

**ASEAN Entrepreneurship Journal (AEJ)** 



ARTICLE INFORMATION

02

5

21 Jan 2024

15 Feb 2024

Feb 2024

Apr 2024

Received:

Revised:

Accepted:

Published:

## **Business management competencies and financial performance of Persons** with Disabilities Cooperatives (PWDCs) in the Philippines

#### Angelita S. Villaruel\*

Polytechnic University of the Philippines, College of Social Sciences and Development, Department of Cooperatives and Social Development

\*Corresponding Author

#### Abstract

Persons with Disabilities Cooperatives (PWDCs) face numerous challenges, including resource allocation, vision development, technology adaptation, and member diversity. The present study survey selected PWDCs in the Philippines to evaluate their business management competencies and correlates it with their financial performance. Using the descriptive research method, a total of 183 respondents, including officers, managers, and staff from sixteen registered primary PWDCs nationwide participated in the survey. Findings indicate an impressive and dynamic PWDCs profiles and a significant association between the business management competencies and financial performance was found. However, the business management competency of PWDCs is satisfactory and needs improvement. To address these challenges, PWDCs should adopt a more scientific and technologically driven approach to business management. Collaborations with government and non-government institutions are essential. It is recommended that PWDCs seek educational and technical assistance from academic and authoritative institutions.

Keywords: Persons with disabilities (PWD), business management competencies, financial performance, Cooperatives

#### **1.0. INTRODUCTION**

Persons with Disabilities Cooperatives (PWDCs) are organisations formed and operated by individuals with disabilities to collectively address their economic, social, and employment-related needs (Borzaga & Fazzi, 2022; Cáceres, 2023). These cooperatives are structured to promote the self-sufficiency and empowerment of people with disabilities, providing them with opportunities for income generation, skill development, and increased participation in the workforce and society (Westoby & Shevellar, 2022).

PWDCs typically function as cooperative enterprises where members with disabilities work together to create businesses, provide various services, or engage in economic activities that cater to their unique abilities and needs. These cooperatives may focus on a wide range of sectors, including agriculture, manufacturing, retail, services, and more, depending on the skills and interests of their members (Thohari & Rizky, 2021).

The objectives of Persons with Disabilities Cooperatives often include empowerment, skill development, economic independence, advocacy, support, access to resources, and community engagement (Cáceres, 2023).

PWDCs play a crucial role in promoting the social and economic integration of individuals with disabilities and fostering their self-reliance. These cooperatives often operate in accordance with cooperative principles, which include voluntary membership, democratic decisionmaking, equitable distribution of benefits, and concern for the community (Cuppari, 2022).

By creating a platform for collaboration and mutual support, Persons with Disabilities Cooperatives contribute to the overall well-being and inclusion of people with disabilities, enabling them to lead fulfilling lives and participate actively in the workforce and society at large.

In the Philippines, PWDCs serve as vital organisations that are specifically established and operated by individuals with disabilities to address their economic, social, and employment-related needs within

10

the context of the country (Clarion et al., 2022). These cooperatives are structured to empower and support persons with disabilities (PWDs) in various aspects of their lives, particularly in economic participation and social integration (Casim-Samama, 2023).

Key features of PWDCs in the Philippines include empowerment and inclusion, economic activities, skill development, advocacy, access to resources, community engagement, and cooperative principles (Tiglao et al., 2023). By operating within this framework, PWDCs in the Philippines contribute to the social and economic integration of PWDs. They help individuals with disabilities lead more independent lives, gain access to income-generating opportunities, and become active members of their communities. Additionally, these cooperatives play a crucial role in advocating for the rights and welfare of PWDs at the local and national levels (Casim-Samama, 2023).

On the other hand, the business management competencies of PWDCs are essential skills and abilities that enable these cooperatives to operate and manage their business activities effectively and efficiently (Ab Wahid et al., 2023). These competencies play a pivotal role in the success and sustainability of PWDCs (Kourkouridis & Salepaki, 2023). Studies show that financial management, strategic planning, marketing and sales, operations management, human resource management, compliance and regulation, technology adoption, networking and partnerships, problem solving and decision-making, communication skills, leadership and governance, sustainability and social responsibility, and adaptability are some of the key business management competencies that are particularly relevant to PWDCs (Oba, 2023). Developing and enhancing these business management competencies is essential for the growth and sustainability of Persons with Disabilities Cooperatives (Santoso, 2023). Training, mentorship, and access to resources can help PWDCs build and strengthen these competencies, enabling them to thrive in the competitive business landscape while also promoting inclusivity and economic empowerment for individuals with disabilities (Egorov et al., 2022).

According to the study by Akhmad and Santoso (2023), the financial performance of PWDCs is a critical aspect that determines their economic sustainability and ability to fulfill their missions. Assessing and improving financial performance is essential for the long-term

success of these cooperatives (Picciotto & Ummarino, 2023; Ahmad Rofe & Syed Marzuki, 2022). Studies show that key factors and indicators related to the financial performance of PWDCs include revenue generation, profitability, cash flow management, asset management, debt management, financial ratios, budgeting and financial planning, cost control, diversification of income sources, grants and fundraising, compliance, reserve funds. impact on members, transparency and accountability, and long-term sustainability (Herchenbach et al., 2023; Towo, 2023; Zhang & Wu, 2023).

Assessing and improving the financial performance of PWDCs often requires financial literacy, access to financial resources, training, and support (Messabia et al., 2023). Elliott and Boland (2023) suggest that cooperatives may seek assistance from financial advisors, government programs, and organizations that specialize in supporting cooperatives to strengthen their financial management practices and achieve their economic and social goals.

Persons with Disabilities Cooperatives in the Philippines face a unique set of challenges and issues that directly impact their business management competency and financial performance. These challenges can hinder their ability to operate effectively and sustainably. Studies show that some of the key challenges and issues include limited access to capital, lack of financial literacy, market access and competition, inadequate infrastructure, skills and training, limited networking opportunities, regulatory and compliance challenges, stigma and discrimination, access to assistive technologies, sustainability and scale, government support, and access to markets (Casim-Samama, 2023; Clarion et al., 2022; Tiglao et al., 2023). Addressing these challenges and issues requires a collaborative effort involving government agencies, nongovernmental organizations, financial institutions, and the broader community (Casim-Samama, 2023; Clarion et al., 2022; Tiglao et al., 2023). Providing targeted financial programs, support, improving financial literacy expanding access to training and technology, and promoting inclusivity and equal opportunities can help PWDCs in the Philippines enhance their business management competency and financial performance, ultimately leading to greater economic empowerment and social inclusion for individuals with disabilities (Casim-Samama, 2023; Clarion et al., 2022; Tiglao et al., 2023).

Thus, the present study focuses on assessing the level of business management competencies of selected PWDCs in the Philippines in terms of marketing management, human resources development program, and production and operations of 5S philosophy, and correlating it with financial performance of PWDCs in terms of profitability, institutional strength, structure of asset, and operational strength. The study also determines the difference in the respondent's assessment towards business management competencies, and how the business management competencies of PWDCs are correlated with financial performance.

The study hypothesize that no difference exists in the assessment made by the respondents towards PWDCs' business management competencies when group according to their profile, and relationship exists between business management competencies and financial performance.

## 2.0. METHODOLOGY

## 2.1. Research Design

To address the objectives of this study, descriptive survey research design was adopted (Fraenkel et al., 2019). Descriptive survey research design is a methodological approach used to systematically collect and analyse data from a sample of respondents to describe and summarize various characteristics, attitudes, behaviours, or perceptions within a population or group of interest. This type of research design is particularly useful in this study because it provides a systematic, structured, and quantitative approach to collecting and analysing data, allowing the researcher to achieve a comprehensive understanding of the subject matter and draw meaningful conclusions.

#### 2.2. Population and the Sample Respondents

The study selected a total of sixteen duly registered PWDCs in the Philippines namely: (1) Association of Differently Abled Persons in Iloilo Multipurpose Cooperatives (ADPI-MPC), Iloilo City, (2) Association of Differently Abled Persons Multipurpose Cooperatives (ADAP-MPC), Davao City, (3) Atlas Mining Community Handicapped Association Multipurpose Cooperative (AMCHA-MPC), Toledo City, Cebu, (4) Bigay Buhay Multipurpose Cooperative (BBMC), Caloocan and Quezon City, (5) Business Opportunity Producers Cooperative (BOPC), Cainta, Rizal, (6) Father Rafael

Desmedt Multipurpose Cooperative (FARAD-MPC), (7) Gintong Pangarap Multipurpose Cooperative (GPMPC), Cainta, Rizal, (8) Lingkod Banahaw Multipurpose Cooperative (LBMPC), Candelaria, Quezon, (9) Mapalad Multipurpose Cooperative (MAPALAD-MPC), Quirino Province, (10) New Hope Workers Cooperative (NHWC), Legaspi City, (11) Nueva Ecija Association of Persons with Disability MPC (NEAPWD-MPC), Cabanatuan City, Nueva Ecija, (12) PWD GENSAN Multipurpose Cooperative (PWD-GENSAN-MPC), General Santos City, (13) Samahang Ikauunlad ng mga May Kapansanan Multipurpose Cooperative (SIKAP-MPC), Pasig City, (14) San Francisco Association of Difefrently Abled Persons Multipurpose Cooperative (SAFRA-ADAP-MPC), Agusan del Sur, (15) Tacloban Persons with Disabilities Multipurpose Cooperative (TAPDICO MPC), Tacloban, Leyte, and (16) Vibes Multipurpose Cooperatives (VIBES-MPC), Cainta, Rizal. Most of these cooperatives are members of the National Federation of Cooperatives of Persons with Disabilities (NFCPWD) and members on the CDA list who are in good standing.

From the sixteen selected duly registered PWDCs, the population of the study refers to all PWDs who are members and are actively engaging in the cooperative activities. Sample respondents includes a total of one hundred eighteen (118) PWDs who are randomly selected from the list of members of the selected PWDCs.

With regards to age, the majority of PWDC officers, management, and staff were 41 years old or older. When it comes to marital status, the majority were married. In terms of religious affiliation, approximately 80.87% identified as Roman Catholic. Regarding their highest level of education, 36.07% had achieved a college degree. In terms of their tenure as officers, managers, and staff members, 167 individuals, or 91.26%, had served for 7-9 years. As members of PWDC, most had been involved for 10-12 years. In relation to their monthly salary at PWDC, 81 individuals, or 44.26%, were earning 6,000 or less per month.

In respect to alternative income sources, Agribusiness had the highest frequency, with 130 individuals, or 71.04%, engaged in it. Regarding participation in social organisations, 91 individuals, or 49.73%, were affiliated to municipal PWD groups. Many local government units (LGUs), particularly in Mindanao, have notable programs supporting the PWD sector. When it comes to the type of disability, orthopedic conditions were the most prevalent, accounting for 89 individuals, or 48.63%.

## 2.3. Research Instrument

The intention of this study is to describe the current situation without any attempt to influence it and obtain necessary data that can be used to draw a sound and acceptable conclusion of this study. The study used a validated and reliable researcher-made survey questionnaire. The questionnaire is divided into five parts. Part I of the instrument contains the respondents and organizational business profiles in terms of age, sex, civil status, educational attainment, number of years as officers, managers, and staff, number of years as a member, monthly salary, other sources of income, religious affiliation, membership in social/organizational, type of disability. The business profile of PWDC composed of assets, liabilities, net worth, share capital, income/net income, and sales. Part II covers the marketing management practices such as market assessment, market research, marketing plan, and sales plan. Part III includes the Japanese style of 5s of production operation management: Seri, or Sort, Seiton, or Systematize, Seiso, or Sweep, Seiketsu, or Standardize, Shitsuke, or Self-Discipline. Part IV is composed of human resources development program. It includes skills, training, employee development, performance management, compensation benefits, incentives, health, and safety. Lastly, Part V covers the financial aspect of management and practices, which includes profitability, the strength of assets.

## 2.4. Data Gathering

The research involved data collection through surveys and document analysis. The researcher identified selected respondents, developed and survey questionnaires, and obtained permission to survey cooperative officers, management, staff, and members of PWDC. Interviews were conducted through various means, including phone, email, and in-person visits. The researcher ensured transparency of the research purpose to encourage honest responses. Collected data were organised and interpreted. Respondents marked checkboxes in the survey questionnaire based on their experiences. Additional data were gathered for documentary analysis. In focus group discussions, respondents with visual disabilities and those who had

difficulty with the questionnaires shared information and ideas about their profiles, cooperative participation, work commitment, and satisfaction with cooperative services and compensation.

## 2.5. Statistical Analysis

The collected data were treated using statistical software known as IBM SPSS Statistics Version 22 and interpreted by the researcher. The median, Kruskal-Wallis H test, Chi-square test, and Cramer's V were used as statistical tools in this study.

## **3.0. RESULTS AND DISCUSSION**

### **3.1. Profile of Selected Person with Disability** Cooperatives (PWDs)

The Profile of Selected Person with Disability Cooperatives (PWDs) represents a vital initiative aimed at highlighting the unique contributions and challenges faced by individuals with disabilities who have come together to form cooperatives. These cooperatives serve as dynamic platforms, where persons with disabilities collaborate to harness their skills, talents, and entrepreneurial spirit, while also addressing the specific needs and barriers they encounter in various sectors of the economy. This profile sheds light on the inspiring stories, achievements, and innovations of PWD cooperatives, showcasing their resilience and determination in striving for economic empowerment, social inclusion, and a more equitable society.

In terms of the business profile, a significant portion of PWDC's assets exhibited a rising trajectory. The asset range for PWDC in 2018 spanned from 1,037,110.0 to 21,307,743 million pesos. Among the 16 PWD cooperatives, 11 of them experienced growth in their assets.

As for liabilities, the majority of PWDC's liabilities were on the upswing, with ten cooperatives or 62.5% of all cooperatives reporting increased liabilities.

Regarding share capital, the trend was predominantly upward, with fourteen cooperatives or 87.5% of them increasing their share capital.

Similarly, the majority of PWDC's equity demonstrated an increasing trend, with nine cooperatives or 56.26% boosting their total equity. However, in terms of sales, a significant proportion of PWDC experienced a decline, with nine cooperative members, constituting 56.25%, reporting reduced sales. On a positive note, half of PWDC's net surplus witnessed growth, as eight cooperatives or 50% reported an increase in their net surplus.

#### 3.2. Level of Business Management Competencies of selected Person with Disability Cooperatives (PWDs)

The assessment of the Level of Business Management Competencies among selected Person with Disability Cooperatives (PWDs) is a critical exploration into the proficiency and capabilities of these unique entrepreneurial entities. This examination seeks to shed light on the extent to which PWD cooperatives have developed and harnessed essential business management skills, encompassing areas such as strategic planning, financial management, marketing, and operational efficiency. Understanding their competency levels in these domains is not only pivotal for the growth and sustainability of these cooperatives but also plays a crucial role in promoting economic self-sufficiency and inclusivity for persons with disabilities in the broader business landscape.

Table 1: Level of Business Management Competencies in terms of
Marketing Management

Marketing Management	Х~	V.I
Marketing Assessment. Conduct marketing needs assessment/evaluation	3.00	Satisfactory
<b>Marketing Research</b> in each new project and program of PWDC	3.00	Satisfactory
<b>Marketing Plan</b> prepares targets and projections annually or semi-annually through a marketing mix marketing strategy (product, packaging, pricing, and promotion).	3.00	Satisfactory
Sales Plan. Market evaluation versus target	2.50	Satisfactory
Overall X~	3.00	Satisfactory

Table 1 shows that the respondents' assessment of the level of competency of PWDC in performing marketing management is satisfactory. Even though the PWDC has little knowledge, skills, and appreciation for modern and scientific/academic marketing management, they are still making an effort in marketing assessment, research, marketing planning, and sales planning.

Lecy, Searing, and Li (2023) mentioned that many people misunderstand the term marketing. They often

Table 2: Level of Business Management Competencies in terms of
Human Resources Development Program

Human Resources Development		m V.I
Human Resources Development	Х~	V.1
Program	• • • •	~
Provide human resource planning and	3.00	Satisfactory
analysis through performance evaluation and		
planning for members, officers, management		
and staff.		
Human resources staffing observed proper	3.00	Satisfactory
implementation of human resources		
development policy and programs on		
employee hiring, firing, rights, and privileges.	2.00	G .: C .
Human resource development function,	3.00	Satisfactory
provides continuous education and training		
for officers, management, staff, and members		
for professional development.	2.00	<b>a</b>
Management and staff	3.00	Satisfactory
Elected and appointed	3.00	Satisfactory
Committee	• • • •	~
Members of Cooperatives	3.00	Satisfactory
Human resource development functions,	3.00	Satisfactory
provide performance management evaluation		
system to		
Management and staff	3.00	Satisfactory
Elected and appointed	3.00	Satisfactory
Committee		
Members of Cooperatives	3.00	Satisfactory
Ensure a succession plan for cooperative	3.00	Satisfactory
leadership and management preparation		
Provide compensation and benefits for	3.00	Satisfactory
management and staff		
Salaries/wages are at least	3.00	Satisfactory
minimum or above		
Other incentives available for	2.50	Satisfactory
management and staff		
There is an available subsidy for	2.50	Satisfactory
SSS, PAGIBIG, and		
PHILHEALTH		
Provide honorarium /allowance and other	3.00	Satisfactory
benefits for cooperative officers		
Provides health, security, and safety to	2.50	Satisfactory
Management and staff	2.50	Satisfactory
Elected and appointed	2.50	Satisfactory
Committee		
Members of Cooperatives	2.50	Satisfactory
Employees' and officers' relationship ensures	3.00	Satisfactory
open communication for policy planning,		-
implementation, monitoring, and evaluation.		
Overall X~	3.00	Satisfactory

think it means "advertising," "promotion," or "retailing." It does include these, but it is much broader in scope. "Marketing is anything that is designed to bring buyers and sellers together. Four elements facilitate buyer-seller exchanges: a product or service that is unique and desired by buyers, a price for the product that buyers feel offers good value, a means of distribution so that buyers can gain access to the product, and promotion to make buyers aware of the product and its unique benefits." Establishing the starting price point for a product or service is one component of a pricing strategy. If the price is too high, there will be a reduction in sales, and if the price is lower than it should be, there will be a reduction in profit. The starting pricing will be influenced by the following five factors: (1) expenses, the cost of the product or service, and the cost of running the business. (2) price elasticity, or the degree to which customers are sensitive to different price levels (3) the image that is desired, (4) the value that is provided by the product, service, or business and (5) the price levels supplied by competitors.

Table 2 shows that the assessment of the level of competency of PWDC in performing the Human Resources Development Program had an overall satisfactory rating. As observed, it still provides human resource planning and analysis through performance evaluation and planning for members, officers, management, and staff. It provides health, security, and safety to indicators with the lowest median of 2.50 and is still satisfactory. Thus, the PWDC has a satisfactory level of awareness regarding human resource management operations and practices.

Consequently, the program for the development of the PWDC's human resources is satisfactory and is carried out adequately. In searching for the origins of this model and, therefore, for those on which the definition of the term "competency" is based, we can state that, although Romero and Nalangan (2023) pointed out that it was necessary to identify the attitudes of individuals that lead to business success, the first definition of competencies as achievement components associated with groups of human behaviours. Naturally, as discussed previously, the components of achievement are not present in all people; instead, they are only present in those who can perform well in their professional tasks.

It is essential to emphasise the following concept in this context: competency is not the accumulation of some components but rather the synergistic combination of those factors. These aspects are connected to the causes, characteristics, values, abilities, and knowledge that are unique to everyone, but the growth of competency at a certain level can only be achieved by combining all these aspects. A skill is not likely to change much with time; in other words, competencies do not typically evolve due to natural selection; instead, specific development programs geared toward those competencies are frequently

Table 3 Level of Business Management Competencies in terms of	
Production and Operations of 5S Philosophy	

Production and Operations of 5S	X~	<b>V.I.</b>
Philosophy		
Seiri or Sort	3.00	Satisfactory
• Take out unnecessary items and		5
dispose		
<ul> <li>Eliminating waste by classification</li> </ul>		
Seiton or Systematize	3.00	Satisfactory
<ul> <li>Arrange necessary items in good</li> </ul>		
order for use		
<ul> <li>Indicate where fire extinguishers</li> </ul>		
are.		
<ul> <li>Place warning signs for passages for</li> </ul>		
carts/forklifts.		
Indicate where chemicals are kept.		
Seiso or Sweep	3.00	Satisfactory
Clean your workplace		
<ul> <li>Regular cleaning and checking</li> </ul>		
extend the lives of machines/		
equipment and reduces machine		
breakdown.		
• Divide zones and decide on each		
team member's exact area of responsibility. The janitors will then		
look at the common areas only and		
can accomplish more		
Seiketsu or Standardise	3.0	Satisfactory
Maintain a high standard of	2.0	Substactory
housekeeping		
• Create a maintenance system for		
housekeeping		
• Does your workplace have adequate		
lighting and power supply		
Shitsuke or Self-discipline	3.0	Satisfactory
• Do things spontaneously without		
being told		
<ul> <li>Discipline yourselves to set a good</li> </ul>		
example before you expect your		
subordinates to follow standards.		
Overall X~	3.00	Satisfactory

required. From this point forward, these concepts will serve as the basis for developing "ideal" competencybased professional profiles that will be used to manage recruiting and training strategies.

Developing these "ideal" professional profiles involved contrasting two distinct groups of people: those with a performance level in their professional endeavours that fell in the middle of the spectrum and those with a significantly above-average level. As a direct consequence of this, competencies came to be understood as the knowledge, talents, and skills, in addition to a variety of other qualities, that differentiate low performance from high performance.

It is crucial to underscore that Mishra and Deshpande (2023) have offered valuable insights regarding how we should conceptualize "competency." According to their perspective, definitions of competency that centre on the accumulation of knowledge, such as "knowing how to do" or "knowing how to be," and its subsequent application are incomplete. Such limited definitions result in the fragmentation of competency, ultimately jeopardizing the viability of any competency-based system. Therefore, these definitions should not serve as the cornerstone for developing a robust competency-based management system. Merely aggregating a person's diverse characteristics does not encompass the entirety of competency.

In essence, competency is a multifaceted term; it is not characterized by a singular attitude, isolated knowledge, or specific talent. Instead, it represents the synthesis of all three within the specific context of a particular profession and its operational domain. Every observable behaviour observed during the execution of a specific competency results from the interplay of knowledge, skills, and attitudes associated with that particular skill.

According to the data presented in Table 3, PWDC possesses a sufficient level of business management competencies, as assessed by their performance in the role of Production and Operations management. Therefore, the PWDC's inability to meet the criteria for the continuous development of its operations is not hindered by its limitations. They are familiar with the fundamental concept of the 5S Philosophy of Kaizen for continual development, and while they do not excel at it, they do not consider themselves as failures.

If given the opportunity, there is a good possibility that progress will be significantly more substantial than adequate over time. The Toyota Motor Company in Japan is credited for developing the 5S concepts. They included it in their manufacturing system in the middle of the 20th century. The 5S principles are designed to assist corporations in keeping their workplaces tidy and wellorganized. Because it cuts down on waste and improves efficiency, a workspace that is kept clean and organised is essential to the success of any firm. A clean work environment (also) reduces the likelihood of accidents and increases productivity. The time and frustration spent looking for something were significantly reduced. In addition, employees will have a positive attitude toward their work environment if their workstation is clean and organised. They will be encouraged to watch for flaws and other forms of nonconformity.

In addition, a project team is responsible for implementing 5S. The 5S process consists of steps that start before implementation and continue after completion. 5S is not a one-time activity but a method for achieving and maintaining continual development. Sorting, putting things in order, shining, maintaining, and standardising are the tasks needed to accomplish 5S continuous improvements. These are the fundamentals around which the 5S concepts are built.

The project team utilises various Kaizen 5S tools during the project's implementation phase. These tools include 5S checklists, red tags, shadow boards, floor marks, and other visual communication tools. Every one of these 5S Kaizen tools maintains a clean, hazard-free, and well-organised workspace (Gupta & Jain, 2014).

#### 3.3. Difference on the Assessment made by the Respondents towards the Level of Business Management Competencies of selected Person with Disability Cooperatives (PWDs)

The assessment of the Level of Business Management Competencies among selected Person with Disability Cooperatives (PWDs) can vary significantly depending on the perspective of different respondents. This study delves into the differences in assessment made by respondents, which may include members of PWD cooperatives, stakeholders, government agencies, and other relevant parties. The variations in these assessments can be influenced by factors such as personal experiences, expectations, and knowledge of the cooperatives' operations. By understanding these differences, we gain valuable insights into the complex and multifaceted nature of evaluating the business management competencies of PWD cooperatives, which, in turn, can impact strategies of their enhancement and growth.

terms of Age									
Indicators	Age	Mean Rank	H Val	p- val.	Dec	Re			
	Below 25	114.100							
	26-30	78.778							
Marketing	31-35	108.500	6.079	0.193	Retain H <sub>0</sub>	Not			
Management	36-40	78.922	0.079			Sig.			
	41 and above	92.453							
	Below 25	98.450							
Human	26-30	99.944							
Resource	31-35	122.875	6.980	0.137	Retain	Not			
Development	36-40	87.578	0.980	0.157	$H_0$	Sig.			
Program	41 and above	87.789							
	Below 25	112.850	11.341	0.023	Reject	Sig.			

Table 4: Difference on the assessment made by the respondents towards the Level of Business Management Competencies in

Indicators	-	ivil atus		lean Rank	Н	val	p-val	Dec	Re m														
	Si	ngle	92	2.500																			
Maulastina	Ma	rried	92	2.476				Detain	NI-4														
Marketing	Wi	idow	6	5.000	1.	344	0.854	Retain H <sub>0</sub>	Not														
Mgmt	Wie	lower	1	17.50				<b>П</b> 0	Sig.														
	Sep	arated	- 93	1.833																			
	Si	ngle	94	4.879																			
HR Dev.	Ma	rried	- 93	1.858				Retain	Not														
Prog.	Widow 48.125 3.133	133	0.536	$H_0$	Sig.																		
riog.	Wic	lower	10	06.50			110	Sig.															
	Sep	arated	- 89	9.667																			
	Si	ngle	- 9'	7.348																			
	Ma	rried	- 89	9.698					Retain	Not													
Fin. Mgmt	Wi	idow	5	1.625	3.	606	0.462	H <sub>0</sub>	Sig.														
	Wic	lower	12	22.00				110	Sig.														
	Sep	arated	95	5.750																			
		26-3	0	115.7	22			$H_0$															
Financial		31-3	5	115.7	'19																		
	-	36-4	0	72.1	09																		
Manageme	5111	41 ar abov		90.5	78																		

Table 5: Difference on the assessment made by the respondents towards the Level of Business Management Competencies in terms of Civil Status

When grouped by age, Table 4 shows that there were different perceptions of the performance of PWD-run cooperatives and that the indicator of the performance of cooperatives run by PWDs had different perceptions. The table shows no significant difference in marketing and human resource management, especially for 35 years old and below. Financial management is significant. Financial issues become significant at all ages.

The most critical aspect for PWD is the current situation, precisely the financial aspect of how much earnings they will receive while we work on their production process, especially for order PWD.

Table 5 demonstrates that when PWD cooperatives were categorised according to their civil status, there was no substantial difference in their perception of performance.

Given this information, it can be deduced that the indicator of marketing, human resource, and financial management performance of cooperatives run by PWD when classified by civil status is inconsequential. Whether or not they are in a relationship, this will not impact their life. The continued existence, as human beings, is the most important thing to people.

Table 6 displays the comparison between the perceptions on the performance of cooperative run by

Table 6: Difference on the assessment made by the respondents									
towards the Level of Business Management Competencies in terms									
of Religion Affiliation									
Indicators	Religion Affiliation	Mean Rank	H val	p-val	Dec.	Rem.			
	Roman Catholic	90.787							
	Islam	161.000							
Marketing	Iglesia ni Kristo	117.389	4.825	0.438	Retain	Not			
Mmgt	Seventh Day Adventist	82.625	4.025	0.430	H <sub>0</sub>	Sig.			
	Protestant	80.091							
	Others	97.05							
	Roman Catholic	92.642			Retain H <sub>0</sub>	Not			
	Islam	174.500		0.196					
HR Dev.	Iglesia ni Kristo	112.333	7.343						
Prog.	Seventh Day Adventist	59.750	7.343	0.190		$H_0$	Sig.		
	Protestant	91.591							
	Others	69.3							
	Roman Catholic	90.250							
	Islam	176.500							
Fin Mgmt.	Iglesia ni Kristo	121.889	6.132	0.294	Retain H0	Not			
	Seventh Day Adventist	102.250	0.152	0.274		Sig.			
	Protestant	85.727							
	Others	85.35							

PWD when grouped according to religion affiliation using H test. When PWD cooperatives were categorised according to their religious affiliation, the table demonstrates no substantial difference in the perception of performance.

Cooperatives run by PWD grouped according to their religious affiliation shows that the implications under the indicator on the performance of the cooperatives are minor.

Table 7 displayed on the next page exhibits the comparison between the perceptions on the performance of cooperative run by PWD when grouped according to highest educational attainment using H test.

The table demonstrates a statistically significant disparity in the opinions of the efficiency of PWD-led cooperatives in terms of marketing and human resource management indicators when the respondents were categorised according to their highest level of educational attainment. Communicating face-to-face with customers and potential clients is essential to marketing and human resource management. Regardless of a person's outward

Indicators	Highest Educational Attainment	Mean Rank	H value	p-value	Decision	Remarks				
	Elementary	83.606								
	High school	102.202								
Marketing Mgmt	Vocational	67.443	13.115	0.011	Reject H <sub>0</sub>	Significant				
	College	101.182								
	Post Grad	117.500								
	Elementary	80.273								
	High school	100.074								
HR Dev. Prog.	Vocational	72.357	10.836	0.028	Reject H <sub>0</sub> Signifi	Significant				
	College	102.939								
	Post Grad	78.500								
	Elementary	85.273								
	High school	94.787								
Fin Mgmt	Vocational	81.186	3.563	0.468	Retain H <sub>0</sub>	Not Significant				
	College	99.439								
	Post Grad	81.250								

 Table 7: Difference on the assessment made by the respondents towards the Level of Business Management Competencies in terms of Highest Educational Attainment

look, confidence can be bolstered via scholastic achievement. Education is the process of acquiring knowledge and competencies and then applying those in the appropriate context and at the appropriate time.

Educational institutions can educate some or all of their pupils, but they cannot educate all of their students. Education can transform a person. People who have received education are aware of the responsibilities they have to both society and their nation. It is more about employing moral principles to bring about a fundamental shift in societal norms. The respondents believe that their level of education and efforts in marketing and managing the resources of their people are the primary contributors to their financial performance. The performance indicator on the financial management of cooperatives owned by people with disabilities does not reveal a significant difference when the data is classified according to the participants' highest educational attainment. Above all else, the educational attainment that each person has obtained is the most crucial factor in determining how important the core values of honesty and transparency are in the context of financial management.

The impressions of the performance of cooperatives run by PWD are classified by profile, and the table reveals no substantial variation in such perceptions. This suggests that the indicator of the performance of cooperatives administered by PWD is not significant in the indicator when categorised according to years of service at the management level.

Table 9 reveals that there is no substantial variation in such perception. This suggests that the performance indicator of cooperatives managed by PWD is not meaningful when categorised according to a member level. They are both members of the cooperative and owners of the cooperative since they are members. Instead

Indicators	Years of Service as Managers	Mean Rank	H value	p-value	Decision	Remarks			
	3- below	117.500							
Montratin a Manut	4 - 6 years	78.071	3.269	0.352	Retain Ho	Not Significant			
Marketing Mgmt	7 - 9 years	91.054	5.209		Ketalli H0	Not Significant			
	10-12 years	120.750							
	3- below	106.500		0.222					
HR Dev. Prog.	4 - 6 years	52.214	4.382		Retain Ho	Not Significant			
HK Dev. Plog.	7 - 9 years	93.737	4.562	0.223	J.225 Retain H <sub>0</sub>	Not Significant			
	10-12 years	88.750							
	3- below	100.000							
Fin Mgmt	4 - 6 years	54.214	4.078	0.253	Retain Ho	Not Significant			
i in Wight	7 - 9 years	92.991	4.078	0.233	Ketalli 110	Thor Significant			
	10-12 years	103.375							

Table 8: Difference on the assessment made by the respondents towards the Level of Business Management Competencies in terms of Vears of Service as Managers

Indicators	Years of Membership	Mean Rank	H value	p-value	Decision	Remarks			
	3- below	93.060							
Marketing Management	4 - 6 years	105.548	3.269	0.352	Datain II	Not Significant			
Marketing Management	7 - 9 years	81.125	5.209	0.352	Retain H <sub>0</sub>	Not Significant			
	10-12 years	93.278							
	3- below	92.720	6.082						
Human Resource	4 - 6 years	117.929		0.109	0.108 Retain H <sub>0</sub>	Not Conificant			
Development Program	7 - 9 years	88.775	0.082	0.108		Retain $\mathbf{H}_0$ Not Signin	Not Significant		
	10-12 years	10-12 years 87.531							
	3- below	96.920							
Financial Management	4 - 6 years	116.452	5.839	0.120	Retain H <sub>0</sub>	Net Cientificant			
	7 - 9 years	87.263	5.659	0.120		Not Significant			
	10-12 years	87.392							

Table 9 Difference on the assessment made by the respondents towards the Level of Business Management Competencies in terms of Years of Membership

of their duties, marketing, human resource management, and financial management are for them as members. As members, it is their responsibility to vote for new officers during the organisation's annual general assembly. Their responsibilities focus more on the executive power of their team than the management level.

Table 10 reveals that there is no substantial variation in such perception. This suggests that the indicator of the performance of cooperatives run by PWD is not significant when categorised according to the salary per month.

The vast majority of PWD employees are contented with their pay. Although they would prefer a salary that is at or above the minimum, depending on their performance, they are willing to settle for compensation that is lower than the minimum because they believe that any salary is preferable to receiving no salary at all. As Table 11 illustrates, there is a striking discrepancy in how different groups of PWD see the effectiveness of cooperatives run by PWD. As a result, compared to other indicators, the performance of cooperatives managed by PWD stands out as particularly meaningful. Exploring new avenues of financial support is a massive boon to the PWDC. Some of their other revenue streams become their customers in joint production, expanding their opportunities for collaboration and increasing their overall income.

The table shows a significant difference in the perceptions of the performance of cooperatives run by PWD when grouped by profile. This implies that the performance of cooperatives run by PWD when grouped according to social organisational members is significant. Membership in other social organisations is a strategic direction of all PWDCs to strengthen their marketing management, networking, and linkages. It will increase

Table 10 Difference on the assessment made by the respondents towards the Level of Business Management Comp	petencies in terms of
Salary per Month	

Indicators	Salary per Month	Mean Rank	H value	p-value	Decision	Remarks
	6,000 and below	83.606		0.068		Not Significant
	6,001-8,000	102.202				
Marketing Mgmt	8,001-10,000	67.443	8.753		Retain H <sub>0</sub>	
	10,001-12,000	101.182				
	12,001 and above	117.500				
	6,000 and below	80.273	7.747	0.101	Retain H <sub>0</sub>	Not Significant
II D	6,001-8,000	100.074				
Human Resource	8,001-10,000	72.357				
Development Program	10,001-12,000	102.939				
	12,001 and above	78.500				
Financial Management	6,000 and below	85.273			Retain H <sub>0</sub>	Not Significant
	6,001-8,000	94.787		0.585		
	8,001-10,000	81.186	2.842			
	10,001-12,000	99.439				
	12,001 and above	81.250				

Indicators	Other Sources of Income	Mean Rank	H value	p-value	Decision	Remarks						
	Sari-sari store	84.412										
Marketing	Service	50.900	19.556	0.000	Reject H <sub>0</sub>	Cianificant						
Management	Agribusiness	85.727	19.550	0.000		Significant						
-	Others	127.300										
	Sari-sari store	72.912		0.022	Reject H <sub>0</sub>							
Human Resource	Service	76.100	9.643			Reject H <sub>0</sub>	0.022 Reject H <sub>0</sub>	Significant	Significant			
Development Program	Agribusiness	88.885	9.045	0.022								
	Others	115.933										
	Sari-sari store	74.794										
Financial Management	Service	Service 70.600 16.211 0.0	0.0001	Reject H <sub>0</sub>	Significant							
T manetar Management	Agribusiness	86.681	10.211	0.0001	Кејест По	Significant						
	Others	125.333										

Table 11 Difference on the assessment made by the respondents towards the Level of Business Management Competencies in terms	
of Other Sources of Income	

their confidence as humans and allow some of their advocacy to be heard. This could also be a potential partner to add sources of funds by receiving donations, grants, and loans.

The table shows a significant difference in the perceptions of the performance of cooperatives run by PWD when grouped by profile. This implies a significant improvement under the indicator on the performance of cooperatives run by PWD when grouped according to type of disability under marketing management. Under human resource management and financial management, there is no significant improvement. It is significant to the PWDC's marketing management because they feel that dealing with people requires personality and education. They would like to give marketing management to the people they think have a more pleasing personality and education than they do. Human resources and financial management are inside production lines, so they do not require external appearance; good performance, good relationships, and good income will follow.

# **3.4.** Financial Performance of selected Person with Disability Cooperatives (PWDs)

The examination of the Financial Performance of selected Person with Disability Cooperatives (PWDs) is a crucial endeavour aimed at assessing the economic viability and sustainability of these unique cooperative entities. This analysis seeks to provide insights into various financial aspects, including revenue generation, cost management, profitability, and resource allocation, with the ultimate goal of understanding the financial health and resilience of PWD cooperatives. By evaluating their financial performance, we can gain a deeper understanding of their ability to achieve economic self-sufficiency, promote social inclusion, and effectively navigate the challenges that individuals with disabilities may encounter in the business world.

The table shown on the next page presents that the assessment on the level of competency of PWDC in performing financial management acquired an overall satisfactory rating, with a total average of 2.50. Profitability got the highest average of 2.50 and was satisfactory. In contrast, operational strength had the lowest average of 2.00. Thus, the PWDC, as an overall medium, received a satisfactory level of awareness

Indicators	Social Organizational Members	Mean Rank	H value	p-value	Decision	Remarks					
	Municipal PWD	79.484	13.003								
Marketing Management	Regional PWD	103.888		0.005	Reject H <sub>0</sub>	Significant					
Marketing Management	Partylist	160.500									
	Other	101.766									
	Municipal PWD	78.527	15.598								
Human Resource	Regional PWD	108.440		15 508	15 508	15 508	40 15 508	0.001 Reject H <sub>0</sub>	Paiaat U	Reject H <sub>0</sub>	Significant
Development Program	Partylist	161.000		0.001	Reject H <sub>0</sub>	Significant					
	Other	96.203									
Financial Management	Municipal PWD	81.549	7.866		Reject H <sub>0</sub>						
	Regional PWD	100.422		0.049		Cignificant					
	Partylist	131.00		0.049		Significant					
	Other	104.016									

Table 12 Difference on the assessment made by the respondents towards the Level of Business Management Competencies in terms of Social Organizational Members

Indicators	Type of Disability	Mean Rank	H value	p-value	Decision	Remarks
	Orthopaedic	91.315				
Marketing	Visual	112.289	0.208	9.208 0.027	Reject H <sub>0</sub>	Significant
Management	Deaf	79.867	9.208			
	Others	78.692				
	Orthopaedic	86.315				
Human Resource	Visual	99.934	2.026	0.386	Retain Ho	Not Significant
Development Program	Deaf	89.800	3.036	0.580	Retain H0	Not Significant
Flogram	Others	102.404				
	Orthopaedic	90.629				
Financial	Visual	104.776	3.306	0.347	Retain Ho	Not Significant
Management	Deaf	83.003	5.500	0.347	Ketalli 110	Not Significant
	Others	88.365				

Table 13: Difference on the assessment made by the respondents towards the Level of Business Management Competencies in terms of Type of Disability

regarding financial management operations and practices.

The Theory of Finance is a theory that Amos Tversky and David Kahnman developed and published in 1974. The economic theory, known as the Prospect Theory, explains how investors might select appropriate options even when those options involve risk (Kahneman & Tversky, 2013). The notion guides individuals to make choices that benefit their financial situation. Even the models consider empirical evidence to represent how individuals weigh possible rewards and losses.

The study of the various methods companies used to raise capital and the methods by which capital is allocated to various projects is what the concept of finance theory. This study also takes into consideration the risks that are associated with the work that the companies do.

#### 3.4. Relationship between the Level of Business Management Competencies and Financial Performance of selected Person with Disability Cooperatives (PWDs)

The Relationship between the Level of Business Management Competencies and Financial Performance of selected Person with Disability Cooperatives (PWDs) is a critical exploration that aims to uncover the intricate link between the skills and strategies employed by these cooperatives and their overall financial well-being. This study delves into whether higher competencies in areas such as strategic planning, financial management, and marketing correlate with improved financial outcomes, including revenue growth, profitability, and resource utilization. Understanding this relationship is essential not only for assessing the effectiveness of business management within PWD cooperatives but also for informing strategies that can enhance their financial sustainability, thereby fostering economic empowerment and social inclusion for individuals with disabilities.

Marketing management, production and operations, and human resource development programs are all associated with financial management, as seen in Table 14. This means those who responded to the questionnaires

<b>Financial Management</b>	Х~	V.I.
Profitability	2.50	Satisfactory
Income has been	2.50	Satisfactory
increasing for the last		
three (3) years		
Members continuously	2.50	Satisfactory
receive dividends for		
the last three (3) years		
Interest rates on	2.50	Satisfactory
Capital and Patronage		
refunds have been		
increasing for the last		
three (3) years.		
Institutional Strength	2.50	Satisfactory
The PWDC has a	2.50	Satisfactory
reserve fund to cover		
losses		
Structure of Asset	2.50	Satisfactory
Members' deposits and	2.50	Satisfactory
share capital have been		
continuously		
increasing for the last		
three (3) years		
External borrowing is	3.00	Satisfactory
decreasing		
Operational Strength	2.00	Fair
PWDC has enough	2.00	Fair
budget for the volume		
of business		
High levels of liquidity	2.00	Fair
and cash on hand and		
in the bank are		
increasing		
Overall X~	2.50	Satisfactory

Table 14: Level of Financial Performance

demonstrated a connection between the three indicators and financial management where the latter is dependent on, related to, or affected by these three indicators. As per the perspective put forth by Sama-Berrocal and Corchuelo Martínez-Azúa (2023), the primary objective of modern management revolves around "orchestrating the utilisation of both tangible and human assets in a manner that maximizes their contribution to organizational objectives." This line of thinking is transferable to other departments, including human resources, manufacturing, accounting, and marketing. Managers in the modern period herald a time of teamwork, camaraderie, mutual understanding, and expansion (Moran et al., 2023).

 Table 15: Relationship between Business Management

 Competencies and Financial Performance

Indicators	Correlation	p- value	Decision	Remarks			
Financial Management							
Marketing Management	0.382	0.000	Reject H <sub>0</sub>	Significant			
Production and Operations	0.401	0.000	Reject H <sub>0</sub>	Significant			
Human Resource Development Program	0.532	0.000	Reject H <sub>0</sub>	Significant			

## 4.0. CONCLUSION

The respondents in the study appear to be a group of experienced, married individuals primarily affiliated with the Roman Catholic religion. They have diverse sources of income, with agri-business being the most common. The cooperatives themselves generally showed positive trends in terms of assets, liabilities, share capital, and equity, but there is room for improvement in terms of sales. These findings can be valuable for understanding the profile of PWDCs members and assessing the financial health of these cooperatives. Further analysis would be needed to explore the implications of these trends in greater detail.

Based on the respondents' assessments, PWDCs demonstrate satisfactory performance in marketing management, human resources development, and the application of the 5S philosophy in production and operations. This reflects the cooperative's commitment to applying modern management practices and continually

improving its operations despite the unique challenges presented by its members' disabilities. Overall, the cooperative's efforts are commendable in these areas.

Furthermore, the assessment of business performance for cooperatives run by PWDs varies based on different factors such as age, educational attainment, other income sources, social organizational members, and type of disability. While some factors lead to significant differences in perceptions, others do not. These findings suggest the importance of considering specific demographic and contextual factors when assessing and improving the performance of such cooperatives.

PWDCs demonstrate a satisfactory level of performance in financial management, with a particular strength in profitability. However, there is room for improvement in operational strength. The fact that PWDCs are aware of and striving to meet national performance standards is a positive sign, indicating a commitment to improving financial management practices within the cooperatives. Further efforts to enhance operational strength and other aspects of financial management could lead to even better overall performance.

Lastly, data suggests that there is a significant and positive association between the competencies required for business management, including those related to financial management, marketing management, human resource management, and continuous improvement programs for industrial operations. This correlation implies that when businesses or organizations, such as PWDCs, focus on improving their overall business management competencies, including areas like financial management, it tends to have a positive impact on their financial performance. In other words, as these competencies are strengthened and enhanced, they can lead to better financial outcomes. This finding underscores the importance of a holistic approach to business management, where various aspects, such as financial management, marketing, human resources, and continuous improvement, are interconnected and contribute to overall success. It suggests that organisations that invest in developing these competencies and align them with their financial goals are more likely to achieve improved financial performance.

**Author Contributions:** Conceptualization, methodology, software; Angelita S. Villaruel validation, Angelita S.

Villaruel; formal analysis, Angelita S. Villaruel; investigation; resources, Angelita S. Villaruel; writing original draft preparation, Angelita S. Villaruel; supervision, Angelita S. Villaruel; project administration, College Of Business Administration And Graduate Studies Of Polytechnic University Of The Philippines.; funding acquisition, Angelita S. Villaruel.

Funding: This research received no external funding.

Acknowledgments: The researcher would like to express her heartfelt gratitude and appreciation to the people who shared their knowledge, time, and skills in completing this study. This dissertation appears in its current form due to the assistance of these persons who uphold the researcher in her post-graduate studies. To the Polytechnic University of the Philippines CBAGS Dean, Dr. Raquel G. Ramos, and the Vice President for Academic Affairs, Dr. Emanuel C. De Guzman, to (panelists) Dr. Guillermo C. Bungato, Jr., Chair of the Panel of Evaluators, Dr. Hilda F. San Gabriel, Dr. Gloria A. Rante, Dr. Donatila A. San Juan, Dr. Cristeta A. Baysa; and Dr. Michelle Lasundin To her adviser, Dr. Raquel G. Ramos, who patiently reviewed her dissertation despite her busy schedule; To Associate Prof. Laurence P. Usona and Dean Lincoln A. Bautista, thanks for the time and effort; and Dr. Desiree Maynes

**Conflicts of Interest:** The author declare no conflict of interest. The funders had no role in the design of the study; in the collection, analyses, or interpretation of data; in the writing of the manuscript, or in the decision to publish the results.

#### Reference

- Ab Wahid, H., Hishamuddin, A. Z., & Abd Rahman, R. (2023). Social Entrepreneurship Approach Towards Leveraging Persons with Disabilities (PwD) in Malaysia. International Business Education Journal, 16(1), 85-97.
- Ahmad Rofe, N. A., & Syed Marzuki, S. Z. (2022). Person with disabilities and business sustainability factors in Malaysia: a review of literature. ASEAN Entrepreneurship Journal (AEJ), 8(2), 1-9.
- Akhmad, K. A., & Santoso, T. J. (2023). Factors Affecting the Business Development of Women with Disabilities in Indonesia. Indonesian Journal of Disability Studies, 10(1), 95-104.
- Borzaga, C., & Fazzi, L. (2022). Some lessons from Italian social cooperatives: 1970–2020. Z'GuG Zeitschrift für Gemeinwirtschaft und Gemeinwohl, 45(4), 583-594.

- Cáceres, D. H. (2023). Social enterprises in the social cooperative form. The International Handbook of Social Enterprise Law, 173.
- Casim-Samama, N. (2023). Predictors of Sustainable Community-based Enterprises in Southern Philippines. Journal of Community Development Research (Humanities and Social Sciences), 16(3), 85-96.
- Clarion, J. M., Dacanay, K., Dacles, G., Daganasol, A., Rosales,
  R. M., & Tongco, C. J. (2022). The Cooperatives' Initiative for Women Empowermentin Selected Primary Cooperatives in Metro Manila: A Study of its Effect and Significance. Available at SSRN 4248433.
- Cuppari, A. (2022). Learning from the crisis for a new paradigm of social work: a cooperative inquiry with social workers of services for adults with disabilities in Northern Italy. Looking back for the future. Reconsidering adult learning and communities., 93.
- Egorov, V., Inshakov, A., Chigarev, V., & Aleksandrova, E. (2022). Social cooperatives as an element of solidarity economy. Wisdom, 23(3).
- Elliott, M. S., & Boland, M. A. (Eds.). (2023). Handbook of Research on Cooperatives and Mutuals. Edward Elgar Publishing.
- Fraenkel, J., Wallen, N., & Hyun, H. (2019) How to Design and Evaluate Research in Education (9th Ed.) New York: McGraw-Hill Book Company.
- Gupta, S., & Jain, S. K. (2014). The 5S and kaizen concept for overall improvement of the organisation: a case study. International Journal of Lean Enterprise Research, 1(1), 22-40.
- Herchenbach, J. S., Briggeman, B. C., Bergtold, J. S., Shanoyan, A., Low, S. A., & Miller, B. (2023). A qualitative assessment of farmer director skills in agricultural cooperatives. International Food and Agribusiness Management Review, 1-18.
- Kahneman, D., & Tversky, A. (2013). Prospect theory: An analysis of decision under risk. In Handbook of the fundamentals of financial decision making: Part I (pp. 99-127).
- Kourkouridis, D., & Salepaki, A. (2023). Cooperative Tourism Marketing in Accessible Tourism Development: The Case of the Cross-Border Area of Greece–Republic of Northern Macedonia. Sustainability, 15(19), 14093.
- Lecy, J. D., Searing, E. A., & Li, T. (2023). Misuse, misunderstanding, and misinterpretation of nonprofit

accounting information. Research Handbook on Nonprofit Accounting, 57.

- Messabia, N., Beauvoir, E., & Kooli, C. (2023). Governance and management of a savings and credit cooperative: The successful example of a Haitian SACCO. Vision, 27(3), 397-409.
- Mihalciuc, C. C., & Grosu, M. (2022). The impact of nonfinancial performance factors on the value of the company. EUFIRE 2022, 273.
- Mishra, M., & Deshpande, A. P. (2023). Investigating entrepreneurial competency in emerging markets: a thematic analysis. International Journal of Business and Globalisation, 33(1-2), 245-265.
- Moran, R. T., Abramson, N. R., Chan, A., & Marie-Marguerite, S. (2023). Managing Cultural Differences: Global Leadership Skills and Knowledge for the 21st Century. Taylor & Francis.
- Oba, S. (2023). Potential People of Disability in Agriculture, as Social Farming in Japan, Compared with Other Countries. Reviews in Agricultural Science, 11, 181-202.
- Picciotto, L., & Ummarino, I. (2023). Entrepreneurship of People with Disabilities and Accessible Tourism in the Non-hotel Accommodation Sector in Italy. Modern Management Tools and Economy of Tourism Sector in Present Era, 353.
- Romero, R. S., & Nalangan, R. M. (2023). Assessment of Personal Entrepreneurial Competencies Of University Of Mindanao Graduating Business Students. International Journal of Industrial Management, 17(1), 50-59.
- Sama-Berrocal, C., & Corchuelo Martínez-Azúa, B. (2023). Agri-food cooperatives: what factors determine their innovative performance?. Academia Revista Latinoamericana de Administración.
- Santoso, B. (2023). Inclusive Digital Financial Services for Persons with Disabilities: Impact on Economic Empowerment and Financial Inclusion. Indonesian Journal of Disability Studies, 10(1), 105-124.
- Thohari, S., & Rizky, U. F. (2021). Persons with disabilities' financial literacy and access to financial services. Jurnal ekonomi dan bisnis, 24(1), 47-64.
- Tiglao, N. C. C., Ng, A. C. L., Tacderas, M. A. Y., & Tolentino, N. J. Y. (2023). Crowdsourcing, digital co-production and collaborative governance for modernizing local public transport services: The exemplar of General Santos City, Philippines. Research in Transportation Economics, 100, 101328.

- Towo, N. N. (2023). Financial Leverage and Financial Performance of Savings and Credit Co-operative Societiesin Tanzania. International Journal of Rural Management, 19(2), 214-233.
- Westoby, P., & Shevellar, L. (2022). The possibility of cooperatives: a vital contributor in creating meaningful work for people with disabilities. Disability & Society, 34(9-10), 1613-1636.
- Zhang, S., & Wu, D. (2023). Analyzing the Relationship among Social Capital, Dynamic Capability, and Farmers' Cooperative Performance Using Lightweight Deep Learning Model: A Case Study of Liaoning Province. Computational Intelligence and Neuroscience, 2023.