# THE EFFECT OF WORKING CAPITAL MANAGEMENT ON THE PROFITABILITY OF SMALL AND MEDIUM ENTERPRISES: META-ANALYSIS

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#### **ABSTRACT**

The relatively small amount of literature related to working capital management (WCM) has contributed to some issues relevant to WCM literature, including a lack of inter-country research. The primary aim of this study was to review research on the impact of WCM on SMEs' profitability to help researchers specify gaps in the literature and direct research efforts considering how WCM has attracted research attention, especially after the financial crisis in 2008. This paper has been carried out by adopting the SLR methodology. To the best authors' knowledge, the inter-country review regarding the topic has been almost nonexistent to date. The review has concluded that there is a negative relation between WCM and SMEs' profitability. Complete discussion can be concluded that further researchers can provide more empirical evidence from other countries to support the finding.

*Keywords:* Literature review, Working capital management (WCM), Profitability, SME, Inter-country

#### **INTRODUCTION**

The main goal of the company is to maximize prosperity for its shareholders. One way to achieve this goal is to increase profitability which is used to assess company performance. Gitman and Zutter (2015) define profitability as a company's ability to generate profits over a certain period. From a financial point of view, the possibility of a company to achieve financial success is influenced by profitability because reference it becomes a for stakeholders consisting of creditors, suppliers,

and also investors to see how far the company can generate profit from sales and investment of the company. In order to obtain profitability, all company resources must be mobilized as effectively and efficiently as possible. One part of the resource that can have an impact on profit is working capital.

Singh et al. (2014) state that over the last 40 years, major theoretical developments have taken place in the realm of long-term investment and financial decision-making. Many of these new concepts and related techniques have been applied successfully to

industrial practice. In contrast to this, much less attention is paid to the short-term financial space, especially regarding working capital. Such waiver may be acceptable considering that working capital only has a small level of interest in the company. For this reason, only peripheral research has appeared in the working capital management literature. Other reasons include, first, decisions related to working capital are things that often occur and are routine in nature so that individually, the impact is not significant. Second, unlike policies related to investment capital, these routine decisions can be changed at any time.

However, the financial crisis that occurred in 2008 has attracted managers and researchers to study working capital. Many studies such as those conducted by Deloof (2003), Falope and Ajilore (2009), and Gill et al.. (2010) show a large effect of working capital on company profitability. Wang (2002) states that aggressive liquidity management can improve operating performance which is generally associated with an increase in firm value.

Seeing the curiosity of researchers for literature studies that discuss working capital, Singh et al. (2014) in the journal "Working Capital Management: a Literature Review and Research Agenda" conducted a study of published literature on capital management to identify and analyze the main characteristics of the literature on working capital needed to deepen understanding of the topic. From the analysis conducted on the 126 articles obtained, problems were identified in the available literature, including:

> 1. The lack of systematic theory development, this is probably due to the minimal number of studies on working capital and most of the research conducted is a test of the effect of working capital on profitability.

> 2. The dominance of empirical research, only a few studies were conducted using a survey approach.

3. Lack of cross-country research, most studies only use one country or one company as an analysis sample.

Working capital management is important considering its impact on profitability and risk, which in turn affects firm value (Smith, 1980). Specifically, working capital investment involves a trade-off between profitability and risk. Decisions made to increase profitability generally tend to increase risk and vice versa. Gitman (1974) argues that the cash conversion cycle (CCC) is a key factor in working capital management because it reflects the decision on the amount of investment in consumer and inventory accounts, and how much credit to receive from suppliers. Previous studies have used CCC as a basis for analyzing the effect of CCC's short term on company profitability. Empirical evidence from studies conducted on large companies such as that of Shin and Soenen (1998) on American companies, Deloof (2003) on Belgian companies, and Wang (2002) on companies in Japan shows a significant negative relationship between working capital management and profitability. In this case, it can be concluded that reduced working capital investment will result in higher profitability.

Working capital management is especially important for small and medium enterprises (hereinafter referred to as SMEs) considering that most of the company's assets owned by SMEs are current assets. Not only that, current liabilities are one of the main sources of external financing because in general, SMEs experience difficulties in obtaining long-term funds from the capital market (Peterson and Rajan, 1997) and the financial limitations faced by these companies (Whited, 1997; Fazzari and Petersen, 1993). Therefore, efficient working capital management is especially important for small companies because in general, small companies operate on short-term businesses.

Motivated by the third point identified by Singh et al, and the importance of working capital management, especially in small companies, the researchers decided to conduct cross-country literature review bv a recapitulating the studies that had been conducted regarding the effect of working capital management on profitability in SMEs (small to medium -sized enterprises/ SMEs). Until now, researchers have not found any literature review that discusses and concludes the effect of working capital management on the profitability of SMEs in various countries conducted by previous researchers, so this paper is expected to fill this gap in the literature.

#### LITERATURE REVIEW

#### **Working Capital Management Concept**

Working capital management (hereinafter referred to as WCM) is related to all management decisions that affect the size and effectiveness of work management (Kauf, 2010). Working capital management is important to financial health, in both large and small companies.

Working capital is an investment in short-term assets or current assets that are used as the company's daily operating costs. Working capital can be categorized into two, namely gross working capital and net working capital. Gross working capital is the amount of current assets, and net working capital is the amount of current assets minus the amount of current liabilities. Working capital management manages current assets and current liabilities so that current assets are always greater than current liabilities.

Both current assets and current liabilities are part of short-term finance. Short-term financial management is carried out with the aim of managing each element of current assets and current liabilities to achieve a balance between profitability and risk that makes a positive contribution to company value. Included in current assets include: inventory, accounts receivable (AR), current liabilities, cash and marketable securities). While those included in current liabilities include: debt (accounts payable/AP), accruals, and notes payable.

The cash conversion cycle (CCC) is a popular WCM measurement tool and has been used in many studies such as those conducted by Deloof (2003), Raheman and Nasr (2007), and Garcia-Teruel and Solano (2007) to measure the impact working capital (WCM) on company profitability. CCC is the time difference between the purchase of raw materials and the sale of finished goods. The longer the cycle means the more investment is made in working capital. Reducing CCC to a reasonable minimum generally leads to increased profitability (Karaduman et al., 2011; Jose et al., 1996).

#### METHOD

recommended bv Fink (2005).As а methodology with a systematic approach, an explicit explanation of implementation procedures, and a comprehensive scope including all relevant material related to the phenomenon presented needs to be presented. In this case, the systematic literature review (SLR) method was applied to this study.

A systematic review is a research method used to identify, evaluate, and interpret all research results, topics, or certain phenomena of concern (Kitchenham, 2004). Contrary to an individual study which is a form of primary study, a systematic review is a secondary study which is useful for synthesizing various relevant research results. In principle, a systematic review is a research method that summarizes the results of primary research to present more comprehensive and balanced facts. This systematic review is carried out in the following order:

- 1) Identification of research questions
- Setting limits on the data to be used
- 3) Data search
- 4) Selection of relevant and appropriate research results
- 5) Data extraction from selected individual studies

- 6) Synthesize the results with the narrative method
- 7) Presentation of results

In this study, researchers have searched published journals that discuss the effect of working capital management on profitability. Researchers used the Google Scholar search site and most of the journals were obtained from Emerald. The search starts with a keyword which is then restricted at a later stage. The limitations used in the literature taken include:

- 1) Articles published within the last 15 years (2006-2021).
- The paper discusses the effect of working capital management on profitability in one country, with a population of at least 300 SMEs.
- 3) Working capital management is measured through CCC and

profitability is measured through Return of Assets (RoA).

#### **RESULT AND DISCUSSION**

Because the majority of research on the effect of working capital management on profitability discusses large companies or only discusses one company, there are not many articles that can be used as research material. From searches conducted through the Google Scholar search site, there are a total of 9 articles that discuss the effect of working capital management (WCM) on profitability in SMEs in a country. The recapitulation of the articles in question is sorted based on the order of publication year and can be seen in Table I:

Table I Publication of Working Capital and Profitability for 2006 - 2021

No	Title	Author	Country	Aim		Method		Result
					Туре	Populati	Proxi	
						on		

No	Title	Author	Country	Aim		Method		Result
•					Туре	Populati on	Proxi	
1.	Effects of Working Capital Managem ent on SME Profitabilit y (2007)	Pedro Juan Gracia- Teruel & Pedro Martine z- Solano	Spain	Analyze the influence of working capital managemen t on the profitability of SMEs	Metode Panel Data	8,872 SMEs in Spain in 1996- 2002	<ol> <li>Independ ent variables</li> <li>WCM is measure d by CCC, AR, AP, &amp; inventor</li> <li>The depende nt variable: Profitabili ity is measure d by RoA</li> <li>Control variables</li> <li>company size, sales</li> <li>growth, leverage</li> </ol>	<ol> <li>WCM is important for SMEs</li> <li>There is a negative relationship between SME profitability and the number of days of accounts receivable (AR) and inventory</li> <li>There is no significant relationship between the number of account payable (AP) days and the return on SME assets</li> <li>There is a negative relationship between CCC and profitability so that SMEs should pay attention to WCM by creating value by reducing</li> </ol>

No	Title	Author	Country	Aim		Method		Result
					Туре	Populati	Proxi	
						on		
								CCC to a
								minimum as far as it is
								reasonable.
2.	Working	Arun	India	Knowing	Correl	1,198	1)	1) There is
	capital	kumar		the results	analysis	manufact	Independ	a positive
	manageme nt	O.N & T.		of the relationship	and small	uring compani	ent variables	relationship between
	profitabilit	r. Radha		between the	squares	es listed	: WCM	RoA and
	y:	R		level of	regressio	on	is	the number
	sensitivity			working	n	India's	measure	of debtor
	analysis			ca <mark>pital</mark>	analysis	Economi	d	and
	(2013)			measured		c	through	inventory
				by the cash		Monitor for the	the	days.
				conversion cycle		for the 5th term	number of debtor	2) There is
				(CCC) and		Juiterin	days,	a negative
				the			inventor	relationship
				profitability			y days,	between the
				of small			number	number of
				and			of	creditor
				medium			creditor	days and
				enterprises (SMEs)			days, current	profitability , which
				(314125)			ratio,	means that
							current	the more
							liability	number of
							ratio to	days
							total	payable
							assets,	(AP) leads
							financial	the
							assets to total	company to lower
							assets,	profitability
							size, &	and vice
							asset	versa.
							turnover	
							ratio	

No	Title	Author	Country	Aim		Method		Result
•					Туре	Populati on	Proxi	
							2) Depende nt variable: Profitabil ity is measure d by ROA	
3.	The Relative importanc e of working capital manageme nt and its componen ts to SME's Profibilitity (2013)	Venanci o Tauring ana & Godfred Adjapo ng Afrifa	England	Analyze the effect of working capital on the profitability of SMEs	Regressi on analysis and question naire	133 SMEs registere d in the Alternati ve Investme nt Market (AIM) in the period 2005- 2006 UK compani es	<ol> <li>Independ ent variable: WCM is measure d by cash conversi on cycle, number of days accounts receivabl e, inventor y and accounts payable</li> <li>The depende nt variable: Profitabil ity is measure d by Return of Assets (RoA)</li> <li>Control variables : quick</li> </ol>	Shows that Debt managemen t (AP) and accounts receivable (AR) are important to inventory profitability , And CCC managemen t is not critical to profit.

No	Title	Author	Country	Aim		Method		Result
•					Туре	Populati on	Proxi	
							ratio, inventor y, total assets, fixed assets, & leverage	
4.	Influence of Working Capital Managem ent on Firms Profitabilit y: A Case of SMEs in Kenya (2013)	Muchin a Stephen & Kiano Elvis	Kenya	Analyze the influence of working capital managemen t on the profitability of Kenyan companies	Panel data method	Fixed panel data from 232 compani es were used	<ol> <li>Independ ent variables</li> <li>WCM is measure d by APP, stock turnover rate in days (STRD), ACP, &amp; CCC</li> <li>Depende nt variable: Profitabil ity is measure d by (ROA)</li> </ol>	<ol> <li>There is a significant negative effect between ITID and ACP on profitability</li> <li>There is no evidence that APP affects RoA</li> <li>CCC has a significant effect on profitability , but the research does not state the relationship directors.</li> </ol>
5.	Impact of Working Capital Managem ent and Corporate Governanc e on The Profitabilit y of Small and Medium	Muham mad Musa Tsagem , Norhani Aripin, & Rokiah Ishak	Nigeria	Provides a research model on the effect of working capital managemen t on profitability in SMEs in Nigeria.	Regressi on Analysis	378 SMEs in Nigeria Period 2005- 2013.	1) Independ ent Variable: WCM is measure d by ARP, IHP, APP, CCC, CH,	There is a negative relationship between CCC and profitability

No	Title	Author	Country	Aim		Method		Result
.					Туре	Populati on	Proxi	
	Sized Entities in Nigeria: A Proposed Model (2014)						EWCM, CGM 2) Depende nt variable: Profitabil ity is measure d by RoA and GoP 3) Control variables : Size, Leverage , SGROW , Age,	
6.	Effect of Working Capital Managem ent on SME's Performan ce in Pakistan ( 2014 )	Snober Javid	Pakistan	To prove the researchers' expectation s regarding the possible influence of WCM efficiency on the performanc e of small and medium enterprises in Pakistan	Random effects regressio n model on panel data	54 SMEs listed on the Karachi stock exchange for a period of five years 2006- 2010	GDP 1) Independ ent variables : WCM	<ol> <li>SME with shorter ITID, ACP, and APP results in greater profitability</li> <li>.</li> <li>No evidence was found that CCC and NTC have any effect on profitability</li> <li>.</li> </ol>

No	Title	Author	Country	Aim		Method		Result
					Туре	Populati on	Proxi	
							through RoA	
				D			3) Control variables : financial debt ratio, firm size, sales growth, & current ratio	
7.	Working Capital Managem ent and SMEs Profitabilit y: Portugues e Evidence (2015)	Maria Amélia, Pais Paulo, M Gama	Portugal	Provides empirical evidence regarding the influence of WCM on SMEs in Portugal	Panel data method	6,063 SMEs in Portugal in the period 2002- 2009 obtained from SABI database (Iberian Balance Sheets Analysis System)	<ol> <li>ratio</li> <li>Independ ent</li> <li>variables</li> <li>WCM</li> <li>is</li> <li>measure</li> <li>d by AR,</li> <li>AP, INV,</li> <li>&amp; CCC</li> <li>2) The</li> <li>depende</li> <li>nt</li> <li>variable:</li> <li>profitabil</li> <li>ity is</li> <li>measure</li> <li>d by</li> <li>RoA</li> <li>3)</li> <li>Control</li> <li>variables</li> <li>firm</li> <li>size</li> <li>(SIZE),</li> <li>SGROW</li> <li>,</li> </ol>	<ol> <li>There is a negative relationship between AR, INV, &amp; CCC with profitability</li> <li>There is a positive relationship between AR and profitability</li> <li>There is a positive relationship between SIZE, SGROW, GDPGR, &amp; CLR with profitability</li> <li>and negative with DEBT.</li> </ol>

No	Title	Author	Country	Aim		Method		Result
•					Туре	Populati on	Proxi	
							leverage (DEBT), CAR, & CLR	
8.	The effect of working capital manageme nt on profitabilit y in small and medium enterprises in Indonesia (2016)	Farah margare ntha & Cindy oktavia ni	Indonesia	Knowing the effect of the components of working capital managemen t consisting of cash conversion, day in account, receivable peroid, day of inventory, and day in account payable peroid on those measured using ROA, ROE, gross operating profit	Regressi on equation with the calculati on of working capital and profitabil ity.	42 SMEs that have been listed on the PEFIND O index 25 for the 2009- 2014 period	<ol> <li>Independ ent variable: WCM is measure d by CCC</li> <li>Depende nt variable: Profitabil ity is measure d by RoA and RoE</li> </ol>	<ol> <li>1) CCC has a negative effect on profitability when measured by ROA</li> <li>2) CCC has a positive effect on profitability when measured by ROE</li> </ol>
9.	Effects of Working Capital Managem ent on SME Profitabilit y: Evidence from an Emerging Economy, 2021	Italy and Argenti ne	Luca Sensini & Maria Vazquez	This paper's main objective was to evaluate the influence of working capital managemen t policies on Argentine agro- industrial firms' profitability	Regresi	326 MSMEs	individua l determin ants of working capital (DSO, DSI, DPO and CCC) as independ ent variables , while EBITDA	The results of the study show that the variables (DSI, DPO and CCC) have a negative effect on company profitability , meaning that investing in

No	Title	Author	Country	Aim		Method		Result
					Туре	Populati	Proxi	
						on		
								inventory
								and asking
								for greater
								extensions
								from
								suppliers
								causes
								additional
								costs that
								cannot
								offset the
								benefits
								generated.

Source: processed by researchers in 2023.

After selection based on predetermined limits, studies conducted in the Czech Republic, Pakistan, England, Kenya and Indonesia were eliminated because they did not meet the minimum population requirements so that only 5 articles would be discussed in this study. Recapitulation of selected articles that discuss the effect of working capital management (WCM) on profitability in SMEs identified through the SLR can be summarized in Table II:

Table II Recapitulation of research articles that have been	published after selection
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No	Journal	Country	Author	Aim		Method		Result
					Туре	Populati	Proxi	
						on		
1.	Effects of	Pedro	Spain	Analyze the	Data	8,872	1)	1) WCM is
	Working	Juan		influence of	Panel	SMEs in	Independ	important
	Capital	Gracia-		working	Method	Spain in	ent	for SMEs
	Managem	Teruel		capital		1996-	variables	
	ent on	& Pedro		managemen		2002	: WCM	2) There is
	SME	Martine		t on the			is	a negative
	Profitabilit	Z-		profitability			measure	relationship
	y (2007)	Solano		of SMEs			d by	between
							CCC,	SME
							AR, AP,	profitability
							&	and the
							inventor	number of
							У	days of
								accounts

No	Journal	Country	Author	Aim		Method		Result
					Туре	Populati	Proxi	
						on		receivable
							2) The	(AR) and
							depende	inventory
							nt	
							variable:	2) There is
							Profitabil	no
							ity is	significant
							measure	relationship
							d by	between the
							RoA	number of
								account
							3)	payable
							Control	(AP) days
							variables	and the
							:	return on
							company	SME assets
							size,	
							sales	3) There is
							growth,	a negative
							leverage	relationship
								between CCC and
								profitability so that
								SMEs
								should pay
								attention to
								WCM by
								creating
								value by
								reducing
								CCC to a
								minimum as
								far as it is
								reasonable.

No	Journal	Country	Author	Aim		Method		Result
					Туре	Populati on	Proxi	
2.	Working capital manageme nt profitabilit y : sensitivity analysis (2013)	Arun kumar O.N & T. Radha R	India	Knowing the results of the relationship between the level of working capital measured by the cash conversion cycle (CCC) and the profitability of small and medium enterprises (SMEs)	Correl analysis and small squares regressio n analysis	1,198 manufact uring compani es listed on India's Economi c Monitor for the 5th term	<ol> <li>Independ ent variables</li> <li>WCM is measure d</li> <li>through the number of debtor days, inventor</li> <li>y days, number of creditor</li> <li>days, current</li> <li>days, current</li> <li>assets, financial</li> <li>assets, financial</li> <li>assets, financial</li> <li>assets, size, &amp; asset</li> <li>turnover</li> <li>ratio</li> <li>total</li> <li>assets, size, &amp; asset</li> <li>turnover</li> <li>ratio</li> <li>popende</li> <li>nt</li> <li>variable:</li> <li>Profitabili</li> <li>ity is</li> <li>measure</li> <li>d by</li> </ol>	<ol> <li>There is a positive relationship between RoA and the number of debtor and inventory days.</li> <li>There is a negative relationship between the number of creditor days and profitability , which means that the more number of days payable (AP) leads the company to high profitability and vice versa.</li> </ol>
3.	Impact of	Muham	Nigeria	Provides a	Regressi	378	ROA 1)	There is a

No	Journal	Country	Author	Aim	Method			Result
		-			Туре	Populati on	Proxi	
	Working Capital Managem ent and Corporate Governanc e on The Profitabilit y of Small and Medium Sized Entities in Nigeria: A Proposed Model (2014)	mad Musa Tsagem , Norhani Aripin, & Rokiah Ishak		research model on the effect of working capital managemen t on profitability in SMEs in Nigeria.	on Analysis	SMEs in Nigeria Period 2005- 2013.	Independ ent Variable: WCM is measure d by ARP, IHP, APP, CCC, CH, EWCM, CGM 2) Depende nt variable: Profitabil ity is measure d by RoA and GoP 3) Control variables : Size, Leverage , SGROW , Age,	negative relationship between CCC and profitability
4.	Working Capital Managem	Maria Amélia, Pais	Portugal	Provides empirical evidence	Panel data method	6,063 SMEs in Portugal	GDP 1) Independ ent	1) There is a negative relationship
	ent and SMEs Profitabilit y:	Paulo, M Gama		regarding the influence of WCM on	memou	in the period 2002- 2009	variables : WCM is measure	between AR, INV, & CCC with profitability
	Portugues e Evidence (2015)			SMEs in Portugal		obtained from SABI database	d by AR, AP, INV, & CCC	2) There is a positive relationship

No	Journal	Country	Author	Aim	Method			Result
					Туре	Populati on	Proxi	
5.	Effects of Working Capital Managem ent on SME Profitabilit y: Evidence from an Emerging Economy, 2021	Italy & Argenti ne	Luca Sensini & Maria Vazquez	This paper's main objective was to evaluate the influence of working capital managemen t policies on Argentine agro- industrial firms' profitability	Regressi on	(Iberian Balance Sheets Analysis System) 326 MSMEs	<ul> <li>2) The depende nt variable: profitabil ity is measure d by RoA</li> <li>3) Control variables : firm size (SIZE), SGROW, leverage (DEBT), CAR, &amp; CLR individua 1 determin ants of working capital (DSO, DSI, DPO and CCC) as independ ent variables , while EBITDA</li> </ul>	between AR and profitability 3) There is a positive relationship between SIZE, SGROW, GDPGR, & CLR with profitability , and negative with DEBT. The results of the study show that the variables (DSI, DPO and CCC) have a negative effect on company profitability , meaning that investing in inventory and asking for greater extensions from suppliers causes additional

No	Journal	Country	Author	Aim	Method			Result
					Туре	Populati	Proxi	
						on		
								costs that cannot offset the benefits generated.

Source: processed by researchers in 2023.

Gitman (1974) argues that the cash conversion cycle (CCC) is a key factor in working capital management. Many researchers who use CCC as a basis have established significant negative а relationship between working capital management and profitability. All the studies discussed in the table have results that are in line with previous studies where research conducted in Spain, India, Nigeria, Portugal and Argentina showed a negative relationship between working capital management and profitability.

#### RESULT

Departing from the problems identified by Singh et al. (2014) in the journal "Working Capital Management: a Literature Review and Research Agenda" regarding the lack of cross-country research, where most studies only use one country or one company as a sample analysis of the available literature, this literature review was made with the aim The main objective is to recapitulate the research that has been

conducted on the effect of working capital management on profitability in SMEs (small to medium-sized enterprises/ SMEs) with the hope that it will make it easier for other researchers to explore the topic and make comparisons on topics in various countries. This literature review was carried out by adopting the SLR method which in the end recapitulated 4 articles that met the criteria. All articles recapitulated show results that are in line with other studies conducted using CCC as a basis, where there is a negative relationship between working capital management and profitability in SMEs in various countries. Based on this, the researcher concludes that there is a negative relationship between working capital and SME profitability. The lack of literature and empirical evidence in other countries makes research and the search for empirical evidence from other countries that can support or reject the proposed hypotheses necessary for future research.

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