# The Effect of Building Information Modelling (BIM) on the Accounting Information System (AIS) of construction firm

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#### Abstract

Scholars and the Building Information Modelling (BIM) have been experimenting with new approaches to improve the sustainability of buildings. One such approach is the accounting information system (AIS), a modern modelling of technology. As a result, the current study looks at the state of the literature on AIS and sustainable construction, as well as the latter's development. The new research provides a wider perspective than past analyses of the problem, taking into account social, economic, and environmental factors as well as how they are related. In order to conduct a complete evaluation, the researchers conducted an informatics analysis of the literature and categorized it based on the results. Nine unique keywords and 61 variants were used to search for existing literature on the topic between 2010 and 2022. After that, content analysis was used to confirm the informatics study's findings and identify patterns and gaps. For instance, it was found that despite the topic's relevance, there were not many publications on it—no more than 25% of papers were published between 2010 and 2022. A void in the literature about the flaws and dimensions of accounting information systems was also found by the researchers. However, despite AIS's modest growth over the past few years, there is currently little literature study on organizational performance, behavior, and these topics. This demonstrates the significance of AIS research that is directly connected to the efficiency of construction firms.

Keywords: AIS, BIM, firm size

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# I. Introduction

The emphasis on accounting information systems (AIS) has been shifting in the BIM fundamentals (Cater-Steel, Toleman et al. 2019, Khayer, Jahan et al. 2020). Because of this, AIS has become a reliable source of BIM (Lei, Rao et al. 2020). In addition, it has become more significant in organizational research and government policy, with terms like "computerized economy" and "AIS" becoming more common. Computerization is the only essential resource that grows in utilization rather than degrades as a result (Hussein, Kasim et al. 2015, Korinek and Stiglitz 2021). Intangible resources are likely to provide a BIM in any performance setting, with human capital serving as the key factor because it cannot be replicated. Human capital is like the AIS, skills, and aptitudes that are already present in an individual (Qader, Ismeal et al. 2021). However, human capital is equivalent to an individual's capacities, competencies, and AIS (Sumaryati, PRAPTIKA NOVITASARI et al. 2020). Accounting information system has an impact on firm performance as revealed by a several of previous studies in the literature, for instance (e.g., Alabdullah, 2018; Alabdullah et al, 2022; Alabdullah et al., 2019; Alabdullah et al., 2020; Abushammala, et al., 2015; Alabdullah et al., 2021; Alabdullah, 2014; Alabdullah et al., 2015; Alabdullah, 2016; 2018; Alabdullah et al., 2018; Alabdullah, 2019; Alabdullah, 2020; Alabdullah et al., 2021; 2019; Amashhadani and Amashhadani, 2020; Almashhadani, 2021; Kanan 2012; Kanan et al., 2014; Kanan et al., 2015; Kanan et al., 2022; Ahmed et al., 2015; Almashhadani, 2021; Nor et al., 2020; AL-Fakhri and Alabdullah, 2021; Alfadhel et al., 2013; Alfadhel et al., 2016; 2018; Ahmed et al., 2020; Amashhadani and Amashhadani,2012; Alabdullah, 2022). According to Whitaker, Thatchenkery et al. (2020), AIS is a serious worry in contemporary building. In addition, AIS has developed into a corporate philosophy that helps organizations build the tactical capabilities they need to deal with the rising ambiguity and unpredictability of the corporate world. Researchers and practitioners agree that computerization is important for businesses to achieve and maintain a BIM (AL-HASHIMY 2017, Wiggins 2020). BIM is seen differently by different studies. Some think it is an organization's most valuable and

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trustworthy resource (Saka, Chan et al. 2020), while others think it is crucial to its very existence (Donnan and Wilson 2021).

The original AIS study focused on technology as a vital information transmission facilitator (Lázaro, Raulefs et al. 2019). As a result, experts have made significant investments in informative technologies to support AIS projects (Liang, Wu et al. 2019). The majority of these AIS initiatives, nevertheless, have had trouble producing the anticipated outcomes (Ahimbisibwe, Morton et al. 2020). Despite being advantageous in certain aspects, the AIS projects, according to Ahimbisibwe, Morton et al. (2020), have not always produced additional products and services, skilled personnel, or enhanced workflows (Haider, Herrera-Escobar et al. 2020).

The AIS agenda's use of intellectual resources is commonly seen to be hindered by firm size (Speldekamp, Saka- Helmhout et al. 2020, Al-Hashimy and Yusof 2021). Academics have emphasized the need of researching the human factors that influence AIS (Qiao, Liu et al. 2020). Additionally, it has been discovered that corporate culture has a significant impact on how a firm manages its computerized (AL-Hashimy 2018, Kucharska and Bedford 2019). As a result, businesses must take culture into account when launching AIS initiatives (Kucharska and Bedford 2019), given that culture may either discourage or facilitate BIM development and transfer (Haywood and Getchell 2021). A corporation may assess how effectively AIS processes and culture align in a certain business setting if it is aware of its own culture.

Additionally, the business could cultivate a culture that promotes electronic sharing, which is essential to its success (Martínez-Caro, Cegarra-Navarro et al. 2020). Recently, the concept of computerization as a help to construction enterprises has attracted a lot of attention and wide acceptance. Since sufficient computerization of performances is a crucial element in the survival of the sector Kadir and Broberg (2020), AIS is becoming more and more significant in the construction industry. Unfortunately, Iraq's deployment of structured AIS is still in its early stages, including in the construction industry (HUSSAIN 2017, Alfartoosi, Jusoh et al. 2021). The relevance of computerization should thus be seen by construction businesses as a valuable resource in attaining BIM, and AIS development initiatives should be seen as a component of the corporate future management agenda to achieve specified goals (Favoretto, de Sousa Mendes et al. 2021).

# II. Issue of the study

The relevance of BIM conditions for AIS has been emphasized by several academics through deliberate technological effects. In general, Iraq has a moderate acceptance rate for AIS, which can be attributed to the technology's early development. This study uses corporate structure as a negotiator and firm performance as a regulator to examine the AIS program in Iraqi BIM enterprises. The main benefits of AIS in the construction industry, as well as how its adoption and implementation in the BIM, may h help the country's economy flourish.

# III. AIS implementation in the BIM

Benefits	Barriers				
Improved performance.	Lack of time and money.				
Cost/time reduction.	Temporary, project-based and dispersed.				
Process and product improvement.	Employee resistance.				
Perceived benefit of AIS financial statement.	Poor organizational culture and structure.				
Reports preparation decision making.	Ad hoc adoption, piecemeal.				
Improved decision-making and problem-solving abilities.	Problems of validation and measurability.				
There are fewer errors and duplications of labor.	Incentives to computerize distribution are lacking.				
Improved retention, motivation, satisfaction, and staff quality.	AIS's merits are not well understood.				

Computerization, increased.	accessibility,	and	awareness	have	all	Concurrent awareness.	shift	orientations	and	a	lack	of	context-
Collaboration that is more efficient.													
Computerize transfer across a variety of project interfaces.													
Organizations will be more agile and respond better to organizational changes.													
Risk minimization.													

#### IV. BIM AND AIS

### **Measurement of Organizational Performance**

## **Earnings per Share (EPS)**

Every existing piece of common stock receives a part of a company's revenue (Arumugam, Hussein et al. 2015). As a measure of a net profit, operating income is computed as follows:

EPS = Net Income – Dividends on Preferred Stock

**Average Outstanding Shares** 

# **Return on Equity (ROE)**

Determined by dividing a particular year's gross earnings by the market value of equity at the start of the year:

 $\begin{array}{cccc} ROE = \underline{Earnings}x & \underline{Sales} & x & \underline{Assets} \\ & Sales & Assets & Equity \end{array}$ 

#### Return on Assets (ROA)

A statistic that depicts a company's profitability in relation to its overall resources:

ROA = Net income

Total assets

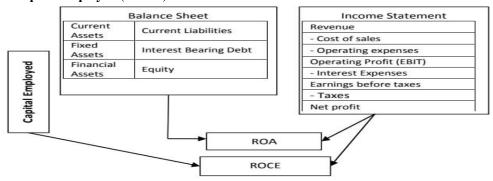
#### Return on net worth (RONW)

the share capital split by gross profit RONW is a metric used to measure progress from the stakeholders' standpoint. The RONW is computed as follows:

 $RONW = \underline{Net\ income}$ 

Owner's equity

#### **Return on Capital Employed (ROCE)**



# V. RESEARCH PARADIGMS

This study made use of the quantitative method, empirical epistemology, and positivist ontology. Provide a researcher with a detailed grasp of how a certain phenomenon is anticipated to behave to formulate a framework or theory. Removes the potential problems of assumption and prejudice that may develop in interpretive research by allowing researchers to evaluate their hypotheses and rely on statistical measurements (statistics) to support their findings. Since replication of findings is essential for theoretical testing, evidence may be reproduced for authentication purposes in subsequent study. Concerning the research's prospective audience(Al-HASHIMY and Al-hashimy 2019).

#### VI. Research planning

Analysis that blends qualitative and predictive techniques. The connection between BIM and AIS implementation elements, Utilization of BIM (ROA, ROE), which stands for performance measurement, The objective of this study is to objectively assess presumptions about the relationships between the variables in a theoretical framework drawn from earlier studies. Therefore, it was completed utilizing a logical process and the quantitative approach (AL-Hashimy 2019).

#### 3.1 BIM assessment instrument

No.	Variable	Question (Item)						
1.	Return on Assets (ROA)	My firm often uses BIM-based returns on assets (ROA).						
2.	Return on equity (ROE)	The firm's BIM capability would be difficult and expensive for the rivals to return on equity (ROE).						
3.	Earnings per Share (EPS)	EPS is still considered a very powerful BIM measurement tool amongst investment analysts.						
4.	Return on Net Worth (RONW)	RONW was positively related to shareholders' value.						
5.	Return on Capital Employed (ROCE)	Return on capital employed (ROCE) or the company's profitability has to exceed its cost of capital.						

# VII. JUSTIFICATION OF SELECTED SAMPLE

In the context of anticipating the BIM, reason one Decoherence will be applied to AIS (Hu, Sun et al. 2019). reason two Contracting businesses that collaborate with educational institutions were specifically chosen as the sample because they are the ones who install information systems and information technology the most in Iraq (Alazzam, Alassery et al. 2021). reason three It was discovered that the absence of AIS in businesses has a negative impact on both the BIM and the profitability (Alemayehu, Nejat et al. 2021).

#### VIII. Collection of Date

**Method:** Subjective survey that respondents can download, fill out at their convenience, and have collected. Harper Shehadeh, Abi Ramia et al. (2020) suggested doing a pre-test for the pilot survey to better identify the issues with the questions and allow for their revision before being implemented.

Cronbach's Alpha	Internal Consistency
$\alpha \ge 0.9$	Excellent
$0.9 > \alpha \geq 0.8$	Good
$0.8 > \alpha \geq 0.7$	Acceptable
$0.7 > \alpha \geq 0.6$	Questionable
$0.6 > \alpha \ge 0.5$	Poor
$0.5 > \alpha$	Unacceptable

# IX. First, choose a statistical method

First - The WARPPLS 7 software uses partial least squares (PLS) to simulate structural equations (WARP).

**Second-** WARPPLS 7 is the suggested alternative for structural equation modelling when the objective is analytical and mostly theoretical research or when there is just a minimum prior primary framework in the present literature (Memon, Cheah et al. 2019).

**Third-** Since PLS can handle complexes with as little as two or even one indicator component, it is appropriate for our investigation (Ringle, Sarstedt et al. 2020).

**Fourth-** The input is not always "normal," and the PLS technique minimizes dispersion rather than attempting to explain the correlation (Saberi-Movahed, Najafzadeh et al. 2020).

#### THEORY OF DATA ANALYSIS

- 1. SPSS version 20.0, the Statistical Package for Social Science.
- 2. Confirmatory factor analysis in structural equation modelling (WARP)
- 3. Check that the data complies with the sampling strategy.

#### XI. **Conclusions**

The literature on the use of AIS computing in BIM is examined in the current study from a viewpoint not previously addressed by the existing reviews. Instead of concentrating on applying financial management methods computers to various stages of the project, the researchers' goal was to investigate the evolution of the research on this topic and its increase in contextual performance.

The authors were able to adequately address the study objectives by performing a media review of the literature and classifying it based on the pertinent analytics of 733 articles published in scientific journals between 2010 and 2022. Even though the volume of scholarly papers on the use of BIM has substantially expanded over time, the fraction of articles on. The predicted phrases include "organizational behavior," "AIS," "BIM," and "organization size" when examining the words that the writers use the most frequently (e.g., BIM and AIS).

Select a classification scheme and do a comparison analysis on some of the data, including the patterns and voids related to this issue. There is more resonance between the economic and ecological aspects as well as the social and environmental characteristics, even though the quantity of articles published in each major topic stays constant. On the other hand, there aren't many studies that look at every facet of success. Additionally, scholars have recently started to concentrate on how the computerization of AIS is related to all elements of construction business efficiency. Considering the most recent informatics analysis results, Likewise, papers, conferences, and books were not taken into consideration; only peer-reviewed publications were. Only scientific output analyses with solid methodological underpinnings and peer acceptance in this area were chosen by the researchers. Finally, the outcomes demonstrate that the keywords are selected.

As a result, publications without any of these keywords are not considered. However, the language was chosen with such care that it covered almost all the writings on this topic. The researchers concluded by listing the three main issues and gaps: a lack of ontology across structural fields of information structures, a lack of integrations among financial reporting data management tools of social and reliability tools, and a lack of ontology across structural components of information structures. There are no common standards or rewards for.

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