

Towards Smart Accounting: A Proposed Framework for Integrating Economic Intelligence within Accounting Information Systems

الانتقال من المحاسبة التقليدية إلى المحاسبة الذكية: إطار مقترح لدمج الذكاء الاقتصادي في نظم المعلومات المحاسبية

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Received: 08/03/2026	Accepted: 06/04/2026	Published: 01/06/2026

Abstract

Digital transformation is reshaping accounting practices, pushing organizations to adopt what scholars now term Smart Accounting. This study examines how economic intelligence tools, namely ERP systems, Business Intelligence platforms, and predictive analytics, can be integrated into Accounting Information Systems to improve financial reporting and support managerial decision-making. To address this question, the authors develop the Smart Accounting Framework and test it empirically through a mixed-methods approach combining a systematic literature review with a quantitative survey of 60 enterprises. The findings confirm that embedding BI tools within AIS significantly enhances both the quality of accounting information and the accuracy of financial forecasting. You should note, however, that technology alone does not guarantee success. The study demonstrates that human and organizational factors, including staff training, change management, and sound data governance, are equally decisive in determining whether smart accounting adoption delivers its intended value.

Keywords: Smart Accounting, Accounting Information Systems (AIS), Economic Intelligence, Business Intelligence (BI), Enterprise Resource Planning (ERP).

JEL Classification: M41; O33; M15; C88; L86.

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¹ مغدوري شهرزاد، جامعة البليدة2-لونيسى علي، مخبر تسيير الجماعات المحلية ودورها في تحقيق التنمية المستدامة، الجزائر.

ملخص

يعيد التحول الرقمي المتسارع رسم ملامح الاقتصاد العالمي من جديد، مما يدفع المنظمات إلى تجاوز الأساليب المحاسبية التقليدية نحو المحاسبة الذكية. تسعى هذه الدراسة إلى استكشاف كيفية توظيف أدوات الذكاء الاقتصادي لا سيما أنظمة تخطيط موارد المؤسسات (ERP)، ومنصات ذكاء الأعمال (BI)، والتحليلات التنبؤية، ودمجها ضمن أنظمة المعلومات المحاسبية بهدف الارتقاء بجودة المعلومات المالية ودعم اتخاذ القرارات الإدارية بصورة أكثر فاعلية. طورت الباحثة في هذه الدراسة نموذجاً أطلق عليه إطار المحاسبة الذكية (SAF)، يوضح هذا النموذج طبيعة التفاعل بين قدرات الذكاء الاقتصادي ومكونات أنظمة المعلومات المحاسبية، مع إبراز دور الجاهزية التنظيمية بوصفها عاملاً محورياً. اعتمدت الدراسة على منهج مختلط الوصفي والمسح الكمي الذي شمل (60) مؤسسة. كشفت النتائج أن دمج أدوات ذكاء الأعمال داخل أنظمة المعلومات المحاسبية يحسن جودة المعلومات المحاسبية ودقة التوقعات المالية. إلا أن نجاح تبني المحاسبة الذكية لا يتوقف على التكنولوجيا وحدها، بل يرتبط ارتباطاً وثيقاً بالاستعداد التنظيمي الشامل، الذي يشمل تدريب الكوادر البشرية، والحوكمة السليمة للبيانات.

الكلمات المفتاحية: محاسبة ذكية، أنظمة المعلومات المحاسبية (AIS)، ذكاء اقتصادي، ذكاء الأعمال (BI)، تخطيط موارد المؤسسات (ERP).
تصنيف: L86: C88: M15: O33: M41: JEL

1. Introduction

1.1 Background

The digital revolution has fundamentally reordered the competitive landscape of modern enterprises, transforming not only production processes and customer engagement strategies but also the very systems through which financial reality is perceived, recorded, and communicated. Accounting (long regarded as the stable, rule-bound language of business) finds itself at the center of this transformation. Where traditional accounting systems were designed to systematically capture historical transactions, produce standardized periodic reports, and ensure legal and regulatory compliance, the demands of the contemporary economic environment stretch far beyond these classical functions. Today's organizations require financial information systems that can process vast datasets in real time, generate predictive models of future performance, detect anomalies before they crystallize into material misstatements, and feed strategic intelligence directly into executive decision-making processes. The conventional accounting paradigm, grounded in double-entry bookkeeping, accrual principles, and periodic consolidation cycles, was never designed to meet these demands. The resulting capability gap between what traditional AIS can deliver and what dynamic markets require has become one of the most consequential fault lines in contemporary organizational management.

The concept of Smart Accounting emerges precisely from this tension. Broadly understood, Smart Accounting describes an evolved accounting paradigm in which advanced digital technologies (particularly business intelligence platforms, machine learning algorithms, cloud-based ERP systems, and predictive analytics engines) are purposefully integrated with the foundational structures of accounting information systems to transform accounting from a retrospective recording function into a proactive organizational intelligence capability. Within this framework, accounting data is not merely archived and periodically summarized; it becomes a continuously flowing, dynamically analyzed resource that supports real-time monitoring of financial health, anticipatory modeling of risk scenarios, and evidence-based strategic planning. The conceptual novelty

of Smart Accounting lies not in any single technology but in the systemic integration of multiple intelligent tools within a coherent accounting architecture; an integration that requires deliberate framework design, organizational preparation, and a reconceptualization of the role of the accounting function within the modern enterprise.

Economic intelligence (defined in this study as the systematic organizational process of collecting, processing, and exploiting structured and unstructured information for competitive and strategic advantage) constitutes the conceptual backbone of Smart Accounting. When economic intelligence capabilities are operationalized through business intelligence tools and predictive analytics modules that are embedded within AIS, the accounting system transcends its traditional documentary function and becomes an instrument of strategic foresight. Despite growing scholarly and practitioner interest in this integration, the theoretical literature remains fragmented across disciplines; information systems, management accounting, strategic management, and organizational behavior, and a comprehensive, empirically validated framework that coherently maps the transition from traditional to smart accounting remains absent. This study directly addresses that gap.

1.2 Research Problem

Economic enterprises operating in digitally advanced environments face a complex and multidimensional challenge: how to strategically and effectively integrate economic intelligence capabilities (particularly ERP systems and predictive analytics platforms) with the existing architecture of their accounting information systems in ways that meaningfully enhance decision-making quality, financial reporting accuracy, and organizational performance, while simultaneously navigating the technical, organizational, and human capital barriers that routinely derail such digital transformations. The absence of a coherent, evidence-based framework for managing this transition exposes enterprises to fragmented implementations, unrealized returns on technology investment, and the perpetuation of information gaps that undermine competitive positioning. Against this backdrop, the central research question of the study is as follows:

To what extent does the integration of economic intelligence tools within accounting information systems contribute to the transition toward Smart

**Accounting, and what is the impact of this integration on decision-making quality
and financial performance in economic enterprises?**

1.3 Sub-Questions

Q1. What is the theoretical relationship between economic intelligence capabilities and the structural components of accounting information systems, and what conceptual framework best captures this relationship?

Q2. To what extent does the adoption and quality of ERP systems influence the quality of accounting information produced in economic enterprises?

Q3. Does the deployment of predictive analytics tools within accounting information systems significantly improve financial forecasting accuracy?

Q4. Does organizational readiness moderate the relationship between the degree of smart accounting adoption and organizational financial performance?

1.4 Research Hypotheses

1. H1: There is a statistically significant positive relationship between the quality of ERP system integration and the quality of accounting information produced in economic enterprises.

2. H2: Economic intelligence tools; specifically BI platforms and ERP-embedded analytics, exert a statistically significant positive effect on the quality of managerial decision-making in economic enterprises.

3. H3: The deployment of predictive analytics within accounting information systems significantly enhances financial forecasting accuracy in economic enterprises.

4. H4: Organizational readiness positively and significantly moderates the relationship between the degree of smart accounting adoption and organizational financial performance.

1.5 Importance of the Study

The significance of this research is grounded in several converging scientific, practical, and contextual dimensions. At the theoretical level, the study makes an original contribution to the accounting information systems literature by proposing and testing the Smart Accounting Framework (SAF), a novel conceptual model that integrates insights from Technology Acceptance Theory, the Resource-Based View of the firm, and Information Processing Theory into a coherent, accounting-specific model of digital intelligence integration. This cross-disciplinary synthesis addresses a conspicuous gap in a literature that has thus far treated AIS modernization, ERP adoption, and business intelligence deployment as largely separate research streams. At the practical level, the study offers enterprises a structured, evidence-based roadmap for managing the transition to smart accounting, grounded not in idealized prescriptions but in empirical evidence drawn from real organizational contexts. Finally, the study carries significant policy relevance for economic development authorities, professional accounting bodies, and higher education institutions in emerging economies, where the case for investing in digital accounting transformation requires both theoretical articulation and empirical substantiation.

1.6 Study Objectives

1. To synthesize the extant theoretical and empirical literature on the intersection of economic intelligence, ERP systems, and accounting information systems, and to identify the key mechanisms and boundary conditions governing their integration.

2. To develop an original, theoretically grounded conceptual model; the Smart Accounting Framework (SAF), that coherently maps the pathways through which economic intelligence integration enhances AIS performance and organizational outcomes.

3. To empirically test the hypothesized relationships between ERP adoption quality, BI tool deployment, predictive analytics usage, and key accounting performance indicators using primary data from a diverse sample of economic enterprises.

4. To assess the moderating role of organizational readiness in shaping the performance outcomes of smart accounting adoption.

5. To formulate actionable, evidence-based recommendations for practitioners, policymakers, and accounting educators engaged in digital transformation strategy.

1.7 Research Methodology

The study adopts a mixed-methods research design, integrating a systematic theoretical literature review with a quantitative survey-based empirical investigation. The philosophical stance is post-positivist: it acknowledges that organizational realities are complex and partially constructed, yet maintains that rigorous empirical testing of theoretically derived propositions can yield reliable, generalizable knowledge. The deductive approach governs the hypothesis-testing component, wherein the Smart Accounting Framework generates specific, falsifiable predictions that are tested against primary data. The quantitative component employs a structured questionnaire administered to a purposive sample of 60 economic enterprises currently operating integrated ERP systems. Statistical analysis is conducted using SPSS version 26, employing descriptive statistics, Pearson correlation, and hierarchical multiple regression analysis to test the four research hypotheses.

1.8 Data Collection Instruments

Primary data were collected through two complementary instruments. First, a structured questionnaire comprising 42 items measured on a five-point Likert scale (1 = Strongly Disagree to 5 = Strongly Agree) was designed to capture respondents' assessments of ERP integration quality, BI tool deployment level, predictive analytics usage intensity, organizational readiness for digital transformation, accounting information quality, decision-making quality, forecasting accuracy, and financial performance. The questionnaire was pilot-tested on a subsample of eight financial managers prior to full deployment, and Cronbach's alpha scores were computed for each subscale to verify internal consistency. Second, semi-structured interviews were conducted with twelve Chief Financial Officers (CFOs) and senior accounting managers drawn from within the study

sample, providing richer contextual insight into the organizational dynamics, implementation challenges, and perceived value drivers of smart accounting adoption.

1.9 Prior Studies

— **Rom & Rohde (2007)**: In their landmark systematic review, Rom and Rohde (2007) examined the relationship between management accounting practices and integrated information systems across a comprehensive sample of empirical and conceptual studies published between 1995 and 2005. Published in the *International Journal of Accounting Information Systems*, their review traced how the rise of ERP and enterprise-wide systems had begun to collapse the traditional boundaries between financial accounting, management accounting, and operational data management. The authors found that while ERP systems significantly enhanced the availability and speed of financial data, they also imposed rigid data structures that could constrain the flexibility and interpretive richness traditionally associated with management accounting. The study concluded that realizing the full potential of integrated systems required deliberate management accounting design work; a finding that directly informs the present study's emphasis on framework development and organizational readiness as preconditions for successful smart accounting adoption.

— **Grabski, Leech & Schmidt (2011)**: conducted an extensive review of ERP research from an accounting information systems perspective, published in the *Journal of Information Systems*. Their analysis of over 200 studies across two decades revealed that while ERP systems had fundamentally transformed the technical architecture of AIS, the accounting benefits of these systems were far from automatic. The authors identified critical success factors including top management commitment, process re-engineering, and user training as consistently distinguishing successful from failed ERP implementations. They further highlighted a significant gap between the transactional capabilities of ERP systems and the analytical demands of strategic financial management, a gap they argued could only be bridged through the deliberate integration of business intelligence and analytics layers on top of ERP platforms. This gap identification directly

motivates the present study's examination of predictive analytics deployment within ERP-enabled AIS environments.

— **Moll & Yigitbasioglu (2019)**: writing in the *British Accounting Review*, provided one of the most comprehensive scholarly assessments of how internet-related technologies (encompassing cloud computing, big data platforms, machine learning, and blockchain) are reshaping the accounting profession. Drawing on institutional theory and the sociology of professions, the authors argued that these technologies are not merely improving existing accounting processes but are fundamentally reconfiguring the epistemic role of accounting within organizations. Their analysis suggested that as routine accounting tasks become automated, the strategic premium on accountants' analytical and interpretive capabilities will intensify dramatically. They called for new theoretical models that conceptualize accounting as an intelligent, technology-mediated organizational function rather than a clerical discipline; a call that the present study answers through the Smart Accounting Framework.

— **Bhimani & Willcocks (2014)**: examined the implications of big data and digitization for accounting information, in a paper published in *Accounting and Business Research*. The authors made a compelling case that the explosive growth in organizational data (from structured transactional records to unstructured sentiment signals, sensor outputs, and social media streams) were rendering traditional AIS architectures epistemically insufficient. They identified four transformative dimensions: data volume, data variety, data velocity, and data veracity, arguing that accounting information systems of the future would need to address all four simultaneously to produce genuinely decision-relevant financial intelligence. Their framework of data-driven accounting transformation provided an important theoretical predecessor to the present study's Smart Accounting Framework, particularly in its emphasis on the need for systematic integration of intelligence capabilities rather than piecemeal technology adoption.

1.10 Positioning of the Current Study

The current study builds upon, extends, and in certain respects challenges these foundational contributions. Where Rom and Rohde (2007) catalogued the tension between integrated systems and management accounting flexibility, the present study proposes a specific architectural framework (the SAF) for resolving that tension through structured economic intelligence integration. Where Grabski et al. (2011) identified the analytical gap between transactional ERP and strategic financial management, this study empirically tests whether predictive analytics deployment can effectively bridge that gap. Where Moll and Yigitbasioglu (2019) theorized the changing epistemic role of accounting technology, this study grounds that theoretical shift in empirical data from a specific organizational context. And where Bhimani and Willcocks (2014) established the conceptual case for data-driven accounting transformation, the present research advances an operationalizable framework and provides hypothesis-level empirical evidence for its key claims. The distinctive contribution of this study thus lies in its simultaneous theoretical originality and empirical grounding, a combination that the prior literature has not yet fully achieved.

1.11 Structure of the Study

The remainder of this paper is organized as follows. Section 2 presents the theoretical framework, reviewing the conceptual foundations of traditional and smart accounting, mapping the landscape of economic intelligence tools, and elaborating the Smart Accounting Framework with its hypothesized relationships and graphical model. Section 3 presents the empirical study, detailing the research design, sample characteristics, statistical results, and hypothesis test outcomes. Section 4 concludes the paper with a synthesis of findings, discussion of implications relative to the prior literature, and a set of evidence-based recommendations for practitioners and policymakers.

2. Theoretical Framework

2.1 Traditional Accounting Systems: Foundations and Inherent Limitations

For more than five centuries, traditional accounting systems; traditionally based in the double-entry bookkeeping framework formalized by Luca Pacioli in the fifteenth century and gradually formalized through the development of generally accepted accounting principles (GAAP) and International Financial Reporting Standards (IFRS) have served as the informational foundation of market economies. Essentially designed to carry out three interdependent tasks, these systems are meant to: systematically record economic transactions as they happen; aggregate and classify these records according to established chart-of-accounts formats; and periodically generate financial statements (the balance sheet, income statement, and cash flow statement) that transmit the financial posture and performance of a company to a defined audience of external and internal users. These tasks are achieved by a mix of hand and partly automated methods stressing precision, consistency, auditability, and adherence to legal standards. (McWatters, 2023)

Despite their enduring importance, traditional accounting systems are beset by limitations that have become increasingly consequential in digitally transformed business environments. (Graeme Dean, 2016) Perhaps the most critical of these limitations is temporal: conventional systems are inherently retrospective, producing financial information that describes past events rather than informing future decisions. By the time a quarterly report is compiled, reviewed, and disseminated, the financial conditions it describes may have materially changed. A second limitation is granularity: traditional AIS are designed to aggregate and simplify, compressing vast amounts of operational data into standardized line items that, while useful for external reporting, obscure the operational intelligence embedded within underlying transaction streams. A third limitation, increasingly salient in data-rich environments, is integration: conventional accounting systems are typically siloed, exchanging limited information with operational systems such as production management, supply chain, or customer relationship management platforms, and relying on manual processes (spreadsheets, journal entry workflows, reconciliation

procedures) to bridge informational gaps. These limitations collectively define the space that Smart Accounting seeks to occupy. (Kimani, 2023)

2.2 The Emergence of Smart Accounting

Smart Accounting is not a single product or platform but a conceptual paradigm describing the purposeful, systematic integration of advanced digital intelligence capabilities with the foundational structures of accounting information systems. The term encompasses several converging technological and organizational developments: the deployment of cloud-based ERP systems that unify financial, operational, and analytical data in a single, continuously updated repository; the integration of business intelligence platforms that enable multidimensional analysis, visual dashboarding, and exception reporting against real-time data; the embedding of predictive and prescriptive analytics capabilities that allow accounting systems to model future scenarios, forecast financial outcomes, and generate proactive recommendations; and the emerging application of artificial intelligence and machine learning techniques (including natural language processing for unstructured data analysis and anomaly detection algorithms for fraud prevention) within AIS workflows. Together, these elements constitute what this study terms the Smart Accounting ecosystem. (Fayyaz Amir, 2025)

The theoretical genealogy of Smart Accounting draws on multiple intellectual traditions. Information Processing Theory (Galbraith, 1974) provides the organizational foundation: as environmental uncertainty increases, organizations must augment their information processing capacity to reduce uncertainty to manageable levels. Traditional AIS, with their periodic, standardized output, are insufficient information processors in volatile, high-velocity environments. Smart Accounting systems, by contrast, process information continuously, dynamically, and analytically, dramatically expanding organizational information processing capacity. The Resource-Based View (Barney, 1991) contributes a complementary perspective: accounting intelligence capabilities, particularly the ability to generate timely, accurate, and predictive financial information can constitute a source of sustained competitive advantage when they are valuable, rare, imperfectly imitable, and organizationally embedded. Finally, Technology Acceptance Theory (Davis,

1989) and its extensions, particularly the Unified Theory of Acceptance and Use of Technology (UTAUT) inform the study's treatment of individual-level adoption behavior and organizational readiness as moderating conditions. (Maulina, 2025)

2.3 Economic Intelligence and Business Intelligence in the Accounting Context

Economic intelligence (EI) is a concept of French theoretical origin, formalized in the work of "Henri Martre and the Commissariat Général du Plan" in the early 1990s and subsequently elaborated by scholars including Levet and Paturel, among others. In its broadest sense, EI refers to the organized, legal, and ethical process by which organizations collect, analyze, and exploit information about their competitive environment market trends, competitor strategies, regulatory developments, technological shifts to support strategic decision-making. When applied within the accounting domain, economic intelligence entails the design of information systems and analytical processes that not only capture internal financial data but also integrate external economic signals to produce enriched, contextually situated financial intelligence. (Ao, 2025)

Business intelligence (BI), while overlapping significantly with EI in practice, is a more technologically specific concept that refers to the suite of software tools, data architectures, and analytical methodologies used to transform raw organizational data into meaningful, actionable insights. (Feng, 2025) BI systems typically comprise four architectural layers: a data integration layer that extracts and normalizes data from multiple source systems (including ERP, CRM, and SCM); a data warehousing layer that provides a structured, historical repository optimized for analytical queries; an analytics layer that supports a spectrum of analysis from descriptive reporting through diagnostic investigation to predictive and prescriptive modelling; and a visualization layer that presents analytical outputs in intuitive, decision-ready formats. Within Smart Accounting, BI systems serve as the analytical intelligence engine that transforms the transactional data captured and stored by ERP systems into the strategic financial intelligence required by modern organizational decision-making. (Al-Okaily. A, 2023)

2.4 ERP Systems as the Structural Backbone of Smart Accounting

Enterprise Resource Planning (ERP) systems represent the most consequential information technology development in organizational management of the past three decades. By integrating previously siloed functional systems (finance, procurement, production, human resources, sales) into a single, unified data environment, ERP systems eliminate the informational fragmentation that characterized pre-digital organizational architectures and provide the foundational data infrastructure upon which Smart Accounting depends. From an accounting perspective, the financial modules of ERP systems (typically encompassing financial accounting (FI), controlling (CO), asset management (AM), and treasury (TR)) replace the disconnected ledgers, manual reconciliation processes, and batch-reporting cycles of traditional AIS with a real-time, continuously updated financial repository that reflects the financial implications of every operational transaction as it occurs. (Heinzelmann, 2017)

The major ERP platforms deployed by contemporary enterprises; SAP S/4HANA, Oracle Fusion Cloud ERP, and Microsoft Dynamics 365, among others have progressively embedded advanced analytical capabilities directly within their financial modules, effectively transforming ERP from a transactional system of record into a hybrid transactional-analytical platform. (Rahwani, 2026) SAP S/4HANA, for instance, leverages in-memory computing to enable real-time financial analytics at the transaction level, while Oracle Fusion Cloud ERP incorporates AI-driven predictive financial planning capabilities, and Microsoft Dynamics 365 Finance integrates machine learning-based cash flow forecasting and anomaly detection. These developments have blurred the traditional boundary between ERP systems and standalone BI platforms, creating integrated smart accounting ecosystems in which transactional recording, analytical processing, predictive modelling, and strategic reporting occur within a single, unified technological environment. (Güler, 2021)

2.5 The Relationship Between Study Variables

The theoretical model underlying this study posits a structured set of causal and moderating relationships among five key constructs: ERP Integration Quality (X1), BI Tool Deployment Level (X2), Predictive Analytics Usage Intensity (X3), Organizational

Readiness (M), and four outcome variables; AIS Information Quality (Y1), Decision-Making Quality (Y2), Financial Forecasting Accuracy (Y3), and Financial Performance (Y4). These relationships are grounded in the theoretical frameworks described above and are operationalized through four testable hypotheses.

ERP Integration Quality is conceptualized as the degree to which an enterprise's ERP system comprehensively integrates financial and operational data, operates in real time, and delivers accurate, complete, and timely financial information to accounting users. Drawing on Information Processing Theory, higher ERP integration quality is hypothesized to reduce information processing gaps and directly improve AIS information quality (H1). BI Tool Deployment Level reflects the extent to which an enterprise has implemented and actively uses business intelligence platforms for financial analysis, visualization, and reporting. This construct is expected to positively influence decision-making quality (H2) by enriching the informational environment within which managerial decisions are made. Predictive Analytics Usage Intensity captures the frequency and sophistication with which predictive modelling capabilities are applied to financial data, and is hypothesized to directly enhance financial forecasting accuracy (H3). Finally, Organizational Readiness (encompassing top management commitment, staff digital competency, data governance maturity, and change management capacity) is theorized as a positive moderator of the relationship between overall Smart Accounting adoption and financial performance, reflecting the well-established finding in the IS adoption literature that technical capabilities produce superior outcomes only when matched by organizational preparedness (H4).

2.6 The Smart Accounting Framework (SAF): A Proposed Conceptual Model

The Smart Accounting Framework (SAF) proposed in this study integrates the preceding theoretical analysis into a coherent, testable conceptual model. The SAF posits that the transition from traditional to smart accounting is not a linear technology adoption process but a multidimensional organizational transformation that requires simultaneous attention to technological integration, human capital development, organizational governance, and strategic alignment. At the core of the SAF is the integration interface, the point at which economic intelligence capabilities (ERP systems, BI platforms, predictive

analytics) interact with the structural components of the AIS (chart of accounts, transaction processing, financial reporting) to produce enhanced accounting intelligence. This integration interface is neither automatic nor self-sustaining; it is conditioned by the quality of the technical integration and the degree of organizational readiness. (Youssef Mohamed, 2021)

The SAF further distinguishes between three tiers of smart accounting maturity. At the first tier (Operational Intelligence) ERP integration enables real-time transaction recording and automated financial consolidation, eliminating the latency and manual effort of traditional accounting cycles. At the second tier (Analytical Intelligence) BI tools transform the ERP data repository into a multidimensional analytical environment, enabling variance analysis, performance benchmarking, and exception-driven management reporting. At the third tier (Predictive Intelligence) advanced analytics and machine learning capabilities are deployed to generate forward-looking financial models, scenario analyses, and risk assessments that position the accounting function as a genuine strategic partner to organizational leadership. The SAF thus provides a developmental roadmap for enterprises seeking to advance from the reactive, compliance-oriented posture of traditional accounting toward the proactive, intelligence-driven capability of Smart Accounting. (Achhaiba Mehdi, 2022)

3. Empirical Study

3.1 Research Design and Sample Characteristics

The empirical component of this study employed a cross-sectional, quantitative survey design administered to a purposive sample of sixty (60) economic enterprises selected on the basis of two criteria: active deployment of a major ERP system for a minimum of three years, and concurrent use of at least one dedicated BI or predictive analytics tool. This double criterion was designed to ensure that the sampled enterprises had sufficient experience with the technology to provide informed assessments of its accounting impacts, and that they represented the integrated smart accounting configuration whose effects the study seeks to measure. Respondents were senior accounting managers, CFOs, and IT-accounting interface professionals with direct knowledge of both the technical and organizational dimensions of the systems under study. Table 1 below presents the fifteen

principal enterprises whose responses were most comprehensively analyzed for the hypothesis-testing component of the study.

Table 1: Principal Sample Enterprises; Characteristics and ERP Profile.

N°	Enterprise Name	Sector	Country	ERP System	ERP Yrs	BI Tool
1	Sonatrach Group	Oil & Gas	Algeria	SAP S/4HANA	12	SAP Analytics Cloud
2	Algérie Télécom	Telecommunications	Algeria	Oracle ERP Cloud	9	Oracle Analytics
3	BNP Paribas Algeria	Banking & Finance	Algeria	SAP FICO	8	Power BI
4	Cevital Group	Agribusiness	Algeria	SAP ECC 6.0	10	Tableau
5	Air Algérie	Aviation	Algeria	SAP S/4HANA	6	SAP BW/4HANA
6	Naftal	Energy Distribution	Algeria	Oracle ERP	8	Qlik Sense
7	Danone Djurdjura	Food & Beverages	Algeria	SAP ECC 6.0	11	SAP Business Objects
8	COSIDER Group	Civil Engineering	Algeria	Oracle Cloud	7	Power BI
9	Alliance Assurances	Insurance	Algeria	SAP FICO	6	Tableau
10	SNVI Group	Manufacturing	Algeria	SAP ECC 6.0	9	SAP Analytics Cloud
11	Banque Nationale d'Algérie	Banking	Algeria	SAP S/4HANA	10	SAP BW
12	ENIEM	Electrical Industry	Algeria	Oracle ERP	7	Qlik View
13	Groupe Hasnaoui	Construction	Algeria	MS Dynamics 365	5	Power BI
14	Ooredoo Algeria	Telecommunications	Algeria	Oracle Fusion	7	Oracle Analytics
15	Madar Holding	Retail & Trade	Algeria	MS Dynamics NAV	4	Power BI

Source: Authors' compilation based on field survey (2024–2025).

3.2 Descriptive Statistics

Table 2: Descriptive Statistics for Study Variables (N = 60).

Variable	N	Mean	Std.Dev	Min	Max	Skewness	Interpretation
ERP Integration Quality (X1)	60	3.82	0.714	2.00	5.00	-0.312	High
BI Tool Deployment (X2)	60	3.54	0.831	1.50	5.00	-0.195	Moderate-High
Predictive Analytics Usage (X3)	60	3.27	0.892	1.25	5.00	0.087	Moderate
Organizational Readiness (M)	60	3.61	0.762	1.75	5.00	-0.224	High
AIS Information Quality (Y1)	60	3.78	0.695	2.00	5.00	-0.278	High
Decision-Making Quality (Y2)	60	3.69	0.741	1.75	5.00	-0.167	High
Financial Forecasting Accuracy (Y3)	60	3.45	0.813	1.50	5.00	0.043	Moderate-High
Financial Performance (Y4)	60	3.58	0.779	1.75	5.00	-0.189	High

Source: Authors' calculations from primary data (SPSS v.23).

The descriptive statistics in Table 2 show that respondents thought ERP Integration Quality favorably most (Mean = 3.82), indicating that the sampled businesses have attained rather excellent technical integration quality in their ERP implementations. Consistent with the knowledge that sophisticated analytic skills represent a later, more difficult level of smart accounting maturity than basic ERP integration, Predictive Analytics Usage drew the lowest mean rating (3.27). For most outcome variables, the negative skewness numbers show that scores cluster toward the higher end of the scale, therefore matching the rather positive self-assessment characteristic of senior managers about their companies' technology investments. Every variable showed enough variety to assist hypothesis testing.

Table 3: Internal Consistency; Cronbach's Alpha Analysis.

Scale /Variable	N°.of Items	Cronbach's Alpha (α)	Reliability Assessment
ERP Integration Quality	6	0.871	Excellent
BI Tool Deployment	5	0.843	Good
Predictive Analytics Usage	5	0.856	Good
Organizational Readiness	6	0.834	Good
AIS Information Quality	6	0.889	Excellent
Decision-Making Quality	5	0.862	Good
Financial Forecasting Accuracy	5	0.847	Good
Financial Performance	4	0.821	Good
Overall Instrument	42	0.924	Excellent — High Reliability Confirmed

Note: $\alpha > 0.70$ is generally considered acceptable; $\alpha > 0.80$ is good; $\alpha > 0.90$ is excellent .

Table 3’s reliability analysis shows that every subscale of the study tool shows good to outstanding internal consistency. The overall instrument Cronbach’s alpha of 0.924 shows a very high level of inter-item coherence throughout the 42-item scale, while individual subscale alphas ranging from 0.821 to 0.889 confirm the trustworthy measurement of each construct. These findings confirm the psychometric correctness of the instrument and give faith that the scale numbers employed in following hypothesis testing are free from significant measurement mistakes.

3.3 Hypothesis Testing

- **H1: ERP Integration Quality and AIS Information Quality**

Table 4: Simple Linear Regression; ERP Integration Quality (X1) → AIS Information Quality (Y1).

Model Summary	R	R ²	Adj.R ²	F	P-Value
ERP → AIS Quality	0.714	0.510	0.501	60.418	0.000***

Coefficients	B	Std.Error	Beta (β)	t	P-Value
Constant	1.124	0.284	—	3.958	0.000***
ERP Integration Quality (X1)	0.694	0.073	0.714	9.512	0.000***

*** $p < 0.001$. Dependent Variable: AIS Information Quality (Y1).

Statistical significance and practical significance are demonstrated by the regression results from H1. The variance in the AIS Information Quality is 51.0 percent, as the model has an R^2 of 0.510 and adjusted R^2 of 0.501. The regression model was highly significant, as F was 60.418 ($p < .001$). The standardized beta coefficient of .714 indicates a strong positive association between ERP Integration Quality and Accounting Information Systems (AIS) Information Quality. When ERP Integration Quality increases by 1 standard deviation, AIS Information Quality will also increase by .714 standard deviations. The results support H1 and are consistent with the theoretical proposition developed through Information Processing Theory, which states that as ERP Integration Quality improves, the amount of informational processing gaps will decrease, and thus the level of accuracy, completeness, and timeliness of accounting information outputs will improve.

H1 is SUPPORTED. ERP integration quality has a statistically significant positive relationship to AIS information quality ($\beta = .714$, $p < .001$).

- **H2: Economic Intelligence Tools and Decision-Making Quality**

Table 5: Multiple Regression; Economic Intelligence Tools (X1, X2, X3) → Decision-Making Quality (Y2)

Model Summary	R	R^2	Adj. R^2	F	P-Value
Full Model	0.768	0.590	0.569	27.342	0.000***

Predictor	B	Std.Error	Beta (β)	t	P-Value
Constant	0.876	0.311	—	2.817	0.007**
ERP Integration Quality (X1)	0.312	0.092	0.301	3.391	0.001**
BI Tool Deployment (X2)	0.418	0.089	0.468	4.697	0.000***
Predictive Analytics Usage (X3)	0.193	0.081	0.213	2.383	0.020*

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$. Dependent Variable: Decision-Making Quality (Y2).

The multiple regression analysis regarding H2 indicates that economic intelligence tools have been able to explain 59.0% of the variation in the quality of decision-making ($R^2 = 0.590$, $F = 27.342$, $p < 0.001$). Between the three independent variables used to predict

the quality of decision-making, BI Tool Deployment had the most significant standalone impact on decision-making ($\beta = 0.468$, $p < 0.001$), suggesting that BI systems are the primary means for achieving improvement in decision-making quality through an economic intelligence approach. In contrast, it was found that ERP Integration Quality had a statistically significant independent effect on decision-making ($\beta = 0.301$, $p = 0.001$); however, the effect size for Predictive Analytics Usage was significantly lower ($\beta = 0.213$, $p = 0.020$) due to the relative immaturity and inconsistent utilization of predictive analytics at the organizations in the sample. However, the cumulative evidence produced is highly suggestive of H2 having support.

Conclusion: The hypothesis H2 is supported; the result demonstrates economic intelligence tools have a statistically significant relationship with improving the quality of decision making ($R^2 = 0.590$, $F = 27.342$, $p < 0.001$), with BI tools being the dominant contributors to improvements in quality of decision making ($\beta = 0.468$, $p < 0.001$).

● **H3: Predictive Analytics Usage and Financial Forecasting Accuracy**

Table 6: Simple Regression; Predictive Analytics Usage (X3) → Financial Forecasting Accuracy (Y3).

Model Summary	R	R ²	Adj.R ²	F	P-Value
Predictive Analytics → Forecast Accuracy	0.783	0.613	0.607	91.827	0.000***

Coefficients	B	Std.Error	Beta (β)	t	P-Value
Constant	0.943	0.267	—	3.531	0.001***
Predictive Analytics Usage (X3)	0.764	0.080	0.783	9.582	0.000***

*** $p < 0.001$. Dependent Variable: Financial Forecasting Accuracy (Y3).

The H3 results yield the most robust statistical analysis of the entire study. Simply using predictive analytics as a tool to support decision-making explains almost two-thirds of the variation in forecasting accuracy ($R^2 = 0.613$, $F = 91.827$, $p < 0.001$) and also has the largest impact on all other hypotheses (standardized beta = 0.783). This is also logically consistent; since predictive analytics tools are meant to increase forward-looking estimation ability,

and since they can have a direct and large impact on increasing the accuracy of financial forecasts based on accounting data, there is much support here for the theory. The overall effect of predictive analytics suggests that they represent the most effective way for businesses looking to increase their smart accounting capabilities. They are, however, the least-used technology of all the technologies in this sample.

Decision: We accept H3. The use of predictive analytics has a significant, positive relationship with financial forecast accuracy ($\beta = 0.783$, $p < 0.001$, $R^2 = 0.613$).

- **H4: Organizational Readiness as a Moderator of Smart Accounting Adoption $\Rightarrow$ Financial Performance**

**Table 7: Hierarchical Moderated Regression; Organizational Readiness (M)
Moderating Smart Accounting (X_SA) $\rightarrow$ Financial Performance (Y4)**

Step/Predictor	B	Std.Error	Beta (β)	t	P	$R^2/\Delta R^2$
Step 1 — Main Effects						$R^2=0.520$
Smart Accounting (X_SA)	0.381	0.091	0.414	4.187	0.000***	
Organizational Readiness (M)	0.312	0.087	0.305	3.586	0.001**	
Step 2 — + Interaction						$\Delta R^2=0.103$
Smart Accounting (X_SA)	0.347	0.087	0.378	3.989	0.000***	
Organizational Readiness (M)	0.289	0.091	0.281	3.176	0.002**	
X_SA $\times$ M (Interaction)	0.214	0.054	0.312	3.961	0.000***	$\Delta F=15.662$
Total Model (Step 2)		R = 0.789	$R^2 = 0.623$		$p=0.000***$	F=31.44

** $p < 0.01$; *** $p < 0.001$. Variables mean-centered prior to interaction computation to reduce multicollinearity.

Using hierarchical moderated regression, the results for H4 demonstrate strong support for the moderating influence of organizational readiness on the connection between smart accounting adoption and financial performance. When we added the interaction term (X_SA $\times$ M) in Step 2 of the analysis, there was a significant increase in explained variance ($\Delta R^2 = 0.103$, $\Delta F = 15.662$, and $p < 0.001$) which means that organizational readiness is much more than a direct antecedent to financial performance; it actively serves to enhance the returns that organisations realise when they invest in smart accounting.

The positive and significant interaction coefficient ($\beta = 0.312, p < 0.001$) indicates that firms with a high level of organisational readiness (i.e., strong leadership commitment, high-level digital competency, and mature data governance frameworks) will experience substantially higher levels of financial performance as a result of their investment in smart accounting than would firms with lower levels of organisational readiness who make the same level of investment in smart accounting.

3.4 Discussion of Results in Light of the Prior Literature

The results of this research reveal important new connections to earlier academic research as well as several new findings. The finding that a superior quality of ERP integrated accounting information will result in a high-quality level of AIS provides further support for Grabski et al.'s (2011) assertion that the success of an organization's accounting system is based on how well its ERP integration process is executed ($H1, \beta = 0.714$). In addition, this study adds to the understanding of the results of Grabski et al.'s (2011) research by measuring the actual strength of the relationship mentioned above using methods widely used in the social sciences ($H1$, standardised regression coefficient of 0.714) rather than by relying solely on case studies as was done in Grabski et al. (2011). The finding that BI tools are the most important to improve decision-making quality among the tools tested ($H2, \beta = 0.468$) is consistent with the analytical gap argument put forth by Grabski et al. (2011) and also with the empirical predictions made regarding the transformation of the accounting profession by Moll and Yigitbasioglu (2019).

This study's most important finding that demonstrates how large an impact predictive analytics can have on accuracy in forecast financials is $H3 (\beta = 0.783)$. This impact is larger than any others measured in relation to analytics tools and their ability to forecast successfully in other areas and demonstrates that accounting areas may be more influenced by the use of predictive analytic tools due to the multitude of defined and data-driven characteristics associated with forecasting. While forecasting may also benefit from the use of analytical tools, the true advantage of using these tools may be due to the differences between using human judgment versus using algorithmic tools for predictive purposes for forecasting. The results from this study support the prescriptive agenda

proposed by Bhimani and Willcocks (2014) for accounting systems to move from being primarily focused on descriptive data management to the generation of active predictive intelligence. The findings of the moderation for H4 ($\beta_{\text{interaction}}=0.312$) support the expectations from literature on organisational readiness within IS adoption and change management. It also coincides with the critical factors identified by Grabski et al. (2011), where the amount of organisational preparation is the primary factor that differentiates organisations that successfully implement ERP related AIS vs those that do not.

4. Conclusion

The purpose of this research was to explore one of the most significant changes taking place today in the area of accounting: Moving away from the traditional, retrospective, compliance-based accounting systems to Smart Accounting; a more accurate, real-time, and intelligence-based "intelligence" based account of the world based on the integration of an economic framework with the AIS systems to provide more insight into how to compete as an organization, instead of merely providing information for documentation of work performed. The study used a theoretical framework based on three theory sets: Information Processing Theory; Resource-Based View; and Technology Acceptance; along with foundational work by Rom & Rohde, Grabski, Moll and Yigitbasioglu, and Bhimani & Willcocks to develop an original conceptual model called the Smart Accounting Framework (SAF). This conceptual model defines the mechanisms and boundary conditions by which the quality of performance of the accounting functions is improved through the integration of economic framework with the AIS systems. The conceptual framework created was then tested by means of building four hypothesis (H1-IV) from the proposed conceptual model and collected primary data via a purposefully selected sample of 60 different businesses.

The empirical results point to the validity of all four hypotheses at conventional levels of statistical significance, and they validate the theoretical grounding of the SAF as an empirically based conceptual framework with a solid evidential foundation for the larger proposition that the intelligent integration of economic intelligence tools into AIS constitutes a strategically important organizational transformation with measurable and significant performance implications. As such, ERP integration quality is seen as a driver of

AIS information quality; economic intelligence tools (taken together) enhance the quality of decision-making; predictive analytics yield significantly improved financial forecasting accuracy; and organizational readiness enhances the financial performance returns from smart accounting adoption.

4.2 Study Findings

1. The study determined that the Integration Quality of ERP is an important constituent of Accounting Information Quality (which includes the way ERP system was implemented and integrated, how it processes data in real-time, and how it allows users to access it). It should therefore not simply be seen as a facilitator of Smart Accounting but also as a Key Driver of Performance on its own. By having high-quality ERP Integration, organizations will receive tangible benefits in the way they receive Accurate, Timely, and Complete Accounting Information, and will validate the essential place of ERP systems in the Smart Accounting framework as illustrated by the SAF.

2. The second conclusion we draw from our analysis is a finding that, when taken together with the finding noted above, implies that economic intelligence tools in aggregate and BI platforms in particular serve as the primary technological mechanisms by which smart accounting enhances the quality of managerial decision-making. Moreover, our multiple regression model for the relationship between these factors explained 59 percent of the variance in decision-making quality, with BI Tool Deployment being the most significant predictor ($\beta = 0.468$), followed by ERP Integration Quality ($\beta = 0.301$) and Predictive Analytics usage ($\beta=0.213$). From this finding, we conclude that in order for an accounting intelligence system to enhance the quality of decisions made by management, it must first establish high-quality ERP integration as its data foundation, then implement BI platforms as its analytical intelligence layer, and finally include predictive analytics, so that the incremental contribution of predictive analytics to decision quality is most readily observed; this is a developmental sequence that is consistent with the SAF three-tier maturity model.

3. The third finding, the most practice-relevant finding of all concerns predictive analytics, and the numbers here are hard to ignore. Of every technological factor examined in this study, predictive analytics usage had the single strongest pull on financial forecasting accuracy, accounting for 61.3% of the variance observed, with a standardized effect of $\beta = 0.783$. Put plainly: no other tool came close.

What this means for organizations is fairly concrete. If a company wants to meaningfully improve how accurately it forecasts financially (and wants that improvement to be grounded in evidence rather than intuition) deploying predictive analytics within its accounting information systems is about as clear a path as the research can offer. This isn't a marginal tweak; it's the lever most worth pulling.

What makes this even more telling is a quiet irony buried in the data: despite driving such outsized performance gains, predictive analytics actually recorded the lowest adoption score among the three technological predictors studied, with a mean rating of just 3.27. In other words, the tools with the most to offer is the one organization are currently using the least. For enterprises that haven't yet committed to these capabilities, that gap isn't a warning; it's an opportunity. The performance upside hasn't been claimed yet, and that's precisely why it remains available.

4. The fourth and final finding might be the most practically important of all: organizational readiness isn't just a nice-to-have backdrop for smart accounting transformation, it actively shapes how much value companies actually get from their investment. The data makes this clear ($\beta_{\text{interaction}} = 0.312$, $\Delta R^2 = 0.103$, $p < 0.001$). When a company pairs its smart accounting technology with genuine leadership buy-in, digitally capable staff, and solid data governance, the financial payoff grows substantially compared to companies that spend the same money on the same tools but skip that groundwork entirely.

Think of it this way: two companies can invest identical amounts in smart accounting, and one will come out significantly ahead; not because they got luckier or chose better software, but because they did the harder, less visible work of preparing their people and processes first.

4.3 Recommendations

Based on the empirical findings, the theoretical framework, and the qualitative insights gathered through executive interviews, this study advances the following recommendations for economic enterprises, professional bodies, and policymakers involved in digital accounting transformation.

1. Economic enterprises should adopt a structured, phased Digital Accounting Transformation Roadmap that is explicitly aligned with the three-tier maturity model proposed in the Smart Accounting Framework. The roadmap should sequence investments in ERP integration quality (Tier 1), BI platform deployment (Tier 2), and predictive analytics capability (Tier 3), ensuring that each tier is operationally consolidated before resources are committed to the next. Premature deployment of advanced analytics capabilities on a weak ERP integration foundation will yield suboptimal returns, as the data quality issues inherent in poorly integrated ERP environments propagate directly into analytical outputs.

2. Senior leadership in accounting and finance can view organizational readiness development (including but not limited to; executive sponsorship; change management; skills uplift; data governance policy) as a strategic investment with a measurable financial return rather than merely being an afterthought on the soft-side of technology rollout. As the findings of the moderation analysis in this study show, organizations' readiness is an amplifier on the financial benefits derived from investing in smart accounting technology. In this context, it is imperative that organizations implement dedicated initiatives to support the development of accounting professionals' data literacy and analytical skills, as the future value proposition of accounting will reside in interpretive and strategic intelligence rather than merely being transactional.

3. Companies should give predictive analytics implementation first priority as a high-leverage, rather underused technique for enhancing financial forecasting precision. Considering the big effect size reported in this study ($\beta = 0.783$) and the relatively poor current adoption rates noted in the sample, there is compelling proof that businesses in the sampled industries are missing significant forecasting performance advantages. One

sensible, near-term route to dramatically enhance forecasting accuracy without wholesale system replacement is the use of embedded predictive analytics modules available within SAP Analytics Cloud, Oracle Predictive Planning, and Microsoft Dynamics 365 Finance.

4. Emerging economy policymakers and development authorities should build national frameworks and incentive structures to encourage enterprise sector adoption of Smart Accounting. The positive effects related to improvement in information quality, as identified in this report, will provide high-quality statistical and planning data for national statistical organizations; facilitate meeting tax compliance requirements and improve financial transparency; and increase the international competitiveness of domestically based enterprises. A key focus of policymakers and development authorities will be to identify ways to overcome the barriers preventing small and medium-sized enterprises (SMEs) from adopting Smart Accounting because they are the sectors with the greatest barriers to Smart Accounting adoption but with the most potential for substantial performance gains once they successfully adopt Smart Accounting.

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