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## Abstract

Today, the challenge of e-governance in relation to tax services remains a serious issue in sub-Saharan Africa. Although implementation projects continue to emerge, it is important to assess whether the digitization of tax procedures is really delivering the expected benefits. This study aims to examine the influence of the use of digitized tax procedures (UDT) on business process performance (BPM), highlighting the role of dynamic capabilities (DC). We analyze a sample of 143 Cameroonian SMEs using the higher order PLS-SEM methodology. The results show that the DC exhibited by SMEs positively influence UDT procedures, as well as the BPM associated with this digitization. Also, UDT has a positive impact on BPM, and significantly mediates the indirect relationship between this performance and SMEs' DC. By recognizing the value of e-governance in the delivery of digitized tax services, we motivate a more effective implementation of this service by governments in these countries.

*Keywords : E-governance, tax service, performance, dynamic capabilities.*

## Introduction

The dematerialization of government services is a process made possible by the emergence of information and communication technologies (ICT) (Oliveira et al., 2020). The phenomenon has spread around the globe at varying rates. In its report on e-governance, the UN (2020) reports that 143 of the 162 countries surveyed have an online income tax filing system, while 130 of the 162 have a VAT filing system. Many countries offer far more than these two services to date, which is ample evidence of the desire to popularize digitized tax services. This is undoubtedly due to their recognized benefits. Although e-governance is well established in several Northern countries, the trend is different in the South. In sub-Saharan Africa, the phenomenon is still in its infancy and focuses on very specific aspects of public service management, such as the dematerialization of tax administration services (Akpan-Obong et al., 2023). Tax services are an essential part of government service delivery, as all citizens engaged in revenue-generating activities are potentially subject to them. In this context, and after several years of gradual implementation of the dematerialization of tax procedures in sub-Saharan Africa, we need to assess its impact. Few studies of this kind have been carried out in the context of sub-Saharan Africa in general and Cameroon in particular. On the other hand, existing studies have focused on the impact of such e-governance services on the tax administration itself and its agents (Alibraheem & Abdul Jabbar, 2016; Masunga et al., 2020; Otekunrin et al., 2021). To fill this gap, we focus on taxpayers, especially small and medium enterprises, which are the main taxpayers. The objective of this study is to assess the impact of the digitization of tax procedures on the performance of business processes. In terms of digitization, we study the influence of dynamic capabilities on digitized tax procedures, as they relate to both the technological and operational aspects of tax management in a commercial context. We examine performance from the point of view of the Balanced Scorecard redefined by Dumas et al. (2013). To this end, this study answers the following research question: Do dynamic capabilities and the use of digitized tax procedures positively influence the business process performance of Cameroonian firms? In doing so,

we bring together the theory of dynamic capabilities (Teece et al., 1997) and measures of business process performance by Dumas et al. (2013).

This study highlights the efficiency gains resulting from the digitization of tax procedures in Africa, and more specifically in Cameroon. We also show that this digitization promotes greater operational efficiency. The results of the study could inspire a culture of continuous innovation within SMEs. Managers could be encouraged to explore other areas where technology can be used to improve business process performance. In addition, governments could be more committed to investing in e-governance technologies.

The paper is organized as follows. Section 2 is dedicated to the literature review. We outline the concept of e-governance and relate it to digitized tax procedures. Section 3 presents the research model and hypothesis development. Section 4 describes the methodology used, followed by the presentation of the results in section 5. Section 6 discusses the results obtained. Section 7 presents the research contributions.

## Literature review: E-Governance and digitized tax procedures

Electronic governance (e-governance) is the application of ICT to deliver government services to citizens, organizations and government (Iyer & Rao, 2017). This concept also refers to the use of ICT in government work processes (Bannister & Connolly, 2012). More precisely, e-government can be defined as the use of ICT to offer citizens and businesses the opportunity to interact, conduct and maintain business relations with the government using different electronic media such as smartphones, fax, smart cards, self-service kiosks, e-mail, internet and electronic data interchange (EDI) (Almarabeh & AbuAli, 2010). Nkohkwo and Islam (2013) succinctly point out that e-governance involves the automation or computerization of existing paper-based procedures, which will lead to new styles of leadership, new ways of debating and deciding strategies, new ways of doing business, new ways of listening to citizens and communities, and new ways of organizing and delivering information. Hiller and Bélanger (2001) identified six types of e-government: (1) Government services for individuals (G2IS), (2) Government communications with individuals as part of the political process (G2IP), (3) Government communications with businesses as citizens (G2BC), (4) Government communications with businesses in the marketplace (G2BMKT), (5) Government communications with employees (G2E), and (6) Government communications with other government entities (G2G).

To improve e-governance resources, governments in sub-Saharan Africa have implemented digital literacy training programs, although gaps remain between goals and achievements (Inakefe et al., 2023). However, the digitization of tax services is gaining momentum, and better interaction with government revenue agencies is visible (Kyem, 2016). In Uganda, for example, the digitization of tax services has enabled the government to reap huge benefits, allow multinational companies to file their tax returns from their home country, efficiently monitor taxpayer files, and reduce the cost, time, manpower, and corruption associated with manual tax administration (Waiswa & Okello-Obura, 2014).Similar developments are taking place in Nigeria (Ojo, 2014), Ghana (Asamoah, 2019), and elsewhere in Africa (Froehlich et al., 2020).

Looking at the impact of the introduction of electronic tax systems on tax authorities in the literature, we can see that tax authorities have made improvements in terms of the effectiveness and efficiency (Kroukamp, 2005; Kumar & Best, 2006) of their staff, the amount of tax revenue collected (Heeks, 2001), the quality of information collected and the speed with which it is processed (Kroukamp, 2005), the traceability, transparency, and accessibility of transaction information (Bhatnagar, 2003), the cost reduction (Kumar & Best, 2006) and the ability to promote tax compliance among taxpayers (Bhuiyan, 2011). All these elements are performance aspects for the tax authorities, and we can therefore conclude that the introduction of digital tax procedures has led to an improvement in the performance of the tax authorities. This effect can also be attributed to companies, so that the benefits expected from the digitization of tax procedures, from the point of view of SMEs, can be brought together under the banner of the notion of performance.

## Research model and hypotheses development

The evolving environment studied here is the Cameroonian tax environment, where procedures are being digitized and a series of digital services offered by the tax authorities are gradually emerging. The aim of this study is therefore to understand how Cameroonian firms, faced with these changes, integrate, build and reconfigure the capabilities they acquire externally or possess internally in order to adapt to the new procedures and possibly benefit from performance gains. To assess Cameroonian SMEs from this perspective, we use the dynamic capabilities

theory proposed by Teece et al. (1997). In this way, we assess the ability of SMEs to monitor the Cameroonian tax environment in such a way as to detect or even anticipate changes and developments; the ability of firms to develop and implement new routines and procedures in such a way as to adapt to tax innovations.

Kaplan and Norton (2001) with their Balanced Scorecard (BSC) concept, break down the overall notion of performance into several subsets, each linked to an aspect of the life and operations of an organization. These are the financial dimension, the customer dimension, the internal business process dimension, and the learning and growth dimension. Some of these aspects are inextricably linked to the concept that will have attracted our attention in the context of our study, namely the internal business process dimension, because digitized tax procedures imply a change in business processes relating to taxation, which were once manual. Dumas et al. (2013) refine the internal business process dimension of the BSC by making it more practical. They break it down into performance in terms of cost, time, quality and flexibility. In fact, Dumas et al. (2013) argue that the way work is done in an organization guarantees results that create opportunities for improvement. These improvements can include cost reduction, shorter lead times and lower error rates, as well as gaining competitive advantage through innovation. Processes determine an organization's ability to adapt to new circumstances and comply with an increasing number of regulatory requirements (Van Looy & Shafagatova, 2016).

The objective of the construct "use of digitized tax procedures" is to assess the effective use of digitized tax procedures by Cameroonian businesses. More specifically, the digitized tax services actually used by businesses.

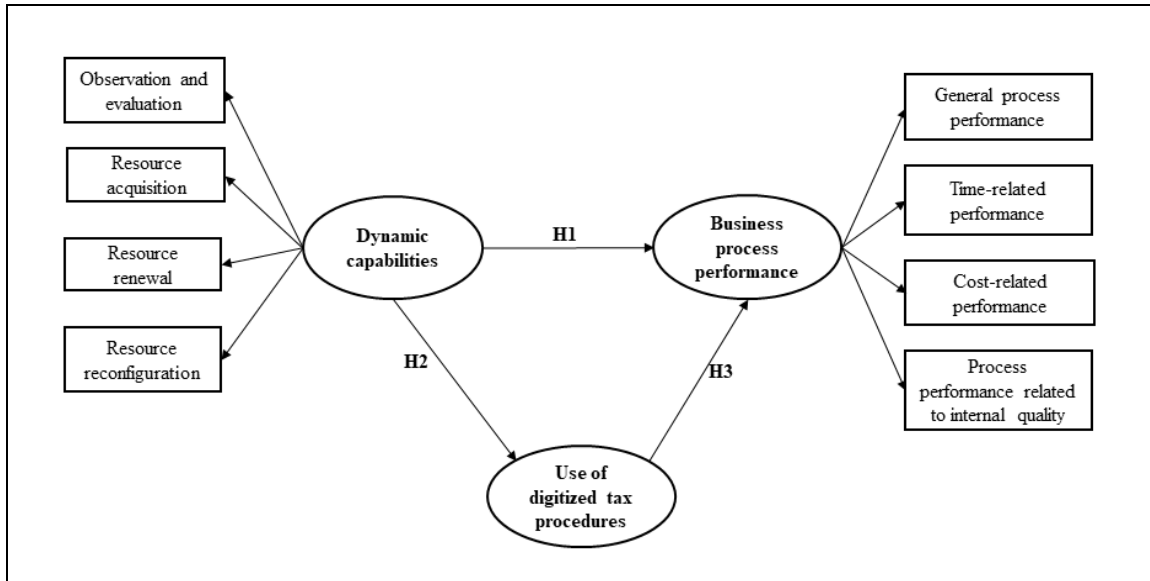The research model is presented in Figure 1 below.



**Figure 1. Research model**

*Dynamic capabilities, business process performance*

Dynamic capabilities are aligned with the organization's dynamic vision, based on the evolution of resources and skills (Wang & Ahmed, 2007). Thus, a company that is fully capable of integrating, building and reconfiguring its internal and external competencies to cope with a rapidly changing environment is likely to have a better competitive edge. In this sense, dynamic capabilities in the context of digitized tax procedures, refer to the ability to develop skills in response to changes in manual methods, to the ability to acquire and develop resources to respond to the digitization process. (Teece et al., 1997) proposes a 4-step process that has been widely adopted in the literature. The first stage consists in observing and assessing the environment with a view to identifying market opportunities or technological innovations to be seized. Once an opportunity has been identified, the second step is to implement the appropriate means to seize it, through a process of resource acquisition. This is followed by the renewal of resources and, finally, the reconfiguration of internal resources. Dynamic capabilities, which apply to managerial issues and disruptive market innovations, are therefore a source of performance for companies that manage them strategically. Dynamic capabilities and performance appear as two intrinsically linked and even

inseparable notions, insofar as the former serves to explain the sources of the latter. We therefore put forward the following hypotheses:

H1: Dynamic capabilities have a positive and significant influence on business process performance.

### *Dynamic capabilities and use of digited tax procedures*

The relationship between dynamic capabilities and information systems is an integral part of a company's core digital strategy (Yeow et al., 2018). The use of digitized tax procedures therefore implies that digitalization is effectively integrated into these processes, i.e., that it enables tax-related information to be collected, summarized and forwarded to the tax authorities for processing. The dynamic capability of companies to mobilize and deploy the information, knowledge and skills they need to keep pace with changes in the tax environment, and to make effective use of the tax authorities' electronic services, is therefore of paramount importance. We put forward the following hypothesis.

H2: Dynamic capabilities have a positive and significant influence on the use of digitized tax procedures.

### *Used of digitized tax procedures and business process performance*

Delone and McLean (2016) presents the "use" as the degree of integration of information systems into the business processes of the user and the work routine of each individual. This construct measures the use of tax e-services, developed thanks to ICT and implemented by tax authorities. In this sense, the permanent use of digitalized tax procedures implies a change in the company's processes, working methods and organization (Diller et al., 2020), in other words, a restructuring of internal processes that can lead to the achievement of the objectives set by the company in terms of time, cost and quality optimization (Dumas et al., 2013). Therefore, we propose the following hypothesis:

H3: The use of digitized tax procedures has a positive and significant impact on the performance of business processes.

## Methodology

### *The context*

The technology boom in sub-Saharan Africa has lagged behind other continents, possibly due to the region's economic, technological and infrastructural backwardness. Nevertheless, African nations are determined to catch up and have made strides in improving Internet access, cell phone usage, and digital transformation. This provides economic agents with opportunities to create new markets and extend existing ones. Singh and Sahu trace the first attempts at e-governance projects back to the 1970s. Developed countries quickly grasped the importance of these changes and embraced them, benefiting today from the positive spin-offs of digitized procedures. Sub-Saharan African nations were slow to embrace the digitization of public services, with tax digitization projects not gaining traction until the 2010s. Nonetheless, sub-Saharan African countries have been implementing measures to digitalize their tax administration processes over recent years, and Cameroon is no exception to this trend.

The digitization of tax procedures in Cameroon was executed through the launch of the "Fiscalis" platform in 2014 by the Directorate General of Taxation under the supervision of the Ministry of Finance. This platform offers several tax services, such as remote declaration, remote payment of taxes due, and retrieval of supporting documents issued by the DGT, including tax notices and tax clearance certificates (DGI, 2023). The need for change in the tax administration of Cameroon stems from the necessity to revitalize public services in this area, given that the tax environment is a crucial aspect of the country's business climate. Cameroon is currently ranked 181st out of 190 countries on the "payment of taxes" indicator, according to the Doing Business ranking of 2020. This ranking justifies the need to implement policies aimed at restructuring Cameroon's tax environment by means of dematerializing tax procedures. After several years of operation of online tax activity platforms in Cameroon, it is timely to evaluate their impact on the performance of Small and Medium Enterprises (SMEs).

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### *Research design and data collection*

#### Questionnaire design

We selected Cameroonian SMEs that benefit from digitized tax services as our target population, as our study focuses on the impact of the use of digitized tax procedures on the business process performance of Cameroonian companies. Within Cameroon's entrepreneurial ecosystem, these companies are the most significant taxpayers. Moreover, e-governance in Cameroon is undergoing significant transformations. Several e-governance projects, whether focused on modernizing tax and customs services or facilitating the payment of government department services through electronic payments, are in development.

To conduct this quantitative study, we developed a questionnaire. It was designed based on a literature review that centered on theories and concepts related to the research. The questionnaire has three parts, each measuring a variable of the model we are assessing. The first part discusses the dynamic capabilities of the company. It consists of 21 measurement items distributed amongst four sub-constructs (Teece, 2007). The second part assesses the use of digitized tax procedures using seven items (Goodhue & Thompson, 1995). The third section addresses business process performance, which is evaluated through 18 items categorized into four sub-constructs (Van Looy & Shafagatova, 2016). 7-point Likert scale that ranges from 'completely disagree' to 'completely agree' as a measurement of each item (Boone & Boone, 2012).

#### Pre-test phase

It is important to carry out a pre-test to verify the comprehensibility of the first draft of the questionnaire (Taherdoost, 2019). We aim to determine whether the items that measure the constructs are easily understood by the respondents. To achieve this, we gathered a sample of ten individuals comprising five master's students, two civil administrators, and three contractors. At the end of their evaluations, they confirmed that the questionnaire was comprehensible and unambiguous.

#### Minimum sample size determination

Afterwards, we determine the minimum sample size through the GPower 3.1.9.2 software, which has the particularity of calculating the statistical power for various statistical tests (Schoemann et al., 2017). By inserting parameters such as effect size, probability error, the power of the effect, and the number of predictors or latent explanatory variables, we obtained the sample size necessary to test the model effectively. For this, with a total of five (05) predictors (lower constructs), a probability of error $\alpha = 0.05$, an effect power $(1 - \beta) = 0.80$, and an effect size of $f2 = 0.15$, the minimum total sample size for this study is ninety-two (92) individuals.

#### Pilot test

To ensure the reliability and construct validity of the study, we conducted a pilot test after obtaining a sample of 45 responses. The benefit of pilot testing is that it helps us rectify the questionnaire by removing measurement items that are statistically unreliable or rephrasing them, if possible, to make them more understandable (Hair Jr et al., 2014). After analyzing the sample data, no changes were made as the results indicated that both the measurement items and the model are statistically reliable and valid. So, we continued our data collection.

#### Data collection phase

We designed the questionnaire on Word and printed several copies. We conducted an on-site visit directly to the SMEs office. We made sure to clarify the purpose of the study, explain the anonymity of the questionnaire and assure the respondents that the data would be used solely for academic research purposes. We administered the questionnaire to individuals responsible for tax compliance within the company after their agreement to participate

in the study. Each SME completed one questionnaire. We received a total of 143 responses that represented 143 different SMEs. Data was collected between November 2021 and April 2022.

<u>Common method bias</u>

To detect the possible effect of common method bias (CMB), we performed the full collinearity test (Kock, 2015). This test suggests that the presence of a variance inflation factor (VIF) greater than 3.3 indicates pathological collinearity and also contamination of the model by CMB. After we conducted the full collinearity test, the results showed that all the VIF values were lower than 3.3, thus confirming the absence of CMB and the reliability of the data collection.

## *Data analysis*

The data for this study were analyzed using partial least squares structural equation modeling (PLS-SEM) using SmartPLS 4 software (Ringle et al., 2022). This method has the advantage of evaluating complex models with small sample sizes (Hair et al., 2019). It is particularly well known in research in marketing, management, entrepreneurship, information systems, etc. We chose a higher-order construct model (Sarstedt et al., 2019) to reduce the number of relationships in the model and to evaluate the most important concepts of this research. Thus, dynamic capabilities and business process performance are higher-order constructs, each explained by four lower-order constructs. We used the disjoint two-stage approach (Sarstedt et al., 2019). In the first stage, we evaluated the reflective measurement model of the lower-order constructs, and in the second stage, we used the latent variable scores of the lower-order constructs to create and estimate the higher-order constructs. We then evaluated the measurement model and the structural model of the research model.

# Results

## *Measurement model assessment*

The purpose of this assessment is to check the model's constructs for their reliability and validity. To measure internal consistency, we look at the outer loading, rho_A, and composite reliability (CR), which must be 0.7 or greater. To evaluate convergent validity, we check the average variance extracted (AVE), which should be 0.5 or greater (Hair et al., 2019). In the first stage, we checked these criteria for the lower-order components. Items with outer loading values below 0.7 and/or VIF values above 3 were removed to improve the reliability and avoid multicollinearity issues. Since the lower-order component model fulfilled all criteria, we utilized their latent variable scores to test the model displayed in Figure 1 during the second stage. The assessment of the reflective measurement model of the higher-order constructs adhered to the same standards. Table 1 shows that the model is reliable and valid since all criteria met the required values.

| Higher-order constructs | Lower-order constructs | Outer loadings | Cronbach's alpha | Rho_A | Composite reliability (CR) | Average variance extracted (AVE) |
|---|---|---|---|---|---|---|
| Dynamic Capabilities | Observation and evaluation | 0.814 | 0.899 | 0.901 | 0.930 | 0.769 |
| | Resources acquisition | 0.903 | | | | |
| | Resources renewal | 0.918 | | | | |
| | Resources reconfiguration | 0.869 | | | | |
| Business process performance | General process performance | 0.745 | 0.865 | 0.866 | 0.909 | 0.714 |
| | Timed related process performance | 0.878 | | | | |
| | Cost related process performance | 0.866 | | | | |
| | Process performance related to internal quality | 0.884 | | | | |
| | Use of digitized tax procedures-UDT1 | 0.859 | 0.872 | 0.877 | 0.921 | 0.796 |
| | Use of digitized tax procedures-UDT3 | 0.908 | | | | |
| | Use of digitized tax procedures-UDT4 | 0.909 | | | | |

**Table 1. Construct's reliability and validity**

Discriminant validity was assessed by the Fornell-Lacker criterion (Fornell & Larcker, 1981), which suggests that the square root of the AVEs, along with the diagonal, must be greater than all the values below and left. Table 2 shows that discriminant validity is not a problem in the research model.

| Constructs | (1) | (2) | (3) |
|---|---|---|---|
| Business process performance (1) | 0.845 | | |
| Dynamic capabilities (2) | 0.827 | 0.877 | |
| Use of digitized tax procedures (3) | 0.644 | 0.511 | 0.892 |

**Table 2. Discriminant validity-Fornell-Larcker criterion**

*Structural model assessment*

With the satisfactory measurement model in place, the subsequent step is to assess the structural model. In this regard, we first examine collinearity to ensure that the results are not biased. We evaluated the Variance Inflation Factor (VIF) values, which indicate probable collinearity issues when they exceed 5 and possible collinearity issues when they range from 3-5. Ideally, the VIF values should be closer to 3 or lower (Hair et al., 2019). The results indicate that there is no issue with collinearity in the research model, as the internal VIF values for measurement items in the lower-order constructs are below 3.

Next, we examined the model's explanatory power using $R^2$. $R^2$ values of 0.75, 0.50, and 0.25 are considered substantial, moderate, and weak, respectively (Hair et al., 2019). Results indicate that 78.6% ($R^2$=0.786) of the business process performance construct is explained by dynamic capabilities and digitized tax procedures use. Additionally, the use of digitized tax procedures construct was explained by dynamic capabilities at 26.2% ($R^2$=0.262).

Finally, the bootstrapping method was used to determine the significance and statistical relevance of the path coefficients. The results (Table 3) confirm all hypotheses, demonstrating that dynamic capabilities have a positive and significant influence on business process performance (H1; $\beta$=0.675, $p<0.001$) and the use of digitized tax procedures (H2; $\beta$=0.511, $p<0.001$). The use of digitized tax procedures has a positive and significant influence on business process performance (H3; $\beta$=0.299, $p<0.001$).

| | Hypotheses | Original sample ($\beta$) | Standard deviation (STDEV) | T statistics ($|\beta/STDEV|$) | P values | Sign. Level | Conclusion |
|---|---|---|---|---|---|---|---|
| H1 | Dynamic capabilities -> Business process performance | 0.675 | 0.065 | 10.428 | 0.000 | **** | Accepted |
| H2 | Dynamic capabilities -> Use of digitized tax procedures | 0.511 | 0.080 | 6.393 | 0.000 | **** | Accepted |
| H3 | Use of digitized tax procedures -> Business process performance | 0.299 | 0.070 | 4.279 | 0.000 | **** | Accepted |

****$p < 0.001$; ***$p < 0.01$; **$p < 0.05$; *$p < 0.1$; n.s. not significant

**Table 3. Hypotheses testing**

The results also show that the use of digitized tax procedures completely mediates the relationship between dynamic capabilities and business process performance. In other words, the dynamic capabilities of SMEs have an indirect influence on the performance of business processes when these SMEs make use of electronic tax services.

| Mediation relation | Original sample ($\beta$) | Standard deviation (STDEV) | T statistics ($|\beta/STDEV|$) | P values | Sign. level | Conclusion |
|---|---|---|---|---|---|---|
| Dynamic capabilities -> Use of digitized tax procedures -> Business process performance | 0.153 | 0.039 | 3.881 | 0.000 | **** | Full mediation |

**Table 4. Mediation relationship**

## Discussions and implications

The results presented above validate the hypotheses we have previously proposed based on the literature. Overall, we find that dynamic capabilities influence both the use of digitized tax procedures and business process performance. Similarly, we find that the use of digitized tax procedures has a positive influence on business process performance. In fact, there is a relationship between the ability of Cameroonian firms to scan the tax environment in Cameroon, organize a monitoring and anticipate its changes in order to better adapt to them, and the frequency with which they use digitized tax services. Furthermore, the ability of Cameroonian SMEs to transform their routines, adapt their skills, update their resources and adapt their resources enables them to achieve performance gains. On the other hand, the results confirm that the introduction of digitized tax procedures has enabled companies to achieve performance gains thanks to the levers of time, internal quality and, finally, costs.

It's now clear that the use of digitized tax procedures enables companies to achieve performance gains and improve their business processes (Kretschmer & Khashabi, 2020). With this in mind, companies can take a more far-sighted view of the possibility of migrating completely to digitalized management of their interactions with the tax authorities, since in practice, manual tax declarations have not yet completely disappeared. The use of digitized tax procedures therefore represents a niche that should be seized by setting up appropriate managerial mechanisms. In practice, this would mean extending the use of digitized tax procedures to all the interactions with the tax authorities that compliance with tax obligations requires (Uyar et al., 2021). The use of digitized tax procedures in Cameroon is still concentrated on certain services, such as electronic tax filing, or on specific taxes such as VAT or the flat-rate minimum tax. The other services, taxes and fees on offer have yet to be incorporated. Managers should therefore be more enthusiastic about exploiting them.

On the other hand, improving the digitization of tax procedures within African companies requires consideration of several factors for policymakers, tax authorities, and SME managers. These include investing in the digital solutions needed to digitize the company's accounting processes, coupled with the training of dedicated staff. Successful digitization often depends on the skills of the staff. Training staff on tax software and supporting change management within the organization are critical. It is also necessary to ensure compliance with local regulations and to provide monitoring and reporting capabilities. This includes data security and protection of tax information. Collaboration with tax authorities can also facilitate the transition to greater digitization, help achieve e-governance goals (Cisi & Sansalvadore, 2022), and detect tax evasion and fraud more efficiently, allowing policymakers to allocate resources effectively for enforcement efforts. Understanding regulatory requirements and working with government agencies can help ensure compliance and anticipate changes in tax legislation. We also recommend that the government invest more in mobile technology. Many SMEs are located in areas with poor internet access (Frazier et al., 2013). Tax return solutions can be made available to a wider range of people, including very small businesses and independent entrepreneurs in remote geographical areas.

## Research contributions

Our study contributes to the literature on the use of digitized tax procedures and business process performance in the Cameroonian context. First, we fill the gap in the literature on the digitization of tax procedures in sub-Saharan Africa by focusing on the taxpayer (user) perspective rather than the tax administration. Using Cameroon as a case study, we show that although the implementation of e-governance solutions for tax management is recent in Africa, they can optimize the internal business processes of SMEs. Second, this study shows that dynamic capabilities are strategically essential when SMEs implement or want to implement an e-governance solution. We theoretically confirm the role of dynamic capabilities in achieving business performance. Finally, this study can encourage managers to make informed decisions, optimize tax and accounting operations, manage resources, minimize risks, and position the company for continued growth in an ever-changing digital environment. We motivate more research about cybersecurity, compliance, impact assessment on economic outcomes, and data analytics related to digitized tax procedures.

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