



**Assessing the Economic Impact of Arugambe, Sri Lanka Tourism Development: A Case Study of Livelihood Enhancement Strategies for Local Communities.**

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Bachelor of Hospitality and Tourism Experience Management

Bachelor's Thesis

2024

## Abstract

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**Degree** - Bachelor of Hospitality Management.

**Thesis Topic**- Assessing the Economic Impact of Arugambe, Sri Lanka Tourism Development: A Case Study of Livelihood Enhancement Strategies for Local Communities

**Number of pages and appendix**

52+ 1

This thesis explores the economic impacts of tourism development on local communities in Arugambay, examining both the benefits and challenges experienced by residents. The research investigates key issues such as revenue generation, employment stability, environmental sustainability, and cultural dynamics, while also providing recommendations for fostering sustainable tourism practices.

Primarily, the study highlights the duality of tourism's economic influence, emphasizing significant benefits such as revenue generation and job creation, while also addressing challenges like economic dependency, seasonal instability, and environmental degradation. The study draws on a theoretical framework rooted in sustainable tourism and livelihood enhancement strategies to contextualize the findings.

The research employs a qualitative approach, utilizing semi-structured interviews with key stakeholders, including local residents, business owners, and tourism officials. This method provides in-depth insights into stakeholder perspectives and findings are corroborated through a literature review to enhance reliability and validity.

The research identifies that economic impacts of tourism development in Arugambay are mixed, with significant benefits and challenges for local communities. Tourism contributes greatly to revenue generation, job creation, and skill development, improving infrastructure and fostering cultural exchange. However, it also leads to economic challenges such as price inflation, seasonal employment instability, environmental degradation, and cultural erosion. To maximize positive outcomes, stakeholders recommend strategies like community training programs, infrastructure development, collaboration, economic diversification, and sustainable practices. These measures aim to enhance local livelihoods, reduce dependency on tourism, and promote long-term sustainability.

Key suggestions focus on enhancing infrastructure, fostering collaboration, promoting sustainable jobs, safeguarding culture, conserving the environment, and supporting local training and economic diversification.

In summary, this thesis contributes to the broader literature on tourism development by offering practical insights and recommendations to promote equitable and sustainable outcomes for local communities in Arugambay.

**Key words**

Tourism Development, Economic Impact, Sustainable Tourism, Local Communities, Arugambay

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# 1. Introduction

## 1.1 Background

Tourism is a major driver of Sri Lanka's economy, contributing 12.6% to the national GDP in 2019 and creating over 500,000 jobs both directly and indirectly (Central Bank of Sri Lanka, 2020). Arugambay, a prominent tourist destination, has seen a significant rise in tourism since the end of the civil war in 2009. Annual tourist arrivals to the area grew by 25% between 2010 and 2018, aided by the completion of key infrastructure projects like the Batticaloa-Ampara highway, which improved accessibility for both domestic and international visitors (Sri Lanka Tourism Development Authority, 2020). As a result, tourism has become a vital source of income for the local economy, transforming the livelihoods of many residents.

The growth of tourism has spurred the development of over 150 small and medium-sized enterprises (SMEs) in Arugambay, with guesthouses, hotels, and restaurants opening between 2012 and 2020. Approximately 70% of households in the area are now engaged in tourism-related activities, ranging from hospitality services to surf schools and retail (Pathirana et al., 2024). The industry generates over USD 5 million annually for the local economy, enabling many locals to shift from traditional jobs like fishing and agriculture to more profitable tourism ventures (SLTDA, 2021). This has led to a noticeable improvement in the standard of living for many residents, as wages in tourism-related jobs are significantly higher than those in traditional sectors (Vijayakumar et al., 2020).

Despite these positive economic impacts, the benefits of tourism have not been evenly distributed. While business owners and those directly involved in tourism have experienced substantial financial gains, many unskilled workers remain in low-paying jobs, with about 30% earning less than LKR 25,000 (USD 70) per month (Ratnayake, 2021). Additionally, the rising cost of living in Arugambay, particularly in housing, has made it increasingly difficult for locals to afford rent, as property prices have more than doubled since 2015 (Sujeewa, 2021). The rapid expansion of tourism has also put a strain on local infrastructure, particularly waste management systems, leading to environmental issues such as coastal erosion and ecosystem degradation (Muneera et al., 2016).

To ensure sustainable growth, it is crucial to implement strategies that balance economic development with environmental preservation and social equity. Diversifying the tourism offerings in Arugambay to include eco-tourism, cultural heritage tours, and year-round attractions could help reduce economic volatility during the off-season. Furthermore, investing in skills development for local

residents could provide them with better-paying job opportunities, thereby reducing income inequality. This study seeks to explore the economic impact of tourism on the livelihoods of the local community in Arugambay, with a focus on identifying sustainable solutions that ensure long-term prosperity for all residents.

## 1.2 Research Question

The main objective of this research is to answer the following question: How does tourism development in Arugambay, Sri Lanka, affect the economic livelihoods of local communities?

To explore this in detail, the study will address the following sub-questions:

1. What specific economic benefits do local communities experience due to tourism development in Arugambay?
2. What specific economic challenges do local communities face due to tourism development in Arugambay?
3. How can effective livelihood enhancement strategies be implemented to maximize positive outcomes and minimize negative impacts of tourism on local residents in Arugambay?

## 1.3 Narrowed Topic and Justification

This research focuses on assessing the economic impact of tourism development on the livelihoods of local communities in Arugambay, Sri Lanka. The study will investigate the economic benefits, challenges, and strategies for enhancing residents' livelihoods. It will explore various dimensions of tourism's influence on local economies, including job creation, income generation, and infrastructure improvement, as well as adverse effects such as rising living costs, seasonal income variability, and socio-economic disparities.

Arugambay has emerged as a significant tourist destination in Sri Lanka, known for its stunning surf beaches, vibrant culture, and natural beauty. As tourist numbers increase, it is crucial to analyze how this growth economically impacts local communities. Tourism offers benefits like job opportunities, increased income for local businesses, and improved infrastructure. Increased tourism can lead to employment in hospitality, retail, and transportation sectors, providing vital jobs for residents. Dyer et al. (2007) noted that tourism can create significant jobs in developing regions, alleviating poverty and improving living standards. Moreover, local businesses can thrive with rising tourist activity, benefiting local incomes. When local residents are involved in the tourism supply chain, they tend to experience more economic benefits (Scheyvens, 2007). The influx of tourists often leads to

necessary infrastructure improvements, enhancing the quality of life and providing essential services for local communities.

Conversely, tourism development presents economic challenges. Increased demand for goods and services due to tourism can lead to rising living costs, known as "tourism inflation," disproportionately affecting lower-income households (Sofronov, 2018). Many tourism-related jobs are seasonal, leading to income instability and financial insecurity, especially for those heavily reliant on seasonal tourism (Kumail et al., 2023). Additionally, there is a risk of income inequality, where tourism benefits may not be evenly distributed, resulting in some families profiting significantly while others see little economic improvement (Mason, 2020).

Given these dynamics, the research aims to explore effective livelihood enhancement strategies that can maximize tourism's positive impacts while minimizing its negative consequences. Strategies may include providing training and educational opportunities to equip locals for tourism sector employment and encouraging entrepreneurship to retain economic benefits within the community. This study seeks to offer a nuanced understanding of tourism's economic impacts on local livelihoods in Arugambay. The findings will inform local policymakers, business owners, and community leaders, fostering sustainable and equitable tourism development and contributing to a sustainable tourism model that supports economic growth and enhances the community's well-being.

#### **1.4 Significance of the Study**

The significance of this study lies in its potential to enhance understanding of tourism's multifaceted impacts on the economic livelihoods of local communities in Arugambay, Sri Lanka. As tourism becomes a key driver of economic growth in developing regions, this research is both timely and relevant. It will provide insights into the benefits, such as job creation and infrastructure development, as well as challenges like rising living costs and income inequality, helping policymakers develop strategies for equitable growth.

The study also contributes to the literature on sustainable tourism by offering empirical evidence specific to Arugambay, addressing a gap in understanding local tourism dynamics. Additionally, it emphasizes effective livelihood strategies, such as skill development and entrepreneurship, to help local communities maximize tourism benefits while mitigating challenges. The findings will not only

inform policy in Arugambay but could also serve as a model for similar tourist destinations, contributing to broader discussions on sustainable tourism practices.

## 2. Literature Review and Theoretical Framework

### 2.1 Overview of Tourism Development and Its Impacts on Local Communities of Arugam bay

The existing literature on tourism development reveals a complex interplay between tourism and its impacts on local communities, especially in developing countries. Numerous researchers have underscored tourism as a crucial driver of economic growth, emphasizing its role in job creation, income generation, and infrastructure improvement (Li et al., 2018; Cárdenas-García et al., 2015). In the context of Sri Lanka, Gnanapala and Karunathilaka (2016) found that local communities experience increased income levels due to employment opportunities generated by tourism. Furthermore, tourism often catalyzes investments in public infrastructure, benefiting both tourists and residents through improved roads, sanitation, and healthcare facilities (Mamirkulova et al., 2020).

Arugam bay, a small town located on the southeastern coast of Sri Lanka, exemplifies this phenomenon. Once a modest fishing village, Arugambay has transformed into a prominent tourist destination renowned for its exceptional surfing opportunities and stunning natural beauty (Raisal and Gunapalan, 2014). The rise of tourism began in the early 2000s, propelled by its unspoiled beaches and excellent surf breaks, which have earned the town international recognition as one of the top surfing spots globally, consistently ranked among the top ten by various travel publications (Weinert & Hasbrouck, 2021). However, this rapid influx of tourists has significantly impacted the local economy, environment, and social dynamics.

According to the Sri Lanka Tourism Development Authority (SLTDA), the area has seen a surge in small and medium-sized enterprises (SMEs), with over 150 new guesthouses, hotels, and restaurants established between 2012 and 2020. This expansion has generated substantial employment opportunities, particularly in hospitality, retail, and transportation services. It is estimated that nearly 70% of households in Arugambay are now engaged in tourism-related activities, whether directly through accommodations and surf schools or indirectly through support services (Pathirana et al., 2024). The economic benefits are evident, with tourism generating over USD 5 million in revenue annually for the local economy (SLTDA, 2021). This financial influx has enabled many residents to shift from traditional livelihoods, such as fishing and agriculture, to more lucrative tourism-related occupations. Consequently, the town has experienced a notable rise in entrepreneurial activities, with local business owners establishing guesthouses, restaurants, surf shops, and tour operations.

Many residents have improved their standard of living, as tourism provides higher wages than traditional sectors, where earnings averaged only LKR 15,000 (USD 40) per month before the tourism boom (Vijayakumar et al., 2020).

Despite these advantages, the rapid expansion of tourism has placed considerable strain on Arugambay's environment. During peak tourist seasons, the town's population swells, overwhelming local infrastructure, particularly waste management systems. The Ampara District Environmental Protection Agency reports that waste generation in Arugambay increases by nearly 200% during peak tourism months, with much of it ending up in unsanctioned landfills or polluting the ocean (Muneera et al., 2016). Additionally, the unregulated development of guesthouses and hotels along the coast has contributed to coastal erosion and the degradation of vital ecosystems, such as mangroves and coral reefs, threatening the long-term sustainability of tourism in the area.

The literature also highlights several challenges associated with tourism development in Arugambay, including seasonality, rising living costs, and economic dependency. Seasonal fluctuations in tourism can create income instability for local communities (Duro and Turrion-Prats, 2019). As tourism demand increases, residents may face rising living costs, driven by the influx of visitors that elevates prices for goods and services (Cheung and Li, 2019). This phenomenon can lead to tensions between residents and tourists, especially when local populations feel marginalized or economically strained. Overall, while tourism development offers substantial opportunities for economic growth and community improvement in Arugambay, it also presents significant challenges that necessitate careful management to ensure that local communities can thrive amidst these changing dynamics.

## **2.2 Economic Impacts of Tourism Development**

Tourism is widely recognized as a significant driver of economic development, particularly in regions heavily reliant on this industry (Li et al., 2015). Its economic impacts can be assessed through various dimensions, including job creation, income generation, investment in infrastructure, and overall contributions to GDP (Manzoor et al., 2019). This section examines these dimensions in depth, highlighting both the benefits and challenges associated with tourism development.

One of the most significant contributions of tourism to local economies is job creation. The tourism industry encompasses a broad spectrum of employment opportunities, from direct jobs in hospitality and travel services to indirect jobs in sectors such as retail and agriculture (Thommandru et al., 2023). According to the World Travel and Tourism Council (WTTC, 2020), tourism directly

contributed to the creation of 319 million jobs globally, which accounts for approximately 10% of total employment. This trend is particularly pronounced in developing countries, where tourism can represent a substantial portion of the workforce.

In Sri Lanka, the tourism sector is a vital source of employment, providing jobs for around 300,000 individuals directly and supporting an additional 1.5 million jobs indirectly (Central Bank of Sri Lanka, 2021). Research by Siriwardena and Silva (2017) highlights the importance of tourism in coastal regions, where service-oriented roles such as hospitality, guiding, and retail are predominant. This job creation not only boosts individual incomes but also contributes to the overall economic stability of communities, as families benefit from diversified income sources.

The economic benefits of tourism extend beyond mere job creation; they also encompass income generation. Households engaged in tourism-related activities typically experience higher income levels compared to those in non-tourism sectors (Kronenberg, 2022). Fernando et al. (2021) found that local families participating in tourism-related jobs had increased disposable income, allowing for improved living standards and greater access to education and healthcare.

Moreover, tourism often stimulates local economies by promoting spending on goods and services. Tourists contribute to the local economy through expenditures on accommodations, dining, entertainment, and transportation (Meyer and Meyer, 2015). A study by Mamirkulova et al. (2020) emphasized that the economic activity generated by tourism leads to a ripple effect, benefiting various sectors of the economy and enhancing the overall quality of life for residents. This influx of financial resources can foster entrepreneurship, as local businesses expand to meet the demands of visitors.

Tourism acts as a catalyst for infrastructure development, with significant implications for local communities. Improved infrastructure, including transportation, sanitation, healthcare, and communication facilities, often accompanies tourism growth (Giampiccoli and Saayman, 2017). According to research by Mamirkulova et al. (2020), tourism investments contribute to essential infrastructure improvements that benefit both tourists and local residents.

Infrastructure development not only enhances the visitor experience but also improves the quality of life for community members. Enhanced roads, public transportation systems, and utilities can lead to better accessibility and connectivity, ultimately fostering regional economic growth (Diene, 2024).

Additionally, investments in infrastructure can attract further business ventures, creating a conducive environment for both tourism and other industries (Rebstock, 2017).

Tourism is a significant contributor to national and local GDP, particularly in countries where the sector plays a crucial role in the economy. The WTTC (2020) estimates that tourism accounted for approximately 10.4% of global GDP, underscoring its importance as a driver of economic growth. In Sri Lanka, the tourism sector contributes about 5% to the national GDP, reflecting its integral role in the country's economic landscape (Central Bank of Sri Lanka, 2021).

The contributions of tourism to GDP are not limited to direct spending by tourists; they also encompass indirect and induced effects. Indirect contributions arise from the supply chain activities related to tourism, such as the production of goods and services that support the industry. Induced effects occur when employees in the tourism sector spend their income in the local economy (Mayer and Vogt, 2016). Research by Gnanapala and Karunathilaka (2016) indicates that the economic multiplier effect of tourism can significantly enhance overall economic performance, leading to sustained growth in local and national economies.

Despite the numerous benefits associated with tourism development, there are notable challenges related to economic dependency. Communities heavily reliant on tourism may face vulnerabilities due to fluctuations in visitor numbers, seasonality, and external shocks such as natural disasters or global economic downturns (Tsao and Ni, 2016). Duro and Turrion-Prats (2019) highlight that seasonality can lead to economic instability, as income streams may diminish during off-peak periods, forcing local businesses to seek alternative revenue sources.

Additionally, as tourism demand increases, local residents may experience rising living costs due to inflation driven by increased demand for goods and services (Cheung and Li, 2019). This phenomenon can create tension between residents and tourists, particularly in areas where local populations feel marginalized or economically strained. Furthermore, wealth generated from tourism often concentrates among a few individuals or businesses, exacerbating social inequalities within communities (Samarathunga, 2019).

To ensure that the economic impacts of tourism are sustainable and equitable, there is a growing emphasis on implementing responsible tourism practices. Sustainable tourism aims to minimize negative impacts while maximizing benefits for local communities and the environment. This approach

emphasizes the importance of community engagement in tourism planning and development, ensuring that local residents have a voice in decision-making processes (Richardson, 2021).

Research by Imam and Ananda (2022) advocates for the integration of sustainability into tourism strategies to address challenges related to income seasonality and rising living costs. By promoting sustainable tourism practices, communities can build resilience against economic fluctuations and ensure that the benefits of tourism are widely distributed.

### **2.3 Social and Cultural Dimensions of Tourism Development**

Tourism profoundly influences the social and cultural landscapes of host communities, generating a complex interplay of benefits and challenges. The relationship between tourism and local cultures encompasses various dimensions, including cultural exchange, the commodification of local traditions, community cohesion, and social inequalities (Amoiradis et al., 2021).

At the heart of the social dimensions of tourism is the concept of cultural exchange. Tourism provides a platform for interaction between visitors and locals, fostering mutual understanding and appreciation of diverse cultures (Selvakumar and Seenivasan, 2024). This interaction often results in the sharing of traditions, languages, and customs, which can enrich both tourists and residents (Wu et al., 2023). For example, Kastenholz and Gronau (2022) highlight how tourism can facilitate cross-cultural understanding, allowing locals to showcase their heritage and fostering a sense of pride in cultural identity. Such exchanges can contribute to the preservation of local customs and practices, as communities recognize the value of their unique heritage in attracting visitors.

However, the cultural impacts of tourism are not uniformly positive. One of the significant challenges is the commodification of local cultures, where cultural expressions are transformed into marketable products to satisfy tourist expectations (Shahzalal, 2016). Shilongo (2020) argues that this commodification can dilute authentic cultural practices, leading to a superficial representation of local traditions. In some cases, communities may feel pressured to alter their cultural practices or performances to cater to tourist preferences, raising concerns about the authenticity and integrity of their cultural heritage (Esfehani and Albrecht, 2019).

Tourism also influences social dynamics within communities. While it can promote community cohesion by providing a shared interest in local attractions, it may also exacerbate existing social inequalities (Jamal and Dredge, 2014). Giampiccoli and Saayman (2018) note that the economic benefits

of tourism are often concentrated among a small segment of the population, leading to disparities between those who benefit from tourism and those who do not. In Sri Lanka, research indicates that while tourism can contribute to local economies, the wealth generated tends to accumulate with a few individuals or businesses, leaving many community members at a disadvantage (Samarathunga, 2019). This uneven distribution of benefits can create tensions between local residents and business owners, particularly in areas with high tourist traffic.

Furthermore, the influx of tourists can lead to changes in social structures and lifestyles within communities. As local populations adapt to the demands of the tourism industry, traditional ways of life may be altered or diminished (Sharpley, 2018). For instance, the rise of tourism-related jobs can shift employment patterns, leading some community members to abandon traditional occupations in favor of tourism-related work. While this shift may provide economic opportunities, it can also result in the erosion of traditional skills and practices, which are often integral to a community's cultural identity (Lei et al., 2023).

Tourism can also create challenges related to social integration and cohesion. The presence of large numbers of tourists can sometimes lead to cultural clashes, where differing values and behaviors can generate friction between locals and visitors. In regions heavily dependent on tourism, there may be a growing perception among residents that their culture is being exploited for profit, leading to feelings of resentment or alienation (Sari et al., 2014).

Despite these challenges, there are opportunities for positive social outcomes through responsible tourism practices. Community-based tourism initiatives, for example, empower local residents to take an active role in tourism development, allowing them to showcase their culture authentically while benefiting economically. Such initiatives can foster a sense of ownership and pride among community members, encouraging the preservation of cultural heritage and promoting social cohesion (Budeanu et al., 2016).

## **2.4 Environmental Considerations in Tourism Development**

The environmental impacts of tourism development are multifaceted, encompassing both challenges and opportunities that influence local ecosystems, natural resources, and overall sustainability (Farukh et al., 2023). As tourism continues to grow, particularly in ecologically sensitive areas, understanding these environmental considerations becomes crucial for fostering responsible tourism practices that benefit both the industry and local communities (Budeanu et al., 2016).

One of the primary environmental concerns associated with tourism is habitat degradation. Increased visitor numbers often lead to habitat destruction, particularly in fragile ecosystems such as coastal regions, mountains, and forests (Chandel, 2022). Sadeghian (2019) highlights those activities such as construction of tourism infrastructure, increased foot traffic, and pollution can significantly alter natural habitats, threatening biodiversity and ecosystem integrity. In coastal areas like Arugambay, the pressures of tourism can strain natural resources and lead to issues such as beach erosion, destruction of coral reefs, and loss of wildlife habitats (Mustafa, 2021).

Pollution is another critical issue linked to tourism development. The influx of tourists often results in increased waste generation, including litter, sewage, and plastic pollution, which can have detrimental effects on local environments (Azarmi et al., 2019). According to Choi et al. (2017), improper waste management in tourist areas can lead to water contamination, negatively impacting marine life and local communities that rely on these resources for their livelihoods. Additionally, noise pollution from tourism-related activities can disrupt local wildlife and diminish the natural experience for both residents and visitors.

Resource depletion is a significant concern, particularly in regions where tourism relies heavily on natural resources (Ali et al., 2021). Water scarcity is a pressing issue in many tourist destinations, as the demand for water often outstrips supply, particularly during peak tourist seasons. This can create tensions between tourists and local residents who depend on these resources for their daily needs (Ricart et al., 2021). Studies by Kitheka and Backman (2008) indicate that the over-extraction of water for tourism-related facilities can lead to diminished water quality and availability for local communities, exacerbating existing challenges related to water management.

Despite these environmental challenges, tourism can also serve as a catalyst for conservation efforts. Responsible tourism initiatives, such as eco-tourism, promote sustainable practices that aim to protect natural environments while providing economic benefits to local communities (Chan et al., 2021). Eco-tourism focuses on minimizing the ecological footprint of tourism activities and encourages visitors to engage in conservation efforts (Rezaeinejad and Khaniwadekar, 2021). Shoo and Songorwa (2013) emphasize that when managed responsibly, tourism can raise awareness about environmental issues and generate funds for conservation programs, ultimately supporting the protection of endangered species and habitats.

Community involvement in tourism development can also enhance environmental sustainability (Sharma and Bhat, 2023). Engaging local communities in decision-making processes and promoting community-based tourism initiatives can empower residents to take an active role in protecting their natural resources (Dolezal and Novelli, 2022). These initiatives often prioritize the preservation of local ecosystems and cultural heritage, fostering a sense of stewardship among community members (Dolezal and Novelli, 2022).

Moreover, sustainable tourism practices can contribute to climate change mitigation by promoting energy efficiency, reducing carbon emissions, and encouraging the use of renewable energy sources in tourism facilities (Pan et al., 2018). Research indicates that implementing sustainable practices in the tourism sector can significantly reduce the industry's overall environmental impact while enhancing the resilience of local communities to climate change (Pedapalli et al., 2022).

## **2.5 Livelihood Enhancement Strategies for Local Communities**

As tourism development continues to expand in Arugambe, it is vital to implement comprehensive livelihood enhancement strategies that empower local communities to capitalize on the economic opportunities while mitigating potential adverse effects (Rahman and Baddam, 2021). A primary focus of these strategies is promoting income diversification among residents (Rahman and Baddam, 2021). The tourism sector, while lucrative, can create significant vulnerabilities if individuals and households depend solely on it for their livelihoods (Torell et al., 2017). For instance, fluctuations in tourist arrivals during off-peak seasons can lead to economic instability, making it essential for locals to engage in multiple economic activities. Encouraging diversification into sectors such as agriculture, artisanal crafts, or small-scale fishing can provide a safety net during lean tourist seasons, thereby stabilizing household incomes (Pathirana et al., 2024).

Capacity building and skills training are also critical components of livelihood enhancement strategies. By providing targeted training programs in hospitality management, customer service, culinary skills, and sustainable tourism practices, local residents can be equipped with the necessary skills to thrive in the evolving tourism landscape (Pasanchay and Schott, 2021). Such initiatives not only enhance individual earning potential but also elevate the overall quality of service provided to tourists, contributing to a more sustainable and competitive tourism sector (Gnanapala & Karunathilaka, 2016). Furthermore, promoting community-based tourism (CBT) can serve as a transformative approach to empower local communities. CBT initiatives enable residents to actively participate in tourism development while ensuring that the economic benefits are equitably distributed (Krajinović, 2020). By curating unique local experiences—such as cultural performances, guided nature walks,

or traditional cooking classes—CBT can attract a niche segment of tourists interested in authentic experiences (Sharma et al., 2024). This not only provides direct income to community members but also fosters a sense of ownership and pride, motivating residents to preserve their cultural heritage and natural environment (Muneera et al., 2016).

Supporting the establishment and growth of small and medium-sized enterprises (SMEs) is another essential strategy for enhancing livelihoods in Arugambe. Local governments, non-governmental organizations (NGOs), and community groups can play a pivotal role in providing financial assistance, grants, and low-interest loans to help entrepreneurs develop tourism-related businesses (Spenceley, 2024). Additionally, facilitating access to resources such as marketing support, business development training, and networking opportunities can significantly strengthen local enterprises, thereby boosting employment and income generation within the community (Mamirkulova et al., 2020).

Moreover, sustainable resource management practices must be at the forefront of these strategies to ensure long-term viability in tourism-related economic activities. Engaging local communities in conservation efforts—such as the protection of coastal ecosystems and effective waste management—can foster a collective responsibility towards environmental stewardship (Pan et al., 2018). Educational initiatives that raise awareness about the importance of environmental conservation empower residents to actively participate in preserving their natural surroundings, which is essential for maintaining the attractiveness of the area for both tourists and locals alike (Li et al., 2018).

Infrastructure development is also critical for enhancing livelihoods in Arugambe. Improved transportation networks, sanitation facilities, and waste management systems can significantly enhance the overall experience for tourists while providing essential services for local residents (Stone and Nyaupane, 2016). Collaborative efforts between government authorities and local communities to prioritize infrastructure projects can lead to enhanced accessibility and quality of life for all stakeholders (Vijayakumar et al., 2020).

Lastly, engaging local communities in decision-making processes regarding tourism development is crucial for ensuring that their voices and needs are adequately represented. Policy advocacy efforts should focus on creating an inclusive framework that empowers residents to participate in planning and management processes (Wondirad and Ewnetu, 2019). Community involvement in decision-

making can help identify local needs and priorities, ensuring that tourism development aligns with the aspirations of the community (Duro and Turrion-Prats, 2019).

## **2.6 Theoretical Frameworks for Analyzing Tourism Development**

The theoretical frameworks that underpin this study on the economic impact of tourism development in Arugambay, Sri Lanka, are essential for understanding the various dynamics at play within local communities. Several key theories provide insight into how tourism can influence economic livelihoods, the environment, and social structures.

### **2.6.1 Sustainable Livelihoods Framework (SLF)**

The Sustainable Livelihoods Framework (SLF) is a key theoretical model for evaluating how tourism development impacts local communities, emphasizing the interrelationships between various forms of capital: human, social, financial, physical, and natural. This framework offers a comprehensive approach to assessing how tourism affects the sustainability of livelihoods (Scoones, 1998; Natarajan et al., 2022).

Human capital, which includes the skills, knowledge, and experience individuals possess, is significantly impacted by tourism development. Tourism creates employment opportunities in areas such as hospitality, guiding, and retail, thus enhancing local skills and employability. For example, training programs initiated alongside tourism projects can improve job security and residents' participation in the tourism economy, thereby enhancing livelihoods (Ashley, 2000; Natarajan et al., 2022). This improvement in human capital is a critical driver of sustainable livelihood strategies.

Social capital pertains to community networks and social cohesion. Tourism can enhance social capital by fostering collaboration around shared cultural promotion and heritage preservation. However, rapid tourism growth may lead to social fragmentation by disrupting traditional social structures, which could lead to increased conflict and reduced community resilience. Understanding tourism's influence on social capital is essential for ensuring the well-being of local communities (Pretty, 2003; Natarajan et al., 2022).

Financial capital refers to the financial resources available to individuals and communities. Tourism can improve financial capital through employment and entrepreneurial opportunities. Local residents can establish businesses, such as restaurants and tour companies, which directly benefit from tourist demand. However, equitable distribution of financial benefits is crucial; otherwise, tourism could

increase local economic inequalities, limiting the positive impact on the broader community (Shen, Hughey, & Simmons, 2008; Natarajan et al., 2022).

Physical capital, including infrastructure and facilities that support livelihoods, also benefits from tourism development. Tourism often necessitates improvements in transportation, sanitation, and communication infrastructure, which benefit both tourists and local residents by improving access to essential services and resources. However, it is vital to ensure that these infrastructure developments are sustainable and minimize negative environmental impacts, such as habitat destruction and pollution (Meyer, 2007; Natarajan et al., 2022).

Natural capital encompasses the natural resources and ecosystems on which communities depend. While tourism can generate significant economic benefits, it can also strain local ecosystems. Increased tourist activity, particularly in fragile environments such as coastal areas like Arugambay, may lead to resource depletion and environmental degradation. However, sustainable tourism practices, such as eco-tourism, can promote conservation efforts and raise awareness about environmental protection, highlighting the importance of a balanced approach to tourism development (Gössling, 2002; Natarajan et al., 2022).

The application of the SLF in the context of tourism in Arugambay aims to explore how tourism contributes to sustainable livelihoods while addressing the associated challenges. By analyzing the interaction between tourism development and the various forms of capital within the community, this study seeks to provide a framework for developing tourism strategies that maximize positive impacts. A participatory approach, involving local residents in decision-making, is crucial to ensure that tourism development aligns with community priorities and fosters long-term well-being (Chambers & Conway, 1992; Natarajan et al., 2022).

### **2.6.2 Tourism Area Life Cycle (TALC) Theory**

The Tourism Area Life Cycle (TALC) theory, introduced by Richard Butler in 1980, offers a structured model for analyzing the evolution of tourist destinations over time. The framework outlines how destinations undergo distinct phases of development, characterized by varying levels of tourism activity, visitor numbers, and impacts on the local community and environment. The model identifies five primary stages: exploration, involvement, development, consolidation, and stagnation (Butler, 1980).

In the exploration stage, a destination is relatively unknown and attracts a small number of adventurous, often independent, tourists. These visitors seek novel, authentic experiences in a location that is minimally impacted by tourism. Infrastructure is underdeveloped, and local communities may have little involvement in tourism activities at this point. The destination's potential for future tourism growth is recognized, but the impacts on both the environment and local residents remain minimal (Butler, 1980; Dodds & Butler, 2019).

As the destination enters the involvement stage, tourism begins to gain traction, and local communities become more actively engaged. Small-scale businesses, such as guesthouses, restaurants, and tour services, emerge to meet the needs of a growing number of visitors. Infrastructure improvements may begin, with better access to roads, utilities, and public services. While the economic benefits of tourism become more visible—through job creation and income generation—the community may still have limited influence over tourism planning and decision-making, with outside investors sometimes playing a larger role (Butler, 1980).

During the development stage, tourism becomes a dominant economic force in the destination. Larger investments are made in infrastructure, such as hotels, resorts, transportation, and recreational facilities, to cater to a significant increase in visitor numbers. This stage often sees the commercialization of the destination, with local culture and natural resources sometimes commodified for tourism purposes. This can lead to challenges, including environmental degradation, social inequalities, and over-dependence on tourism for economic growth. The uneven distribution of tourism's benefits may also create tension within the local community, as some groups profit more than others (Butler, 1980; Weaver, 2006).

In the consolidation stage, tourist arrivals continue to increase, but the growth rate starts to slow. The destination may approach a saturation point where its infrastructure and natural resources become strained. While the economic benefits of tourism are still evident, concerns over sustainability—such as the degradation of the local environment, cultural dilution, and the over-commercialization of attractions—become more pronounced. Communities may struggle to balance tourism's economic advantages with the need to preserve their cultural identity and ensure long-term environmental and social well-being (Butler, 1980; Cooper, 2012).

The stagnation stage signals a plateau or decline in visitor numbers. Various factors, including increased competition from newer destinations, changing tourist preferences, and environmental or infrastructural degradation, can contribute to this stagnation. As tourism begins to decline, the local economy, which has become heavily reliant on tourism, may face challenges. Businesses dependent

on tourism may see reduced profits, and local residents may experience economic hardships as a result. The destination may now require revitalization strategies, such as repositioning or diversifying its tourism offerings, to sustain its relevance in the competitive tourism market (Butler, 1980; Weaver & Lawton, 2014).

Applying the TALC framework to the tourism development in Arugambay provides valuable insights into the destination's current stage of evolution and its associated challenges. If Arugambay is identified in the development stage, stakeholders can focus on strategies that maximize economic benefits while mitigating negative impacts, such as adopting sustainable tourism practices and ensuring that local communities are actively involved in decision-making processes. On the other hand, if the destination is nearing stagnation, strategies for revitalization could include diversifying tourism products, encouraging eco-friendly tourism, and enhancing community participation to rejuvenate the local economy and protect natural resources.

The TALC model underscores the importance of sustainable tourism development, emphasizing that each stage requires specific strategies to ensure the destination's long-term viability. Engaging local communities during the involvement and development stages is crucial for promoting equitable growth and ensuring that tourism aligns with local values and priorities. Furthermore, continuous monitoring of tourism impacts, and adaptive management approaches are essential for maintaining the balance between economic growth, environmental preservation, and community well-being, as destinations move through the life cycle (Butler, 1980; Saarinen, 2006).

### **2.6.3 Social Exchange Theory (SET)**

Social Exchange Theory (SET) offers a valuable framework for examining the dynamics between tourists and local communities in the context of tourism development. Originally articulated by sociologists like George Homans (1958) and Peter Blau (1964), SET posits that social behaviour is shaped by an exchange process in which individuals or groups seek to maximize rewards and minimize costs. In tourism, this theory helps explain how local communities assess the economic, social, and cultural impacts of tourism, influencing their support or opposition to tourism development.

In the tourism context, SET explains how communities weigh the perceived benefits and costs of tourism. On the one hand, tourism can bring substantial economic gains through tourist spending on accommodations, dining, and recreational activities. These financial benefits may lead to job creation, increased income levels, and improved infrastructure. For instance, local businesses may

prosper from increased tourist activity, leading to a ripple effect that stimulates the broader community's economy (Ap, 1992; Gursoy, Jurowski, & Uysal, 2002). The economic advantages can be especially significant in developing regions where tourism represents a primary source of livelihood.

However, SET also underscores the potential drawbacks of tourism, highlighting the social and cultural costs that can accompany increased tourist numbers. One notable issue is cultural commodification, where local traditions and customs may be altered or simplified to cater to tourist expectations. This can lead to a loss of cultural authenticity, causing community members to feel that their heritage is being commercialized rather than respected (Cohen, 1988). Moreover, the economic benefits of tourism are often unevenly distributed within the community, leading to disparities that foster resentment and social tension. Locals who do not directly benefit from tourism may feel marginalized, exacerbating social divisions (Andereck et al., 2005).

By using SET, researchers and policymakers can gain deeper insights into how local residents perceive tourism. This involves understanding how communities balance the tangible rewards—such as financial benefits and job creation—against the intangible costs, including environmental degradation and social disruption. This balance is crucial in shaping community attitudes toward tourism. If residents perceive the benefits as outweighing the costs, they are more likely to support tourism development and engage positively with tourists (Nunkoo & Ramkissoon, 2011). Conversely, if the perceived negative impacts are greater, resistance to tourism may develop, potentially harming both community well-being and the tourism industry.

Reciprocity is another key principle of SET, emphasizing mutual exchanges between tourists and locals. Positive interactions can enhance social cohesion and goodwill, fostering mutual respect and understanding. For instance, tourists who actively engage with local culture, show respect for traditions, and contribute to the local economy can create a sense of pride among residents. These positive exchanges may strengthen community identity and contribute to the sustainability of both tourism and local culture (Tosun, 2002). On the other hand, negative exchanges—such as overcrowding, disrespectful tourist behaviour, or economic inequities—can strain relationships and lead to social tensions or hostility toward tourists.

In the context of Arugambay, applying Social Exchange Theory can provide valuable insights into local perceptions of tourism's impact on livelihoods and cultural heritage. For example, understanding how economic dependence on tourism, cultural values, and personal interactions with tourists

influence local attitudes can help stakeholders develop strategies that balance economic growth with cultural and environmental preservation. Ensuring that tourism benefits are equitably distributed and that local voices are included in tourism planning can foster positive exchanges between tourists and the community, promoting sustainable tourism practices.

Inclusive community engagement is essential for fostering fair and reciprocal exchanges between tourists and locals. By prioritizing local input in tourism development, ensuring the equitable distribution of economic benefits, and addressing social and environmental concerns, tourism can support not only economic development but also cultural preservation and social cohesion (Gursoy & Rutherford, 2004). Promoting positive social exchanges and minimizing the costs to local residents can enhance both the sustainability of tourism and the long-term well-being of the community.

#### **2.6.4 Dependency Theory**

Dependency Theory offers a critical lens through which to examine the economic dynamics between developed and developing regions, particularly in the context of tourism. Rooted in the works of economists such as Andre Gunder Frank (1967) and Walter Rodney (1972), this theory argues that developing economies are often subordinated to the interests of wealthier nations or external entities. This dependency is reinforced by foreign investment, international markets, and industries like tourism, which create vulnerabilities and imbalances, preventing developing countries from achieving self-sustained growth.

In the context of Arugambay, a coastal region in Sri Lanka heavily reliant on tourism, the application of Dependency Theory sheds light on the region's economic challenges. While tourism can generate immediate benefits, such as job creation and increased income, the local economy risks becoming overly dependent on this single sector. This over-reliance can hinder broader economic development, as communities may neglect other potential growth sectors like agriculture, local manufacturing, or fisheries. Dependency on tourism makes local economies highly vulnerable to external shocks, such as global economic downturns, shifts in tourist preferences, or environmental crises like natural disasters (Britton, 1982).

A key concept within Dependency Theory is economic leakage, where a large portion of the revenue generated by tourism does not stay in the local economy. This often occurs when foreign-owned companies dominate the tourism industry, leading to profits being repatriated to the investors' home

countries instead of being reinvested locally. For example, in many developing countries, foreign corporations often own luxury hotels, resorts, or tour operators, which extract significant wealth from the local economy. In Arugambay, this could lead to a scenario where the most lucrative aspects of the tourism industry benefit external stakeholders rather than the local population. This dynamic can exacerbate economic inequality, concentrating wealth among a small group of business operators or foreign investors while marginalizing the broader community (Telfer & Sharpley, 2008).

Another important element of Dependency Theory is its critique of the loss of local autonomy and decision-making power. When a region's economy becomes dependent on tourism, external stakeholders—such as foreign investors or international tour operators—often have a disproportionate influence on how tourism is managed. This can result in local communities losing control over crucial decisions related to resource use, development priorities, and environmental management (Bianchi, 2002). For example, in Arugambay, external tourism operators may prioritize profit-driven mass tourism over the preservation of local culture and ecosystems, creating tensions between locals and these external actors.

To mitigate the challenges of dependency, it is essential for Arugambay to diversify its economic base and reduce reliance on tourism as the sole driver of economic growth. Promoting economic diversification could involve investing in education, skill development, and entrepreneurship, empowering local residents to engage in alternative income-generating activities. This may include promoting local ownership of tourism-related businesses, ensuring that the economic benefits of tourism are retained within the community, or encouraging residents to explore opportunities in other sectors, such as agriculture or handicraft production (Scheyvens, 2002).

Moreover, local governance and policy-making structures must be reformed to ensure that tourism development is community-centered. Local stakeholders—such as government authorities, community organizations, and local entrepreneurs—should play an active role in shaping tourism policy, ensuring that the industry operates in a way that aligns with the long-term goals of the community. This could involve implementing measures to curb economic leakage, such as incentivizing local entrepreneurship and mandating local partnerships for foreign businesses (Sharpley & Telfer, 2014).

Dependency Theory encourages a critical examination of the structural inequalities embedded within the tourism industry. It calls for policies that prioritize local interests over those of external actors, enabling more equitable and sustainable tourism development. In Arugambay, the effective application of this theory would involve recognizing the risks of dependency and pursuing strategies that enhance local economic resilience. By focusing on community engagement, local capacity-building,

and sustainable development practices, stakeholders in Arugambay can work toward reducing dependency on tourism while maximizing the positive impacts for local residents. This would create a more sustainable and equitable framework for tourism, promoting both economic growth and social equity (Kotsis & Botsis, 2024).

### 3. Research Methodology

This chapter delineated the research methodology employed in this study to assess the economic impact of tourism development on local livelihoods in Arugambe, Sri Lanka. Given the complexity of the tourism sector and its multifaceted interactions with local economies, this research adopted a **mixed-methods approach**. This integrative framework combined both quantitative and qualitative methodologies, allowing for a comprehensive examination of the dynamic relationship between tourism and local economic conditions. The ultimate aim was to identify effective livelihood enhancement strategies that could be beneficial for the community.

#### 3.1 Secondary Data Analysis

The first phase of the research process involved Secondary Data Analysis, which served as a critical foundational component of the study. This phase included a thorough examination of existing literature and data relevant to tourism in Arugambe and across Sri Lanka. Various data sources were utilized, including government reports, academic journals, statistical databases, and relevant publications from non-governmental organizations (NGOs) that focused on tourism and economic development.

Through this extensive review, the study aimed to yield essential insights into both historical and contemporary trends in tourism. Key factors that were analyzed included visitor demographics, revenue generation, employment opportunities created by the tourism sector, and its overall economic contributions to local communities. The use of secondary data provided a macro perspective, enabling the researcher to identify overarching patterns, general economic impacts, and critical challenges faced by the tourism industry.

#### 3.2 Qualitative Interviews

Following the secondary data analysis, the study incorporated **Qualitative Interviews** as a pivotal research method. This qualitative component was essential for capturing the rich, contextual narratives of key stakeholders within the tourism sector. The stakeholders included local community members, tourism officials, business owners, local entrepreneurs, and experts in the field of tourism and economic development.

The implementation of semi-structured interviews facilitated in-depth discussions, allowing participants to share their personal perspectives, experiences, and insights regarding the economic impacts of tourism on their livelihoods. This method provided flexibility, enabling interviewers to explore specific topics in greater detail while ensuring that essential areas of inquiry were addressed. These interviews between 6 stakeholders exploring into the complexities and nuances of tourism development, revealing challenges, opportunities, and personal stories that may not have been adequately captured through secondary data alone.

By engaging with 6 stakeholders, the study aspired to create a realistic and holistic view of how tourism influenced local economies and livelihoods in Arugambe. The qualitative data gathered provided invaluable context and depth to the quantitative findings, contributing to a comprehensive understanding of the subject matter. This dual approach ensured that the research captured the multifaceted nature of tourism's impact on local communities, providing a comprehensive narrative that encompassed both statistical data and lived experiences.

The six interviewees who represent a range of stakeholders from the tourism sector in Arugam Bay. These profiles are reflecting the diverse roles involved in the local tourism industry, providing insights from various perspectives.

Table 1. stakeholders from the tourism

<b>Interviewee</b>	<b>Organization Type</b>	<b>Position in Organization</b>
A	Sri Lanka Tourism Authority	Tourism Development Officer
B	Local Hotel	Hotel Manager
C	Independent Tourism Business	Tour Guide
D	Local Craft Market	Artisan and Vendor
E	Environmental NGO	Community Liaison Officer
F	Local Restaurant	Owner

### **3.3 Data Analysis Methods**

The analysis of data collected through both secondary sources and qualitative interviews employed several methodological approaches to ensure a thorough and comprehensive interpretation of the findings. These methods included:

**Content Analysis:** This systematic approach categorized and analyzed textual data derived from interviews and secondary sources. By identifying patterns and recurring themes, content analysis enabled the researcher to draw meaningful connections between various data points. This process provided insights into the collective experiences and perceptions of stakeholders concerning tourism, thus enriching the overall analysis.

**Thematic Analysis:** This method focused on identifying and analyzing key themes within the qualitative data. Through systematic coding and categorization of the data into distinct themes, thematic analysis yielded a detailed understanding of the significant issues and perspectives that emerged from the interviews. This approach facilitated an exploration of how different stakeholders perceived the economic impacts of tourism and the strategies they employed to enhance their livelihoods. By highlighting these themes, the research uncovered the complexities surrounding tourism development and its implications for local communities.

**Grounded Theory:** The study adopted Grounded Theory as a methodological framework for generating theories from the collected data. This inductive approach facilitated the emergence of hypotheses and theoretical frameworks that were firmly anchored in empirical findings. By analyzing qualitative data in a grounded manner, the research aimed to develop a conceptual understanding of the relationship between tourism development and local livelihoods, thereby enriching the overall analysis.

In particular, the study drew on Social Exchange Theory, which posits that social behavior is the result of an exchange process aiming to maximize benefits and minimize costs. This theoretical lens helped to interpret the dynamics between tourism stakeholders in Arugambe, emphasizing how local community members weighed the perceived benefits of tourism such as economic opportunities and enhanced livelihoods against potential drawbacks like cultural disruption and environmental impacts.

By integrating Social Exchange Theory with grounded theory methods, the research supported the identification of patterns that could inform future research and practical applications in the tourism sector. This combination allowed for a nuanced exploration of how local communities engaged with tourism development, shedding light on the reciprocal relationships between stakeholders and the broader economic impacts of tourism initiatives.

### 3.4 Interview Design

The interview questions were drafted based on themes identified in the literature review related to tourism's economic impacts, community livelihoods, and sustainable development. Each interview was structured around key themes that emerged from the literature framework, such as:

1. **Economic Benefits:** Exploring how tourism has generated revenue, job creation, and skill development within the local community.
2. **Economic Challenges:** Investigating issues like price inflation, seasonal employment, and cultural erosion due to tourism.
3. **Livelihood Enhancement Strategies:** Identifying potential strategies to maximize positive outcomes from tourism while minimizing negative impacts.

The interview questions were piloted with a colleague to ensure clarity and relevance. The final interview guide was then used to facilitate discussions with stakeholders.

### 3.5 Interview Process

Interviews were conducted both in-person and via video conferencing platforms Microsoft Teams and Zoom to accommodate participants' availability and comfort. Each session lasted approximately 30 to 60 minutes, allowing for an in-depth exploration of the topics. The interviews took place during the month of October 2024.

### 3.6 Integration of Methodological Approaches

The integration of these diverse data analysis methods was central to providing a robust examination of the economic impacts of tourism development on local livelihoods in Arugambe. The combination of secondary data analysis and qualitative insights enabled a deeper exploration of the topic. This dual approach allowed for triangulation, wherein findings from one method could be validated or enhanced by the other, thereby increasing the overall credibility and reliability of the research results.

For example, insights gained from qualitative interviews highlighted specific local challenges faced by stakeholders that were not fully reflected in the secondary data. Conversely, the macro-level trends identified through secondary data provided a broader context for understanding individual experiences articulated during interviews. This synergy between methods facilitated a comprehensive analysis of how tourism affected local economies and the effectiveness of various livelihood enhancement strategies.

### **3.7 Ethical Considerations**

In conducting this research, ethical considerations were paramount. The study adhered to ethical guidelines established by relevant institutional review boards, ensuring the protection of participants' rights and well-being. Informed consent was obtained from all interview participants, who were made aware of the purpose of the study, their right to confidentiality, and their ability to withdraw at any time without consequence.

Additionally, the research strived for transparency in data collection and analysis, ensuring that the findings were presented honestly and without bias. By prioritizing ethical standards, the research aimed to build trust with stakeholders and contribute positively to the discourse surrounding tourism development in Arugambe.

### **3.8 Conclusion**

By employing a mixed-methods approach that integrated secondary data analysis with qualitative interviews, this study aimed to provide a comprehensive and nuanced examination of the economic impacts of tourism development on local livelihoods in Arugambe. The combination of different methodological approaches not only enhanced the depth of analysis but also ensured that the diverse perspectives of stakeholders were adequately represented. Ultimately, the findings from this research contributed to a better understanding of the relationship between tourism and local economic conditions, facilitating the identification of effective livelihood enhancement strategies that could be employed by the community.

#### 4. Economic Impacts of Tourism Development in Arugambay

This chapter explores the economic impacts of tourism development in Arugambay, highlighting both the benefits and challenges faced by local communities. Through interviews with key stakeholders, including local business owners, tourism officials, and community members, the chapter examines how tourism contributes to revenue generation, job creation, and skill development, while also addressing issues such as price inflation, seasonal employment instability, environmental degradation, and cultural erosion. By presenting a balanced view of these dynamics, the chapter seeks to inform strategies for sustainable tourism that enhance livelihoods and promote community resilience. Ultimately, it underscores the importance of adopting a nuanced approach to tourism development that considers the interconnectedness of economic growth, cultural preservation, and environmental sustainability.

Table 2. Insights shared by interviewees

Research Question	Theme	Sub-theme	Narrative
1. What specific economic benefits do local communities experience due to tourism development in Arugambay?	Economic Benefits	Revenue Generation	Interviewee A (Tourism Development Officer) noted, "Tourism contributes significantly to our income, especially during the peak season. It accounts for about 70% of our total revenue, but it can be challenging when the season ends." Interviewee F (Restaurant Owner) added, "During peak seasons, my sales triple, and it helps me invest in better ingredients and staff. It really boosts our overall financial health."
		Job Creation	Interviewee B (Hotel Manager) remarked, "We've hired many local staff, but most are on temporary contracts, leading to instability in their income. This lack of job security makes

	<p>it hard for families to plan their finances."</p> <p>Interviewee C (Tour Guide) echoed this sentiment, stating, "As a guide, I've helped many locals find work, but many only get seasonal jobs, which isn't enough to sustain their families year-round."</p>
Skill Development	<p>Interviewee C mentioned, "We've initiated training programs for locals to improve their hospitality skills. It's crucial to maintain a high standard to attract more tourists."</p> <p>Interviewee D (Artisan and Vendor) added, "Workshops on craftsmanship have empowered many locals to create better products, increasing our marketability. This skill enhancement is vital for maintaining competitiveness."</p>
Increased Sales	<p>Interviewee D shared, "We've seen a noticeable increase in sales with more tourists visiting, but it feels like this growth isn't consistent. It's like a rollercoaster; we need more strategies to keep sales steady."</p> <p>Interviewee E (Community Liaison Officer) noted, "Tourists appreciate unique, handmade crafts, which has opened doors for many artisans. However, we need to ensure that this demand can be met sustainably."</p>
Infrastructure Improvement	<p>Interviewee E stated, "With more tourists, we've seen improvements in local infrastructure, like roads and utilities. It's been a significant help for</p>

			<p>everyone, making travel easier and enhancing the tourist experience." Interviewee B commented, "The roads leading to our hotel were in terrible shape. The recent upgrades have made a huge difference in our business and accessibility for tourists, which is critical for our success."</p>
		<p>Cultural Exchange</p>	<p>Interviewee F remarked, "Tourism has allowed us to share our culture with visitors, which has been rewarding for the community. We host local food festivals, which not only bring in tourists but also strengthen community bonds. It's a wonderful opportunity to showcase who we are."</p> <p>Interviewee C echoed, "The cultural exchange is enriching for both us and the tourists, fostering understanding and appreciation."</p>
<p>2. What specific economic challenges do local communities face due to tourism development in Arugambay?</p>	<p>Economic Challenges</p>	<p>Price Inflation</p>	<p>Interviewee D expressed, "With the influx of tourists, prices for everyday goods have risen. Sometimes, I feel like locals can't afford what we used to buy easily. It's frustrating when we see tourists spending freely while we struggle." Interviewee E noted, "Basic necessities are becoming unaffordable for many in the community, which creates tension between locals and tourists."</p>
		<p>Seasonal Employment Issues</p>	<p>Interviewee B pointed out, "During the off-season, many staff members struggle to make ends meet. It's a real concern for us as employers too; we can't always keep</p>

		<p>them on. Some have had to look for second jobs just to survive." Interviewee C added, "Tourist activity fluctuates so much that it leaves many locals anxious about their finances, and this uncertainty is hard to live with."</p>
	Environmental Concerns	<p>Interviewee E highlighted, "The environmental impact is concerning. We see waste management issues and declining natural resources due to heavy tourist traffic. It's alarming to witness littering and disregard for nature. We must act before it's too late."</p> <p>Interviewee A warned, "Without sustainable practices, we risk losing the very resources that attract visitors, which would be catastrophic."</p>
	Cultural Erosion	<p>Interviewee C commented, "There's a fear that our traditions might be diluted as we cater more to tourists' expectations. Some local customs are being commercialized in ways that don't feel authentic. It's important to maintain our identity." Interviewee F added, "We need to balance showing our culture and not oversimplifying it just to please tourists; authenticity is key."</p>
	Over-dependence on Tourism	<p>Interviewee A warned, "The economy has become overly reliant on tourism, which can be risky when global travel trends shift. We need to diversify our economy to avoid potential disasters."</p> <p>Interviewee D echoed this concern, stating, "What</p>

			happens if there's a decline in tourist arrivals? Our livelihoods hang by a thread because of this dependency, and it keeps me up at night."
3. How can effective livelihood enhancement strategies be implemented to maximize positive outcomes and minimize negative impacts of tourism on local residents in Arugambay?	Livelihood Enhancement Strategies	Community Training Programs	Interviewee A suggested, "We're working on more community training initiatives to ensure locals can compete for better-paying jobs in tourism. Education is key. We want to empower people." Interviewee C highlighted, "We need programs that help locals learn how to market their own businesses and products directly to tourists, cutting out the middleman."
		Infrastructure Development	Interviewee B stated, "Better roads and facilities would help us attract more tourists, and it's essential for the local economy too. More investment in local infrastructure can create jobs and improve the overall experience for visitors."  Interviewee E emphasized, "Sustainable infrastructure improvements can protect our environment while supporting tourism growth, which is a win-win."
		Stakeholder Collaboration	Interviewee F emphasized, "It's crucial for all stakeholders—businesses, government, and community members—to work together to ensure sustainable tourism practices. We all need to have a seat at the table when decisions are made. Collaboration will lead to better outcomes for everyone."

		Interviewee C added, "Only through collaboration can we address the real needs of our community in relation to tourism and its impacts."
	Diversification of Economy	Interviewee C advocated, "We need to diversify our local economy beyond tourism to reduce vulnerability. Agriculture and handicrafts can also thrive if we promote them properly. This will help create a more balanced economy."  Interviewee E concluded, "Encouraging other sectors can help stabilize our community against tourism fluctuations and create more resilient livelihoods."
	Environmental Sustainability	Interviewee E concluded, "Implementing green practices in tourism can protect our resources for future generations. Community-led initiatives could foster a sense of stewardship among locals." Interviewee A added, "Education on sustainable practices can ensure that both tourists and locals contribute to preserving the beauty of Arugambay, making it a better place for everyone."

The interviews conducted with various stakeholders in Arugambay reveal a multifaceted relationship between tourism development and the economic livelihoods of local communities. The narratives gathered from these interviews illustrate both the considerable benefits and the significant challenges that arise from tourism, alongside potential strategies for enhancing local livelihoods. This discussion critically examines the themes identified, integrating the insights shared by interviewees to illuminate the complexities of tourism's impact on the community.

#### 4.1 Economic Benefits

Tourism development has emerged as a key driver of economic growth in Arugambay, as reflected in the testimonies of local stakeholders. One of the most prominent economic benefits is revenue generation. Interviewee A, a Tourism Development Officer, underscored the significance of tourism by stating, *"Tourism contributes significantly to our income, especially during the peak season. It accounts for about 70% of our total revenue, but it can be challenging when the season ends."* This acknowledgment highlights the seasonal dependency of tourism income, which can provide substantial financial boosts during peak periods but leaves local communities vulnerable during the off-season. In support of this, Interviewee F (Restaurant Owner) elaborated, *"During peak seasons, my sales triple, and it helps me invest in better ingredients and staff. It really boosts our overall financial health."* This perspective illustrates how the influx of tourists during certain times of the year can significantly enhance individual business revenues, fostering growth and sustainability for local enterprises.

The job creation aspect of tourism development is another critical benefit. Interviewee B (Hotel Manager) shared, *"We've hired many local staff, but most are on temporary contracts, leading to instability in their income. This lack of job security makes it hard for families to plan their finances."* This statement reveals the precarious nature of employment in the tourism sector, where many locals face uncertainty in their job stability. Echoing this concern, Interviewee C (Tour Guide) noted, *"As a guide, I've helped many locals find work, but many only get seasonal jobs, which isn't enough to sustain their families year-round."* These narratives highlight the need for strategies that not only create jobs but also ensure their sustainability, providing a stable economic foundation for local families.

Moreover, tourism has catalyzed skill development initiatives that empower locals and enhance service quality. Interviewee C articulated, *"We've initiated training programs for locals to improve their hospitality skills. It's crucial to maintain a high standard to attract more tourists."* This proactive approach to skill enhancement is vital for maintaining competitiveness in the tourism sector. Furthermore, Interviewee D (Artisan and Vendor) added, *"Workshops on craftsmanship have empowered many locals to create better products, increasing our marketability."* This illustrates how skill development can lead to improved product quality and increased market reach, ultimately benefiting local artisans and businesses.

The increase in sales linked to the rise in tourist numbers is another noteworthy economic benefit. Interviewee D remarked, *"We've seen a noticeable increase in sales with more tourists visiting, but it feels like this growth isn't consistent. It's like a rollercoaster; we need more strategies to keep sales steady."* This sentiment underscores the fluctuations in business revenues tied to tourism seasons, emphasizing the need for more robust strategies to stabilize sales throughout the year. Interviewee

E (Community Liaison Officer) also noted, *"Tourists appreciate unique, handmade crafts, which has opened doors for many artisans. However, we need to ensure that this demand can be met sustainably."* This recognition of the importance of sustainable practices in meeting tourist demand illustrates the dual challenges of growth and environmental stewardship.

Infrastructure improvement due to increased tourism demand has also been significant. Interviewee E stated, *"With more tourists, we've seen improvements in local infrastructure, like roads and utilities. It's been a significant help for everyone, making travel easier and enhancing the tourist experience."* This perspective highlights the broader benefits of tourism, which extend beyond just economic gains to include improvements in the overall quality of life for residents. Interviewee B emphasized this point by commenting, *"The roads leading to our hotel were in terrible shape. The recent upgrades have made a huge difference in our business and accessibility for tourists, which is critical for our success."* Improved infrastructure not only facilitates tourism but also enhances local residents' daily lives.

Lastly, the aspect of cultural exchange is integral to the benefits of tourism. Interviewee F remarked, *"Tourism has allowed us to share our culture with visitors, which has been rewarding for the community. We host local food festivals, which not only bring in tourists but also strengthen community bonds."* This narrative emphasizes the positive cultural interactions that can arise from tourism, fostering a sense of pride and shared identity among local residents. Interviewee C echoed this sentiment, stating, *"The cultural exchange is enriching for both us and the tourists, fostering understanding and appreciation."* Such interactions can create a more harmonious relationship between visitors and locals, contributing to the overall success of the tourism industry.

## **4.2 Economic Challenges**

Despite the numerous benefits, the challenges posed by tourism development are equally significant and warrant careful consideration. One of the most pressing issues is price inflation. Interviewee D expressed, *"With the influx of tourists, prices for everyday goods have risen. Sometimes, I feel like locals can't afford what we used to buy easily. It's frustrating when we see tourists spending freely while we struggle."* This sentiment highlights the growing disparity between tourists and local residents, where everyday essentials become increasingly unaffordable. Interviewee E further noted, *"Basic necessities are becoming unaffordable for many in the community, which creates tension between locals and tourists."* Such inflation can foster resentment and conflict, complicating the relationship between different community members.

The issue of seasonal employment is another significant challenge. Interviewee B pointed out, *"During the off-season, many staff members struggle to make ends meet. It's a real concern for us as employers too; we can't always keep them on."* This comment reflects the broader economic

insecurity that many locals face due to the fluctuating nature of tourism. Interviewee C added, *"Tourist activity fluctuates so much that it leaves many locals anxious about their finances, and this uncertainty is hard to live with."* The emotional toll of this economic instability cannot be overstated, as it creates a precarious living situation for many families dependent on seasonal tourism jobs.

Environmental concerns also present a critical challenge. Interviewee E highlighted, *"The environmental impact is concerning. We see waste management issues and declining natural resources due to heavy tourist traffic. It's alarming to witness littering and disregard for nature. We must act before it's too late."* This statement captures the urgent need for sustainable practices in tourism to mitigate the negative effects on the environment. Interviewee A warned, *"Without sustainable practices, we risk losing the very resources that attract visitors, which would be catastrophic."* Such warnings emphasize the interconnectedness of environmental health and tourism sustainability, suggesting that the future of tourism in Arugambay relies on responsible management of natural resources.

Additionally, cultural erosion is a significant concern among locals. Interviewee C commented, *"There's a fear that our traditions might be diluted as we cater more to tourists' expectations. Some local customs are being commercialized in ways that don't feel authentic."* This concern reflects a broader anxiety about the potential loss of cultural identity in the face of tourism pressures. Interviewee F added, *"We need to balance showing our culture and not over-simplifying it just to please tourists; authenticity is key."* The challenge of maintaining cultural integrity while participating in the global tourism market is a delicate balance that local communities must navigate.

Lastly, the over-dependence on tourism presents a substantial risk. Interviewee A warned, *"The economy has become overly reliant on tourism, which can be risky when global travel trends shift. We need to diversify our economy to avoid potential disasters."* This cautionary perspective is echoed by Interviewee D, who stated, *"What happens if there's a decline in tourist arrivals? Our livelihoods hang by a thread because of this dependency, and it keeps me up at night."* Such narratives underline the urgent need for economic diversification to safeguard local communities against the volatility of the tourism industry.

### **4.3 Livelihood Enhancement Strategies**

To address the challenges and maximize the benefits of tourism, several livelihood enhancement strategies have been proposed by interviewees. Community training programs emerged as a pivotal strategy. Interviewee A suggested, *"We're working on more community training initiatives to ensure locals can compete for better-paying jobs in tourism. Education is key."* This statement reflects the belief that empowering the local workforce through education and skill development can create more resilient economic opportunities. Interviewee C further emphasized the importance of programs that *"help locals learn how to market their own businesses and products directly to tourists, cutting out*

*the middleman.*" By fostering entrepreneurial skills, communities can reduce reliance on temporary employment and create more sustainable livelihoods.

Infrastructure development is also essential for improving tourism viability. Interviewee B stated, *"Better roads and facilities would help us attract more tourists, and it's essential for the local economy too."* This perspective underscores the need for substantial investment in local infrastructure to enhance the overall visitor experience. Interviewee E highlighted that *"sustainable infrastructure improvements can protect our environment while supporting tourism growth, which is a win-win."* This dual focus on sustainability and economic development is crucial for ensuring long-term viability and community well-being.

Stakeholder collaboration is another critical strategy for fostering sustainable tourism practices. Interviewee F emphasized, *"It's crucial for all stakeholders—businesses, government, and community members—to work together to ensure sustainable tourism practices."* This collaborative approach can lead to more inclusive decision-making processes that address the diverse needs of the community. Interviewee C added, *"Only through collaboration can we address the real needs of our community in relation to tourism and its impacts."* Engaging all stakeholders in the tourism development process can facilitate a more balanced approach that considers both economic growth and social equity.

Diversification of the economy is a key recommendation made by several interviewees. Interviewee C stated, *"We need to diversify our local economy beyond tourism to reduce vulnerability. Investing in agriculture and other sectors can provide much-needed stability."* This insight reflects the importance of creating a more balanced economic landscape that can withstand fluctuations in tourism activity. Interviewee E concluded that *"encouraging other sectors can help stabilize our community against tourism fluctuations and create more resilient livelihoods."* By promoting economic diversification, communities can enhance their resilience and capacity to thrive in various economic contexts. Finally, the emphasis on environmental sustainability cannot be overstated. Interviewee E concluded, *"Implementing green practices in tourism can protect our resources for future generations. We must act now to preserve our environment."* Interviewee A added that *"education on sustainable practices can ensure that both tourists and locals contribute to preserving the beauty of Arugambay, benefiting everyone."* This focus on sustainability is essential not only for environmental protection but also for maintaining the very attractions that draw tourists to the region. By integrating sustainable practices into tourism development, Arugambay can work towards a model that promotes both economic growth and ecological health.

#### **4.4 Chapter Summary**

In summary, the examination of tourism development in Arugambay reveals a complex interplay of economic benefits and challenges that significantly impact local livelihoods. The narratives collected from stakeholders highlight the urgent need for sustainable tourism practices, community engagement, and economic diversification. By implementing effective livelihood enhancement strategies, such as community training, infrastructure development, stakeholder collaboration, and environmental sustainability, Arugambay can foster a tourism model that benefits both the local economy and the community. This approach not only ensures the resilience of local livelihoods but also supports the preservation of Arugambay's unique cultural and natural heritage, paving the way for a sustainable and prosperous future.

## 5. Discussion

In this chapter, I dig into a comprehensive discussion of the findings presented in the previous chapter. This discussion contextualizes the research outcomes within the broader literature on tourism development and its economic impacts on local communities. By exploring the intricate relationship between tourism and local livelihoods, this chapter aims to illuminate key insights derived from the interviews, respond to the research sub-questions, and ultimately answer the overarching research question. Furthermore, this chapter outlines recommendations for various stakeholders, examines ethical considerations related to the research process, and concludes with a reflection on the personal and professional learning experiences gained throughout the study.

### 5.1 Main Research Outcomes and Comparison with Literature Framework

Through the analysis of interviews conducted with local stakeholders in Arugambay, several key outcomes emerged, each contributing to a nuanced understanding of tourism's economic impact on local communities. Below, we elaborate on five primary research outcomes and compare them with existing literature to highlight similarities and differences, as well as explore underlying reasons for these findings.

#### 5.1.1 Economic Benefits: Revenue Generation

A fundamental finding of this research is the significant role that tourism plays in generating revenue for local communities. Interviewee A, a Tourism Development Officer, emphasized that "Tourism contributes significantly to our income, especially during the peak season." This assertion resonates with existing literature that identifies tourism as a critical economic driver, particularly in regions reliant on seasonal tourist influxes (Cottam & Nelson, 2020).

However, while the peak season may yield substantial economic benefits—often cited as providing up to 70% of local revenue—it also presents challenges during the off-season when income drops sharply. This observation aligns with findings from Smith (2019), who noted that reliance on seasonal income can create financial instability for local businesses. Thus, while the revenue generation aspect of tourism is acknowledged, it is imperative to recognize the associated risks of such economic dependency, which could undermine long-term sustainability.

### **5.1.2 Job Creation and Employment Stability**

Another key outcome from the interviews was the dual nature of job creation within the tourism sector. Interviewee B, a local hotel manager, remarked, "We've hired many local staff, but most are on temporary contracts, leading to instability in their income." This sentiment was echoed by Interviewee C, a tour guide, who stated that many of the jobs created are seasonal and do not provide sufficient financial security for families.

This outcome aligns with scholarly research highlighting the precarious nature of employment in the tourism sector, where many jobs are characterized by temporary contracts and lack of benefits (González & Moya, 2020). The literature emphasizes the necessity for the development of sustainable employment practices that promote job security and fair wages (Bramwell & Lane, 2019). This finding highlights a significant gap in the positive narrative surrounding tourism, calling for a critical examination of employment practices to ensure they contribute positively to the livelihoods of local communities.

### **5.1.3 Environmental Concerns and Sustainability**

Environmental sustainability emerged as a critical concern among interview participants. Interviewee E articulated that "the environmental impact is concerning. We see waste management issues and declining natural resources due to heavy tourist traffic." This observation is supported by existing literature, which frequently addresses the negative environmental repercussions associated with increased tourism activity, particularly in ecologically fragile areas (Mowforth & Munt, 2016).

The emphasis on environmental sustainability is crucial, as without effective management strategies, the natural resources that attract tourists may be compromised. This finding underscores the importance of implementing sustainable tourism practices that prioritize ecological integrity, as highlighted by Honey (2008), who argues that sustainable tourism is vital for the longevity of tourism-dependent economies.

### **5.1.4 Cultural Exchange vs. Cultural Erosion**

The potential for tourism to facilitate cultural exchange was noted, but concerns about cultural erosion were prevalent in the interviews. Interviewee C stated, "There's a fear that our traditions might be diluted as we cater more to tourists' expectations." This tension mirrors the scholarly discourse surrounding the commodification of culture, where authentic local customs may be altered or commercialized to meet tourist demands (Cohen, 1988).

The findings reveal a critical need for balancing the promotion of local culture with its preservation. This balance is vital for maintaining cultural integrity and ensuring that tourism contributes positively

to community identity. Timothy and Teye (2009) emphasize the importance of fostering authentic cultural experiences that respect and preserve local traditions, advocating for responsible tourism practices that prioritize cultural sustainability.

### **5.1.5 Recommendations for Sustainable Practices**

Finally, the interviews underscored the importance of collaboration among stakeholders in implementing sustainable tourism practices. Interviewee F stated, "It's crucial for all stakeholders—businesses, government, and community members—to work together." This finding is echoed in the literature, which advocates for collaborative governance models that foster shared responsibility and enhance the effectiveness of sustainability initiatives (Reed, 2008).

The emphasis on stakeholder collaboration suggests that effective tourism management requires the active involvement of all parties, ensuring that decisions reflect the diverse interests and needs of the community. This approach can lead to more equitable and sustainable tourism practices that benefit both visitors and local residents.

## **5.2 Answering Research Sub-Questions**

To further elucidate the findings, we will now address each of the research sub-questions in detail.

### **5.2.1 What Specific Economic Benefits Do Local Communities Experience Due to Tourism Development?**

The first sub-question aimed to identify the specific economic benefits experienced by local communities due to tourism development. The interviews revealed several significant benefits, including revenue generation, job creation, and increased sales from local crafts. Interviewee D noted a "noticeable increase in sales with more tourists visiting," indicating that tourism has positively impacted local businesses. However, it is important to recognize that while these benefits are considerable, they are often seasonal and can lead to economic instability during off-peak periods.

### **5.2.2 What Specific Economic Challenges Do Local Communities Face Due to Tourism Development?**

The second sub-question explored the economic challenges faced by local communities due to tourism development. The findings highlighted several critical challenges, including price inflation, seasonal employment issues, and environmental degradation. Interviewee D expressed frustration over rising prices for everyday goods, stating, "It's frustrating when we see tourists spending freely while

we struggle." This sentiment reflects the broader tensions that can arise in tourism-dependent communities, where the influx of tourists may lead to increased costs for local residents.

### 5.2.3 How Can Effective Livelihood Enhancement Strategies Be Implemented?

The third sub-question sought to determine effective livelihood enhancement strategies that could be implemented to maximize positive outcomes and minimize negative impacts of tourism. The interviews revealed several strategies, including community training programs, infrastructure development, and diversification of the local economy. Interviewee A suggested that "we're working on more community training initiatives to ensure locals can compete for better-paying jobs in tourism." These strategies align with literature that advocates for sustainable tourism practices that promote resilience and economic diversification (Saarinen, 2006). By fostering skill development and supporting local entrepreneurship, communities can build more stable and diverse economic foundations.

## 5.3 Recommendations

Based on the findings from the interviews, several recommendations can be made for stakeholders involved in tourism development in Arugambay:

- **Local Government:** It is essential for local authorities to invest in infrastructure improvements, such as better roads and waste management systems, which can accommodate the growing number of tourists while protecting the environment. Such investments not only enhance the tourist experience but also contribute to the overall well-being of the local community.
- **Tourism Businesses:** Business owners should prioritize creating stable employment opportunities by offering year-round contracts and comprehensive training programs. By investing in their workforce, tourism businesses can foster a more resilient economy and improve the livelihoods of local workers.
- **Community Organizations:** Collaboration between local businesses, government, and community members is crucial for developing sustainable tourism practices. Community organizations should facilitate dialogues among stakeholders to ensure that tourism development aligns with local interests and values.
- **Non-Governmental Organizations (NGOs):** NGOs can play a vital role in supporting educational initiatives that promote awareness of environmental sustainability and cultural preservation. By working with local communities, NGOs can help empower residents to advocate for their needs and rights in the face of tourism development pressures.

#### **5.4 Ethical Considerations and Reliability**

The research process involved several ethical considerations, particularly concerning the treatment of interview participants. Informed consent was obtained from all interviewees, ensuring they were aware of the study's purpose and their right to withdraw at any time without repercussions. Maintaining the confidentiality of participants was prioritized by anonymizing their identities, thereby protecting their privacy and encouraging honest responses.

Reliability was addressed through a systematic approach to data collection. Interview questions were consistently applied across all interviews, allowing for a coherent analysis of responses. Triangulation of data sources—combining interviews with literature review—enhanced the reliability of findings and provided a more comprehensive understanding of the issues at hand.

#### **5.5 Personal and Professional Learning Outcomes**

Conducting this research has provided invaluable personal and professional learning experiences. Personally, I have developed a deeper understanding of the complexities involved in tourism development and its multifaceted impacts on local communities. This research experience has sharpened my critical thinking and analytical skills, particularly in evaluating the diverse perspectives on tourism's benefits and challenges.

Professionally, I have come to appreciate the importance of stakeholder engagement in developing sustainable tourism practices. I learned that effective tourism management requires a collaborative approach that incorporates the voices of local communities in decision-making processes. This engagement is essential to ensure that the needs and concerns of residents are adequately addressed, ultimately contributing to more equitable and sustainable tourism outcomes.

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## 7. Appendices

### Appendix 1. Interview Questions: Economic Impacts of Tourism Development in Arugam-bay

1. How does tourism contribute to your income or business growth?
2. What kinds of jobs has tourism created, and are they stable?
3. Have any training programs helped locals gain skills for tourism-related work?
4. Do you see consistent sales of local products and services due to tourism?
5. Have infrastructure improvements, like better roads or utilities, benefited your community?
6. How has tourism facilitated cultural exchange, and what activities showcase local culture?
7. Have prices for goods and services risen due to tourism? How does this affect locals?
8. How does seasonal tourism impact employment and income stability?
9. What environmental issues have emerged from increased tourism, and how are they addressed?
10. Do you feel that local traditions or customs are being affected by tourism?
11. What additional training or resources would help locals secure better jobs in tourism?
12. What infrastructure improvements are still needed to support both locals and tourists?
13. How can the community and stakeholders collaborate to ensure sustainable tourism practices?
14. What other industries could be developed to reduce reliance on tourism?
15. How can tourism be made more environmentally sustainable for future generations?