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Agricultural Value Chain Financing and its Impact on Rural Development

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Abstract

The integrated financial service in agriculture is a relatively recent mechanism in increasing access to finance in different stages of agriculture production, processing, and marketing through an agriculture value chain approach (AVCF). This article examines how the AVCF contributes to rural development in terms of increased access to credit, market, and income stabilization. The aim is to evaluate the effectiveness of AVCF models in bridging the financing gap of smallholder farmers and agri-entrepreneurs, specifically through secondary data from developing nations. A qualitative review was made using the World Bank, FAO, IFAD reports, and the most recent literature. Key AVCF mechanisms such as contract farming, warehouse receipt systems, and out-grower schemes are analyzed. The findings indicate that AVCF has greatly influenced financial inclusion, rural employment, and agricultural productivity. But there are still obstacles, including policy restrictions, infrastructure weaknesses, and little financial knowledge. The research recommends scaling community forestry-VCF interventions within the context of enabling public-private partnerships is likely to accelerate rural change.

Keywords: Agricultural finance, Contract farming, Rural development, Value chain, Warehouse receipt system

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Introduction

Agriculture has long been a lifeline for rural economies, especially in developing countries where it is a source of livelihood for a substantial proportion of the population. However, it is also an underfinanced sector marked by high risks, low returns, and insufficient collateral among smallholder farmers. Traditional institutions' financing systems cannot meet agricultural producers' diverse financing needs. As a result, productivity, market access, and income-generating capacities are stunted within the value chain. Agricultural Value Chain Financing is a disruptive approach that seeks to coordinate financial services along and across agricultural value chain units. AVCF models finance governed by production, processing, marketing, and distribution activities. They may manifest directly through production lending and indirectly via contract farming, warehouse receipt systems, input supplier finance, and trader financing. These models leverage value chain relationships and cash flows to reduce transaction costs, credit risks, and defaults (Rob & Cattaneo, 2021).

The integration of finance inside the value chain influences rapid rural development through increased access to inputs, technology adoption, and agro-enterprise development. AVCF also contributes to holistic inclusion by incorporating millions of smallholder farmers left out of the formal sectors. It boosts vertical and horizontal coordination, market linkage, and enhanced consumer incomes and job opportunities in rural landscapes. AVCF is a core rural development strategy that fast-tracks economic growth and reduces poverty due to rural-urban flight. Developing countries working on transforming agriculture into vibrant economic activities, heralding inclusive growth, use AVCF to jumpstart capital access for impoverished rural regions. This work focuses on the potential of financing based on the value chain in rural development, based on an ex-post facto approach drawing from secondary data.

Materials and Methods

This study is a qualitative, secondary-data-based research design. It aims to understand how AVCF contributes to rural development, especially in LMICs. The extensive geographical spread of AVCF operations and the institutional capacity of the implementers make it difficult to collect primary data. Therefore, the present study sought to determine the contribution of Agricultural Value Chain Financing to the sustainable use of rural livelihoods through a meta-analysis of existing research, reports, and datasets (Birthal et al., 2020). The methodology used was consistent with established guidelines for secondary research and systematic literature analysis.

Research Design and Scope

The research study adopted a descriptive research design with the primary objective of identifying, categorizing, and analyzing the patterns of Geographic Area Classification in AVCF and its influence on rural livelihood practices. There was no primary data collection involved, especially through questionnaires and field

interviews. The focus was instead on existing data from AVCF operations and other published sources. Areas of study, therefore, included financial access and utilisation, production, market access, employment, gender aspects, and the institutional action that captures AVCF models. The time frame selected for the research was from 2016 to 2025. It is considered adequate for capturing the existing information on policy formulation and changes, institutional restructuring, and technology that would demonstrate the evolution of the AVCF phenomenon (Rob & Cattaneo, 2021).

The geographical scope included various world regions, but with case-specific reference to SAARC Countries in South Asia, Sub-Saharan Africa, and Latin America. These are the areas where AVCF is actively implemented by the private and public development agencies. The methodology used various case studies, cross-country comparisons, and project evaluations to draw a systematic pattern of AVCF implementation outcomes.

Data Sources

Data are retrieved from highly credible secondary sources, including:

- Journal articles from renowned journal repositories like ScienceDirect, Wiley Online Library, SpringerLink, and Taylor & Francis.
- Institutional reports from international multi- and bilateral, and NGOs, including the World Bank, IFAD, FAO, IFC, ADB, and IFPRI.
- Project evaluation reports from NGOs, donor firms, and private development funding institutions engaged in agricultural finance and rural development.
- Country-specific policy documents, agricultural census, and financial reports from ministries of agriculture and rural development departments.

Some key words are used in this study, such as “agricultural value chain financing,” “rural development,” “contract farming,” and “warehouse receipt systems.” Embedded finance and “inclusive agribusinesses”. Each journal was checked for its quality, reliability, and relevance to the identified AVCF study focus.

Selection Criteria and Inclusion Strategy

In the present study, the history of selection criteria and applicable material was as follows:

Table 1. Selection Criteria

Relevance to the Local Context	Research should be in an area or country where AVCF is widely practised or piloted.
Temporal Relevance	Only information in the literature over the last 10 years (2016–2025) was included, mainly to address recency about policy and financial context.

Conceptual Fit	Materials must make explicit reference to the link between financial mechanisms and rural development.
Empirical Basis	Case studies, evaluations, or assessments with evidence of impact, including quantifiable data and indicators, were favored (Swamy, 2016).
Language	Only English publications were included because of language proficiency and resource limitations.

For this study, opinion letters, news reports and studies limited to primary urban agriculture or non-market-based interventions are excluded. Approximately 45 documents were screened for further review after application of these filters.

Analytical Framework

The research followed the thematic content analysis process to develop a framework for discussing the results cited from secondary sources. This coding process consists of assigning codes to the passages of text that are meaningful in terms of key themes that are related to the goals of the research. The major observations are as follows:

- Finance and credit inclusiveness
- Use of agricultural inputs and yield increase
- Market accessibility and price stability
- Employment creation and diversification of rural income
- Gender mainstreaming in AVCF models
- The place of digital and institutional innovation
- Policy implications and systemic barriers

A conceptual framework grounded on the Inclusive Agricultural Finance Model and the Value Chain Development Approach was applied to drive the analysis. These frameworks highlight how financial services provide the link between the production, aggregation, processing and marketing stages and are re-embedded into the value chain, with smallholders as active economic agents in the commercialization of value chains (BIRTHAL et al., 2020).

Inclusive Agricultural Finance Model and the Value Chain Development Approach

The Inclusive Agricultural Finance Model aims to incorporate smallholder farmers, who are generally outside of formal financial systems, into accessible and sustainable financial systems. It fosters financial products customized for agricultural operations, including seasonal credit, input financing, crop insurance, and savings schemes. In the framework of the AVCF, the model encourages inclusiveness by utilizing the

relationships among farmers, buyers, input suppliers, and financial institutions to minimize the cost of transactions and credit risk. It shows that when financial services are integrated into value chain activities (such as contract farming and warehouse receipt systems), the rural population can achieve access to working capital and financial instruments in an organized and secure manner (World Bank, 2024).

Adding to this is the Value Chain Development Approach, which focuses on creating robustness of not only the whole agricultural value chain (input supply up to end-market access). It stresses the vertical coordination and horizontal integration among the actors to enhance productivity, competitiveness, and market integration. This is in line with AVCF mechanisms, as observed in the presented case studies, where public-private partnerships and cooperative-based financing contributed to improving yields, income stability, and job creation. These two frameworks together underpin the analytical approach in this paper, which highlights how inclusive finance and structured market linkages may combine to promote rural transformation and sustainable agriculture.

Synthesis and Interpretation of the Data

Comparative insights are generated and interpreted with recourse to a narrative synthesis approach, following the thematic analysis of data. This enabled the integration of qualitative judgements and quantitative evidence from different sources into a coherent narrative. For instance, yield gain or income realization from some setting (e.g., contract farming in Bangladesh) is compared across settings (e.g., out-grower schemes in Ghana or dairy cooperatives in India).

Where quantitative data is available (like production, credit access, or incomes), relatively descriptive comparative statistics are employed to trend spot and draw wider conclusions. The research is not a meta-analysis; however, it sums up all relevant indicators systematically to provide reliable conclusions (Swamy, 2016).

Furthermore, tables are created to represent common results such as productivity gains, access to finance, and the employment effect variations among the different AVCF models. A comparison table is provided that outlines the critical aspects and outcomes of several different funding alternatives (e.g., contract farming, WRS, input credit). The graphs depict the historical picture of the penetration of rural credit and improvement in yield, providing a quick visual insight into the complex information (Chen et al., 2015).

Limitations of the Method

Although secondary data results in a strong foundation for analysis, several limitations need to be taken into account:

- Data across countries is uneven, with some reports missing baseline measures or broken-down measures.

- Results are not comparable because the original studies used different methods of measurement and reporting periods.
- Lack of primary data at the field level limits the ability to validate claims or to evaluate the real-time impact at the household level.

However, data triangulation from multiple credible sources ensures greater validity of the findings. Beyond this, the method of the study makes up for limited field data with comprehensive documentation of peer reviewed impact evaluations.

Results and Discussion

Based on secondary data, there is strong evidence that Agricultural Value Chain Financing (AVCF) has facilitated rural development in diverse provinces. Across diverse studies, programme reports and institutional data, the results can be categorized as, among others: improved financial access, increased agricultural productivity, increased market integration, income stability, employment creation, and social inclusion, especially for women (Takwi, 2020). The descriptive statistics below describe these findings, informed by quantitative and qualitative evidence.

Enhanced Financing for Agriculture

One of the most robust findings from the different studies is that AVCF models increase access to credit and other financial services for smallholder farmers. Smallholders are usually excluded from conventional rural credit systems as a result of insufficient collateral, high risks as well and low credit records. The gap is bridged by embedded finance structures in value chains such as contract farming, input supplier credit, and warehouse receipt systems (WRS) (Zander, 2015).

For example, the World Bank (2024) reports that in Kenya and Zambia, contract farmers have 35-50% greater access to formal credit as compared to non-contract farmers. Similarly, according to FAO reports (2024), WRS usage in Ethiopia and Nigeria enhanced farmers' prospects to use stored crops as collateral, and thereby attracted seasonal support from local money lenders to whom they would otherwise not have had access.

This greater access to financial services does not apply to credit only; it encompasses other services such as insurance, savings, and payment systems. According to the International Finance Corporation, retail value chain actors also increasingly promote mobile banking and digital transaction platforms that serve to cut down the transaction costs and promote financial inclusion.

Acceleration in Agricultural Productivity

AVCF, which facilitates financial access, is also significantly associated with higher levels of agricultural productivity. Creditworthy farmers have better opportunities to buy quality inputs like certified seeds, fertilizers, agrochemicals, and new farming methods. This has led to recorded productivity increases of between 20% and 40%

among contract farmers (smallholders) as compared to those in control groups based on secondary data analysis (IFAD, 2024).

In Bangladesh, contract farmers with agro processors, on average reported 25% higher productivity of rice and vegetables, which was attributed to provision of inputs and technical support from embedded credit (IFPRI, 2025). Similarly, dairy cooperatives in India financed through value chain finance have achieved a 30% rise in milk production over five years through better feed quality and veterinary services financed through revolving credit schemes.

The relationship between finance and productivity enhancement is also bolstered by superior risk control. Services like weather-based crop insurance, extension support, etc., are often bundled with AVCF to induce demand or for farmers to move toward sustainable land use practices and reduce production risks (Zander, 2015).

Increasing Market Access and Price Stabilization

Market integration is another important impact area. AVCFs promote stronger, more direct connections between farmers and buyers, lessening reliance on informal middlemen and price dispersion. In most cases, contract farming involves prefixed prices or price schedules, by which farmers can get assured/contract prices and bear less market risks (OECD, 2025).

In Latin America, the benefits of the price stabilization have been reported in the case of avocado and coffee farmers in the value chain, with less than 10% variation of farm-gate prices annually for participating versus 25-30% for non-participating groups. Secondly, warehouse receipt systems facilitate market timing as farmers can store crops and sell for a better price, instead of distress sales post-harvest.

This market connection enhancement also applies to the efficiency of the supply chain. Investments in transport, storage, and processing funded by value chain players have, in the case of the major commodities such as maize, cocoa, and fruits, cut post-harvest losses by 15–20% in several African countries (FAO, 2024).

Income Equilibration and Alleviation of Poverty

The financial security that AVCF mechanisms create results in security and, oftentimes, rising incomes for households. Several program evaluations illustrate that farmers enrolled in these schemes receive increased and more reliable cash inflows, which may be reinvested in farming and household welfare (Chen et al., 2015).

For instance, a longitudinal study implemented by IFAD (2024) in rural Ethiopia revealed that smallholders who participated in AVCF-facilitating small farmer cooperative groups earned 30% more annual income than their counterparts who did not non-participants. Moreover, the same analysis showed that food security indicators got better, such as shorter times of seasonal hunger, and more possession to invest in education and health.

A similar trend was found in Nigeria, where those smallholders who were associated with agro-processing companies via AVCF resulted in a 25% increase in their net income, enabling diversification into non-farm activities (such as small trade and craft) and in their reduction in vulnerability to agricultural shocks (OECD, 2025).

Labour Intensive and Rural Diversionary Employment

Apart from on-farm effects, AVCF results in employment generation at rural level with expanding agro processing, logistics, storage, and retail activities. Value chain stakeholders invest in infrastructure and service delivery to create direct and indirect employment.

In India, contract horticultural farming added around 1.2 million new rural jobs over the past 5 years, i.e., seasonal and in occupations in input supply, and extension services, according to the data from the Ministry of Agriculture. In East Africa, warehouse receipt systems also increased demand for local warehouse managers, transporters, and quality inspectors, with positive effects on rural sector diversification (Barrett et al., 2022).

Effects of employment also consist of off-farm employment. Through stabilizing incomes and enhancing access to finance, AVCF provides households with opportunities to invest in supplemental income activities, helping to lower households' vulnerability to economic shocks as a whole.

Gender Equality and Empowerment of Women

Rural development is a key aspect of gender inclusiveness. Gender-specific approaches have been increasingly integrated into AVCF initiatives to support women's involvement in financing schemes and decision-making.

Quisumbing et al. (2021) highlight secondary sources, which show a 15-25% higher increase for women's access to finance in cases where credit allocation and training are gender embedded. Case studies from Rwanda and Bangladesh find that women-led cooperatives combined with value chain finance yield greater repayment rates and larger investments in household welfare.

Nevertheless, enduring structural obstacles such as unequal land ownership, social norms, and lack of access to collateral continue to present challenges. These limits restrict the potential rewards for gender equity and underline the case for complementary policy measures (Lam et al., 2022).

Challenges and Barriers Identified

Despite the favorable, above-mentioned effects, results have also revealed a series of systemic challenges that are constraining the scalability and sustainability of the AVCF. Key constraints include:

Table 2. Challenges and Barriers

Infrastructure deficiency	Most of the rural areas have insufficient storage capacity, transport facilities, and IT communication technologies, and value chain finance is not easily done.
Regulatory and legal constraints	Suboptimal legal universalization of warehousing receipts and weak contract enforcement reduce the collateralization of lending operations.
Challenges in financial literacy	Poor financial education among smallholder farmers in rural areas leads to a lack of adoption and efficient use of financial products (Akintunde et al., 2025).
Market risks	Reliance on a small number of lead firms or purchasers exposes farmers to monopsony risks and demand volatility.

There is ample literature on these challenges in many other countries and the necessity of integrated policy and institutional reforms.

Summary of Quantitative Results

Table 3. Summary Data

Outcome Area	Range/% Intervention	Impact Exemplars/Regions
Formal credit access	+35% to +50%	Kenya, Zambia (Contract farming stream)
Yield/productivity gains stem, work in progress	+20% to +40%	Bangladesh, India (Hybrid seeds, dairy)
Price Volatility Reduction	25-30% to <10%	Latin America (Avocado, Coffee)
Reduction in post-harvest loss	15–20%	African maize, cocoa supply chains
Income gain	+25% to +30%	Ethiopia, Nigeria (Household income)
Work in rural areas to generate employment	Millions of new jobs (yearly)	India, East Africa (Horticulture, WRS)
Women's better access to credit	+15% to +25%	Rwanda, Bangladesh (Women's cooperative)

Data Sources: (IFAD, WTO, IFPRI, FAO, etc., annual and development reports.)

Findings of the Study demonstrates that in developing and emerging economies, in particular low and middle-income countries, AVCF has contributed in multiple and substantial ways to the development of rural areas. With financial services embedded

within production and market linkages, AVCF addresses traditional barriers to credit access and increases productivity, market participation, and income security for rural producers, achieving the intended outcomes for the farmers. These results supported the increasing recognition of AVCF as an instrument of rural economic development and agricultural modernization (Barrett et al., 2022).

Among the achievements with powerful lessons are advances in financial inclusion. High transaction costs, limited collateral availability, and perceived risk have traditionally left smallholder farmers behind in rural finance models, particularly in Sub-Saharan Africa and parts of Asia (Villalba et al., 2023). To overcome these limitations, AVCF utilizes the existing relationships between farmers, buyers, and input suppliers. Models such as contract farming and warehouse receipt systems have been seen to vastly improve the outreach of seasonal credit, sometimes through cheaper loans than the informal sector. These systems also lessen the financial cost to farmers by providing embedded services, for example, input supply and technical advice, at no upfront cost.

The findings also indicate significant increases in agricultural productivity, owing to access to quality inputs and knowledge sharing among value chain actors. AVCF scheme participants made increased use of hybrid seeds, fertilizers, and improved technologies. The expansion of value chains not only brings capital inflow but also leads to the movement of information (knowledge), which results in improved yields and sustainable land use. The financing-productivity feedback cycle and the role of value chains, as well as the broader potential of value chain development as a catalyst for agricultural transformation (Quisumbing et al., 2021).

In addition, market access and income stability have been improved by structured financing arrangements. AVCF mitigates the risks of price volatility and market unpredictability, which have historically discouraged smallholders from engaging in commercial farming, by connecting farmers directly to buyers and using enforceable clearing contracts and predictable pricing. Illustrations from Bangladesh, Ethiopia, and Zambia also show that integration into value chains allows farmers to avoid middlemen who cheat them and encourages transparent price structures (Takwi, 2020). Additionally, the capacity to store the crops in WRS and sell them during the off-season will give farmers a chance to capitalize on the market conditions strategically.

AVCF also generates both financial and some productivity benefits, but further supports the concept of employment and occupational diversification. They are so complex and integrated that they generate demand for labor in logistics, storage, processing, and retail. This is particularly important in areas where off-farm employment opportunities are scarce. Gender-inclusive initiatives also highlight the potential of AVC to contribute to women's empowerment through increasing access to credit, training, and leadership in cooperatives and producer organizations. Nonetheless, entrenched gender inequalities in land ownership and asset control continue to be a challenge requiring supportive policies (Lam et al., 2022).

Notwithstanding these positive results, the application of AVCF is faced with several obstacles. There are also systemic barriers such as a lack of infrastructure, a weak regulatory environment, and low financial literacy. For instance, whether warehouse receipt systems may be viable operationally or not critically depends on the presence of certified storage facilities, the legal status of warehouse receipts when used as collateral, as well as fair dispute settlement. And so does enforcing contracts in many countries where legal institutions are weak. This reality highlights the importance of a supportive, enabling environment fostered by government policy, donor investments, and institutional capacity development.

In addition, overreliance can occur on lead firms or a single purchaser in the case of contract farming arrangements. When market conditions fluctuate or firms back out of contracts, farmers can be exposed to input maldistribution, financial insecurity, or buyer monopsony. This makes it necessary to develop inclusive, flexible, and resilient models of AVCF possibly through diversified partnerships and blended finance instruments (Villalba et al., 2023).

The results are supportive of AVCF as a potent tool for grassroots development. Its capability to combine finance with production and market linkages makes it especially appropriate for tackling the complex challenges confronting smallholder farmers. For AVCF to reach its full potential, however, it needs to be integrated into larger agricultural and financial sector reforms, accompanied by infrastructure build-up, legal protection, and inclusive capacity development (Akintunde et al., 2025). The concluding section summarizes the findings and outlines several implications for research and policy.

Conclusion

The study revealed that Agricultural Value Chain Financing (AVCF) significantly contributes to rural development in terms of financial inclusion, productivity, income stability, and market access of smallholder farmers. AVCF uses models like contract farming, warehouse receipt systems, and input-supplier credit to overcome legacy constraints to agriculture finance and integrate rural producers more deeply into formal markets. The evidence also emphasizes wider socio-economic advantages such as the generation of employment, gender empowerment, and livelihood diversification. But systemic issues like poor infrastructure, weak legal enforcement, and low financial literacy remain and could put the brakes on wider growth. Policy environment, PPP, and capacity building. Investment in capacity-building, public-private partnerships, and a friendly policy environment is required to realize the full potential of AVCF. In the future, novel financing options and digital technologies that can reinforce outreach, resilience, and sustainability are worth exploring for different agri-food systems.

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References

- Akintunde, O., laide., Idris-Adeniyi, Kaothar & Olanrewaju, Khadijat & Coster, Adeleke. (2025). Agricultural financing and economic growth in Nigeria: implications for sustainable agricultural development. *Journal of Kerbala for Agricultural Sciences*. 12. 10.59658/jkas.v12i1.3240.
- Barrett, C.B., Reardon, T., Swinnen, J. and Zilberman, D. (2022). Agri-food value chain revolutions in low- and middle-income countries. *Journal of Economic Literature*, 60(4), pp.1316-1377.
- Birthal, P.S., Joshi, P.K. and Hazrana, J. (2020). Financing agricultural value chains. *Transforming Agriculture in South Asia*, pp.101-115.
- Chen, K.Z., Joshi, P.K., Cheng, E. and Birthal, P.S. (2015). Innovations in financing of agri-food value chains in China and India: Lessons and policies for inclusive financing. *China Agricultural Economic Review*, 7(4), pp.616-640.
- FAO (2024). The State of Food and Agriculture *Food and Agriculture Organization of the United Nations*, [online] 9(7). doi: <https://doi.org/10.4060/cd2616en>.
- IFAD (2024). Diversified Resilient Agriculture for Improved Food and Nutrition Security: Supervision Report. [online] www.ifad.org. Available at: https://www.ifad.org/documents/48415603/49455874/BGD_2000004167_SUPERVISION_REPORT_JUN_2024_0010-41-5570_6368.pdf/48906c1f-e795-6fae-689e-191cdccbc663?t=1726604672414.
- IFPRI (2025). Warehouse Receipt Systems and Agricultural Lending. [online] [Ifpri.org](http://ifpri.org). Available at: <https://www.ifpri.org/project/integrated-food-policy-and-research-program-ifprp/> [Accessed 21 May 2025].
- Lam, B.T., Cuong, T.H., Hop, H.T.M., Kien, N.T. and Lebailly, P. (2022). Value chain financing approach: A good way to sustainable agricultural growth in Vietnam. *Global Changes and Sustainable Development in Asian Emerging Market Economies Vol. 1: Proceedings of EDESUS 2019*, pp.537-559.
- Pagua, F.L. and Casuga, M.S. (2008). Agricultural Value Chain Financing in Asia. *Financial Access and Inclusion in the Agricultural Value Chain: (Edited by Bayaua, BS)*, pp.1-24.
- Quisumbing, A., Heckert, J., Faas, S., Ramani, G., Raghunathan, K., Malapit, H., and pro-WEAI for Market Inclusion Study Team Hazel Malapit Jessica Heckert Sarah Eissler Simone Faas Elena Martinez Emily Myers Audrey Pereira Agnes Quisumbing

- Catherine Ragasa Kalyani Raghunathan Deborah Rubin Greg Seymour, 2021. Women's empowerment and gender equality in agricultural value chains: evidence from four countries in Asia and Africa. *Food Security*, 13, pp.1101-1124.
- Rob, V.O.S. and Cattaneo, A. (2021). Poverty reduction through the development of inclusive food value chains. *Journal of Integrative Agriculture*, 20(4), pp.964-978.
- Swamy, V. (2016). Analyzing the agricultural value chain financing: approaches and tools in India. *Agricultural Finance Review*, 76(2), pp.211-232.
- Takwi, F.M. (2020). The Impact of Agricultural Value Chain Financing on Local Economic Development in the Menchum Valley. *ResearchGate*. [online] doi: <https://doi.org/10.13140/RG.2.2.33926.80960>.
- OECD (2025). *OECD Initiative on Global Value Chains, Production Transformation and Development*. [online] OECD. Available at: <https://www.oecd.org/en/about/programmes/oecd-initiative-on-global-value-chains-production-transformation-and-development.html> [Accessed 21 May 2025].
- Villalba, R., Venus, T.E. and Sauer, J.(2023). The ecosystem approach to agricultural value chain finance: A framework for rural credit. *World Development*, 164, p.106177.
- World Bank. (2024). Agriculture and Food. [online] *World Bank*. Available at: <https://www.worldbank.org/en/topic/agriculture/overview>.
- Zander, Rauno. (2015). New Trends in Financing Agricultural Value Chains - Promising Practices and Emerging Recommendations for Policy Development.