Designing Climate Finance Solutions for a Successful Protein Transition

Nicole Rocque, German Chancellor Fellow 2023-24

Hosted by: proveg INCUBATOR



A call to action: Financing a food systems transformation



Global Environmental Impacts of Agri-Food Systems



Despite its mitigation potential agriculture remains severely under invested as a climate solution, representing just 4.3% of total climate finance



Percent of global GHG emissions¹



Climate finance flows²

Food and agriculture systems can generate \$4.5 trillion in new market opportunities each year: Barriers for investing into Agriculture, Forestry and Other Land Use (AFOLU)

Deal flow & bankable projects

- Outside investment mandates: Does not fit within risk/asset class/timeframe/return mandates (i.e. early-stage risks too high, volatile, long development lead times, etc.)
- **Deal sizes too small**: Ticket sizes are below commercial-investor interest thresholds
- Lack of deal flow: Not enough deals to attract new and diversified mainstream institutional investors
- Liquidity risk: Limited investment-grade assets with exit/liquidity features

Lack of information

- Lack of primary data: Both at the farm level and throughout the supply chain hindering the ability to create bankable projects
- Lack of standardised investment frameworks: Lack of ESG/impact/ performance data, indices, benchmarks, investment-grade research, and standards
- Lack of sector experience: Limited experience, expertise, network, prior models, & procedures for private sector investment

Transaction costs

- **High early-stage risk**: Lack of data makes it difficult to assess investment risks (both real and perceived) and execute risk-mitigation strategies
- Low appetite outside of business-as-usual AFOLU investments: Uncertain financial/environmental upside, particularly within the smallholder farmer context
- Mature ESG sectors more attractive: Other ESG sectors are more attractive investments, including high-impact industries like renewable energy

Transforming food systems could cost up to \$500 billion per year: Food system stakeholders have difficulty accessing appropriate financing solutions that are fit-for-purpose

- **Costs are front-end loaded**: Many food value chain stakeholders (e.g. farmers, input providers, processors, manufacturers) lack liquid working capital and de-risking solutions required to implement sustainable capital-intensive tools, projects and processes (e.g. equipment to implement low-emission agricultural methods, a new workstream that upcycles agricultural waste)
- Agricultural enterprises across the supply chain are too small for most commercial and debt lenders: Significant under financing of the 'missing middle' with financing needs of between roughly \$50,000 and \$1-2 million
- Equity financing is not well suited for scaling nascent technologies: Typically equity investments seek high returns in short time frames, it is usually poorly suited for investments in infrastructure which typically have higher upfront capital expenditure (CapEx) costs, lower appreciation upside potential, and generate steady returns over a long time period of 10–20 years.

We need to bridge the supply of capital with demand by creating appropriate instruments, vehicles, and intermediaries



Case Study: Supporting indigenous crops and production infrastructure for alternative protein



Thank you!

