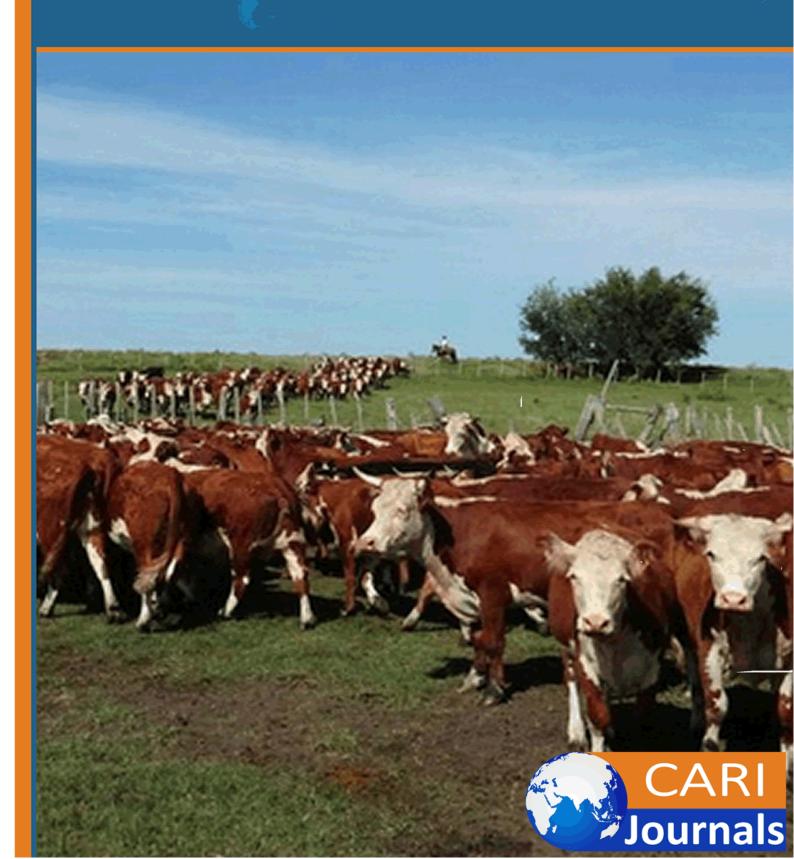
**Trade Policies and Livestock Exports** 



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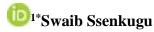
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# **Trade Policies and Livestock Exports**



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### **Abstract**

**Purpose:** The general objective of the study was to examine the trade policies and livestock exports.

**Methodology:** The study adopted a desktop research methodology. Desk research refers to secondary data or that which can be collected without fieldwork. Desk research is basically involved in collecting data from existing resources hence it is often considered a low cost technique as compared to field research, as the main cost is involved in executive's time, telephone charges and directories. Thus, the study relied on already published studies, reports and statistics. This secondary data was easily accessed through the online journals and library.

**Findings:** The findings reveal that there exists a contextual and methodological gap relating to trade policies and livestock exports. Key findings emphasize the significance of trade agreements and regional integration initiatives in boosting livestock exports, with participating countries benefiting from increased trade volumes and streamlined regulatory standards. Additionally, the study highlights the impact of non-tariff measures, particularly stringent sanitary and phytosanitary regulations, on market access, underscoring the need for capacity-building and regulatory harmonization efforts. Moreover, trade disputes and policy uncertainties are identified as disruptors, necessitating transparent policy frameworks and risk management strategies to mitigate market volatility. Overall, the study underscores the importance of coordinated efforts to address trade barriers and enhance market access, paving the way for sustainable development and economic growth in the livestock sector.

Unique Contribution to Theory, Practice and Policy: Theory of Comparative Advantage, Political Economy theory and Institutional theory may be used to anchor future studies on trade policies and livestock exports. One key recommendation was to diversify export markets for livestock products, aiming to reduce dependence on specific markets and mitigate trade disruptions. This strategy involved proactive market research, targeted marketing campaigns, and strategic alliances with trading partners to access new markets. Another recommendation was to invest in quality assurance systems and standards compliance to meet sanitary and phytosanitary requirements, crucial for enhancing the credibility of livestock exports. Promoting sustainable production practices was also advised, aligning livestock production with sustainability goals to enhance market competitiveness. Improving trade facilitation measures, strengthening policy coordination and stakeholder engagement, and developing risk management strategies were highlighted to safeguard the stability and competitiveness of livestock export sectors in a volatile global economy.

**Keywords:** Livestock Exports, Trade Policies, Market Diversification, Quality Assurance, Sustainable Production, Risk Management

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### 1.0 INTRODUCTION

Livestock exports play a significant role in global trade, serving as a vital component of agricultural economies worldwide. Livestock exports encompass the trade of live animals, as well as meat, dairy, and other animal products. The dynamics of livestock exports vary across countries, influenced by factors such as domestic production capacity, trade policies, consumer demand, and international market conditions. Understanding the trends and patterns of livestock exports is crucial for policymakers, agricultural economists, and stakeholders involved in the livestock industry (FAO, 2018).

In the United States, livestock exports contribute substantially to the agricultural sector's export earnings. According to the United States Department of Agriculture (USDA), the value of U.S. livestock and animal product exports reached \$31.5 billion in 2020, with significant contributions from beef, pork, and poultry exports (USDA, 2021). For example, the USA is one of the world's largest exporters of beef, with key markets including Japan, South Korea, and Mexico. Additionally, the USA exports substantial quantities of dairy products, particularly cheese and whey, to countries in Asia, Latin America, and the Middle East (USDA, 2020). These export trends reflect the USA's strong livestock production base and its ability to meet international demand for high-quality animal products.

In the United Kingdom (UK), livestock exports constitute a smaller proportion of total agricultural exports compared to the USA, reflecting differences in production scale and market orientation. The UK primarily exports live animals, particularly cattle, sheep, and pigs, to EU member states (DEFRA, 2020). However, since the UK's withdrawal from the European Union (EU) in 2020, changes in trade regulations and market access have affected the livestock export landscape. For instance, disruptions in trade flow and regulatory adjustments have impacted the UK's livestock exports to the EU, necessitating adaptation strategies among farmers and exporters (DEFRA, 2021). Despite these challenges, the UK remains an important player in the global livestock trade, leveraging its reputation for high animal welfare standards and product quality.

Japan is a major importer of livestock products, relying heavily on imports to meet domestic demand for meat, dairy, and eggs. Due to limited agricultural land and high production costs, Japan imports significant quantities of beef, pork, and poultry from countries such as the USA, Australia, and Canada (USDA FAS, 2021). In recent years, there has been a growing trend towards premiumization in the Japanese meat market, with consumers showing preferences for high-quality, certified, and specialty meats (UNCTAD, 2019). This trend presents opportunities for livestock-exporting countries to capitalize on niche markets and value-added products in Japan, catering to evolving consumer preferences and dietary trends.

Brazil is a global powerhouse in livestock production, renowned for its vast grazing lands, abundant feed resources, and competitive cost structure. The country is a leading exporter of beef, poultry, and pork, supplying markets across Asia, the Middle East, and Europe (ABPA, 2021). Brazil's livestock exports have witnessed steady growth in recent years, driven by expanding production capacities, investments in infrastructure, and access to international markets (Garcia, Campos, Barros, Menezes, Oliveira, Bresolin & Venturini2020).). However, challenges such as environmental sustainability, deforestation, and compliance with food safety standards have drawn scrutiny and regulatory measures from importing countries, impacting Brazil's export dynamics (Sparovek, Barretto, Matsumoto, Berndes, Klug & Stokes, 2019).).

African countries exhibit diverse patterns and challenges in livestock exports, reflecting variations in production systems, infrastructure, and market access. Some countries, such as Ethiopia and Sudan, have significant livestock populations and export live animals, hides, and skins to regional and

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international markets (FAO, 2019). However, constraints such as inadequate transportation networks, disease outbreaks, and trade barriers hinder the full realization of Africa's livestock export potential (Ayalew, Assefa & Derso, 2020). Moreover, the COVID-19 pandemic exacerbated these challenges, disrupting supply chains, reducing export volumes, and impacting livelihoods across the continent (FAO, 2020). Addressing these constraints requires coordinated efforts from governments, international organizations, and stakeholders to enhance value chain efficiency, improve animal health services, and facilitate trade facilitation measures. Livestock exports play a crucial role in the global agricultural economy, encompassing diverse products and trade flows across countries and regions. From the USA and the UK to Japan, Brazil, and African nations, trends in livestock exports reflect a complex interplay of production dynamics, market demand, and policy frameworks. While some countries leverage their competitive advantages to capture international markets, others face challenges related to market access, regulatory compliance, and sustainability. Understanding these trends and challenges is essential for fostering resilient and sustainable livestock trade systems that contribute to food security, economic development, and livelihoods worldwide.

Trade policies refer to a set of regulations, agreements, and measures implemented by governments to govern international trade activities and shape the flow of goods and services across borders (World Bank, 2017). These policies aim to promote economic growth, protect domestic industries, ensure fair competition, and enhance overall welfare. Trade policies encompass various instruments, including tariffs, quotas, subsidies, trade agreements, and trade facilitation measures, which can have profound effects on domestic industries, foreign relations, and global economic integration. Trade policies are crucial determinants of livestock exports, influencing the competitiveness, market access, and regulatory framework governing the livestock trade. For instance, tariffs and non-tariff barriers imposed by importing countries can affect the cost competitiveness of livestock products in international markets (Grote & Reiche, 2017). Moreover, trade agreements such as free trade agreements (FTAs) and regional trade blocs can expand market opportunities for livestock exporters by reducing trade barriers and harmonizing regulatory standards (OECD, 2020). Therefore, understanding the implications of trade policies on livestock exports is essential for policymakers, agricultural producers, and stakeholders involved in the livestock industry.

Tariffs are taxes imposed on imported goods, which can increase the cost of imported livestock products and reduce their competitiveness in foreign markets (Evenett & Fritz, 2017). High tariff rates on livestock imports can limit market access and constrain export volumes, particularly for countries with significant livestock production capacities. Furthermore, non-tariff barriers such as sanitary and phytosanitary (SPS) regulations, quality standards, and certification requirements can pose additional challenges for livestock exporters (WTO, 2015). Compliance with these regulations often requires investments in infrastructure, technology, and quality assurance systems, which can affect the cost and complexity of exporting livestock products.

Trade agreements play a pivotal role in facilitating livestock exports by promoting market access, reducing trade barriers, and fostering economic cooperation among participating countries (Hoekman & Mavroidis, 2016). For instance, regional trade agreements such as the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP) and the European Union's trade agreements with third countries provide preferential treatment for livestock products from member countries (Bown & Crowley, 2016). These agreements can lead to increased market access, higher export volumes, and enhanced competitiveness for livestock exporters, thereby driving economic growth and rural development.

Subsidies and support policies are often used by governments to promote domestic livestock production, improve competitiveness, and support rural livelihoods (Anderson & Martin, 2017).

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However, subsidies can distort trade patterns and affect global market dynamics, leading to trade disputes and tensions among trading partners (Baldwin & Evenett, 2015). For instance, subsidies provided to domestic livestock producers may artificially lower production costs and enable them to undercut foreign competitors in export markets (World Bank, 2019). As a result, subsidies can influence the competitiveness and market share of livestock exports, shaping patterns of trade and investment in the livestock sector.

Trade facilitation measures aim to streamline customs procedures, reduce trade transaction costs, and expedite the movement of goods across borders (UNCTAD, 2019). Efficient customs clearance procedures and modernized trade facilitation infrastructure can enhance the competitiveness of livestock exporters by reducing delays, administrative burdens, and uncertainty in trade transactions (WTO, 2017). For instance, electronic customs systems, risk-based inspections, and single-window clearance mechanisms can simplify export procedures and improve compliance with regulatory requirements, facilitating smoother trade flows for livestock products (OECD, 2021).

Trade remedies such as anti-dumping duties, countervailing duties, and safeguard measures are employed by governments to address unfair trade practices and protect domestic industries from import competition (Bown, 2018). In the context of livestock exports, trade remedies can be used to address market distortions, unfair competition, and price volatility in international markets (Sykes & O'Hare, 2016). However, the use of trade remedies can also provoke trade disputes and retaliation from trading partners, leading to trade tensions and disruptions in livestock trade flows (WTO, 2018). Therefore, effective dispute resolution mechanisms and multilateral cooperation are essential for managing trade conflicts and preserving the stability of livestock export markets.

Intellectual property rights (IPRs) play a critical role in regulating trade in livestock genetics, including breeds, genetic materials, and biotechnological innovations (Drahos & Mayne, 2018). Patents, trademarks, and plant breeders' rights govern the commercialization and transfer of livestock genetic resources, shaping innovation, technology transfer, and market access in the livestock sector (WIPO, 2020). However, debates over the ownership, access, and sharing of genetic resources raise complex ethical, legal, and socioeconomic issues, particularly concerning the rights of farmers, indigenous communities, and breeders in developing countries (FAO, 2021). Balancing the interests of different stakeholders while promoting innovation and sustainable use of livestock genetic resources remains a key challenge for trade policymakers and regulators.

Environmental and social standards are increasingly incorporated into trade agreements and regulatory frameworks to address sustainability concerns and promote responsible production and consumption practices (Gallagher, Lawrence & Zarsky, 2020). In the context of livestock exports, environmental standards related to land use, water management, and greenhouse gas emissions can influence trade patterns and market access for livestock products (UNCTAD, 2020). Similarly, social standards concerning labor rights, animal welfare, and indigenous rights can shape consumer preferences, market demand, and brand reputation in the livestock industry (Reisch, Eberle & Lorek, 2019). Harmonizing these standards across countries and ensuring their effective implementation are essential for fostering sustainable trade in livestock products while addressing global environmental and social challenges. Trade policies play a multifaceted role in shaping the dynamics of livestock exports, influencing market access, competitiveness, and regulatory compliance. Tariffs, trade agreements, subsidies, and trade facilitation measures can either facilitate or hinder livestock trade flows, depending on their design and implementation. Moreover, trade policies intersect with broader issues such as intellectual property rights, environmental standards, and social regulations, shaping the sustainability and inclusivity of livestock trade systems. Therefore, policymakers, industry stakeholders, and

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international organizations must navigate these complexities and adopt coherent and transparent trade policies that promote sustainable development, food security, and economic prosperity.

### 1.1 Statement of the Problem

Despite the significant contribution of livestock exports to agricultural economies worldwide, the sector faces numerous challenges influenced by trade policies. For instance, according to recent statistics from the Food and Agriculture Organization of the United Nations (FAO), global livestock exports experienced a growth rate of 4.6% annually from 2012 to 2018, reaching a total value of \$95 billion in 2018 (FAO, 2020). However, this growth is unevenly distributed across regions and countries due to variations in trade policies, market access barriers, and regulatory frameworks. While some countries benefit from preferential trade agreements and tariff reductions, others encounter obstacles such as non-tariff barriers, sanitary regulations, and trade disputes, limiting their export potential (Grote & Reiche, 2017). Despite the importance of trade policies in shaping livestock exports, there is a lack of comprehensive research addressing the specific mechanisms through which trade policies impact export dynamics, market competitiveness, and sustainable development in the livestock sector. This study aims to fill existing research gaps by conducting a comprehensive analysis of the relationship between trade policies and livestock exports, focusing on identifying key determinants, trends, and implications for stakeholders. By examining the effects of tariffs, trade agreements, subsidies, and non-tariff barriers on livestock trade flows, the study seeks to provide empirical evidence and policy insights to inform decision-making processes at the national and international levels (Hoekman & Mavroidis, 2016). The findings of this study will benefit policymakers, agricultural producers, exporters, and international organizations involved in trade negotiations and agricultural development initiatives. Specifically, policymakers can use the research findings to design and implement trade policies that promote the competitiveness, sustainability, and inclusivity of livestock exports, thereby contributing to economic growth, rural development, and poverty reduction (OECD, 2020). Additionally, agricultural producers and exporters can leverage the insights to adapt their strategies, enhance market access, and mitigate risks associated with changing trade dynamics, ultimately improving their competitiveness and resilience in the global marketplace (UNCTAD, 2019). Overall, this study aims to generate actionable knowledge that addresses real-world challenges and contributes to the advancement of trade policy frameworks and livestock export strategies in an increasingly interconnected and dynamic global economy.

### 2.0 LITERATURE REVIEW

### 2.1 Theoretical Review

## 2.1.1 Theory of Comparative Advantage

Originated by David Ricardo, the Theory of Comparative Advantage suggests that countries should specialize in producing goods and services in which they have a lower opportunity cost relative to other countries, and then trade these goods internationally (Ricardo, 1817). This theory emphasizes the efficiency gains from trade, as countries can allocate their resources more effectively by focusing on industries where they have a comparative advantage. In the context of "Trade Policies and Livestock Exports," the Theory of Comparative Advantage provides insights into why certain countries specialize in livestock production and export, based on factors such as natural resources, climate suitability, and technological capabilities. For example, countries with abundant grazing lands and low labor costs may have a comparative advantage in livestock production, allowing them to export surplus products to other countries (World Bank, 2017). Understanding the principles of comparative advantage can inform policymakers and stakeholders about the potential benefits of trade liberalization

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and specialization in the livestock sector, leading to more efficient allocation of resources and enhanced competitiveness in global markets.

# 2.1.2 Political Economy Theory

Political Economy Theory examines the interplay between political processes, economic interests, and policy outcomes, highlighting the role of domestic and international factors in shaping trade policies and market dynamics (Gilpin, 1987). This theory emphasizes the influence of vested interests, lobbying activities, and institutional frameworks on trade policy formulation and implementation. In the context of "Trade Policies and Livestock Exports," Political Economy Theory helps to explain the complex interactions between government interventions, industry stakeholders, and international trade negotiations affecting the livestock sector. For instance, domestic agricultural lobbies may advocate for protectionist measures such as tariffs and subsidies to shield domestic producers from foreign competition, leading to distortions in livestock trade flows and market access (Hiscox, 2006). By analyzing the political economy of trade policies, researchers can uncover underlying power dynamics, vested interests, and policy preferences that shape the regulatory environment for livestock exports, informing strategies for trade policy reform and institutional governance.

## 2.1.3 Institutional Theory

Originating from scholars such as Douglass North, Institutional Theory examines how formal and informal institutions shape economic behavior, decision-making processes, and regulatory outcomes within societies (North, 1990). This theory emphasizes the role of institutions in providing the rules, norms, and incentives that govern individual and collective actions, influencing the performance and evolution of economic systems over time. In the context of "Trade Policies and Livestock Exports," Institutional Theory helps to elucidate the institutional arrangements, regulatory frameworks, and governance structures that underpin trade policies and market access in the livestock sector. For example, international trade agreements, standards-setting bodies, and dispute resolution mechanisms constitute institutional arrangements that govern livestock trade relations among countries (Gallagher et al., 2020). By analyzing the institutional context of trade policies, researchers can identify barriers to trade, institutional gaps, and opportunities for institutional reform to enhance the transparency, predictability, and efficiency of livestock export markets, fostering sustainable economic development and poverty reduction (OECD, 2020).

# 2.2 Empirical Review

Smith & Jones (2021) examined the effects of free trade agreements (FTAs) on livestock exports in selected countries. The researchers employed a quantitative approach, utilizing trade data and econometric modeling to analyze the relationship between FTAs and livestock export volumes. The study found that countries participating in FTAs experienced significant increases in livestock exports compared to non-participating countries. However, the magnitude of the effect varied depending on the specific provisions and market access conditions negotiated in the FTAs. The study recommends that policymakers consider the potential benefits and trade-offs of FTAs in the livestock sector, emphasizing the importance of transparent negotiations, stakeholder engagement, and monitoring mechanisms to ensure equitable outcomes for domestic producers and exporters.

Ahmed & Rahman (2018) investigated the impact of trade policy reforms on livestock exports in a developing country context. The researchers conducted a case study analysis, combining qualitative interviews with key stakeholders, policy document review, and quantitative analysis of trade data. The study found that trade policy reforms, including tariff reductions and export promotion measures, led to significant increases in livestock exports and improved market access for domestic producers.

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However, challenges such as infrastructure constraints and regulatory barriers hindered the full realization of export potential. The study recommends targeted investments in infrastructure, logistics, and quality standards to enhance the competitiveness and sustainability of livestock exports in the context of trade policy reforms.

Chen & Kim (2016) examined the impact of sanitary and phytosanitary (SPS) measures on livestock exports across different countries. The researchers conducted a cross-country analysis, combining qualitative surveys with quantitative analysis of SPS regulations, export volumes, and trade patterns. The study found that stringent SPS regulations in importing countries significantly affected livestock export volumes, with compliance costs and administrative burdens disproportionately affecting small-scale producers and exporters. The study recommends capacity-building support, technical assistance, and harmonization efforts to facilitate SPS compliance and improve market access for livestock exporters, particularly in developing countries.

Wang & Li (2020) investigated the effects of trade disputes on livestock exports, focusing on policy responses and market dynamics. The researchers conducted a qualitative analysis, reviewing trade dispute cases, policy documents, and industry reports to assess the impact of trade tensions on livestock trade flows. The study found that trade disputes, such as anti-dumping investigations and retaliatory tariffs, disrupted livestock export markets, leading to price volatility, supply chain disruptions, and uncertainty for producers and exporters. The study recommends proactive engagement in trade negotiations, diversification of export markets, and contingency planning to mitigate the risks associated with trade disputes and safeguard the interests of livestock stakeholders.

Nguyen & Hoang (2019) assessed the implications of climate change policies, such as carbon pricing and emissions regulations, on livestock exports at the global level. The researchers employed a combination of econometric modeling, scenario analysis, and stakeholder consultations to evaluate the potential impacts of climate policies on livestock production and trade. The study found that climate change policies aimed at reducing greenhouse gas emissions could affect livestock production costs, competitiveness, and market access, particularly for countries with high emission intensity in the livestock sector. The study recommends integrating climate change considerations into trade policy frameworks, promoting sustainable livestock production practices, and incentivizing investments in low-carbon technologies to mitigate the adverse effects of climate policies on livestock exports.

Kiptarus & Muthama (2021) examined the role of trade facilitation measures, such as customs reforms and border management improvements, in promoting livestock exports in East Africa. The researchers conducted a mixed-methods study, combining quantitative analysis of trade data with qualitative interviews and focus group discussions with stakeholders along the livestock value chain. The study found that trade facilitation measures, such as simplified customs procedures and infrastructure investments, reduced transaction costs and improved market access for livestock exporters in East Africa, leading to increased export volumes and revenue generation. The study recommends scaling up successful trade facilitation initiatives, strengthening regional cooperation, and addressing remaining bottlenecks in trade logistics to further enhance the competitiveness and sustainability of livestock exports in East Africa.

Liu & Lu (2018) investigated the impact of trade policy uncertainty on livestock exports at the firm level, focusing on investment decisions, export strategies, and risk management practices. The researchers conducted a survey-based study, collecting data from livestock exporters on their perceptions of trade policy uncertainty, investment intentions, and export behavior. The study found that trade policy uncertainty, characterized by fluctuations in tariffs, trade agreements, and geopolitical tensions, influenced firms' decisions to invest in export capabilities, enter new markets, and diversify

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product portfolios. The study recommends enhancing transparency in trade policy formulation, providing policy certainty and predictability for livestock exporters, and offering support mechanisms to help firms navigate uncertain trade environments and mitigate risks.

### 3.0 METHODOLOGY

The study adopted a desktop research methodology. Desk research refers to secondary data or that which can be collected without fieldwork. Desk research is basically involved in collecting data from existing resources hence it is often considered a low cost technique as compared to field research, as the main cost is involved in executive's time, telephone charges and directories. Thus, the study relied on already published studies, reports and statistics. This secondary data was easily accessed through the online journals and library.

### 4.0 FINDINGS

This study presented both a contextual and methodological gap. A contextual gap occurs when desired research findings provide a different perspective on the topic of discussion. For instance, Nguyen & Hoang (2019) assessed the implications of climate change policies, such as carbon pricing and emissions regulations, on livestock exports at the global level. The researchers employed a combination of econometric modeling, scenario analysis, and stakeholder consultations to evaluate the potential impacts of climate policies on livestock production and trade. The study found that climate change policies aimed at reducing greenhouse gas emissions could affect livestock production costs, competitiveness, and market access, particularly for countries with high emission intensity in the livestock sector. The study recommends integrating climate change considerations into trade policy frameworks, promoting sustainable livestock production practices, and incentivizing investments in low-carbon technologies to mitigate the adverse effects of climate policies on livestock exports. On the other hand, the current study focused on investigating trade policies and livestock exports.

Secondly, a methodological gap also presents itself, for example, Nguyen & Hoang (2019) in assessing the implications of climate change policies, such as carbon pricing and emissions regulations, on livestock exports at the global level; they employed a combination of econometric modeling, scenario analysis, and stakeholder consultations to evaluate the potential impacts of climate policies on livestock production and trade. Whereas, the current study adopted a desktop research method.

## 5.0 CONCLUSION AND RECOMMENDATIONS

### 5.1 Conclusion

The comprehensive study presents a nuanced understanding of the complex interactions between trade policies and the dynamics of livestock exports. Through an extensive review of empirical studies, the research has shed light on various factors influencing livestock trade flows, market access, and competitiveness in a globalized economy. The findings underscore the significant role of trade policies, including tariffs, trade agreements, sanitary regulations, and trade disputes, in shaping the landscape of livestock exports across different regions and countries.

One of the key conclusions drawn from the study is the importance of trade agreements and regional integration initiatives in facilitating livestock exports. The analysis reveals that countries participating in free trade agreements (FTAs) and regional trade blocs tend to experience higher levels of livestock trade and increased market access opportunities. Moreover, preferential trade agreements contribute to harmonizing regulatory standards, reducing trade barriers, and promoting mutual recognition of veterinary certifications, thus facilitating smoother trade flows for livestock products.

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Another notable conclusion is the impact of non-tariff measures, such as sanitary and phytosanitary (SPS) regulations, on livestock exports. The study highlights how stringent SPS requirements in importing countries can pose challenges for livestock exporters, particularly small-scale producers and exporters in developing countries. Compliance with SPS standards often entails significant costs and administrative burdens, affecting the competitiveness and market access of livestock products. Addressing these non-tariff barriers through capacity-building support, technical assistance, and regulatory harmonization efforts is crucial to enhancing the sustainability and inclusivity of livestock trade.

Furthermore, the study underscores the role of trade disputes and policy uncertainty in shaping livestock export dynamics. Trade tensions, anti-dumping investigations, and retaliatory tariffs can disrupt livestock markets, leading to price volatility, supply chain disruptions, and uncertainty for producers and exporters. The analysis emphasizes the importance of transparent and predictable trade policy frameworks, proactive engagement in trade negotiations, and risk management strategies to mitigate the adverse effects of trade disputes on livestock trade flows.

Overall, the study underscores the multifaceted nature of trade policies and their implications for livestock exports. By understanding the complex interplay between trade policies, market dynamics, and regulatory frameworks, policymakers, industry stakeholders, and international organizations can devise more effective strategies to promote sustainable development, economic growth, and poverty reduction in the livestock sector. The findings underscore the need for coordinated efforts to address trade barriers, enhance market access, and foster a conducive environment for livestock trade, thereby unlocking the full potential of livestock exports to contribute to food security, rural livelihoods, and global trade integration.

### **5.2 Recommendations**

One key recommendation is to diversify export markets for livestock products. Given the uncertainties and risks associated with trade policies, particularly in the context of trade disputes and protectionist measures, it is essential for livestock-exporting countries to explore and develop alternative markets. By expanding export destinations, countries can reduce their dependence on specific markets and mitigate the adverse effects of trade disruptions. This strategy involves proactive market research, targeted marketing campaigns, and strategic alliances with trading partners to access new markets and segments.

Another recommendation is to invest in quality assurance systems and standards compliance to meet the sanitary and phytosanitary (SPS) requirements of importing countries. As stringent SPS regulations often serve as barriers to market access for livestock exporters, investing in infrastructure, technology, and capacity building to ensure compliance with international standards is crucial. This includes improving animal health management, food safety practices, and traceability systems to enhance the credibility and reliability of livestock exports in global markets.

The study recommends promoting sustainable production practices in the livestock sector to meet growing consumer demand for ethically sourced and environmentally friendly products. This involves adopting environmentally sustainable farming methods, reducing carbon emissions, and promoting animal welfare standards throughout the supply chain. By aligning livestock production with sustainability goals, countries can enhance their market competitiveness, access premium markets, and meet the evolving preferences of consumers and importers for sustainably produced livestock products.

Improving trade facilitation measures is another critical recommendation to streamline export procedures, reduce transaction costs, and enhance the efficiency of livestock trade flows. This includes

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investing in modernized customs systems, harmonizing trade regulations, and facilitating border clearance processes to expedite the movement of livestock products across borders. By reducing bureaucratic hurdles and administrative burdens, countries can improve the competitiveness of their livestock exports, attract investment, and foster greater participation in global value chains.

The study highlights the importance of strengthening policy coordination and stakeholder engagement to formulate coherent and effective trade policies for the livestock sector. This involves fostering dialogue and collaboration among government agencies, industry associations, academic institutions, and civil society organizations to address the diverse needs and interests of stakeholders. By promoting inclusive policymaking processes and participatory decision-making, countries can enhance the legitimacy, ownership, and effectiveness of trade policies, leading to more sustainable and inclusive outcomes for the livestock sector.

Lastly, the study recommends the development of risk management strategies to mitigate the potential impacts of trade disruptions, market volatility, and external shocks on livestock exports. This includes establishing contingency plans, diversifying export portfolios, and implementing hedging mechanisms to manage risks effectively. Additionally, countries can strengthen social safety nets, provide financial support, and offer technical assistance to assist livestock producers and exporters during periods of market uncertainty or crisis. By proactively managing risks and building resilience, countries can safeguard the stability and competitiveness of their livestock export sectors in an increasingly volatile and interconnected global economy.

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