Developing of Sustainability Balanced Scorecard for the Chemical Industry: Preliminary Evidence from a Case Analysis

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Companies today operate in an increasingly turbulent environment, with multiple (and sometimes competing) demands. Among these there is sustainability. No longer merely a buzzword, sustainability is becoming a mainstay of organizational operations, and a strategic pre-requisite for long term competitive advantages and business excellence. Crafting and implementing of strategy adapted to the company's external context and internal resources and capabilities are fundamental, and sustainability needs to be a central element to any such strategy. As such, tools are required that can bring these components together. Long used for performance management and strategic management more generally, the Balanced Scorecard (BSC) could plausibly constitute such a framework, if appropriately extended to include sustainability concerns. The aim of this paper is thus to develop such an extension, through creation of a Sustainability Balanced Scorecard (SBSC), which includes social and environmental perspectives and their interactions with the traditional perspectives. We outline the structure for a SBSC, which takes companies' overall sustainability objectives into account, as well as the steps required for its development. A case study of the formation and introduction of a "credible" sustainability strategy in the chemical industry is presented. The results demonstrate the usefulness of the SBSC in pursuing sustainability strategies, and provide preliminary evidence that introduction of such a system is likely to lead to fundamental changes in the way a company is managed. Practical implications and managerial guidelines are also reported.

Keywords: balanced scorecard, business performance, corporate strategy, economic development, sustainability strategy.

Introduction

Globalization, sustainability, ethical competences, quality, information and communication technology (ICT) applications, labor force diversity and business excellence in general are central concerns for most companies. As these issues combine to interact, the turbulence of the external environment increases, and strategy-making becomes even more important, not only to help companies stay afloat, but to contribute to their successful operations. Within this strategy-making, sustainability is an increasingly important requirement, with the implication that for most companies, the social and eco-friendly nature of their activities will soon become one of the most important factors of their competitiveness (Kolk, 2000; Garvare & Johansson, 2010).

Given this background, this paper builds on previous works of (Bieker, 2003; Fulop & Hernadi, 2012), and aims to contribute to the successful formation and implementation

of corporate strategies for sustainability and business excellence, through the development and practical application of an extended Balanced Scorecard (BSC), which includes both social and environmental perspectives. It should be highlighted, however, that our proposal goes beyond mere additions of the environmental and social perspectives, to recognize their interaction with the traditional BSC perspectives, and include sustainability related goals within them. In this sense, we outline the structure for a Sustainability Balanced Scorecard (SBSC) and the steps required for its development and practical application, contributing to closing the gap between principle and action at the business level. Through the application of our SBSC in a chemical company, our interest lies in the creation of a framework which can help companies to define those all-important sustainability goals and develop a sustainability strategy.

In the remainder of the present paper, the theoretical grounding of the proposed framework is developed. Its adoption and implementation in one of the largest chemical companies in Hungary is then described, and relevant details on the procedural steps followed and the managerial implications of the sustainability system reported.

Sustainability-Oriented Options

Kardos (2012, p. 1167) defends that "the concept of sustainable development [...] has had a significant and lasting impact on the development agenda in the last decades, from global to local". For companies, this has meant having a strategy, which meets the expectations of both the company's present and future stakeholders, without making any crucial compromises in terms of skills and capabilities (Bieker et al., 2002; Liming et al., 2008; Kardos, 2012).

In previous studies by (Dyllick, 1999; Bieker *et al.*, 2002), competitive environmental strategies have been classified on the basis of the company's *strategic orientation* and its *strategic behavior*. In what refers to sustainability issues, there are not only market forces at play, but societal ones as well. Strategic orientation therefore refers to managers' perceptions of the relative importance of these two elements: the society/the public or the market. Strategic behavior, in turn, refers to the adopted level of defensiveness or offensiveness in the company's approach to sustainability issues: whether they are proactive or reactive with regard to such concerns. When these two factors are combined, different types of sustainability strategies can be formulated, as illustrated in *Figure 1*.

Strategic Orientation Strategic Behavior	Public	Market		
Reactive	"Credible" Strategy	"Efficient" Strategy		
Proactive	"Transformative" Strategy	"Innovative" Strategy		

Figure 1. Four different types of sustainability strategies (Adapted from Bieker *et al.*, 2002)

A "credible" strategy is essentially reactive and oriented towards society. It aims towards the enhancement and fostering of credibility and reputation, recognizing that these can be valuable non-tangible assets (Bieker, 2003). An "efficient" sustainability strategy is similarly reactive, but more focused on the market. It is a strategy best suited to the industrial sector, and the aim is to enhance productivity as well as ecological and social efficiency. A sustainability strategy proactively focusing on the market is termed "innovative", and aims to reap the potential for market differentiation on the basis of sustainability, i.e. products' or services' environmentally and socially friendly attributes. Finally, "transformative" strategies are proactive and turned towards the public. They aim to "create or participate in structural changes in the institutional framework of markets and politics" (Bieker, 2003, p. 26) and, as such, entail greater changes, namely at the institutional level.

Underlying these sustainability strategies are both internal and external factors (Ghobadian *et al.*, 1998; Fink *et al.*, 2005). The next section discusses how these variables can be linked and used for the implementation of sustainability strategies and business excellence.

Implementation of Sustainability Strategies: Moving Beyond Simple BSC Extensions

A management tool increasingly used for performance management, and for strategic management more broadly, is the BSC (Kaplan & Norton, 1992; 1996). Atkinson (2006, p. 1441) notes that the BSC "can address the key problems associated with strategy implementation including communication, the role of middle managers and integration with existing control systems". As such, there has been a massive surge in the popularity of this instrument since its introduction in the early 1990s in both management theory and practice (cf. Fernandes et al., 2006; Chang et al., 2008; Agostino & Arnaboldi, 2012; Ferreira, 2013). This paper proposes an extension of the BSC, which can help companies to define their sustainability goals, and develop and monitor their sustainability strategy accordingly.

It should be noted that the idea of using the BSC for environmental management purposes is not new (cf. Kaplan & Norton, 2001, 2004; Bieker, 2003). Wynder (2010, p. 225) observes that "a number of authors have advocated a separate sustainability scorecard [...]. Others have argued for incorporating sustainability in the organization's existing BSC [...], either as a separate perspective or integrated throughout the existing perspectives" (for further discussion and/or examples, see Epstein & Wisner, 2001; Bieker & Waxenberger, 2002; Dias-Sardinha et al., 2002 and 2007; Butler et al., 2011).

A common approach to extending of the BSC has been to add the social and environmental perspectives to it (e.g. Jones, 2011). The need for both these elements is emphasized by the Kyoto Convention, as well as various other environmental laws and regulations (cf. Figge et al., 2002; Liming et al., 2008; Ghazinoory & Soofi, 2012; Simon et al., 2013). However, merely adding two more perspectives to the BSC fails to consider their specific components, as well as, crucially, their impact on the traditional perspectives. Such an approach can arguably undermine social and environmental reliability. First, listing of social and environmental factors into individual perspectives rather than seeing them as criteria for all corporate activities and decisions is more dividing than integrating. So while both the social and the environmental perspective are added, counter-intuitively, they end up detached from one another in practice. Second, these simple addition approaches focus on the social and environmental consequences of company's actions; they take into account ecological footprint but do not allow the capabilities and forces driving it to be identified. As a result, they show end results, but do not explain why they emerge, nor how they can be improved. Finally, cause-andeffect relationships that should be included in the BSC and

its strategy maps cannot be delineated, which means that a true sustainability strategy cannot be outlined.

A more desirable aim would therefore be to demonstrate how company's capabilities and knowledge can be applied to its activities to reduce social and environmental damage. For this, an extension of the BSC that goes beyond simple additions is required. Building on previous works of (Bieker, 2003; Fulop & Hernadi, 2012), we develop a comprehensive SBSC, comprising different views for the integration of sustainability issues. Our proposal for this extension is presented in the next section.

Structure and Steps for a New Sustainability Framework

The SBSC proposed in this paper builds on the traditional BSC by providing a wider framework, in which both other stakeholders and the dimensions of sustainability are integrated with the traditional perspectives. This results in a (Sustainability) Balanced Scorecard containing different content and different structure, as illustrated in *Figure 2*.

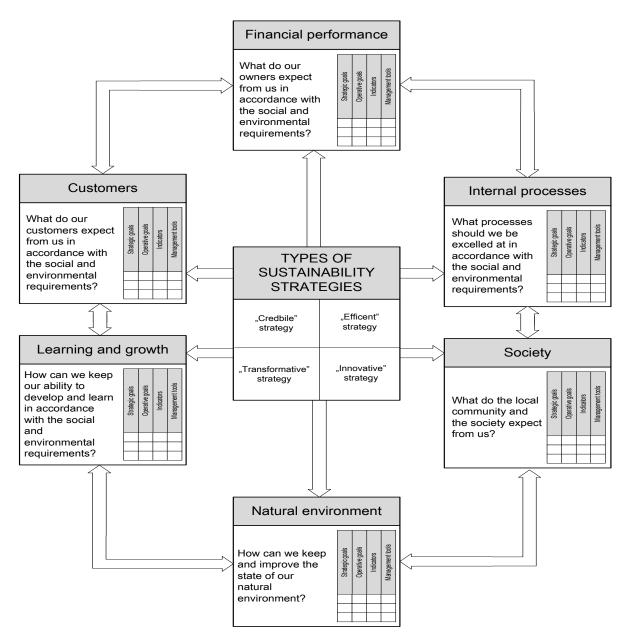


Figure 2. Sustainability strategies and structure of the SBSC (Fulop & Hernadi, 2012)

This SBSC introduces the social and environmental perspectives, so that the goals pertaining to these perspectives can be clearly and directly delineated. The novelty, however, lies in that these social and environmental expectations are also integrated into the traditional perspectives during a goal formulation. The idea is that the objectives set in these traditional perspectives should be in accordance with the previously determined

sustainability strategy. Figure 2 illustrates this by placing sustainability strategies at the centre of the framework. It becomes clear, then, that the task of designing and analysing a SBSC is a complex one. A step-by-step approach to this is presented in Figure 3.

As illustrated in *Figure 3*, the essence of the SBSC – like that of the BSC – is to translate strategy into action (*cf.* Sminia, 2005; Wong *et al.*, 2009). However, in this case,

the scorecard takes into consideration that "in order to be sustainable, a company must be innovative at several levels to minimize the environmentally negative impact that it generates" (Sarmento et al., 2007, p. 920). Therefore, the process begins with the definition of strategic inputs, such as vision and mission, and also of environmental and

social responsibility. The appropriate sustainability strategy can then be defined, and the company's strategic goals as well as the connections between them derived there (for further discussion, see also Kraus & Lind, 2012; Ubius & Alas, 2012; Petrokaite & Stravinskiene, 2013).

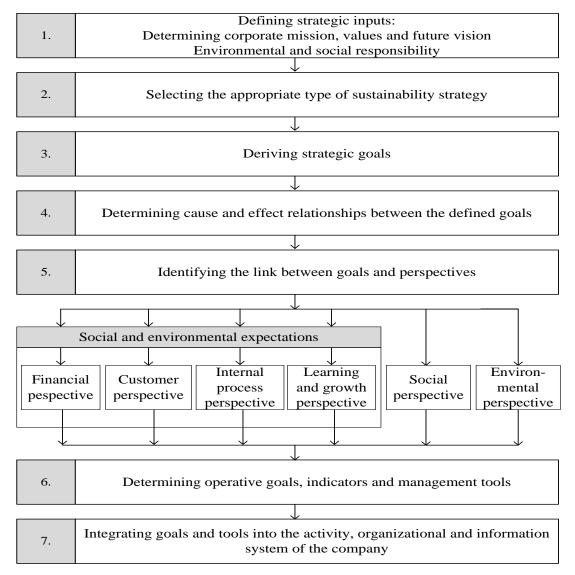


Figure 3. Defined set of steps of the SBSC (Fulop & Pelczne, 2011)

Implementing of the Proposed Framework

This section describes an application of the principles of sustainable development in one of Hungary's largest chemical companies. The *Tiszai Vegyi Kombinat Public Limited Company* (TVK) currently has 1097 employees and annual sales revenues of around 374584 million HUF. The company makes ethylene and propylene by processing naphtha and gasoline as raw materials, and in addition supplies raw materials to domestic and foreign plastic manufacturing companies throughout Europe.

The reasons for the choice of this company in particular are bound with: (1) its size and significance within the country context; (2) its existing concerns with social and environmental issues; (3) its familiarity with the traditional BSC; and, finally, (4) its accessibility and

willingness to cooperate with the research project. Indeed, TVK is one of Hungary's leading corporations and had been using the traditional BSC for over six years when initially contacted by the researchers regarding the development of the Sustainability Scorecard. Meetings were held with top management, and the actual process of developing and implementing of the SBSC was accompanied by the Head of the Department for Sustainable Development, which is responsible for the company's health and safety, insurance and environmental issues.

Map of TVK's "credible" sustainability strategy and its SBSC

Although committed to sustainable development and business excellence, TVK's initiatives in this regard have been mostly in reaction to stakeholder and contextual

demands and requirements. The company is careful to clearly communicate its achievements in this field to all its stakeholders, external ones in particular. Special attention is paid to ecological concerns regarding the creation of a cleaner environment; and to health and safety issues within the workplace. The principles of sustainability, environment-oriented thinking and business excellence are deeply embedded in the company's long-term strategy. TVK's sustainability strategy was thus classified as "credible". From this starting point, the goals associated with the company's credible strategy, its components, and

the cause and effect relationships between them were determined and drawn out in the strategy map presented in Figure 4, a necessary step for "the successful implementation of the Balanced Scorecard" (Othman, 2006, p. 690). The map thus illustrates how the company's intangible assets, such as employee satisfaction and commitment, or its sustainability-oriented culture, can lead to performance improvements in those internal processes that have the most significant influence on TVK's value creation for shareholders, customers, social communities and natural environment.



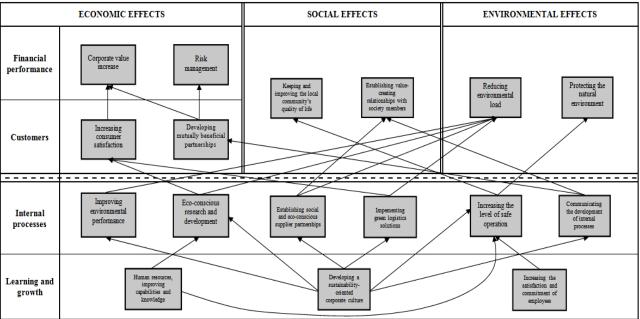


Figure 4. TVK's map of "credible" sustainability strategy (Fulop & Hernadi, 2012)

The strategy map presented in Figure 4 also highlights the company's internal processes and activities in what pertains to social and environmental issues. One of the most determining elements of internal processes is innovation and, in this case, the company tries to align these innovations with its broader sustainability concerns. For instance, in order to reduce its negative environmental impact, the company has been conducting a research into the production of biologically degradable plastics through the development of new additives. This innovation process has a positive effect on the quality and price of new products, and so allows it to satisfy better customer needs. Indeed, from the customer perspective, one of the key objectives of TVK was defined as being able to increase satisfaction by providing high-quality services and meeting customer demands in an efficient way.

Given the great importance currently attached to the protection of the natural environment, TVK has identified

it as one of its main strategic priorities. It has introduced a number of measures to reduce environmental load, including reusing of waste, reducing of fresh water consumption in production processes, and reducing of the emission of pollutants.

SBSC of TVK's "credible" strategy and associated benefits

The SBSC for TVK's "credible" strategy (see *Table 1*) was constructed bearing in mind that long-term success and social acceptance not only are reflected in economic indicators. It clarifies the company's strategic goals, the operational goals that stem from them, the indices applied to monitor their fulfilment, as well as the management tools that can facilitate their implementation. This structure allows TVK to monitor its goal pursuit.

The SBSC of TVK's "credible" strategy (based on the company's annual reports)

Perspectives	Strategic goals	Operative goals		Efficient management took					
	1.1. Corporate value increase 1.2. Risk management	1.1.1. Increasing ROACE 1.1.2. Reducing environmental reserves	Indices	2008	2009	2010	2011	2012	Business Continuity Management (BCM) Enterprise Risk Management (ERM)
			1.1. ROE	-0,1	-6,69	-0,86	-9,13	-6,55	
			1.1. EBITDA (mFt)	17703	5099	13699	7429	3646	
			1.1. ROACE (%)	2,1	-4,5	-0,4	-5,37	-3,49	
			1.2. Environmental reserves (mFt)	2563	1971	2030	2314	2346	
		1.2. HSE-related fine	0	0	0	0,1	0		
2. Customers	ers 2.1. Satisfying consumer demands 2.2. Developing mutually beneficial partnerships	2.1.1. Product portfolio enlargement 2.1.2. Product quality development 2.1.3. Extending product life span	2.1. Customer satisfaction index (%)	14,39	19,52	15,52	16,60	19,34	Customer Relationship Management (CRM) Reports on sustainable development
	2.2.1. Increasing consumer satisfaction 2.2.2. Communicating the importance of sustainable development towards customers								
3. Internal processes	3.1. Improving environmental performance	3.2.1. Developing new, biologically degrading plastic materials	3.1. Environmental investments (mFt)	65,1	252,8	85,6	315	1096,9	Integrated Management System (IMS) Ouality Control System (OCS)
3.2. Eco-conscious research and development	3.2.2. Research programmes aimed at making plastic materials more	3.2. Services related to research and development (mFt)	2.3.	235	230	198	215	Total Quality Management (TQM) Process Safety Management (PSM)	
	3.3. Establishing social and eco- conscious supplier partnerships 3.4. Implementing green logistics	environmentally 3.5.1. Introducing direct measures for handling safety risks	 Amount of recycled hazardous and non-hazardous waste (t) 	808	4653	743	427	396	Energy Monitoring and Information System (EMIS) Supplier assessment system
	solutions 3.5. Increasing the level of safe operation		3.5. Number of fire accidents (pcs)	0	0	3	0	2	
	 Communicating the development of internal processes 								
4. Learning and growth	Improving human resources, capabilities and knowledge	4.1.1. Attracting the most talented individuals 4.1.2. Keeping and improving existing labour force 4.2.1. Peromoting HSE consciousness among newly appointed managers	Cost of education and training per capita (Ft)	150000	76212	74500	67.628	66.000	Sustainable Development Management System (SDMS) Sustainability reports HSE management system Idea Support Management (ISM) Carrier Management System (CMS) Performance Auszannet System (PAS) Performance Management System (PMS)
	Developing a sustainability-oriented copporate culture A. Increasing the satisfaction and commitment of employees		4.1. Number of training hours per capita	no data found	31,59	79,8	25,5	41,6	
			4.3. Number of employees left from TVK (person)	52	44	60	37	112	
			4.3. Rate of sick leave (%)	15,8	16,4	15,3	14,2	13	
5. Society 5	5.1. Keeping and improving the local	5.1.1. Reducing the number of accidents resulting in lost working hours	5.1. LTIF (Lost Time Injury						Ethical code Occupational Health and Safety Management System (OHSAS)
	community's quality of life 5.2. Establishing value-creating		Frequency)	0,49	0,50	0,50	0,51	1,59	
relationships with society members	5.1.2. Reducing the frequency of all reportable occupational illnesses 5.1.3. Raising the rate of employee participation in health	 TROIF (Total Reportable Occupational Illness Frequency) 	0	0	0	0	0	STEP programme Safe workplace project Safe transport program	
		5.2. Sponsorship and donations (mFt)	66,7	66,9	49,39	49,95	43,75		
		improvement programmes in the workplace 5.2.1. Extending support and sponsorship activities	5.2. Rate of female employees compared to the total number of	34,5	32,5	32,6	32,1	27,4	
			employees (%)						
	6.1. Environmental protection 6.2. Reducing environmental load	Revocation of natural resources Rationalization of raw material Rationalization of raw material and energy consumption needs Section of the rational resource of surface fresh water Rationalization of greenhouse gazes	Total amount of recycled and reused fresh water consumption (m ³)	934770	859944	1372293	1.373.944	1.278.218	Integrated Poliution Prevention and Control (IPPC) Integrated Environment Management System (EMS) Sustainable Development Management System (SDMS)
			6.2. Natural gas consumption (GJ)	6.8.	1403194	1693172	1.167.828	1.331.254	
			6.2. Electricity consumption (GJ)	6.8.	1938093	2015495	1.980.912	1.734.276	
			6.2. CO ₂ emission (t)	1147068	1056552	1127707	1.116.721	916.922	

Source: Company's Annual Reports (cf. Tiszai Vegyi Kombiaat Nyrt., 2008–2012)

Among the perceived benefits observed, it is worth noting that the SBSC: (1) facilitated a better understanding of the concept of sustainability, as well as of the efforts being made towards it throughout the company; (2) helped to highlight the areas in which sustainability actions were lacking; (3) helped to clarify how social and environmental issues were being integrated into the company's decision-making processes and activities; and (4) provided a theoretical guideline for the Sustainable Development Department to plan its operational activities on the basis of long-term sustainability and business excellence objectives.

The expectation is that with time, as familiarity with the SBSC increases and it exerts an ever greater influence on the company culture, the values reported for the strategic indices will exhibit a corresponding improvement. The first glimmerings of this can already be seen in the data presented in *Table 1*. However, the data presented refer to a period starting in 2008, during which, severely hit by the global financial crisis, the Hungarian economy went into severe recession, with a contraction of 6,8 % in 2009. Despite the signs of recovery, with 1,7 % growth in

2011, GDP growth was negative again in 2012. As such, the numerical values presented in *Table 1* need to be understood within this context.

Conclusion

Selecting of appropriate sustainability strategy is an increasingly important step in the strategy-planning process; and equally important is then translating of that strategy into action. The present research contributes to closing of the gap between principle and action at the business level, by creating a framework to facilitate the formation and implementation of different sustainability strategies. This is done through the SBSC, which goes beyond mere additions of the environmental and social perspectives, to recognize their interaction with the traditional BSC perspectives, and include sustainability related goals within them. A company's sustainability strategy is thus placed at the center of the SBSC, and its components and the steps required for its development clearly enumerated.

To illustrate how the formation and implementation of such a SBSC could be carried out in practice, its application in the chemical company was presented. This not only demonstrated the usefulness of the SBSC in pursuing sustainability strategies and business excellence, but constitutes an important addition to the literature, because practical applications of such tools are greatly lacking (*cf.* Volkery *et al.*, 2006; Niinimaki & Hassi, 2011; Kardos, 2012). It furthermore highlights the significance of corporate culture in the entire process of developing and implementing of the SBSC, since the introduction of such a system is likely to lead to fundamental changes in the way a company is managed.

These contributions not only add to the theory, but can also be of benefit to policy-makers and/or managers working in the field, and wanting to lead their companies to compliance with the requirements of sustainability. In this respect, it would be of interest to analyze further applications of the tool in different industries and/or companies, particularly those in which sustainability issues

were previously not afforded great concern. Longitudinal studies examining the longer term impact of the application of the SBSC would also be of relevance. Finally, from a more theoretical perspective, a research into the critical relationship between culture, structure, leadership and sustainability alluded to above would also be of interest.

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Tvarumo subalansuotų rodiklių metodikos tobulinimas chemijos pramonėje: preliminarūs atvejo analizės rezultatai

Santrauka

Mokslinė problema. Globalizacija, etinė kompetencija, kokybė, informacinių ir komunikacinių technologijų (IKT) taikymas, darbo jėgos įvairovė ir verslo kompetencijos kelia vis didesnį susirūpinimą 21-ojo amžiaus kompanijoms. Visa tai susijungia, nes išorinės aplinkos dinamiškumas ir sudėtingumas didėja, todėl strategijos kūrimas tampa ypač svarbus kompanijai išlikti, taip pat jos sėkmei ir gebėjimui pasiekti patvarų konkurencinį pranašumą. Patvarumo klausimai taip pat svarbūs įmonėms, kurios nori pasiekimų šiame naujame kontekste. Taigi, patvarumas, viena iš svarbesnių sąlygų kuriant strategiją. Įmonės patvarumo reikalauja tiek vidaus, tiek išorės suinteresuotosios šalys, taip pat visuomenė bei vartotojai. Tai reiškia, kad kompanija turi turėti strategiją, kuri atitiktų ir dabartinių, ir būsimų kompanijos suinteresuotojų šalių lūkesčius, nedarydama jokių kompromisų gebėjimų ir gabumų požiūriu. Taigi įmonė turi įgyvendinti savo strateginius tikslus ir priemones, kad išliktų globaliame pasaulyje. Viena iš tokių priemonių, kuri dabartiniu metu vis dažniau taikoma yra subalansuota apskaita (SA). Mintis panaudoti SA aplinkos valdymo tikslams, nėra nauja, o bendras SA metodas buvo sudarytas, norint kartu prijungti socialines ir aplinkosaugos perspektyvas. Tačiau, prijungus šiuos du būdus prie SA, nepavyksta išnagrinėti jų specifinių komponentų, taip pat jų įtakos tradicinėms perspektyvoms. Toks metodas, be abejo gali pakenkti socialiniam ir aplinkos apsaugos tvarumui. Pirma, socialinių ir aplinkos apsaugos veiksnių suskirstymas į individualias perspektyvas, o ne ieškojimas bendrų kriterijų visai veiklai ir priimamiems sprendimams, gali būti labiau skaldantis, nei integruojantis. Antra, tokie paprasti *pridėjimo* metodai sutelkia dėmesį daugiau į kompanijos veiksmų socialines ir aplinkos apsaugos pasekmes.

Tyrimo tikslai ir naujumas: Šis darbas yra parengtas, remiantis ankstesniais Bieker (2003) bei Fülöp ir Hernadi (2012) darbais, kurie svarbūs analizuojant ir aptariant įmonių strategijos patvarumo ir verslo kompetencijos sėkmingo bendravimo ir įgyvendinimo bei praktinio pritaikymo klausimus. Šiame darbe siekiama sukurti sistemą, kuri padėtų įmonėms nustatyti tai, kas svarbu analizuojant tvarumą ir kuriant tvarumo strategijas.

Taigi šio *tyrimo tikslas:* užpildyti spragą tiek teorinių, tiek praktinių žinių, kuri yra atsiradusi tarp teorijos ir praktikos (verslo lygiu), prieš tai sukuriant *Patvarumo subalansuotą apskaitą* (PSA), kuri gali turėti įtaką skirtingų patvarumo strategijų formavimui ir įdiegimui. Reikia paminėti tai, kad šiame straipsnyje aprašomas praktinis šios PSA struktūros pritaikymas didžiausiose Vengrijos chemijos pramonės kompanijose. Bus praktiškai parodytas ištobulintos struktūros veikimas ir panaudojimas.

Projektavimo ir tyrimo metodai: Išanalizavus teorinę literatūrą, buvo nustatyta PSA struktūra ir jos plėtrai bei praktiniam taikymui reikalingi etapai. Be to, kas paminėta anksčiau, šios struktūros sukūrimo tikslas buvo pateikti kompanijoms praktišką instrumentą, kurį naudojant, būtų įtrauktas patvarumas kuriant ir diegiant savo strategijas. Tikslas buvo pabandyti įvertinti struktūros taikymą praktikoje, ne tik norint padidinti sukurto instrumento pagrįstumą, bet taip pat ir dėlto, kad mūsų interesai susiję su struktūros kūrimu, kuris gali padėti kompanijoms nustatyti visus svarbius patvarumo tikslus ir sukurti patvarumo strategiją. Kompanija pasirinkta dėl jos dydžio ir reikšmės šalies mastu, taip pat dėl spręstinų socialinių ir aplinkosaugos klausimų, jos išmanymas tradicinės SA, ir galiausiai jos prieinamumas ir noras bendradarbiauti su tyrimo projektu. Iš tiesų, TVK yra viena iš svarbiausių Vengrijos koorporacijų ir jau daugiau nei šešerius metus naudojo tradicinę SA (prieš tai, kai pirmą kartą susitiko su tyrėjais dėl PSA tobulinimo). Vyko susitikimai su aukščiausia vadovybe, Patvarumo vystymo skyriumi, kuris yra atsakingas už kompanijos sveikatos ir saugumo, draudimo ir aplinkos apsaugos klausimus. Nors tai pavienis įdiegimo atvejis, galimybė įdiegti PSA šioje kompanijos pateikė daug įdomių ir naudingų duomenų apie struktūros aktualumą ir tinkamumą kompanijoms, norinčioms pirmauti, įtraukiant į jų strategiją patvarumą.

Rezultatai ir praktinė reikšmė: Šiame darbe pasiūlyta PSA yra sudaryta pagal tradicinę SA, pateikiant platesnę struktūrą, kur suinteresuotųjų pusių ir patvarumo dydžiai yra integruoti su tradicinėmis perspektyvomis. To rezultatas yra Patvarumo SA, apimanti kitokį turinį ir kitokią struktūrą. Ji pristato socialines ir aplinkos apsaugos perspektyvas, todėl su šiomis perspektyvomis susiję tikslai gali būti nubrėžti aiškiai ir tiesiogiai. Ši struktūra "peržengia" paprastą papildymą, nes su patvarumu susiję tikslai yra nagrinėjami kiekvienoje tradicinėje perspektyvoje ir yra atsižvelgiama į sąveiką tarp jų ir dviejų naujų dydžių. Papildant struktūros vystymą ir pateikiant kiekvieno etapo įdiegimo vadovą, šiuo darbu buvo ieškota būdo kaip įdiegti šią PSA kompanijos kontekste. Tarp suvokiamos naudos, pastebėtos taikant šią struktūrą vienoje iš didžiausių Vengrijos kompanijų, verta paminėti, kad SA: (1) leido geriau suprasti patvarumo koncepciją ir kompanijos pastangas jai pasiekti; (2) padėjo pabrėžti sritis, kuriose trūko patvarumo veiksmų; (3) padėjo paaiškinti kaip socialiniai ir aplinkos apsaugos klausimai buvo integruoti į kompanijos sprendimų priėmimo procesus ir veiklą; ir (4) pateikė teorines gaires Patvaraus vystymo skyriui, kad šis suplanuotų savo operatyvinę veiklą, remdamasis ilgalaikio patvarumo ir verslo kompetencijos tikslais. Nors tai pavienis pritaikymas, šie rezultatai yra daug žadantys, atsižvelgiant į PSA potencialą, kaip įrankį, skirtą integruoti kitas ir būsimas suinteresuotas šalis (įskaitant aplinką) ir jų interesus į kompanijos veiklą ir taip potencialiai įgyjant konkurencinį pranašumą.

Raktažodžiai: subalansuota apskaita, verslo veikla, bendra strategija, ekonominė plėtra, patvarumo strategija.

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