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Institutional Pressure and Real Estate Balanced Scorecard Indicators Fana Rasolofo-Distler

Abstract:

Purpose: This article discusses the impact of institutional pressures on the selection of the performance indicators in 83 Balanced Scorecards (BSC) used in French real estate companies. I studied the way in which two factors that are representative of institutional pressures in the real estate sector - namely, "ecology" and "digital innovation" - were incorporated into the BSC causal chains. Design/methodology/approach: My methodology is that of action research. In order to analyze the balance of indicators between short and long term, I classified the companies according to their strategic acuity, i.e., their ability to balance an organizational vision (near vision) and an environmental one (distance vision) when choosing their performance indicators. This resulted in a company classification with three categories: emmetropic, hypermetropic, and slightly myopic. Findings: The research enabled to observe that the selected ecological indicators in BSCs derive mainly from coercive institutional pressure. Hence, in companies with fewer legal requirements in ecological matters, the selected ecological indicators are included in the BSC causal chain in that they are used as a commercial argument with a view to improving financial performance. These results are similar to the reactionary and reputational perspectives of the sustainability business case. With regard to the incorporation of digital innovation indicators into BSCs, I found that the companies that have the most digital innovation indicators are those that mobilize the most ecological indicators. Digital innovation indicators are part of the companies' internal process perspective and are linked to organizational learning indicators. These results are similar to the responsible and collaborative perspectives of the sustainability business case. I also found that the

companies incorporate digital indicators into their BSCs by institutional mimicry insofar as the selected indicators are not always consistent with a strategic rationale but are chosen by copying what is done in other companies. Originality/Value: My reflection is in line with the literature of recent years that reconciles sustainable development and innovation. I study how "ecology" and "digital innovation" are incorporated into the BSC causal chains. To my knowledge, this is the first time this type of study has been conducted in the literature.

Keywords: BSC, performance indicators, ecology, digital innovation, real estate

This article aims to provide an analysis of the impact of institutional pressure on the global performance indicators used in the management system of companies in the real estate sector. I studied the Balanced Scorecards (BSCs) of 83 French real estate companies conducting five types of business activity: 23 lease management firms, 21 conducting real estate transactions, 13 in the property management sector, 15 in real estate development and 11 in the low-income housing (LIH) sector. All real estate activities relate to construction. In France, residential and tertiary buildings account for 45% of the final energy consumption, i.e., 27% of greenhouse gas emissions, which makes them the sector with the highest energy consumption. Therefore, the ecology ought to be an essential stake for companies in the real estate sector. Given this fact, there are important institutional pressures on companies in the real estate sector in terms of ecology. It is also a sector where we can find the beginnings of innovation via new digitalization technologies. My reflection is in line with the literature of recent years that reconciles sustainable development and innovation (Mithani, 2017; Bocquet et al., 2017; Guerrero-Villegas et al., 2018; Anser et al., 2018; Demirel and Kesidou, 2019; Poussing, 2019). This literature has focused on the effects of CSR and technological innovation on the financial or economic performance of firms. For my part, I study the way in which two factors that are representative of institutional pressures in the real estate sector - namely, "ecology" and "digital innovation" - are incorporated into the global performance measurement system.

Here, the notion of global performance encompasses two approaches. The first consists of incorporating the principles of sustainable development into company management through the search for multidimensional performance: economic, social, and environmental (Zenisek, 1979; Elkington, 1997; Paton, 2003). It is therefore a matter of analyzing the operationalization of sustainable development in corporate performance management systems (Carroll, 1970; Griffin and Mahon, 1997; Preston and O'Bannon, 1997; Donaldson, 1982; Orlitzky et al., 2003; Surroca et al., 2010). The second approach to global performance is the one advocated by the BSC philosophy. Indeed, the BSC is generally accepted as incorporating a global approach to performance (Kaplan and Norton, 1996a; 1996b; Holmberg, 2000). This strategic management tool developed by Kaplan and Norton (1992) is one of the greatest innovations in management accounting (Atkinson et al., 1997; Otley, 1999; Ittner and Larcker, 2001; Ax and Bjørnenak, 2005; Ding and Beaulieu, 2011). It enables a company to pilot its performance through four interdependent perspectives (financial, customer, internal process and organizational learning) and thus to respond to a number of stakeholders. It makes it possible to align the performance measurement system with the strategy (Chenhall, 2005; Kaplan and Norton 2007). It uses financial indicators relating to a business' profitability. But it also incorporates other qualitative indicators used in managing performance vectors such as the employees and their skills and the company's work methods and *processes* that make it possible to create value and generate quality in order to meet customer expectations. The BSC is thus built around a causal chain between its four perspectives: organizational learning which produces knowledge; this knowledge enables internal process control and ensures higher quality for the customers, and this quality contributes to

customer satisfaction. Process control and customer satisfaction are the factors of long-term financial performance. These causal connections form the strategy map on which the BCS relies.

My two global performance approaches are not very different. The balance between financial and non-financial performance advocated in the BSC approach aims to move away from a short-term vision of financial performance and towards a long-term, sustainable vision of global performance. Focusing on non-financial factors, namely customer satisfaction, internal process control, and organizational learning, aims to guarantee the company's sustainable performance through longterm innovation. These non-financial factors are considered to be sources of sustainable competitive advantage. This approach also takes into account other stakeholders in addition to the shareholders (Evan and Freeman, 1988). With the growing importance of corporate sustainability concerns, the authors have adapted the BSC to incorporate these concerns into the performance measurement system. These contributions relate to the Sustainability Balanced Scorecard (SBSC). Widely studied in the early 2000s (Figge et al., 2002; Zingales and Hockerts, 2003; Zingales et al., 2004; van der Woerd and van den Brink, 2004; Kaplan and Reisen de Pinho, 2007; Sardinha et al. 2007), the SBSC has been the object of renewed interest from researchers in recent years (Zhao and Li, 2015; Kang et al., 2015; Hansen and Schaltegger, 2016, 2018; Hahn and Figge, 2018; Bento et al. 2019). The SBSC's objective is to bring the company's management in line with a sustainable development strategy to enable the creation of sustainable value in a long-term perspective.

One of the expected results of the BSC is its contribution to the emergence of competitive advantage. Chenhall *et al.* (2011) consider that the management control system can contribute to strengthening corporate innovation and thus help companies develop competitive advantages. The literature has largely dealt with the connection between management control systems and strategies. However, to my knowledge, there have not been any articles that have addressed the

incorporation of digital innovation indicators into the BSC. Digital innovation is defined as the use of new digital technologies in a company's innovation processes or the result of this innovation process (Nambisan *et al.*, 2017). The research conducted by Orlikowski (1992, 2000, 2007) encourages a dialectic understanding of the interaction between technology and organizations. In a highly competitive environment, companies can take advantage of new technologies to develop competitive advantages by focusing on how these new technologies impact internal processes and on how they can use their human resources more efficiently to incorporate these new technologies (Adler, 1992; Adler and Winograd, 1993). Incorporating performance indicators pertaining to digital innovation into the BSC's internal process and organizational learning perspectives can therefore be one way of developing a company's competitive advantage. I would like to analyze the indicators used in the BSCs of real estate companies to develop competitive advantages through digital innovation.

This study may be of interest to researchers and managers who wish to reconcile sustainable development and digital innovation in global performance management. It analyzes the impact of institutional pressures on the performance measurement system. It offers insights on how to integrate ecological indicators and digital innovation indicators into the BSC causal chains. It identifies the tensions that managers may face. It reports on practices adopted in the field by managers in action.

Theoretical Framework and Research Questions

This article aims to analyze the performance indicators used in the BSCs of real estate companies. I have relied on neo-institutionalism as a framework for this analysis. This use of neo-institutionalism (Meyer and Rowan, 1977) as a framework seems appropriate to understand the

company institutionalization and legitimization process. According to Scott (1995), institutions perform three roles: a *regulatory* role, a *normative* role and a *cognitive* role. In the matter of sustainable development, institutions (national, regional and local governments, federations, unions, etc.) have defined the actions to be carried out to protect the environment and enable organizations to develop in a sustainable manner. If we take, as an example, the measures applicable to the real estate sector in France pursuant to the Grenelle debate on the environment, these measures can be classified in three categories: *regulatory* measures (Heating Regulations of 2005, 2012, 2020), *awareness-raising* measures (Energy Performance Certificate for Construction, Sale, and Rental), and *incentives* (labels, bonuses, financial assistance). Henceforth, to enhance their legitimacy and ensure their continuing existence and stakeholder support, organizations adopt the current rules, measures, discourse and practices.

Neo-institutionalism also makes it possible to analyze corporate institutionalization processes (DiMaggio and Powell, 1983) and to understand the various isomorphism phenomena (coercive, mimetic, normative). The notion of coercive isomorphism implies a balance of power based on the societal, and in particular governmental, imposition of rules and standards on organizations. To be legitimated, the latter are led to adopt these rules and standards and incorporate them into their operation. This incorporation of standards by companies gives rise to various forms of mimicry in terms of management practices, procedures and methods. This is what neo-institutionalism qualifies as mimetic isomorphism. It means that, in uncertain circumstances, the individual or group actors in the organization tend to model their conduct on that of other actors and organizations by incorporating it into their practice. This process is carried out in particular through executive, management, and employee training, customary managerial methods, decision-making processes that are legitimated by current practices, etc. According to DiMaggio and Powell (1983),

the mimetic process can be unintentional. The authors state that "Models may be diffused unintentionally, indirectly through employee transfer or turnover, or explicitly by organizations such as consulting firms or industry trade associations" (p.151). The implementation of a management tool such as the BSC is generally entrusted to consulting firms that benchmark good practices, leading to the dissemination of standard practices in companies (Wright et al., 2012). In the same logic, but more with the objective of knowledge production, academics can also, through their research work, generate interest in the development of tools such as the BSC. In summary, the institutionalization process can be influenced by a variety of actors comprising knowledge communities (Abrahamson and Fairchild, 1999; Perkmann and Spicer, 2008). Lastly, normative isomorphism is the creation of standards and rules by the professionals in a sector to regulate the conditions under which the profession can be accessed and carried out. Thus, these rules, which are acknowledged as legitimate, tend to spread and become institutionalized in practice. These isomorphism phenomena lead organizations to adopt practices and structures that meet a need for legitimization vis-à-vis other stakeholders.

This desire for legitimization does not always result in rationalized behaviors and can sometimes lead to inconsistencies in the organization's management system. Indeed, adopting practices for legitimization purposes does not always mean they will be efficient. Consequently, the search for symbolic recognition often takes precedence over the efficiency and effectiveness of the actions undertaken. Thus, in terms of global performance management, we are witnessing disconnects in the organizations' internal management in order to meet the dissimilar expectations of the various stakeholders (Griffin and Mahon, 1997; Otley, 1999; Weaver *et al.*, 1999; Figge *et al.*, 2002). Taking stakeholders' enhanced expectations into account makes things doubly difficult. On one hand, there is the matter of how to identify stakeholders who are essential to the company's

sustainable development and how to prioritize their expectations. On the other hand, the company may be faced with contradictory expectations from different stakeholders. According to Cho et al. (2015), contradicting societal and institutional pressures force organizations to engage in hypocrisy and develop strategic façades. Brunsson's work (1989) on "organized hypocrisy" is in the same vein in considering that organizations which are unable to reconcile contradictory expectations will be unable to survive. In fact, Brunsson (1993) considers that what is decent, rational and modern is not necessarily efficient. Corporate environments evolve so quickly that it seems unlikely that the latest recommendations will coincide with what is efficient. According to the author, this leads to a "necessary hypocrisy" that consists of projecting an external appearance which does not always reflect the organization's internal reality. I feel that the gap between financial and non-financial performance is even more apparent in the real estate sector since applying institutional standards for sustainable development has a cost and, necessarily, a timeline. For example, the cost generated when upgrading buildings to standard and constructing new ones is, for real estate operators, a "heavy" investment that is compensated over time by the various energy savings expected from the buildings' energy performance.

Therefore, in this article, I will attempt to analyze the impact of institutional pressure on the performance measurement systems used in real estate companies. Is the short-term/long-term balance advocated in the BSC principles actually visible in the indicators selected by the companies? How important do companies consider two factors that are representative of the institutional pressure in the real estate sector - namely, "ecology" and "digital innovation"? Is the ecology actually incorporated into the companies' performance measurement systems, or is this apparent concern merely a façade? How are digital innovation indicators incorporated into the BSC to generate competitive advantages?

The BSC's financial and non-financial indicators offer a balanced view of the company's strategy between a short-term and a long-term vision (Chenhall, 2005). By means of the indicators used by the companies in my study. I am going to measure their strategic acuity, i.e., their ability to balance a near (short-term) vision and distance (long-term) one when choosing their performance indicators. I will be using an ophthalmologic metaphor (Revelon and Delecroix, 1998; Revelon 1999; Smida and Condor, 2001) to establish a typology of the companies under study according to their strategic acuity. According to Smida and Condor (2001), this metaphor can be applied to two perspectives: the organizational perspective and the environmental perspective. The first perspective measures the ability to visualize a nearby space: the organization; the second perspective is the ability to visualize a space that is farther away and provides information about the emphasis that is placed on strategic external factors: the environment. Thus, the ophthalmologic metaphor makes it possible to identify four types of company according to strategic acuity: emmetropic, hypermetropic, slightly myopic and heavily myopic. Emmetropic companies have both near and distance vision; their vision is equally based on the organization and on the environment. Hypermetropic companies have distance vision but no near vision; their vision is focused more on the environmental perspective. Inversely, slightly myopic companies have near vision but no distance vision. Their vision focuses more on the organizational perspective. Lastly, heavily myopic companies have neither near nor distance vision. Their vision is neither organizational nor environmental.

I divided the global performance perspectives into two analytical groups: the organizational group (near vision) comprising the financial, customer, and internal process perspectives; and the environmental group (distance vision) comprising the learning perspective, to which I added two other perspectives, i.e., ecological and digitization, in order to analyze how companies incorporate

ecological and technical changes into their environment. The three perspectives of the environmental axis (learning, digitalization, and ecology) are representative of distance vision insofar as the company's performance in these three perspectives guarantees, in my analysis, the emergence of sustainable competitive advantages. My conception of the organizational learning axis of the BSC is in line with that of Kaplan and Norton (1996c, p.63) who define this perspective as "the infrastructure that the organization must build to create long-term growth and improvement". The conception of organizational learning here follows the double-loop learning scheme defined by Argyris and Schön (2002). The notion of loop refers to the idea of feedback. The "double-loop" refers to the two feedback loops that link the observed effects of action strategies and the values served by the strategies. Organizational learning is a circular process and contributes to knowledge for action and forecasting. If implemented properly, BSC can be an entirely new feedback and strategic learning system (Kaplan, 1998; Rasolofo-Distler and Distler, 2018).

This results in the classification of the companies under study as shown in Table 1 below:

- Emmetropic companies which have both near and distance vision will have balanced indicators in all six performance perspectives.
- Hypermetropic companies which have distance vision but no near vision will prioritize the three perspectives in the environmental group.
- Slightly myopic companies which have near vision but no distance vision will prioritize the three perspectives in the organizational group.
- Heavily myopic companies which have neither near nor distance vision will neglect all six performance perspectives.

Please insert here table 1

Methodology

To conduct this study, I opted to use the action research method. This method is based on a central idea according to which the production of knowledge is developed in and especially by the action conducted by social groups. Therefore, an action research involves a method of reciprocal interaction between researchers and practitioners (Lewin, 1951). According to Lewin (1947), an action research arises when a desire for change is met with a research intention. It thus has a dual purpose: to produce scientific knowledge that can be used in a change project. To do so, it must be based on work that is jointly carried out by everyone involved and be developed within an ethical framework that has been negotiated and accepted by all parties so that researchers and practitioners work together to obtain knowledge (Lewin, 1975).

This action research method is the one I used to conduct my study. In fact, the 83 Balanced Scorecards analyzed in my study are the result of an action research carried out in real estate companies as part of projects to optimize the performance measurement systems. The literature on action research is rich in useful definitions but there is no precise definition of action research (Altrichter *et al.*, 2002). I mobilize some of these definitions to present the action research I have conducted. My conception of action research is similar to that described by Kaplan (1998) as "*innovation action research*" in that I actively accompany organizations in the implementation of the BSC. The action research carried out follows five stages as shown in the Diagram 1. These stages are inspired by the recommendations of Hatchuel and Molet (1986).

Please insert here Diagram 1

The diagnosis phase of the company allows to define with the company a need for optimization. The action research conducted follow the logic of "in vivo" experiments (Lewin, 1997). The study is carried out in-company and addresses a problem that has been identified with the actors in the field. Thus, action research is also distinguished by the researcher's involvement in the organization (Esterby-Smith et al., 1991) and by the combination of two elements: research and learning. When the diagnosis phase leads to the emergence of a problem relating to the management of global performance, the researcher will draw on existing knowledge in the literature by mobilizing the theoretical frameworks relating to this issue. This action research is similar to Glaser and Strauss' "Grounded Theories" (1967): these are theories based on continuous feedback and dialog at both the theoretical and practical level. According to Reason and Bradbury (2000), the purpose of an action research is not to develop a theory based on an action or even to construct a theory about an action, but to promote the emancipation of the actors in the field through improved knowledge about what they do. This research method aims to address problems encountered by management in the field while conforming to a rigorously academic framework (Vermeulen, 2005; Markides, 2007).

Access to the company is through "part-time management students looking for a way of integrating their studies with their work". These students follow end-of-cycle university courses. They are introduced to research methodologies and the scientific criteria of a research approach. As shown in the Diagram 2., each student A benefits from a double supervision: in the company by the P1 pilot and in training by the P2 pilot. The P1 pilot is a real estate professional. The P2 pilot is a scholar. The result of the research, in this case the BSC developed in the framework of the action

¹ This is one of the applications of the action research mentioned on https://www.emeraldgrouppublishing.com/how-to/research-methods/carry-out-actionresearch

research, is presented to a validation committee composed of the pilot P1, the pilot P2 and a second scholar named here "Candid". Within the framework of the validation committee, the pair of researchers and actors will agree and negotiate on the validation of the knowledge produced at both levels (usefulness for the company and contribution to the management sciences). The objective is the integration of theory and practice (Brydon-Miller et al., 2003; Zuber-Skerritt, 2012; Antonsen et al., 2020). The intervention process lasts one year, from the diagnosis phase to the presentation of the BSC to the validation committee. The procedure used is similar to the principles of "engaged scholarship" (Van De Ven and Johnson, 2006): reality-based research statements, a collaborative and long-term learning model, and research assumptions and methods that are adapted to the problems in the field. Baskerville and Wood-Harper (1996) emphasize the wealth and rigor of the documentation in a study conducted in-company. Indeed, the abundance and quality of the information resulting from the close collaboration between the researcher and the practitioners is often mentioned as the main advantage of an action research (Huxham and Vangen, 2003). Communication with the actors in the field is essential and makes it possible to act on actual issues while enabling the researchers to produce useable knowledge.

Please insert here Diagram 2.

When the context of the company allows it, the implementation of a BSC is proposed. A phase of discussions with the company's stakeholders is then held with the aim of modeling the BSC in line with the company's strategic vision and strategy map. For data collection, I triangulated three methods (Jick, 1979). First, I conducted semi-structured interviews with members of the company's strategic committee. Based on theses discussions, I was able to select verbatim statements to support my analysis of institutional pressures (Balogun and Johnson, 2004). The questions focused on their strategy and on performance indicators they adopt to control their enterprise. Secondly, I

attended meetings with managers and their teams to examine the use of indicators as part of a performance measurement and decision-making situation. These meetings served as "Focus Groups" (Antonsen, 2014) to confront my theoretical frameworks with the company's expectations. This method also helped me identify the whole informal dimension of the control exerted by managers over their teams, and even selfcontrol established within businesses. I took notes of the discussions held between the participants at meetings, including as many direct quotes as possible in addition to some notes on gestures, expressions and other body language signs (Jarzabkowski and Seidle 2008). I asked questions to understand the role and responsibility of each actor. Thirdly, to complete my study, data collected from the observations and interviews were cross-referenced with the study of the corporate internal documents.

It is important to mention that the collective aspect plays a major role in action research. As stated by Kolb (1984), anyone may contribute technical or other specific knowledge based on his or her experience. Knowledge is the cornerstone of research. The researcher has to make sure to consider the difficulties and problems encountered by the actors in the field, examine all possible solutions they propose, and try to develop management tools. These tools are jointly built with the actors in the field in order to create synergy (Hatchuel and Molet, 1986). Through his or her personal involvement, the researcher himself/herself becomes just as much a participant in the study as the other members in the study group and thus must also analyze his or her own actions. For Kemmis (1991), applying new tools and practices alone is not enough; self-critique and active participation in the change process are important elements if one wishes to see the practices really change. For change to be productive, it must come from within. Thus, Elliott (1991) defines an action research as the study of a social situation for the purpose of improving the quality of an action. Practical judgement can be improved by applying it to concrete circumstances. The validity of assumptions

or theories not only depends on scientific testing, but rather on their usefulness in helping people act with greater skill and intelligence. According to the author, action research theories are not separately validated and then applied in practice; they are validated through practice.

Action research follows a cyclical process (Susman and Evered, 1978; Greenwood, 2007; Kemmis and McTaggert, 2008) of diagnosis/observation, action plan, action, assessment, and learning. It begins by observing what is taking place in the field. The resulting reflection leads to an action plan. This plan is implemented and assessed, and then amended if necessary. Moving from the field observation to the action plan is articulated through numerous reflections, negotiations, and identification of possibilities. Depending on the plan that is established, changes are made. Afterwards, an analysis is performed on the impacts of these changes. This short-cycle process makes speedier changes possible. When a solution has been provided, it is rarely efficient the first time, at the first analysis or experiment (Knoerr, 2001). The best solution will need to be found for the organization, and this is why the process is constantly reiterated, thus giving rise to the cyclical nature of the action research (Dick, 2011). Providing possibilities or solutions does not mean that the action research is over. The solution found must be continually modified in order to refine it to the extent possible. As far as I am concerned, the validation of the proposed solution is done at the time of the presentation in front of a validation committee composed of the pilots P1 (real estate professional) and P2 (scholar) and of a third member, a "candid" scholar who brings a new perspective on the process. I do not conduct a post-intervention analysis of the changes made. My intervention stops at this stage.

The companies under study in my research conduct their business activities in the real estate sector.

Eighty-three French companies were studied, operating five real estate activities:

- 23 lease management companies. These firms lease properties belonging to third parties.

 They operate through prospection-lease processes. They contact prospective property owners to obtain lease management contracts and then lease the contracted properties out.
- 21 real estate transaction companies (sale or rental). They connect buyers and sellers for sales transactions; landlords and tenants for rental transitions.
- 13 property management companies that handle the management of the common areas in condominiums.
- 15 real estate development companies that construct buildings to be put up for sale.
- 11 low-income housing (LIH) companies that provide housing to those with limited income. Their activity follows a construction/acquisition-leasing process that leads them to build or buy property to let.

The 83 BSCs resulting from the action research were analyzed using Nvivo software. This qualitative analytical software is increasingly used in management research relating to sustainable development (Belinski *et al.*, 2020; Elsayed and Ammar, 2020; Robertson and Samy, 2020; Bubicz *et al.*, 2021). Indeed, it offers a transparent and realistic method of data analysis (Dalkin *et al.*, 2021). The indicators for each perspective were encoded in a node named for each perspective. Thus, I obtained four nodes for the four performance perspectives in the BSC. The ecological indicators were encoded in an "Ecology" node and the digital innovation indicators in a "Digitization" node. These two additional nodes enabled me to analyze the indicators for these two perspectives representing the company's strategic acuity with regard to the ecological and technical changes in their circumstances. I also created nodes for each type of activity (lease management, real estate transactions, real estate development, property management, LIH). A word frequency

query performed for each node made it possible to draw up a list of the most frequently-used indicators for each global performance perspective and for each real estate activity. Matrix coding allowed me to record the weight of each performance perspective, for each of the real estate activities under study.

Results

As explained previously, I divided the global performance perspectives into two analytical groups: the organizational group and the environmental group. The organizational group represents near vision with regard to strategic acuity. It comprises three of the global performance perspectives, namely the financial, customer, and internal process perspectives. The environmental group represents distance vision with regard to strategic acuity. It comprises the other three global performance perspectives used in my analysis, namely the learning, ecology, and digitization perspectives

The companies were classified in four categories according to their strategic acuity: emmetropic, hypermetropic, slightly myopic and heavily myopic. Table 2 details the proportion of indicators allotted to each activity in the six global performance perspectives. It must be specified that digital innovation is not a separate perspective in the companies' BSCs. Indeed, these digital indicators are apportioned over all four of the conventional BSC perspectives. I wanted to group them together in this digital innovation perspective in order to analyze where they are found in the BSC causal chain and thus to assess the innovation processes in the companies under study. The results show that the organizational learning perspective is well-represented among the indicators, for all real estate activities. Organizational learning, which is considered a factor in adapting to complex environments, has become a core element in global performance management. Organizations

therefore consider the question of organizational learning to be a non-negligible strategic factor. This has led them to make people, individuals and actors key to their strategy again. Aside from these overall considerations, I observed particular features in the companies' strategic acuity, depending on their business activity.

Please insert here Table 2

LIH Companies are Emmetropic

My study shows that LIH activities are emmetropic in that their performance vision is balanced between the short- and the long-term. They allocate as much importance to organizational indicators as to environmental ones. This indicator balance can be explained by the institutional environment in which LIH organizations operate. In France, the LIH sector is comprised of 4,500,000 housing units and houses 10 million people. LIH tenants come from low-income households. This is a highly-regulated sector given the various subventions granted by the institutions to enable such housing to be built and leased. In fact, this is a sector in which there is heavy coercive isomorphism that is due as much to the standards and regulations for building the housing complexes as it is to their leasing conditions.

A word frequency query performed for each of the indicators used in the LIH companies (Appendix 1) lists the companies' priorities in terms of:

- The housing planned and completed in accordance with the institutional standards,
- The tenant's satisfaction with regard to the services provided, which relates to internal process control. We also find in particular the number of days of delayed intervention in the housing units.

- Employee training

Financial perspective indicators, although present in the BSCs of the LIH companies, are slightly less represented (13%), particularly with regard to the indicators for the internal process perspective (33%). Indeed, the goal of the LIH companies is to achieve a financial balance without absolutely targeting profitability. Moreover, LIH companies cannot make public offerings. They are exempted from corporate income tax. The profits made are reinvested in the construction of rental properties.

The balance between short-term and long-term vision is found in the balanced presence of ecological indicators in LIH companies. Here, too, the importance granted to ecological concerns is indicative of coercive isomorphism in that the institutions have gradually addressed the challenge of sustainable buildings through increasingly more coercive regulations (Grenelle environmental measures in 2009 and 2010, Alur Act in 2014, Elan Act in 2019). These various laws set out the standards that must be followed by developers and landlords to achieve a level of energy performance capable of protecting the ecosystem. The ecological indicators include terms such as "green", "certification", "HEQ" for High Environmental Quality", and "LEH" for "Low-Energy Housing" (Appendix 2).

Lease Management, Real Estate Transaction, and Property Management
Companies are Slightly Myopic

Among the activities under study, three require a business license. These are lease management ("G" license), real estate transactions ("T" license) and property management ("S" license). Indeed, these activities are mandated activities. The companies are mandated as agents in property rentals or sales or to manage common areas in condominiums. Monitoring the number of contracts is

therefore one of the most frequently-used indicators. Word frequency queries for these three activities highlighted words such as "results" or "income" for turnover, which in this case indicates profit monitoring (Appendices 3, 4 and 5). My study showed that companies conducting these three business activities are slightly myopic in that they focus more on the organizational perspective than on the environmental one.

In all three activities, ecological indicators are rarely involved compared to the other performance perspectives: 13% for lease management, 5% for real estate transaction, and 2% for property management. This lack of ecological indicators results from environmental legislation with more incentives and fewer constraints, from the standpoint of the property owners, at least before the Climate and Resilience Act of August 2021. As for real estate transactions (sale or rental), the mandatory and emblematic tool is the Energy Performance Certificate (EPC). Its purpose is to reduce CO₂ emissions and contribute to energy savings. It is used to measure energy consumption and provide the future tenant or buyer with information about this consumption. Thus, property sale or rental offers must display the EPC for the property on offer. On the other hand, with regard to property owners, the institutions have instead opted for incentive measures (such as financial assistance or tax breaks) and any decisions relative to energy savings upgrades are up to the property owners and not to the property management companies.

Consequently, I observed rather normative and mimetic isomorphism in the real estate companies' practices. When dealing with environmentally-sensitive customers, the information in the EPC can ensure the transaction goes smoothly. When assessing and negotiating over a property, the EPC can be a strategic tool that makes it possible to provide the data on the energy consumption of the property and to ask for a representative price for the participation in the efforts required of each citizen with regard to sustainable development. On the other hand, when customers are less

sensitive to ecological concerns, the information in the EPC is less used and other factors such as the location or price of the property will determine the success of the transaction. Therefore, in these companies, the ecological aspect is more of a commercial argument than an actual strategy.

Real Estate Development Companies are Hypermetropic

Real estate development companies are the leaders in the ecological and digital innovation perspectives. With regard to the ecology, this is coercive isomorphism, as in the case of LIH companies. Indeed, both activities involve the construction of properties for future lease, in LIH companies, and for future sale for real estate developers. With regard to digital innovation, as previously mentioned, this is not a specific performance perspective as may be the case for the other perspectives defined in the BSC. I added digital innovation as a supplementary perspective in order to analyze how it is incorporated into the practices in real estate companies.

A word frequency query of the indicators for the digital innovation perspective revealed concerns about mobile applications, websites and the Internet, virtual and 3D viewing, information systems and Big Data (Appendix 6). Here, I observed mimetic isomorphism. One company director indicated that the almost inescapable use of digital tools allowed for de facto benchmarking, i.e., to refer to the practices of competitors who produce added value. In fact, the exploitation and interpretation of the information that is almost available on company websites leads to emulating successful companies and adopting strategies that "work". In addition, a number of the managers interviewed mentioned the training they had taken to define the performance indicators they wished to monitor. The companies under study have to maintain their position in a highly competitive environment. The digital revolution in the real estate sector has led to the emergence of "Proptech" (Property Technology). This term refers to the technological innovations in the real estate services, from development to transactions, building materials to IoT, and virtual reality to Data Mining. The development of digital technology in the real estate sector corresponds in part to a change in habits, in particular those of "Digital Native" generations who grew up with the development of the Internet and digitization. On the other hand, digitization aims to optimize processes and create value. The disintermediation arising from the use of digital platforms may pose a real threat of "uberization" of the real estate business. However, the development of digital technologies offers genuine opportunities in terms of performance management. For example, extracting knowledge or information from databases is one of the strategic perspectives on which the business networks in the real estate sector are relying the most.

Real estate development companies focus on environmental perspective indicators (distance vision) because, as real estate contractors, they are participating in the construction of tomorrow's cities. They are therefore attentive to both the energy performance of the buildings and the digital innovations required to develop "Smart Cities." They have to ensure that the buildings are environmentally-friendly without compromising the well-being and comfort of their future inhabitants. They are studying the impact of new technologies on the way buildings are built and on the lifestyles of the people who will live in them.

Discussion

The purpose of this article is to analyze the impact of institutional pressure on the performance measurement systems used in real estate companies. How important do companies consider two

factors that are representative of the institutional pressure in the real estate sector - namely, "ecology" and "digital innovation"?

Incorporating Ecological Matters into the Performance Measurement System

Incorporating sustainable development concerns into a company's performance measurement system is a recurring topic in the literature (Hockerts, 2001; Figge *et al.*, 2002; Bieker and Waxenberger, 2002; Rabbani *et al.*, 2014; Hansen and Schaltegger, 2016). In addition to a greater overall awareness of the environmental stakes, incorporating sustainable development is becoming a requirement for organizations as part of their institutional legitimization dynamics. The BSC is a tool that makes it possible to manage global performance and incorporate sustainable development concerns into the management system, via the SBSC. Thus, the authors considered the potential format of the SBSC. Figge *et al.* (2002) refer to three possible ways of incorporating ecological aspects into the BSC: include the ecological aspects in the four already-existing performance perspectives, add an additional and specific perspective relative to ecological aspects or design a separate dashboard for ecological aspects.

In the companies in my study, only 2 out of the 83 chose to include an additional perspective specific to ecological matters. The others preferred to incorporate the indicators into the four already-existing perspectives in the BSC. Is it possible to confirm that the ecological aspects were actually incorporated into the management and performance measurement systems of the companies under study? Given the results of my study, I consider that the effective incorporation of the ecological concerns into a company's management system depends on the incorporation of these concerns into the BSC causal chains. In this case, the ecological indicators incorporated into a company's strategy map are effectively measured and monitored in the management and

performance measurement system. On the other hand, ecological indicators that are not incorporated into the causal chain of the company's strategy map, even when they take legitimate concerns into account, are not selected in the BSC. Thus, the question is not really about what form the BSC has, but rather what the company's strategic vision is, given the institutional pressure.

I found that legal requirements in terms of ecological matters are covered by performance indicators in the management systems of the companies under study. Indeed, the companies that most often use ecological indicators in their performance measurement systems are the ones that are in a situation of coercive isomorphism due to institutional pressure. I therefore find that the companies that were classified in my study as emmetropic and hypermetropic, i.e., those that focused on a distance vision (environmental perspective), essentially do so due to legal requirements. These companies construct buildings for the purpose of renting or selling them. They cannot rent or sell their properties if they do not comply with environmental obligations. These companies' use of the SBSC corresponds to what Hansen and Schaltegger (2016) refer to as social and political perspective, i.e., the SBSC will help the organization manage these institutional pressures and thus ensure its legitimacy.

Companies that are subject to fewer legal requirements use ecological measures for strategic purposes. This is what Carroll and Shabana (2010) call a "business case" in that the incorporation of ecological concerns into performance management contributes to economic performance. Schaltegger and Burritt (2018), drawing on the four different ethical management versions of CSR defined by Roberts (2003), discuss four perspectives of the business case: a reactionary perspective, a reputational perspective, a responsible perspective, and a collaborative perspective. The business case that I have identified lies at the interface between the reputational perspective and the reactionary perspective. CSR is used as a commercial argument, with the difference that the

companies concerned here do not incur excessive communication costs in order to gain a reputation, but simply use the arguments usually used by other companies, by mimicry. The CSR practices of these companies are also close to the reactionary perspective of the business case insofar as the managers of these companies may have CSR convictions but only retain the indicators that fit into the BSC causality chain. Following the BSC causal chains implies that the main purpose leads to the financial perspective of the performance, even if that has to be as sustainable as possible. Environmental performance is likely to be subordinated to economic performance (Hockerts, 2001). My results correspond to what Hansen and Schaltegger (2016) refer to as an "instrumental" perspective of the SBSC, in that the incorporation of ecological indicators into the performance measurement system depends on how they contribute to achieving financial targets and improving the organization's performance as shown in Diagram 3. Training and encouragement of eco-behavior will allow, on the one hand, to reduce the consumption of supplies and energy, and on the other hand, to improve the company's reputation in terms of CSR. The financial impacts are the increase of sales and the control of operating costs. These companies are the ones classified as "slightly myopic" in my study as their management system has near vision focus and their indicators prioritize the organizational perspective to the detriment of the environmental one.

Please insert here Diagram 3

Digital Innovation as a Source of Competitive Advantage

Digital innovation refers to the use of digital tools in the innovation process. This digital innovation aims to provide the company with a competitive advantage. Contrary to ecological aspects, for which I observed highly coercive institutional pressure, the digital innovation observed in the

companies under study derives more from mimetic isomorphism. Indeed, due to the change in their environments, companies imitate behavior that is deemed efficient and incorporate the most easily-identifiable technology in their business sector. In the real estate development business, new digital technologies such as Building Information Modeling make it possible to design better properties, from their construction to their use. Moreover, real estate developers are starting to digitize their offers in order to keep up with market changes. Nowadays in France, 90% of property transactions (purchase, sale, rental) begin on the Internet. Digital platforms such as Airbnb, Leboncoin, and Bienici have led to a disintermediation of the market. Given the risk of uberization of their business, companies owe it to themselves to invest in digital innovation.

From the work of Bocquet *et al.* (2017), we see that companies implementing strategic CSR exhibit a higher probability to innovate in their process. In my results, I find that the companies that have the most digital innovation indicators are those that mobilize the most ecological indicators. These companies go beyond their legal obligations to make ecology a differentiation strategy. The ecological and digitalization indicators are therefore integrated into the causal chains of the BSC leading to financial performance. Graph No. 1 shows that digital innovation indicators are mainly present in the internal process perspective and then are found in a balanced manner in the customer and organizational learning perspectives. In fact, Kaplan and Norton (1996c) recommend that the innovation process be incorporated into the internal process perspective when designing the BSC. This is to identify and innovate critical internal process elements in which the organization must excel. The authors encourage companies to incorporate the performance indicators with the highest impact on customer satisfaction into the internal process perspectives in order to meet the corporate financial targets. Therefore, companies with distance vision (hypermetropic) will invest in innovation processes for developing new products or services in order to meet the changes in their

customers' expectations. Innovation processes require new, specific technology and skills, which will redefine jobs and roles in the company (Adler, 1986; Gupta and Parsaei, 1994). This redefinition of jobs and roles usually comes with increased employee certification (Adler and Borys, 1986; Adler and Winograd, 1992). Through the organizational learning perspective, companies will define the knowledge and skills required to efficiently use the new technologies, identify the required training, and ensure that these new technologies are mastered by the employees (Duffy *et al.*, 1995). If we refer to the business case perspectives mentioned by Schaltegger & Burritt (2018), the ones found here are more similar to the responsible and collaborative perspectives. As shown in the example of Diagram 4, the development of employees' innovation capacities will allow for the innovation of internal processes through the use of new digital technologies such as BIM (Building Information Modeling), leading to the construction of connected and intelligent housing compatible with ecological concerns.

Please insert here Diagram 4.

However, according to Busco and Quattrone (2015), the BSC is essentially a method of ordering and innovation, i.e., a visualization that provides its users with guidelines for establishing new logical pathways among abstract strategic concepts. This visualization can also enable the company actors themselves to come up with innovations other than those initially set out in the strategy maps. Moreover, even companies with no well-defined digital innovation strategies, i.e., slightly myopic companies, nevertheless have digital indicators such as Net Promoter Score (NPS) or Social Media Optimization (SMO). Companies are aware of the importance of social networks and online ratings from customers. However, they have not yet managed to conceptualize an active digital strategy. Consequently, through mimicry, they settle on incorporating the digital indicators commonly used in the competitive environment into their performance measurement system.

Finally, unlike institutional pressures on the ecological dimension, which is done coercively through legal frameworks, digital innovations are instead incentivized by the market without there being a legal obligation for companies. According to the work of Mithani (2017), organizations are increasingly scrutinized on their ability to reconcile ecological performance and innovation. Therefore, they need to find an appropriate balance between investments in innovation and investments in ecology. Indeed, the heavy and compulsory pressures on the ecological level imply important costs for companies, which leads to a limitation of their capacity to invest in innovation. This is one of the reasons for the low presence of digital innovation indicators in the BSCs of the companies studied.

Please insert here Graph 1

Conclusion

I have examined the impact of institutional pressure on the selection of the performance indicators in 83 Balanced Scorecards used in French real estate companies. The BSC makes it possible to provide a balanced view of a company's performance through four perspectives: financial, customer, internal process and organizational learning. Action research was carried out in companies conducting five types of business activity: lease management, real estate transactions, property management, real estate development, and construction and rental of low-income housing (LIH). Several research questions are at the origin of this article. First, I questioned the balance between short-term and long-term indicators used by companies. Is the short-term/long-term balance advocated in the BSC principles actually visible in the indicators selected by the companies? To answer this question, I classified the companies according to their strategic acuity, i.e., their ability to balance an organizational vision and an environmental one when choosing their

performance indicators. This resulted in a company classification with three categories: emmetropic companies, whose indicators are balanced between the organizational perspective and the environmental perspective, hypermetropic companies that focus more on environmental perspective indicators, and slightly myopic companies that prioritize indicators in the organizational perspective. No company was classified as highly myopic in that all of the performance measurement systems studied actually incorporate either the organizational or the environmental perspective. I also wondered about the place given by the companies studied to the two factors representative of institutional pressures, namely ecology and digitalization. Is the ecology actually incorporated into the companies' performance measurement systems, or is this apparent concern merely a façade? How are digital innovation indicators incorporated into the BSC to generate competitive advantages? To answer these questions, I studied the way in which these two factors were incorporated into the BSC causal chains. I found that ecological indicators are selected in the BSC for two clearly-identified reasons. Ecological indicators are selected either because they correspond to legal obligations within a logic of coercive isomorphism or because they fit into a strategic rationale with a view to financial performance. Thus, in management firms with fewer legal requirements, ecological protection is used as a commercial argument for customers who are sensitive to ecological concerns. As for digital innovation indicators, these are generally part of the BSC's internal process perspective and are linked to organizational learning indicators (Kaplan and Norton, 1996c). Indeed, institutional pressure with regard to innovation leads companies to invest in new technologies that require specific skills and training (Adler, 1986; Gupta and Parsaei, 1994; Duffy et al., 1995). In the companies classified as hypermetropic, the digital innovation indicators are in fact incorporated into a strategic rationale outlined by the BSC strategy map. However, even in companies that are slightly myopic, i.e., those that do not actually have an environmental vision, I found that their performance indicators include digital innovation indicators chosen by mimicry, whereas these indicators are not part of a clearly-identified strategic rationale.

In summary, this article reveals the feasibility of measuring global performance integrating ecology and digital innovation. It responds to a preoccupation of recent years in academic research on how to reconcile CSR and technological innovation. It shows that the companies that have the most digital innovation indicators are those that mobilize the most ecological indicators (Bocquet *et al.*, 2017). At the same time, it highlights the difficulties encountered by managers in the field when faced with institutional pressures (Hansen and Schaltegger, 2016). Nevertheless, companies that have implemented the BSC tool to manage their overall performance agree that they use this tool to develop a competitive advantage. Indeed, in a context of strong coercive and normative institutional pressures, managers spend their time reporting on the application of laws and standards to legitimize their actions. However, they have little feedback on the cost-performance ratio of the actions taken. Through the implementation of the BSC, they hope to generate competitive advantage through feedback and organizational learning.

My research has three main limitations. First of all, the mobilization of part-time management students to have access to companies can influence the emergence of mimetic isomorphisms. Indeed, these students follow the same training and advise the companies that welcome them according to the training they have followed. Then, my research stops at the development of the BSC. I do not study the impacts or changes that occurred after the implementation of the tool. This could be the subject of future research on the appropriation and use of the BSC by the company's actors and their impact on the optimization of global performance measurement system. Finally, my research does not include the impacts of the new Climate and Resilience Law (August 2021) which requires property owners to carry out energy renovations or else they will no longer be able

to rent their property. This new law will accentuate the coercive isomorphism for Lease Management, Real Estate Transaction, and Property Management Companies

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Diagram 1. The steps of the action research process on the implementation of the BSC

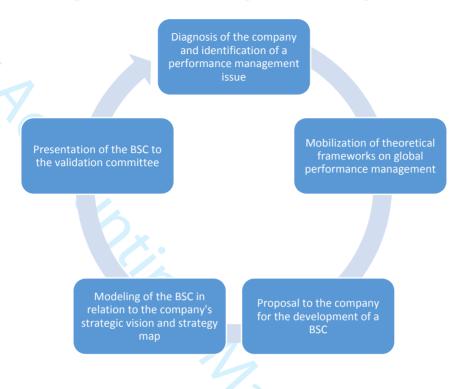


Diagram 2. The actors of the management of the research-actions carried out

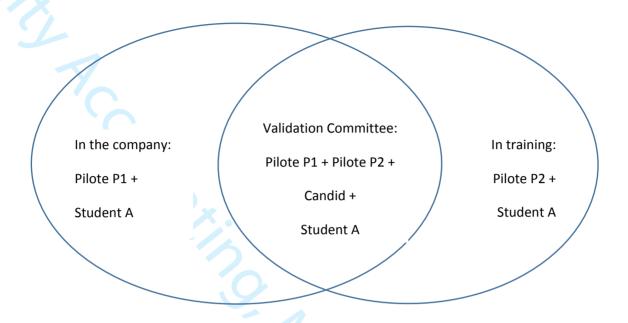


Diagram 3. Example of a strategy map of a Slightly Myopic company

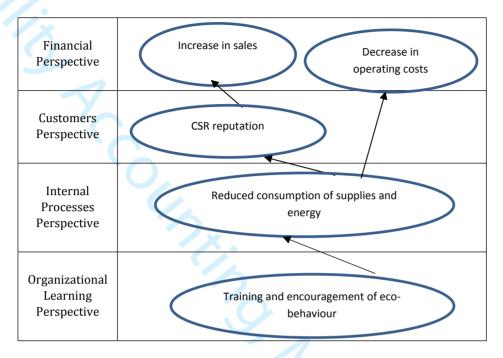


Diagram 4. Example of a strategy map of a Hypermetropic company

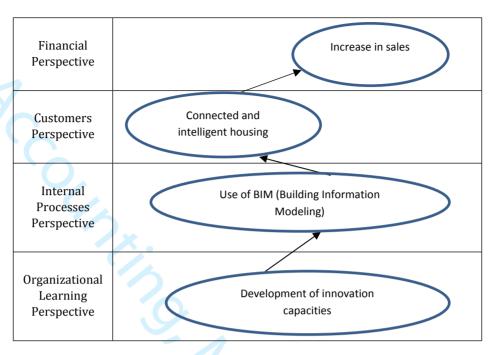


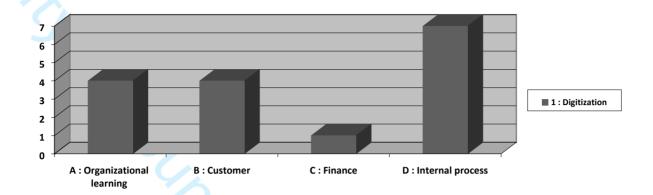
Table 1. Matrix of performance perspectives and strategic acuity

		Emmetropic	Hypermetropic	Slightly	Highly	
			71	myopic	myopic	
dn	Financial	Indicator		Indicator	No indicators	
gro	Customen	balance		priority	No indicators	
nal	Customer	Indicator		Indicator	No indicators	
utio		balance		priority		
Organizational group	Process	Indicator		Indicator	No indicators	
rga		balance		priority		
0				1 3		
•	Learning	Indicator	Indicator		No indicators	
Environmental group		balance	priority			
	Ecology	Indicator	Indicator		No indicators	
enta	Ecology	balance	priority		No indicators	
эшс		balance	priority			
'ir0	Digitization	Indicator	Indicator		No indicators	
Env		balance	priority			
, ,						
			50			

Table 2. Indicator proportions by perspective and by activity

	A: Lease		B: Real		C: Real		D: Property			1
	management		estate transaction		estate development		management		E: LIH	
1: Financial	55	16%	58	20%	34	17%	41	22%	24	13%
2: Customer	82	25%	75	26%	35	17%	49	26%	31	17%
3: Process	82 70	25% 21%	73 61	26% 21%	48	24%	49 39	26%	59 32	33%
4: Learning	42	13%	15	5%	40	20%	39	21%	30	17%
5: Ecology	3	10%	15	1%	6	20%	3	2%	4	2%
6: Digitization		170	7	170		370	7	270	T	270
	42 3			51						

Graph 1: Digital innovation indicators in the performance perspectives



Appendix 1: Word frequency query for the LIH activity

Word	Length	Number	Weighted percentage (%)
energy	9	72	1.18
objectives	9	68	1.12
housing	8	55	0.90
built	7	53	0.87
days	5	48	0.79
customers	7	48	0.79
government	6	46	0.76
			_
satisfied	9	42	0.69
satisfaction	12	34	0.56
standards	6	29	0.48
tenants	10	28	0.46
training	9	23	0.38
result	8	23	0.38
employees	8	21	0.35
deadline	5	19	0.31
development	11	19	0.31
service	7	18	0.30
internal	8	17	0.28
performance	11	17	0.28
process	9	17	0.28
management	7	16	0.26
measure	7	16	0.26
			53

Appendix 2: Word frequency query for the environmental perspective

Word	Number	Weighted percentage (%)
green	28	6.03
eco-construction	14	3.02
energetic	13	2.80
HEQ	12	2.59
CSR	12	2.59
number	11	2.37
energy	10	2.16
environment	8	1.72
ecological	8	1.72
certification	7	1.51
certified	7	1.51
environmental	7	1.51
waste	7	1.51
rate	7	1.51
recycling	6	1.29
reuse	6	1.29
LEH	5	1.08
paper	5	1.08
renovated	5	1.08
budget	4	0.86

Appendix 3: Word frequency query for the lease management activity

Word		Number	Weighted percentage (%)
objective	8	143	1.38
customers	7	121	1.17
mandates	7	65	0.63
training	9	61	0.59
satisfaction	12	60	0.58
result	8	55	0.53
time	5	55	0.53
achieved	7	47	0.45
employees	8	46	0.44
internal	7	44	0.42
work	7	39	0.38
hours	6	38	0.37
built	7	37	0.36
deadlines	6	37	0.36
new	8	36	0.35
lease	8	33	0.32
tenants	10	30	0.29
income	7	29	0.28
cost	4	28	0.27
lots	4	28	
			0.27
			55

Appendix 4: Word frequency query for the real estate transaction activity

Word	Length	Number	Weighted percentage (%)
customers	7	259	2.02
sale	5	109	0.85
employees	8	88	0.69
objective	8	79	0.62
training	9	78	0.61
satisfaction	12	73	0.57
employees	14	66	0.51
result	8	56	0.44
time	5	56	0.44
mandates	7	54	0.42
process	9	42	0.33
service	7	42	0.33
income	7	41	0.32
deadline	5	40	0.31
built	7	40	0.31
prospects	9	39	0.30
internal	7	37	0.29
new	8	37	0.29
achieved	7	36	0.28
cost	4	36	0.28

Appendix 5: Word frequency query for the property management activity

Word	Length	Number	Weighted percentage (%)
customers	7	98	1.54
employees	8	54	0.85
property	6	51	0.80
manager			
co-ownerships	12	49	0.77
objective	8	46	0.72
income	7	45	0.71
result	8		0.55
training	9	32	0.50
manager	12	30	0.47
service	7	29	0.46
time	5	29	0.46
co-owners	15	27	0.43
satisfaction	12	27	0.43
deadline	5	26	0.41
internal	7	26	0.41
mandates	7	25	0.39
new	8	24	0.38
contract	7	23	0.36
built	7	21	0.33
agencies	7	21	0.33
			0.33
			57
			37

Appendix 6: Word frequency query for the digital innovation perspective

Word	Length	Number	Weighted percentage (%)
customer	6	4	3.17
assets	5	3	2.38
[the app]	13	3	2.38
арр	11	2	1.59
creation	8	2	1.59
mobile	6	2	1.59
site	4	2	1.59
system	7	2	1.59
visit	7	2	1.59
alert	6	1	0.79
call	5	1	0.79
big	3	1	0.79
communicate	11	1	0.79
competition	11	1	0.79
connected	10	1	0.79
connection	9	1	0.79
co-owner	14	1	0.79
criteria	8	1	0.79
data	4	1	0.79
digital	7	1	0.79
digitization	14	1	0.79
digital	8	1	0.79
documents	9	1	0.79
data	7	1	0.79
during	6	1	0.79
demarcate	9	1	0.79
dematerialization	17	1	0.79
expenses	8	1	0.79
emailing	8	1	0.79
extranet	8	1	0.79
footfall	13	1	0.79
[habestetvous]	12	1	0.79
information technology	12	1	0.79
inform	8	1	0.79
innovation	10	1	0.79
Internet	8	1	0.79

investment	14	1	0.79	
extranet	10	1	0.79	
learning	8	1	0.79	
software	9	1	0.79	
machine	7	1	0.79	
control	8	1	0.79	
media	5	1	0.79	
newsletter	10	1	0.79	
new	8	1	0.79	
NPS	3	1	0.79	
optimization	12	1	0.79	
tools	6	1	0.79	
partners	11	1	0.79	
platform	10	1	0.79	
process	9	1	0.79	
developer	8	1	0.79	
pre-defined	10	1	0.79	
loan	4	1	0.79	
appointment	3	1	0.79	
recommended	11	1	0.79	
input	7	1	0.79	
return	6	1	0.79	
networks	7	1	0.79	
employees	8	1	0.79	
score	5	1	0.79	
SMO social	3	1 1	0.79 0.79	
socials	6 7	1	0.79	
secured	8	1	0.79	
tasks	6	1	0.79	
technical	10	1	0.79	
trends	9	1	0.79	
visible	8	1	0.79	
volumetry	10	1	0.79	
web	3	1	0.79	
	_	_		
			59	
			JJ	