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COLLABORATION OF STAKEHOLDERS IN THE DEVELOPMENT OF MICRO ENTERPRISES FOR SUSTAINABLE FOOD SECURITY IN TELUK BINTUNI REGENCY

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ABSTRACT

The establishment of micro-enterprises for micro, small and medium-sized enterprises (MSMEs) aimed at enhancing sustainable food security in Teluk Bintuni Regency, West Papua, is a crucial initiative to bolster local food production sustainably. This study investigates the challenges of MSMEs and the cooperation among stakeholders in the regional employment expansion initiative. Qualitative research was employed, encompassing field observation, interviews with micro-entrepreneurs and stakeholders, and focus group discussions (FGDs) with local populations. The findings indicate that the MSMEs initiative significantly enhances local economic development by empowering micro-enterprises in food production and processing. Challenges faced by MSMEs, specifically restricted financial access, market entry, corporate governance, and digital marketing, continue to pose substantial barriers. Cooperation among government agencies, commercial firms, academic institutions, and non-governmental organizations is crucial for addressing these challenges. This study underscores the necessity for a unified strategy to enhance MSMEs development, fostering sustainable food systems and economic resilience. This collaborative methodology seeks to produce insights for attaining the sustainable development goals (SDGs) associated with poverty alleviation and hunger reduction in the region.

Keywords: Independent Workforce, Sustainable Food, Collaborat

INTRODUCTION

Enhancing business development for food security in Teluk Bintuni Regency, West Papua, is crucial for augmenting local food production and addressing food-related issues (Sloan et al., 2019). The Province of West Papua confronts significant food security issues stemming from its reliance on the mining industry and insufficient local food diversification (Nurhasan et al., 2022). Key areas emphasize the cultivation of local products and the promotion of small and medium companies in fostering sustainable food systems. Sustainable food security is a crucial element of regional development, particularly in regions confronting socio-economic difficulties like Teluk Bintuni Regency.

Regions rich in natural resources can be leveraged for local food diversification to attain food security and fulfill the Sustainable Development Goals (Pardo Martínez and Cotte Poveda, 2022). The establishment of community group enterprises focused on food security can local food production and enhance diminish reliance on imported food (Bizikova et al., 2020). The microentrepreneurship model may serve as a national strategic solution to enhance food sustainability and bolster the economies of local communities. Entrepreneurshipbased programs can enhance local economic stability and provide long-term food security (Herrero et al., 2021; Saa, 2024).

The implementation of an employment expansion program is a primary strategy of the Ministry of Manpower of the Republic of Indonesia to address intricate socio-economic issues, including poverty, unemployment, and economic disparity. This initiative seeks to enhance regional potential by establishing MSMEs, concentrating on business development to promote sustainable food security and alleviate unemployment and poverty in Teluk Bintuni Regency (Hanggarawati et al., 2024; Muliadi et al., 2024). Mentoring and advancing MSMEs

will generate new employment opportunities and diminish reliance on the mining sector, which poses risks to local food security (Theotama and Syahputra, 2024).

MSMEs seeks to offer business training, mentorship, and assistance for MSMEs business support facilities. This method has demonstrated efficacy in generating new employment opportunities and enhancing the competitiveness of local communities (Nurhasan et al., 2022). Enhancing MSME's capacity via education and training has demonstrated favorable outcomes in elevating community skills and income (Saa, 2024). This initiative will also facilitate the expeditious attainment of SDG 1 and SDG 2, particularly with poverty alleviation and hunger eradication (Herrero et al., 2021; Yulianti et al., 2024). Intensive training and technical support can mitigate hurdles in MSMEs development (Tuturop et al., 2022); nonetheless, community groups continue to encounter difficulties related to money, restricted market access, and inadequate business management (Theotama and Syahputra, 2024). The efficacy of this initiative necessitates governmental robust endorsement. encompassing access to training, financial resources, and infrastructure enhancement. Research indicates the necessity of understanding **MSMEs** development outcomes, necessitating a comprehensive plan to engage stakeholders in fortifying the micro-business ecosystem (Theotama and Syahputra, 2024).

Collaboration among stakeholders is essential to enhance the skills and innovation of micro-businesses focused on food security (Bizikova et al., 2020; Zhou et al., 2022). This study aims to assess the designed to enhance program iob possibilities by establishing food securityoriented MSMEs enterprises in Teluk Bintuni Regency in 2023. This study examines the collaboration among stakeholders in the development of MSMEs enterprises, with the objective of alleviating poverty and enhancing food security in the region. This study's conclusions intend to offer strategic policy recommendations to stakeholders to foster

the development of inclusive and sustainable small enterprises. This study further endorses the attainment of Sustainable Development Goals. emphasizing poverty reduction and hunger eradication via the establishment of food security-oriented micro-enterprises.

RESEARCH METHODS

The research site is situated in Teluk Bintuni Regency, West Papua Province, as it serves as a pilot project for the regional job opportunity growth program initiated by the Ministry of Manpower of the Republic of Indonesia for the years 2023-2024. The research subjects are MSMEs players and other stakeholders (Palinggi and Sari, 2023), who participate in the regional job opportunity expansion program. This study delineates all resources and roles of the stakeholders in the advancement of employment opportunity expansion. Data collection was conducted through three methods: 1) Field Observation, which highlights the advancement of business management and the use of local food by independent worker groups (Palinggi and Sari, 2023; Saa, 2024); 2) Interviews with micro-business operators, **MSMEs** participants, and stakeholders to gather insights on their experiences, challenges,

and perceptions regarding the program and Wahyuadianto, (Amalia 2019; Herissuparman et al., 2024); and 3) Focus Group Discussion (FGD), engaging local groups community to explore opportunities and limitations the in development of micro-enterprises centered on food security (Rahman et al., 2024). This study employs а qualitative methodology with a design framework to evolution examine the of **MSMEs** enterprises centered on sustainable food security in Teluk Bintuni Regency, West Papua. This methodology was used to investigate comprehensive data concerning the community's socio-economic situations 2024), the viability of local (Saa, resources, and the efficacy of MSMEs program in promoting sustainable food security (Palinggi and Sari, 2023).

A descriptive-analytical design was employed to examine the collaboration among parties in the development of micro-enterprises focused on sustainable food security (Amalia and Wahyuadianto, 2019; Dudung et al., 2023). This methodology enables researchers to investigate stakeholder relationships (Rahman et al., 2024), difficulties, and possibilities in cross-sector collaboration to establish a business ecosystem that fosters food security (Herissuparman et al., 2024).



Figure 1. Stakeholder mapping flow

RESULTS AND DISCUSSION

The Ministry of Manpower of the Republic of Indonesia has set a policy direction to empower the workforce through a program to expand regionalbased employment opportunities. In 2022 to 2023, the ministry created a pilot project in Teluk Bintuni Regency by forming the MSMEs. This program is aimed at developing the economic growth of community groups around the area according to their characteristics and needs to support development (Supendi, 2022; Digdowiseiso et al., 2023).





The establishment of MSMEs groups is predicated on local potential, enhancing local food commodities, augmenting self-sufficiency, bolstering resilience, and fostering sustainable food security in the region (Saa, 2024). The food development in Teluk Bintuni Regency encompasses freshwater fish farming (tilapia and catfish), livestock rearing (chickens, goats, and pigs), processed food production (cassava, crabs, and Papuan red fruit), and food derived from fruits and leaves of mangrove plants.

that Research indicates the establishment of micro-firms focused on sustainable food security in Teluk Bintuni Regency is predominantly characterized by freshwater fish enterprises, accounting for 38.89% of the total. The processed food sector contributes 27.78%, indicating substantial prospects for enhancing added value through the management of local food resources. Moreover, both the processed fruit and mangrove leaf sector and the cattle sector each accounted for 16.67%. This food development group possesses untapped potential that requires optimization, particularly regarding production efficiency and land innovation

to enhance the sustainability of microenterprises.

The preeminence of this food sector signifies substantial potential for fostering the growth of micro-enterprises centered on sustainable food security in Teluk Bintuni Regency. The consistent and increasing demand for food items is a strategic opportunity to enhance the small business sector that supports sustainable food security in the region. The MSMEs business group mentorship program shown beneficial effect a on income but with considerable enhancement, fluctuations.



Figure 2. Proportion of Income Growth for MSMEs Groups.

Sixty-three point sixteen percent of business groups encountered an income rise of less than ten percent, signifying persistent challenges in optimizing the advantages. Approximately program's 21.05% of groups experienced an income rise of 10-25%, while 26.32% of groups increase 25-50%, attained an of demonstrating the effectiveness of some MSMEs groups in company management and appropriate utilization of mentorship. Merely 10.53% of business groups succeeded in augmenting income by over 50%, indicating the significant potential of this program to provide business groups with enhanced capability and market access.

This discovery underscores the necessity to enhance mentoring techniques, particularly in business management, product creation, and market access, to promote more equitable and sustainable growth among business groups (Theotama and Syahputra, 2024). The outcomes of mentoring food company groups indicate that government assistance has effectively enhanced their financial performance (Palinggi and Sari, 2023). Mentoring that emphasizes managerial, marketing, and financial management dimensions is considered crucial in fostering this turnover growth. This research verifies that the assistance offered in the mentorship program can directly enhance the financial success of the organization. The MSMEs continues to encounter some substantial problems that impact corporate viability. The primary obstacles identified include 100% limited access to money, 64% market access, 63% business management, and 52% necessity for a digital marketing plan. These diverse necessitate challenges comprehensive management to facilitate the sustainable growth of micro-businesses.

Collaborative efforts to implement business development initiatives in food security can generate employment opportunities, while also fostering the advancement of the food industry, including logistics. distribution, and marketing. To ensure sustainability and competitiveness in the broader market,

MSMEs need help in money, technological innovation, and marketing. Consequently, enhanced coordination among the government, private sector, and community is essential to fortify the current economic ecosystem.

The party mapping (Table 1) the diverse stakeholders delineates engaged in the formulation of the Independent Workforce initiative (Jamhari and Khotimah, 2022), classified according to governmental tier, strategic function, and degree of management participation (Hampshire et al., 2022). The tiers of government are categorized into multiple national levels: The framework encompasses the West Bandung Employment Opportunity Expansion Center (BBPKK) and the Kendari Employment Opportunity Expansion Center (BPKK Kendari) as macro policy drivers; the provincial and regency levels involve agencies such as Distransnaker, Bappeda, and Disperindagkop UKM as regional policy executors; the district level comprises district heads, village heads, and assistants who serve as local program implementers; and academia and enterprises provide contributions through research, training, and technical support.



Figure 3. Obstacles in the Development of MSMEs Enterprises.

Table 1. Levels of Stakeholder Mapping in the Development of Food Security-Bsed Traditional Knowledge Management in Teluk Bintuni Regency, West Papua Province.

No	Multi Stakeholders	Government Level	Abreviation
1	Balai Besar Perluasan Kesempatan Kerja Bandung Barat	Nasional	BBPKK Bandung Barat
2	Balai Perluasan Kesempatan Kerja Kendari	Nasional	BPKK Kendari
3	Balai Latihan Kerja (BLK) Sorong	Provinsi	BLK Sorong
4	Dinas Transmigrasi dan Tenaga Kerja	Provinsi/	Distransnaker
		Kabupaten	
5	Badan Perencanaan Pembangunan, Penelitian dan	Provinsi/	Bappeda
	Pengembangan Daerah	Kabupaten	
6	Dinas Perdagangan, Perindustrian, Koperasi dan	Provinsi/	Disperindagkop UKM
	UKM	Kabupaten	
7	Dinas Ketahanan Pangan	Kabupaten	Disketapang
8	Dinas Pertanian	Kabupaten	Dispertan
9	Dinas Perikanan	Kabupaten	DKP
10	Dinas Sosial	Kabupaten	Dinsos
11	Dinas Pemberdayaan Masyarakat dan Kampung	Kabupaten	DPMK
12	Dinas Penanaman Modal dan Pelayanan Terpadu	Kabupaten	DPMPTSP
	Satu Pintu		
13	Dinas Lingkungan Hidup	Kabupaten	DLH
14	Dinas Pariwisata	Kabupaten	Dispar
15	Bagian Organisasi dan Tata Laksana Pemerintah	Kabupaten	BOTLP
16	Badan Pengawas Obat dan Makanan	Kabupaten	BPOM
17	Dinas Kesehatan	Kabupaten	Dinkes
18	Kepala Distrik Manimeri	Distrik	Kepala Distrik Manimeri
19	Kepala Distrik Bintuni	Distrik	Kepala Distrik Bintuni
20	Kepala Distrik Merdey	Distrik	Kepala Distrik Merdey
21	Kepala Kampung Masina	Distrik	Kepala Kampung Masina
22	Kepala Kampung Waraitama	Distrik	Kepala Kampung
			Waraitama
23	Kepala Kampung Awaba	Distrik	Kepala Kampung Awaba
24	Tenaga Pendamping	Distrik	Tenaga Pendamping
25	Perguruan tinggi	Akademik	Perguruan tinggi
26	BP Berau Ltd. (Tangguh LNG)	Perusahaan	BP. LNG
27	PT Bintuni Agro Prima Perkasa	Perusahaan	PT. BAPP
28	PT Freeport Indonesia	Perusahaan	PT Freeport
29	KEMITRAAN (Partnership for Governance	LSM	
	Reform)		Kemitraan
30	Yayasan Ekosistem Nusantara Berkelanjutan (EcoNusa)	LSM	EcoNusa
31	WWF Indonesia – Papua Program	LSM	WWF
32	Yayasan Plan International Indonesia	LSM	YPPI
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Discussion

The MSMEs encounter numerous intricate challenges, such as restricted money, market accessibility, business administration, and digital marketing. Capital capacity frequently constitutes a significant limitation (Syarief et al., 2018; Jamhari and Khotimah, 2022), including the necessity to enhance manufacturing capacity, broaden distribution networks, and innovate new items (Bizikova et al., 2020; Herrero et al., 2021). Furthermore, restricted market access results from an inadequate comprehension of marketing tactics and insufficient business networks, hindering the market expansion of MSMEs products (Jamhari and Khotimah, 2022).

Business management presents challenges in the advancement of MSMEs, encompassing the organization of human resources into groups, financial management, and suboptimal business planning (Supendi, 2022). Simultaneously, MSMEs has not adapted to the advancements in digital marketing technologies (Rahma et al., 2019). Online marketing strategies and the capacity to leverage digital platforms enable products to penetrate worldwide markets (Nurhasan et al., 2022).



Figure 4. Mapping of stakeholders in the development of MSMEs based on food security in Teluk Bintuni Regency, West Papua Province

To surmount the diverse obstacles encountered by the freelance MSMEs group, it is imperative to foster tight collaboration among several departments. The government, corporate sector, financial institutions, academia, and community organizations must collaborate to develop comprehensive and sustainable solutions. The mapping results delineate the engagement of key actors in quadrant 1, comprising those with substantial influence and interests; the subject actor group in quadrant 2, characterized by significant interests but minimal influence; the context setter group in quadrant 3, consisting of actors with limited interests yet the capacity to influence others; and the crowd group, which includes entities with both low influence and interests (König et al., 2021; Rahman et al., 2024). This distribution demonstrates the several strategies employed to leverage local resources for enhancing food security in the region (Jamhari and Khotimah, 2022). However, a more integrated development strategy is needed, including increasing the capacity of micro-entrepreneurs, to ensure the long-term contribution of each sector to sustainable food security (Palinggi and Sari, 2023; Muliadi et al., 2024). The parties reached a mutual agreement through local deliberation activities and **MSMEs** evaluation outcomes. The outcomes of the collaborative agreement (Table 2) represent a partnership among stakeholders in the integrated oversight of MSMEs development (Lee et al., 2020; Hampshire et al., 2022; Rahman et al., 2024), aimed at enhancing community

welfare within the context of an area-based work expansion ecosystem in Teluk Bintuni Regency, West Papua Province (Jamhari and Khotimah, 2022; Palinggi and Sari, 2023).

Alongside governmental partnerships, additional collaborators are essential (Hampshire et al., 2022; Rahman et al., 2024), including field assistants, universities, corporations, and nongovernmental organizations to facilitate the advancement of Independent Workers in Teluk Bintuni Regency and West Papua. Collaboration across national, regional, and district governments, along with external partners, exemplifies an integrated operational framework (Hampshire et al., 2022). national government The formulates strategic policies, whereas local governments execute these programs with technical and practical assistance from corporations and scholars.

MSMEs Problem	Role of Multi Stakeholders	Program	Activities	Actor involved
Capital Access	Providing	Capital Access	Capital Access	1. BBPKK Bandung Barat,
	capital access	Program Credit	Assistance	2. BPKK Kendari,
	and financial	Assistance,		3. Dinsos,
	assistance			4. Disperindagkop
				5. UKM,
				6. DPMPTSP
Product Quality	Development	Development	Production	1. BBPKK Bandung Barat,
and Quantity	and Production	Program New	Capacity	2. BPKK Kendari,
Product	Capacity	Product	Increase	3. Dinsos,
	Product	Innovation,		4. Disperindagkop UKM,
				5. DPMPTSP
				6. DKP,
				7. Dispertan
				8. Disketapang
				9. Kepala Kampung
Product Quality	Certification and	Certification	Certification,	1. Disperindagkop UKM,
and Quantity	Recognition	Program	Product	2. DKP,
Product	Product	Business	Labeling	3. Dispar
				4. DLH
				5. DPMPTSP
				6. Dinkes
				7. BPOM
Market Access	Improving	Product	Strategy,	1. BBPKK Bandung Barat,
Limitations	marketing and	Marketing	Business	2. BPKK Kendari,
	business	Program	Network	3. Bappeda
	networks	Marketing	Expansion	4. Disperindagkop UKM,

Table 2. Joint agreement of local government parties to overcome MSMEs problems in food security in Teluk Bintuni Regency, West Papua Province.

MSMEs Problem	Role of Multi Stakeholders	Program	Activities	Actor involved
				 5. Dinsos, 6. DKP, 7. Dispertan 8. Dispar 9. Disketapang 10. Kepala Kampung
Business Management	Improve business management skills Business	Management Program Financial	Management Training, Business Planning	 Bappeda Disperindagkop UKM, Dinsos, DKP, Dispertan, Disketapang, Dispar, DPMK, Dinkes Kepala Kampung
Business Management	Optimization of business resources	Resource Management Program Organizational	Training, Operations Optimization	 Bappeda Disperindagkop UKM, Dinsos, DKP, Dispertan, Disketapang, Dispar, DPMK, Dinkes Kepala Kampung
Digital Marketing	Improve digital marketing skills Digital	Marketing Program Technology	Training, Online Marketing Techniques	 Bappeda Distransnaker Disperindagkop UKM, Dinsos, DKP, Dispertan Disketapang Dispar DPMK BOTLP
Digital Marketing	Digital platform development	Digital Platform Program Marketplace	Development, Social Media Optimization	 Bappeda Distransnaker Disperindagkop UKM, Dinsos, DKP, Dispertan Disketapang Dispar DPMK BOTLP

National and regional nongovernmental entities (Petre et al., 2024), including corporations, Non-Governmental Organizations (NGOs), field assistance banks, and universities, play a crucial role in supplying supplementary resources, conducting research, and facilitating access to funding (Table 3). In this framework, each participant can participate based on their role to enhance the sustainability and efficacy of the program. This collaborative framework guarantees that the MSMEs development program is administered thoroughly, efficiently, and in accordance with local requirements (Hampshire et al., 2022).

Collaboration among stakeholders is a strategic imperative that enhances the advancement of MSMEs and bolsters corporate sustainability. National and municipal governments will significantly influence strategic initiatives and financing (Jamhari and Khotimah, 2022). Private enterprises and financial institutions can substantially enhance the capabilities of the food security workforce via targeted corporate social responsibility programs and public-private collaborations (Chen and Sheehy, 2024). This partnership can tackle food security issues by utilizing expertise, and community resources. involvement, hence advancing sustainable development objectives. Universities and academic stakeholders significantly enhance the capabilities of the food security workforce via education, research,

and community participation (Sultan et al., 2024). Through the integration of novel approaches and the promotion of interdisciplinary collaboration, they can successfully tackle food insecurity (Petre et al., 2024). The involvement of NGOs and field facilitators markedly enhances the capabilities of the food security workforce via many tactics and interventions. Their responsibilities encompass community participation, capacity building, and advocacy, which together foster sustained food security (Wilson et al., 2023). The collaboration of stakeholders guarantees that the all solutions offered are both technological and customized to actual demands, thereby fostering a sustainable positive influence on MSMEs.

No.	Company/Institution	Туре	Location	Sector	Role in Supporting MSMEs
1	BP Berau Ltd. (Tangguh	Energy	Teluk	Energy	Local technician
	LNG)	Company	Bintuni		training, workforce
			Regency		development in Papua.
2	PT Bintuni Agro Prima	Plantation	Teluk	Plantation	Cultivation training and
	Perkasa	Company	Bintuni		job opportunities in
			Regency		plantations.
3	PT Subur Karunia Raya	Plantation	Teluk	Plantation	Training and job
		Company	Bintuni		opportunities.
			Regency		
4	PT Freeport Indonesia	Mining	Timika,	Mining	Technical skills training
		Company	Papua		and education.
5	KEMITRAAN	NGO	Teluk	Governance	Strengthening civil
	(Partnership for		Bintuni and	and	society and local
	Governance Reform)		Fak-Fak	Empowerment	governance.
6	Yayasan Ekosistem	NGO	Sorong,	Marine and	Training and
	Nusantara Berkelanjutan		West Papua	Fisheries	empowerment in the
	(EcoNusa)				marine sector.
7	WWF Indonesia – Papua	NGO	West Papua	Environment	Support for sustainable
	Program				fisheries and
					conservation.
8	Plan International	NGO	Papua	Community	Youth and women's
	Indonesia			Empowerment	skills development.
9	Bank Papua, BNI, BRI	Banking	West Papua	Finance	People's Business Credit
	dan Mandiri				(KUR) for MSMEs.
10	BPR Papua Barat	Microfinance	West Papua	Microfinance	Funding and financial
					management training.
11	Pendamping Lapangan	Field	Teluk	MSME	Direct mentoring in
	MSMEs	Facilitator	Bintuni	Assistance and	independent business
			Regency	Development	management, technical
				-	skills training, and
					coaching.

Table 3. Potential companies, institutions and agencies to collaborate in developing MSMEs.

No.	Company/Institution	Туре	Location	Sector	Role in Supporting MSMEs
12	Perguruan Tinggi (Universitas Papua)	Educational Institution	Manokwari, West Papua	Education and Research	Research and innovation development related to MSMEs, as well as academic-based training programs.

CONCLUSION

The MSMEs in Teluk Bintuni Regency, West Papua. encounters multifaceted obstacles concerning restricted cash. market accessibility, business administration, and digital marketing (Jamhari and Khotimah, 2022; Chen and Sheehy, 2024). These difficulties necessitate a collaborative and crosssectoral strategy combining government, business entities, academic institutions, and civil society organizations (Nonet et al., 2022; Rahman et al., 2024). The central government is responsible for developing macro policies, whilst local governments are charged with executing these policies at the regional level (Jamhari and Khotimah. 2022). Simultaneously, academia and the corporate sector provide substantial contributions through research, training, finance, and innovation that enhance the production capacity and operational efficiency of MSMEs. Moreover, entities such as NGOs and banks contribute to community empowerment by means of campaigning, fundraising, and enhancing distribution networks. The collaborative and participatory approach of each key stakeholder optimizes their responsibilities and roles in accordance with their functions. This collaboration will facilitate efficient, and localized thorough, management of the MSMEs program, while positively influencing sustainable food security and enhancing local employment prospects. The comprehensive approach encompasses enhancing entrepreneurial capacity and guaranteeing that all sectors participate in the long-term advancement of sustainable MSMEs (Hampshire et al., 2022).

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