaptation	Direct beneficiaries	# of people	21.78M	178.5M	12%
	Indirect beneficiaries	# of people	50.5M	441M	11%
	Climate-Resilient Water Security	# of people	0.595M	16.1M	4%
	Climate-resilient Livelihood options	# of people	22.71M	61.2M	37%
	Ecosystem restoration	Hectares	11.6M	42.98M	27%
Mitigation	GHG emissions reduced	Tons of CO2 equivalent	15.2M	873.8 M	2%
	Energy Efficiency	MWh	0.675M	18.49M	4%
	Low-Emission Energy Capacity	MW	63.75	2040	3%

Agriculture sector projects in GCF produce a system of results straddling **human systems** (livelihoods, water security for beneficiaries) and **natural systems** (Ecosystem restoration).

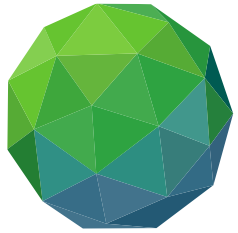
GCF results in agriculture and food security straddle **Adaptation** (number of people reached, livelihoods, water security) and mitigation (GHG emissions reduced and energy efficiency).

Concluding Remarks

- Holistic approaches to the implementation of climate action in agriculture and food security require recognition of systemic, cross-sectoral linkages in programme designs. Recognition of the nexus between human and natural systems.

- The foreseen results of GCF interventions in agriculture and food security are systemic in nature. Early results are encouraging, but caution is advised.

- Climate change does not wait for us. Taking a holistic approach to results in agriculture and food security is imperative for enhanced adaptive capacity, increased resilience and reduced vulnerability.



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Raising
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Empowering
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