

DRF for Agriculture and Climate Resilient Livelihoods

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Muldersdrift, South Africa

Session 3: **Climate Finance for Agriculture Value Chains**

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The rationale and trends on climate finance in agric value chains



Why Climate Finance for Agriculture value chains



Adaptation finance to build resilience and face devastating impact of climate on agriculture value chains



Need more Private finance as Public funding to be more and more under pressure



Moving toward a more pro-active approach to climate finance to support agriculture value chains



Climate Finance instruments for agriculture value chains

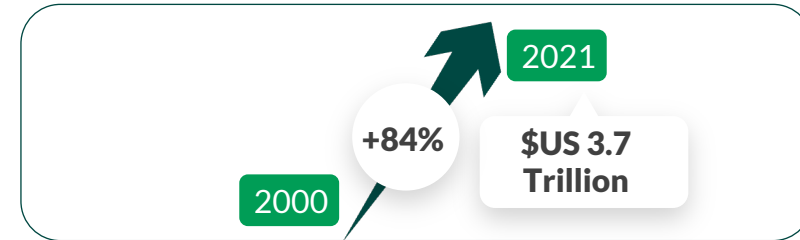


Why Climate Finance for Agriculture value chains

Africa
workforce
employed in
agriculture

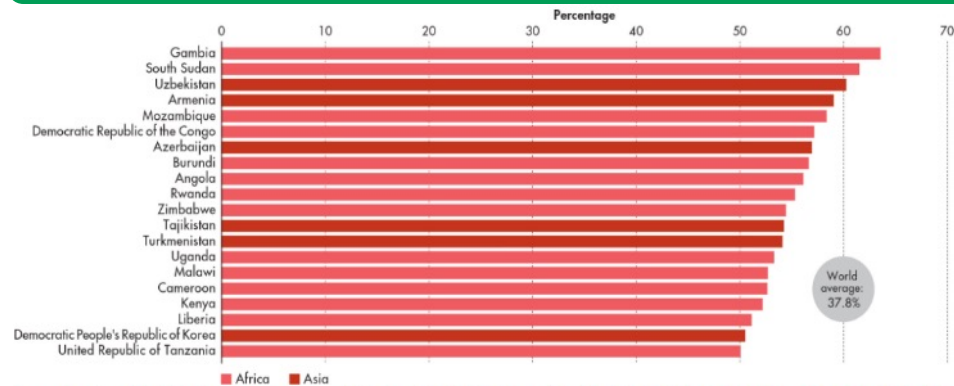


Agriculture value added



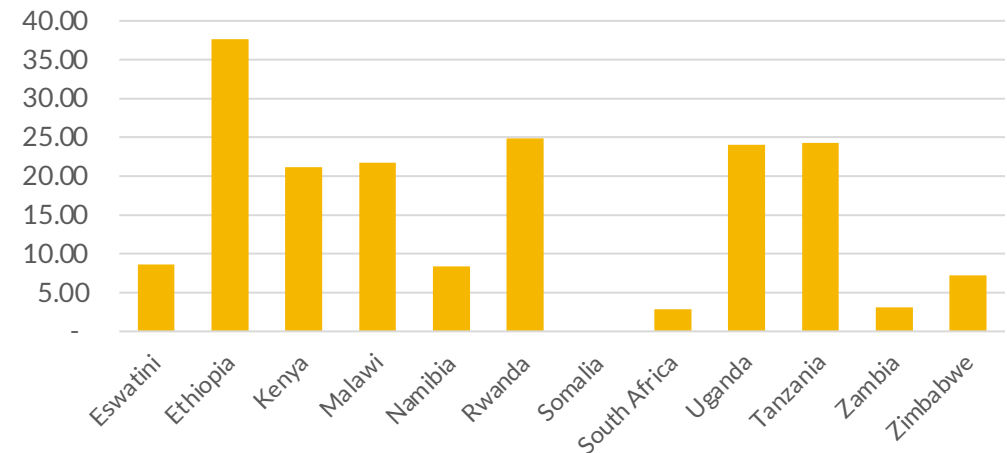
Agriculture value added went up 84% between 2000 and 2021, to \$US 3.7 trillion

Share of women in agriculture and fishing employment
top countries (2021)

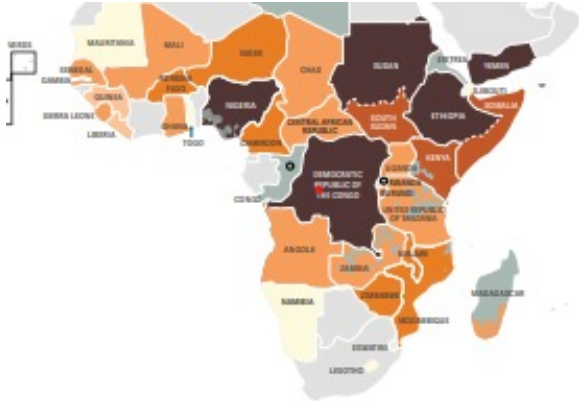


Source: Based on FAO, 2023. Employment Indicators: Agriculture. In: FAOSTAT. Rome. [Cited October 2023]. <https://www.fao.org/faostat/en/#data/OEA>
Download: <https://doi.org/10.4060/cc8166en-fig12>

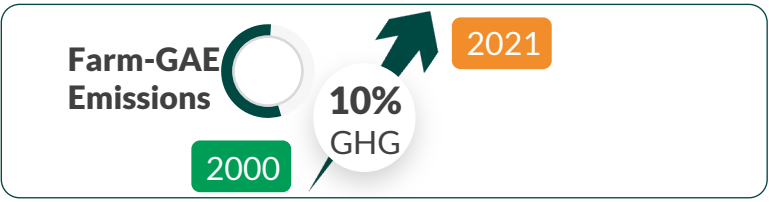
Agriculture, forestry, and fishing value added
(% of GDP)



Adaptation finance to build resilience and face devastating impact of climate on agriculture value chains

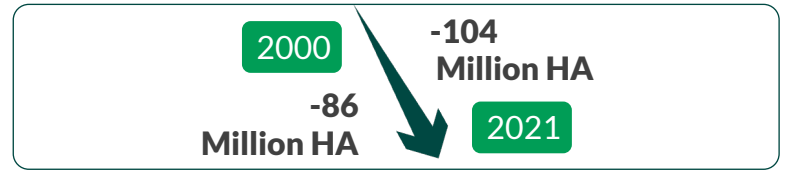


Greenhouse gas emissions from Agrifood systems



Greenhouse gas emissions from agrifood systems grew by 10% between 2000 and 2021. Farm-gate emissions account for nearly half of them.

Agricultural and forest land decline



Between 2000 and 2021, agricultural land declined by 86 million ha— roughly half the size of Iran — while forest area declined by 104 million ha — about the size of Mauritania.

IMPACT ON AGRICULTURE PRODUCTIVITY:

- Major staple crops in Africa expected to have 8%-22% lower yields by 2050
- Agriculture losses** → \$US 3 trillion losses (Exports)/ Food security issues
- Pushing commercial farmers to subsistence farming**
- Impact on budget:** Global food prices staying high, averaging 123.9 points
- Rising risk of food insecurity:** Estimated 65.6 million people in East Africa and 49 million in West Africa



Increases in operating expenditure since pandemic and Ukraine invasion for agri-businesses and farmers



High prices of agriculture input squeezing farmers' capacities for investments in irrigation, technology, warehouses, machinery



Disruption of food and agriculture value chains

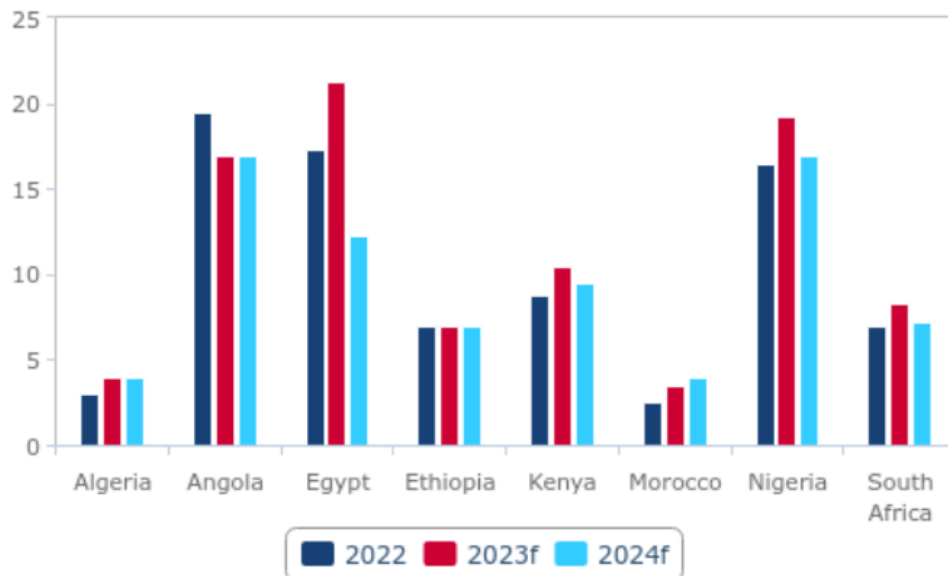


Higher reliance on food imports

Need more Private finance as Public funding is more and more under pressure

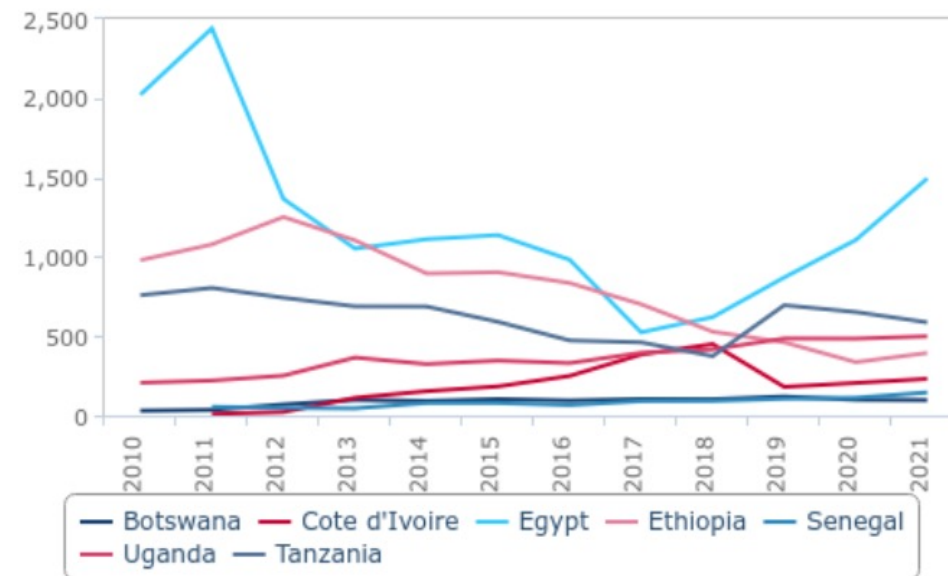
Financial Conditions Set To Remain Tight in 2023, Weighing on Agricultural Investment

Central Bank Policy Rate, % eop



f = BMI forecast. Source: National Sources, BMI

Significant Variation in Access To Agricultural Credit Across Africa Credit to Agriculture, \$US m. (2010-2021)



Source: FAO, BMI



**Toward a more proactive
approach to climate finance to
support agriculture value chains**



Understanding the scale of public and private finance needs for agriculture



Agro- Value chains Crops + Commodities/

- Understand risk/
Climate risk profile /
ESG considerations
along the value chains
- Adaptation investments
at national and sub-
national levels
- s
- Integration in vertical /
horizontal in green
global and regional
agriculture value chains
- Agriculture land
management systems



Agro- Infrastructure

- Agriculture climate
investments (irrigation
systems)
- Farm energy
systems/Integration in
bio-mass energy supply
chains
- Warehouses
- Monitoring/ verification
systems
- Agro-industrial parks



Farming and Agro- Industry/ Agro- forestry

- Climate Smart
Agriculture approaches
and investments
- Adaptation investments
at micro-level/ farming –
SME level/ meso-level
- investments



Policies and Interventions

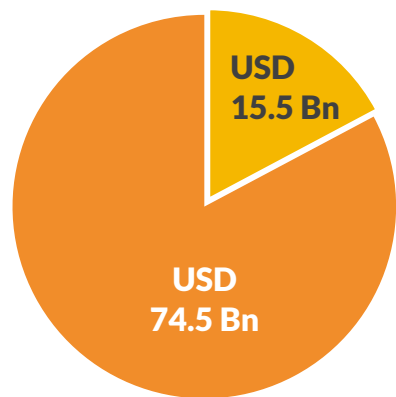
- Agri policies and
priorities: Productivity/
Food security
- NDC/ Adaptation policy
and expenditure
- Land use/ deforestation
and linked to agricultural
activities
- Agriculture subsidies



Urgent need to adopt a more proactive approach to unlock private capital for climate investments in Agri-value chains



Sub-Saharan Africa



83% of financing in Sub-Saharan Africa unmet



Adaptation Finance

Needs to move towards a more proactive approach to adaptation finance to reduce agriculture losses, improve resilience of value chains players, ensure food security



Mitigation Finance

Needs to have a proactive approach on mitigation finance to reduce emissions, soil degradation, land use, impact on environment and bio-diversity



Private capital flows in agriculture value chains

Needs to move from heavy reliance on subsidies and grants in agriculture value chains towards blended finance and market-based instruments

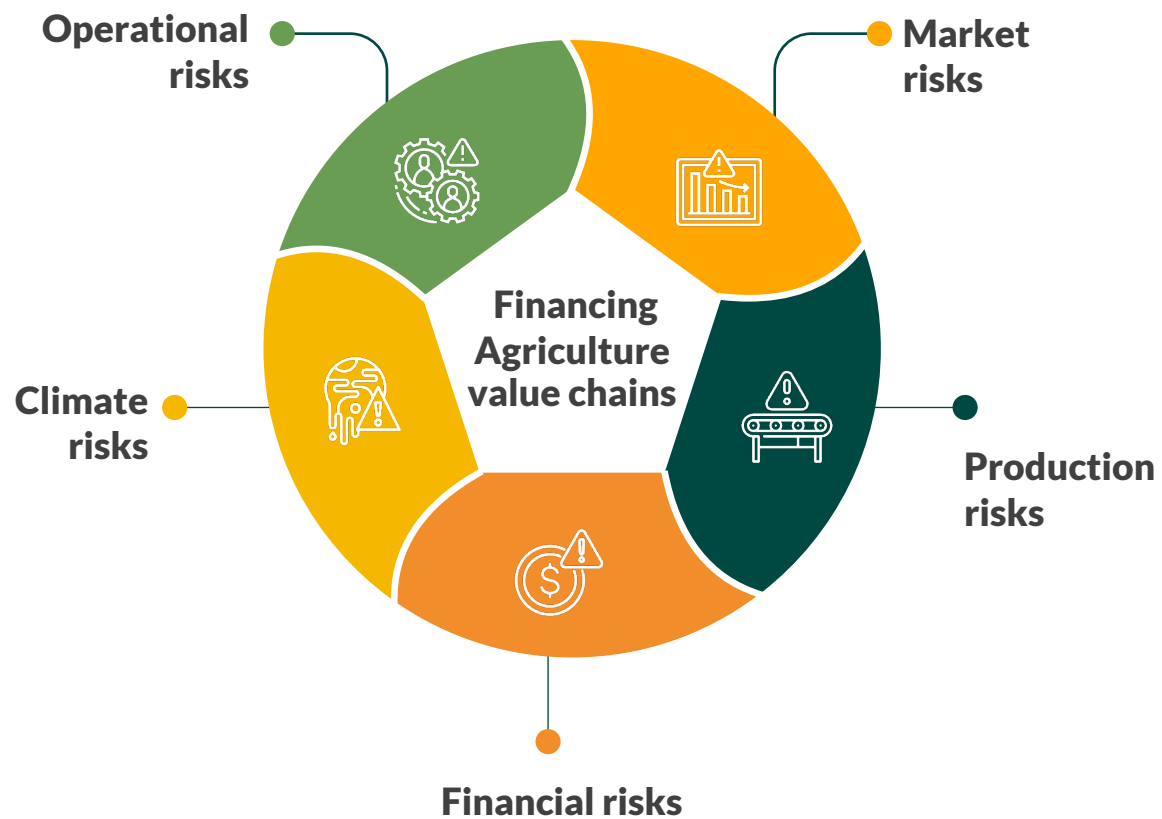


Mainstream climate finance in public finance interventions

Governments to play a key role in planning, risk mitigation, unlocking private capital to complement public funding, and monitoring/ verification aspects



Gov: Understanding the constraints to unlock the supply of finance for Agri-value chains



- Basel capital requirements
- Financial health
- Risk Weighted assets
- Return on equity
- Capacities to absorb risks
- Capacities to manage the risk
- Capacities to transfer the risks

Enabling framework to mobilize climate finance for agriculture value chains



Sustainable finance framework



Building skills and capacities of financial intermediaries for agrifin



Alignment of banking, NBFIs, Capital markets regulators with Agri-fin specificities



Increasing transparency and availability of agriculture and climate related data



Mainstreaming climate finance in Agri-fin



Develop agriculture climate finance tools and instruments

Ensure alignment with



Economic, Agriculture, and Financial inclusion policies



Disaster Risk Financing and risk insurance



International carbon finance market

NBFI refers to MFI , Fintech , Agtech, Venture Capital, Capital markets

Ensuring that Agri finance is included in the Climate finance landscape

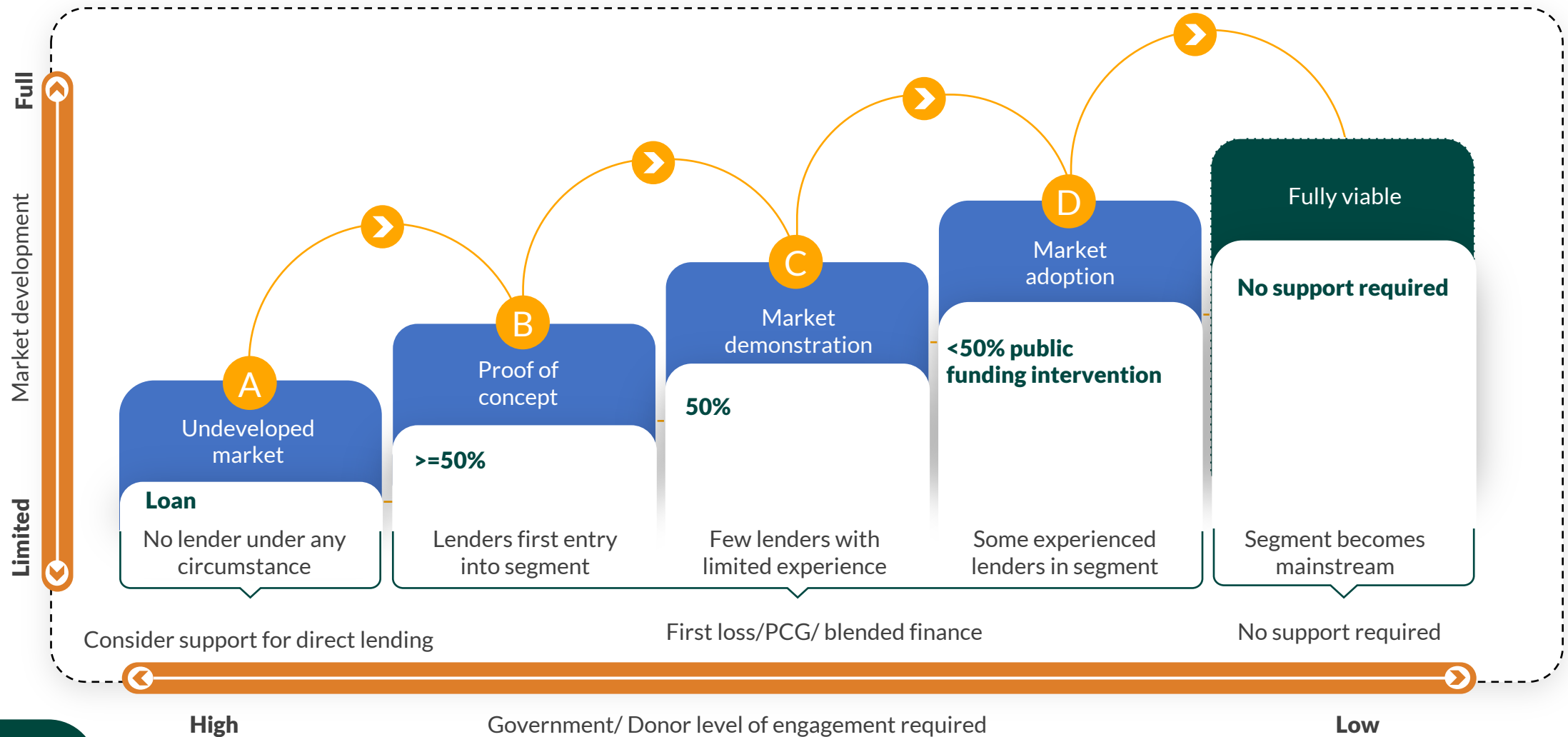


A man in a plaid shirt is looking at a tablet in a field. The image is overlaid with a dark green semi-transparent filter.

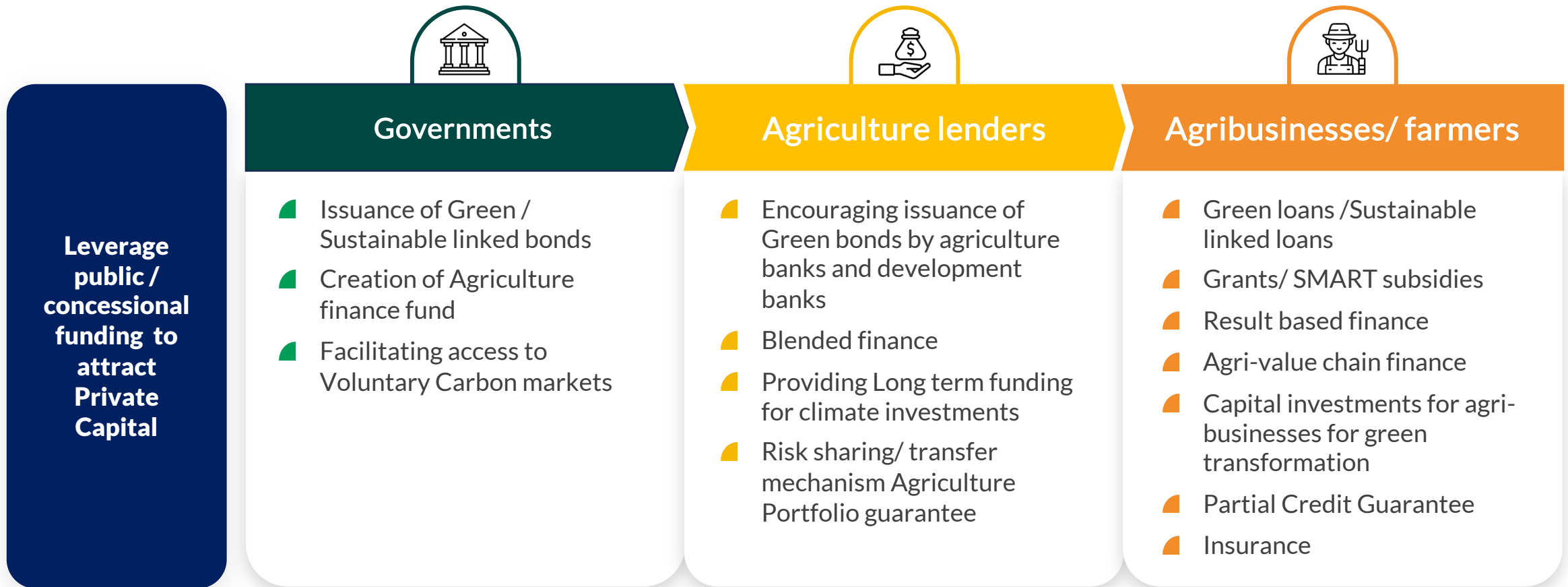
Trend in public financial interventions



Public intervention to stimulate the supply of private and blended climate finance for agriculture value chains



Climate Finance instruments for agriculture value chains (stimulated with the support of Governments)



Setting up Agriculture adaptation and mitigation funds



Objectives

- Long term finance to lenders
- Equity/capital to agri-businesses
- Result based finance for mitigation approaches
- Technology Adoption



Products

- Line of credit
- Equity/capital
- Co-investments/ co-lending
- Technical assistance
- Partial credit Guarantees



Principles

- Should not rely fully on public funding
- Should aim at unlocking private finance
- Sustainability at the center
- Private - public Governance

It is
already
happening

Prevalent in Asia and starting in Africa



Unlock Long Term Climate Finance Through Bonds Issuance



- Sovereign sustainable linked bonds with KPI linked to Agriculture/ livestock and SMEs
- Green bonds for agriculture banks, MFIs, development banks
- Funding to facilitate green bonds issuance



Channel to attract
International
investors



Ministerial
coordination
especially for
sovereign issuance



Certification
process of the green
/ agriculture bonds



Options to Access
climate finance



Promotes green
or sustainable
domestic financial
markets

**It is
already
happening**

Prevalent in Asia (China, Thailand, Vietnam, Cambodia, Mongolia, India etc..) and Latin America (Brazil, Chile, Peru) and starting in Africa with (Rwanda, Benin)
Support with creation of green bonds framework, issuance of agriculture lenders and sovereign issuance for agriculture



Leverage value chain to catalyze climate finance for SMEs and farmers



Leverage digital payments and technology for traceability and better supply climate finance



Adoption of ESG and climate principles in agriculture value chains
(becoming requirements for exports in EU and many countries around the world)



Carbon neutral commitments linages with local / regional / global value chains



Leverage Fintech and data for green loans and sustainable linked loans across agriculture value chains



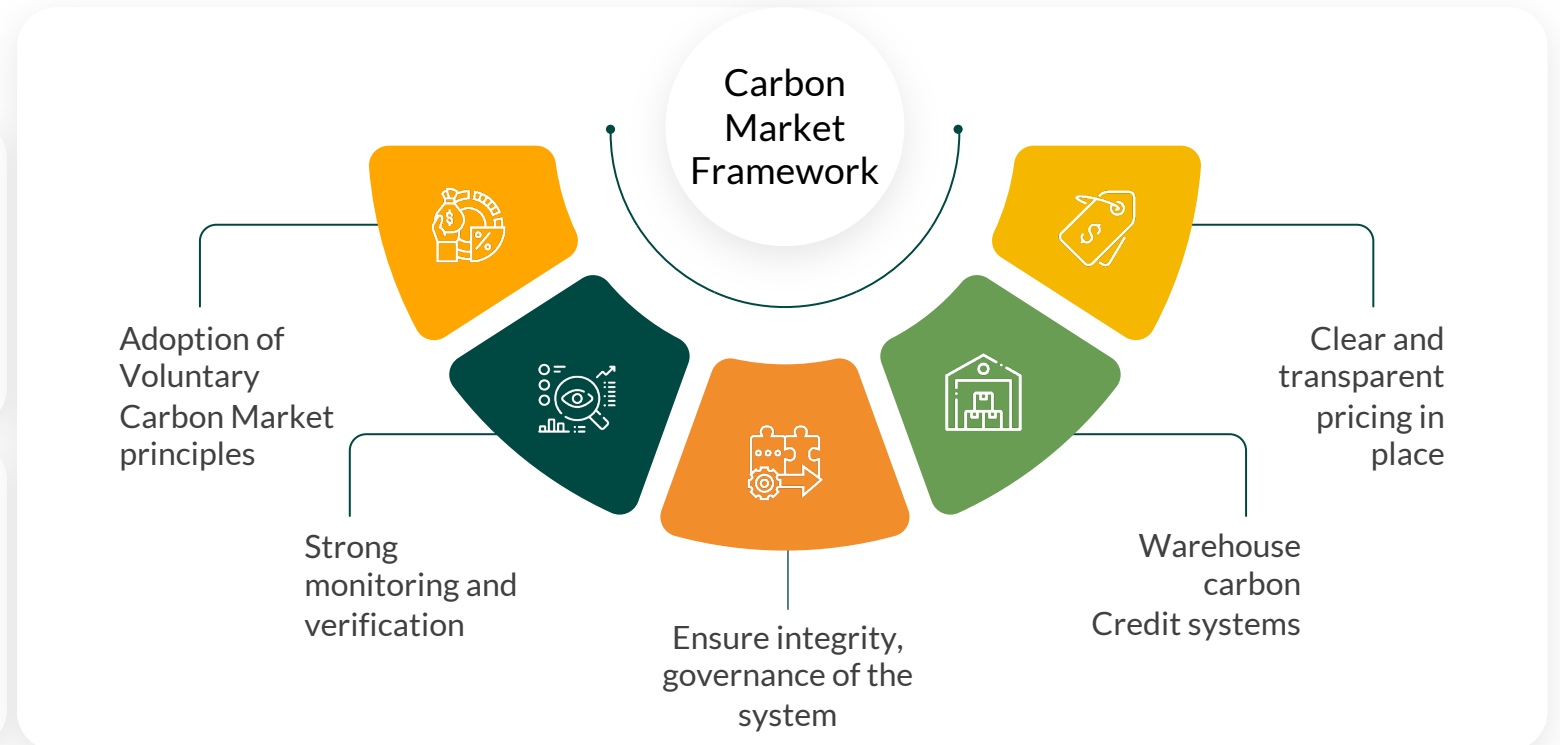
Technical assistance support to agriculture finance providers



Ensuring Financial protection across the agriculture value chain in case of extreme events



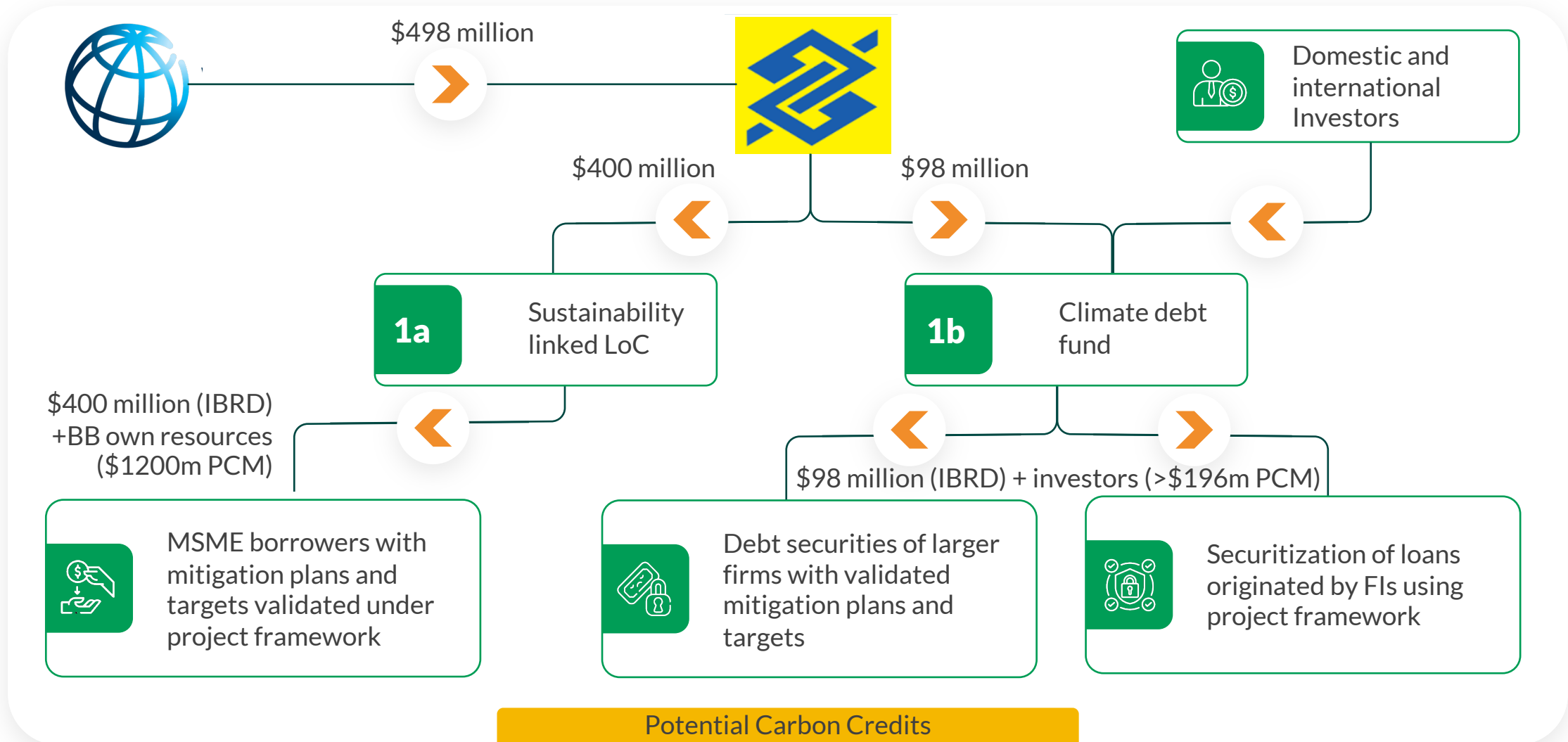
Carbon finance as a potential source of income for smallholders' farmers but also as a solution to unlock credit



It is already happening

1. Assist projects sponsors to create the environment for carbon credits,
 2. Assist with regulatory framework governing carbon markets (i.e., voluntary and compliance
 3. Assist with the identification of value chains where supporting carbon credits markets could make sense
- Currently supporting Malaysia, and Cambodia

Result based- finance for farmers and SMEs / Case of Brazil



Companies purchasing carbon credits today to support their commitments.



Latest net – zero commitments from companies



Net zero by 2050
Total footprint 120m tCO₂e

BOSCH



Carbon neutral in 2020



Net zero by 2050
Total footprint 100m tCO₂e

Bank of America.



Carbon neutral in 2020



All brands net-zero by 2039. Total footprint 90m tCO₂e



Carbon neutral by 2030 including supply chain



Carbon neutral by 2050. Total footprint 50m tCO₂e

Microsoft

Carbon negative by 2030



Net zero by 2050
Total footprint 120m tCO₂e

amazon

Net-zero by 2040

Agriculture Credit Guarantee Schemes

- Partial credit guarantee scheme (CGS) provide credit risk mitigation to financial institutions by absorbing part of their losses on loans in case of defaults in return for a fee
- Aim to minimize financial institutions' risk in lending to underserved segments (MSMEs, agri-producers)
- Important design features make CGS an attractive instrument to crowd-in financing from private financial institution



Coverage ratio

- The share of the losses underwritten by CGS
- High enough to attract FIS but should not eliminate the risk entirely



Leverage ratio

- Multiplier affecting of CGS
- Allow to guarantee loans higher than the size of the endowment

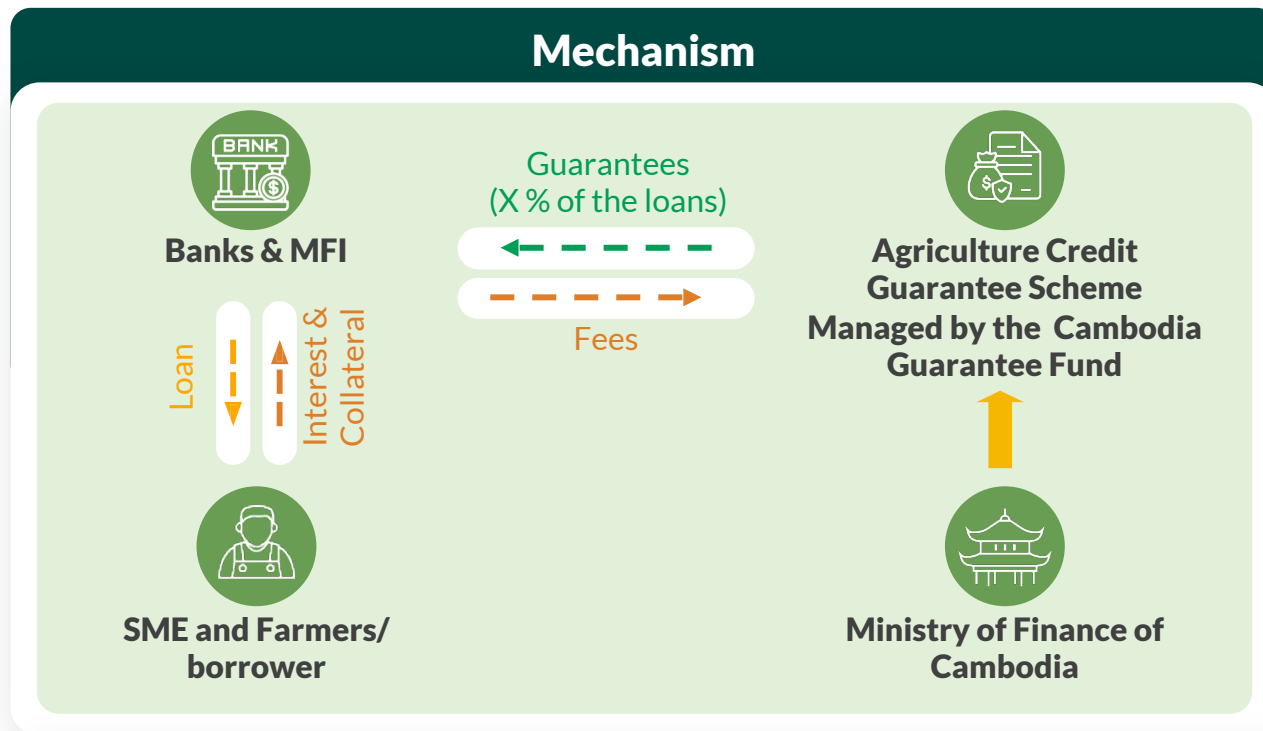


Delivery approach

- Loan-by-loan (individual guarantee) approach
- Portfolio approach using a set of pre-agreed criteria



Special focus on Agriculture Guarantee mechanism in Cambodia



Partial Credit Guarantee schemes (PCGs) are a popular **policy intervention** to **alleviate credit constraints**



PCGs **absorb part** of the **default risk** of the **borrower**, with a view to **increase credit supply to credit**



Expected Impact

- Financial Additionality on the Extensive Margin:** Induces banks to expand the risk frontier, providing loans to firms without access to loans (as opposed to subsidize bank's risk on firms that were already accessing credit)
- Financial Additionality on the Intensive Margin:** Improves access to finance conditions (interest rates, amounts and maturities)

Main Benefits



Could lead to a
Reduction of
collateral
requirement



Extension of
debt maturity



More favorable
debt amortization
/repayment
schedule



Extended list of
Available climate
finance lenders



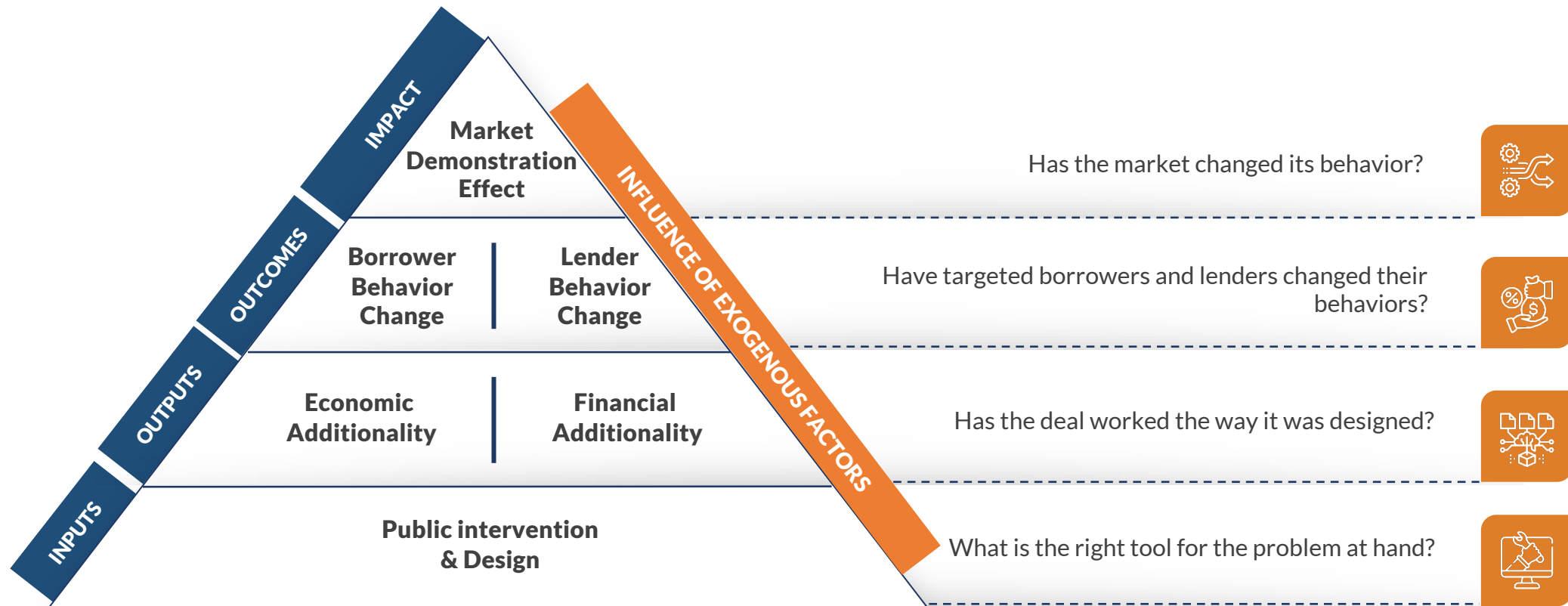
Introduction of
new borrowers
to the market



Introduction of
large-scale lending
operations



No solution is a panacea. But a combination of right instruments and tools for clearly identified needs can make a difference



Thank You



Eswatini



Kenya



Lesotho



Namibia



Rwanda



Somalia



South Africa



Uganda



Zambia



Zimbabwe