Journal of Intelligence Studies in Business



Journal of Intelligence Studies in Business

Publication details, including instructions for authors and subscription information: https://ojs.hh.se/index.php/JISIB/index

The linkage between competitive intelligence and competitive advantage in emerging market business: A case in the commercial vehicle industry

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To cite this article: Zwerenz, S. (2020) The linkage between competitive intelligence and competitive advantage in emerging market business: A case in the commercial vehicle industry. *Journal of Intelligence Studies in Business*. 10 (3) 38-62.

Article URL: https://ojs.hh.se/index.php/JISIB/article/view/588

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The linkage between competitive intelligence and competitive advantage in emerging market business: A case in the commercial vehicle industry

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Received 8 September 2020 Accepted 26 October 2020

ABSTRACT To achieve competitive advantage (CA) in emerging markets (EM) firms are suggested to increase market orientation, using competitive intelligence (CI) as a source to increase firm performance. However, in-depth linkage between CA and CI, as well as its awareness/culture and process/structure constructs, has been researched and understood only in a limited way in general and for EM business in particular. This paper gives in-depth clarification of six research questions relating to the connection between CI, its constructs and CA for EM business as well as how CI as a product/process could be adapted for a larger impact on CA. It reports on a qualitative, document and interview data based in-depth single case study at a CI department of a European Union (EU) commercial vehicle manufacturer engaging in EM business. It finds that overall the linkage of CI for CA was traceable and transparent to users/generators of CI in the specific case with ambiguously perceived limitations, and influenced by seven identified factors. Seven out of eight pre-identified CI constructs were promoted but also heterogeneously understood as contributing to CA, with no other relevant constructs identifiable. Adaptions for more impact on CA were recommended for CI as a product in a limited sense, and as a process with eight potential levers more comprehensively. These results help businesses to improve CI, its constructs, its products and process for a better linkage to CA and firm performance.

KEYWORDS Competitive advantage, competitive intelligence, firm performance

1. INTRODUCTION

markets (EM) became Emerging attractive target markets in the last two decades (London and Hart, 2004;GoldmanSachs, 2007, 2011; International Monetary Fund, 2011) as part of firm growth strategies to expand to new markets (Ansoff, 1965). They are characterized as turbulent, high velocity, unstable, unpredictable and high rivalry environments, quickly changing in opportunities and threats (Pillania, 2009; Chen, Riitta, McDonald & Eisenhardt, 2010). This requires firms' to respond by adjusting

management activities (Fahy, 2002) to not lose their competitive advantage (CA) (Cuervo-Cazurra, Maloney & Manrakhan, 2007). That is why "today's business environment demands a comprehensive system for managing risks in the external business environment" (Calof & Wright, 2008, p.3) for rapid competitive and strategic maneuvering (Thomas & D'Aveni, 2009). Hence, "with high market turbulence and high competitive intensity it is crucial to continually gather and utilize information to adapt adequately. Under these conditions, a market orientation is assumed to

superior market capability, giving a competitive advantage" (Ottesen & Gronhaug, 2004, p.956). Moreover, academic writing proposes that competitive intelligence (CI) can deliver required knowledge of the external environment (Kohli & Jaworski 1990; Trim, 2004; Dishman & Calof, 2008; Fleisher, Wright & Allard, 2008; Prior, 2009; Wright 2013) for competitiveness (Maune, 2014). Nevertheless, the linkage between CI and CA has been researched in only a limited way in general (Miles & Darroch, 2006; Seyyed Amiri, Shirkavand, Chalak & Rezaeei, 2017) and for EM business in particular (Adidam, Banerjee & Shukla, 2012). In the quest for superior firm performance in EM business, in-depth understanding of that linkage is considered critical (Kumar, Jones, Venkatesan & Leone, 2011). This study aims forin-depth understanding of the linkage between CI, its constructs and CA with regard to its perceived potential and transparency amongst CI generators and users. Furthermore, it clarifies how CI as a process and a product can be managed and/or modified for CA in EM business.

2. LITERATURE REVIEW AND KNOWLEDGE GAP

The literature proposes a connection between the concepts of CA and environmental based knowledge (Day & Wensley, 1988; Civi, 2000; Hult, Ketchen & Slater, 2005; Ketchen, Hult & Slater. 2007; Voola & O'Cass, Enhancing that conceptual idea, an empirically supported (April & Bessa, 2006; Badr, Madden & Wright, 2006; Kumar et al., 2011; Adidam, Banerjee & Shukla, 2012; Seyyed Amiri et al. 2017), but not undisputed (Connor, 2007; Ketchen, Hult & Slater, 2007; Qiu, 2008; Kraaijenbrink, Spender & Groen, 2010) linkage between firm performance, CA and the concept of CI was found in existing research (Figure 1).

However, the concept of CI itself was heterogeneously defined (Wright & Calof, 2006; Bisson, 2014; Grezes, 2015) and described with varying terminology (Table 1), causing difficulties identifying a comprehensive body of academic knowledge.

Nevertheless, conceptual frameworks for the complex (Dishman & Calof, 2008; Saayman et al., 2008, Nasri, 2012) connection between CI, its constructs, CA and firm performance (Nadkarni & Barr, 2008; Qiu, 2008; Nasri, 2012) were identifiable in the literature. Based

on two suggested overarching viewpoints of CI (Seyyed Amiri et al., 2017)—process and structure (Gayoso & Husar, 2008; Saayman et al, 2008) as well as organizational CI awareness and culture (Nasri, 2012; Asghari, Targholi, Kazemi, Shahriyari & Rajabion, 2020)—it was advocated for potential links to CA contributing and non-contributing CI constructs (Lewis, 2006; Maune, 2014). Eight CI constructs were identified from the reviewed literature as being potentially relevant to CA: 1. Intelligence timing (April & Bessa, 2006; Nadkarni & Barr, 2008), 2. Intelligence type (Momeni & Mehrafzoon, Bisson, 2014), Organisational 2013; 3. intelligence activity integration (Adidam, Banerjee & Shukla, 2012; Fatti & du Toit, 2012), 4. The communication channel through which intelligence is filtered through the organization (Rothberg & Erickson, 2012; Barnea, 2014), 5. Structured, purposeful collection of intelligence (Adidam, Banerjee & Shukla, 2012; Rothberg & Erickson, 2012), 6. Capability of the organization to convert information into action (Kamya et al., 2010; Adidam, Banerjee & Shukla, 2012), Organizational allocation resource intelligence activities (Salvador and Reyes, 2011; Ngo & O'Cass, 2012), Organizational attitude to environmental change pressures (Momeni & Mehrafzoon, 2013; Barnea, 2014).

Despite of these findings, "the means by which individual firms gain a competitive advantage and enhance corporate performance in a global environment remain poorly understood" (Fahy, 2002, p.58). This "... lack of empirical evidence" on how "knowledge [is empirically linkedl exceptional to "how performance" or knowledge-based advantage is sustained" was also identified by McEvily & Chakravarthy (2002, p.285). Peteraf & Bergen (2003, p.1037) claimed that few "resource-based theorists have paid explicit attention to the conditions necessary and sufficient for competitive advantage of the temporary kind" in the context of CI activities. Only "more recently, strategists and strategy academics have focused their attention on CI as a means for further engendering sustained competitive advantage for businesses" (April & Bessa, 2006, p.86). Ichijo & Kohlbacher (2008, p.181) motivated other scholars to "conduct further... studies... of other global players in order to analyze the process of... knowledge creation in different environments and under different conditions". Further in-depth

Competitive Intelligence suggested As a prerequisite to market orientation (Kohli & Jaworski, 1990) Kumar et al., 2011), As the fundamental source of market orientated knowledge (Ashton & Stacey, 1995; April & Bessa, 2006; Wright & Calof, 2006; Calof, 2008; Prior, 2009), As a potential source of Competitive Advantage and therefore as a strategic competence in the Source-Action-Advantage-Performance Sequence (April & Bessa, 2006; Badr, Madden & Wright, 2006; Ichijo & Kohlbacher, 2008; Adidam, Banerjee & Shukla, 2012). D Knowledge of external environment S Knowledge Ressources D ひ Capabilities/ Competences ⇩ Strategic Action ₹J **Competitive Advantage** D

Firm performance

Figure 1 CI connection to competitive advantage and firm performance.

investigations for lacking empirical insights on the if-and-how to create and sustain CA by CI in different industry, firm or country settings were suggested to be required (Kumar et al., 2011, p.16): "Few studies have investigated the longer-term benefits of market orientation" beside the intensive academic quest for inunderstanding ofsuperior performance in global business environments. Hence, "there is little empirical work linking the impact of a firm's CI activities on a firm's performance" (Adidam, Banerjee & Shukla, 2012, p.242-243) and despite that, "there is much empirical research on planning and performance in general, but no major research on CI and performance" (Jenster & Solberg Søilen, 2013, p.16). Also "formalising... the constructs of competitive intelligence" lacked sufficient prior research (Saayman et al., 2008, p. 383). All in all, the linkage of CA relevant CI constructs was indicated by academics as still being under-researched with regard to a systematic investigation approach. Combined research in CI constructs that could potentially contribute to CA was rarely conducted or analyzed in-depth. Moreover, little research was identifiable on CA relevant CI constructs for EM business (Ezenwa, Stella & Agu, 2018), despite its growing importance (Global Intelligence Alliance, 2011). This "increasingly since surprising, in discontinuous environmental change" (Civi, 2000, p.169) CA was frequently linked to the exploitation of market orientated knowledge strategies, making use of external environment insight generation, with internal

dissemination and responsiveness to these insights (Civi, 2000; Durand, 2003; Peteraf & Bergen, 2003; Ketchen, Hult & Slater, 2007). Additionally, "64% of global companies intend to increase their investments in competitive intelligence or market intelligence over 2012-2013, with a geographical focus on emerging markets in Asia and Latin America" (Global Intelligence Alliance, 2011, p.1). In that context Peyrot, Childs, van Doren & Allen

(2002, p.749) claimed, that "the greater the perceived competitiveness of an organization's environment, the higher the level of competitive intelligence use". Despite some academic coverage on EM (Poblano Ojinaga, 2018; Oubrich, Hakmaouia, Bierwolf & Haddanic, 2018; Nte, Omede, Enokie & Bienose, 2020) and related in-depth understanding of CI, CI constructs and CA linkage was perceived as scarce.

Table 1 Overview of identified terminology on intelligence.

Terminology		Source
Business		Ettorre (1995), Wright & Calof (2006), Nikolaos & Evangelia (2012), Köseoglu, Ross & Okumus (2016), McGonagle (2016), Saddhono, Chin, Tchuykova, Qadri, & Wekke (2019).
Competitive		April & Bessa (2006), Wright & Calof (2006), Brody & Wright (2008), Nadkarni & Barr (2008), Saayman, Pienaar, Pelsmacker, Viviers, Cuyvers, Muller & Jegers (2008), Prior (2009), Adidam, Banerjee & Shukla (2012), Jenster & Solberg Søilen (2013), Momeni & Mehrafzoon (2013), Barnea (2014), Bisson (2014), Calof (2014), Maune (2014), Calof, Mirabeau & Richards (2015), McGonagle (2016), Solberg Soilen (2017).
Competitor	Intelligence	Wright, Pickton & Callow (2002), Chakraborti & Dey (2016), Lee & Lee (2017), El-Muhtaseb (2018), Köseoglu, Mehraliyev, Altin & Okumus (2020).
Competitive Technical		April & Bessa (2006), Calof & Smith (2010), Salvador & Reyes (2011), Salvador & Banuelos (2012), Cerny (2016), Zhang, Robinson, Porter, Zhu, Zhang & Lu (2016).
Strategic		Lasserre (1993), Trim (2004), Pirttimäki (2007), Alnoukari, Razouk & Hanano (2016), Arcosa (2016), Walsh (2017), Levine, Bernard & Nagel (2017), Ben-Haim, (2018), Ahmadi, Baei, Hosseini-Amiri, Moarefi, Suifan & Sweis (2020).
Market		Wee & Ahmed (1999), Pirttimäki (2007), Nikolaos & Evangelia (2012), Rakthina, Calantone & FengWang (2016), Soilen (2017), Falahata, Ramayah, Soto-Acosta & Lee (2020).
Market	Surveillance	Nadkarni & Barr (2008), Colakoglu (2011).
Stratogia	Analysis	Lessard (2003), Papulovaa, Gazovaa (2016), Seguraab, Moralesab & Somolinosb (2018), Köseoglu, Mehraliyev, Altin & Okumus (2020).
Strategic	Foresight	Rohrbeck, Heinrich & Heuer (2007), Mueller (2008), Kuosa (2016), Adegbile, Sarpong & Meissner (2017), Iden, Methlie & Christensen (2017), Stan (2017).
	Information	Wright & Ashill (1996), Fleisher, Wright & Allard (2008), Barakat, Shatnawi & Ismail (2016), Mandal (2018).
Marketing	Intelligence	Buechner & Mulvenna (1998), Wee (2001), Glance, Hurst, Nigam, Siegler, Stockton & Tomokiyo (2005), Wright & Calof (2006), Fleisher (2008), Göb (2010), Mandal (2017, 2018).
	Research	Walle (1999), van Birgelen, de Ruyter & Wetzels (2000), Wee (2001), Crowley (2004).
	Scanning	Ghoshal & Kim (1986), Babbar & Rai (1993), Bergeron & Hiller (2002), Calof & Wright (2008), Mueller (2008), Nikolaos & Evangelia (2012), du Toit (2016).
E	Analysis	Mueller (2008), Dobson, Starkey & Richard (2004).
Environmental	Examination	Miles and Darroch (2006).
	Impact Analysis	Babbar and Rai (1993).
	of markets	Voola and O'Cass (2008).
Knowledge	of business environment	Civi (2000).
	Management	Weiss, (2002), Greiner, Bohmann and Krcmar (2007), Nikolaos and Evangelia (2012).
Research and A	nalysis	Ghoshal and Kim (1986).

Concluding, three clear knowledge gaps emerged from the literature review. The need to better understand the transparency of the potential for CI to create and sustain CA in EM competition from the developed market firm perspective was identified (knowledge gap 1). Furthermore, a need for clarification was noticed on CI pre- or not yet identified constructs as potentially connected to CA (knowledge gap 2). Additionally, potential was seen for new insights on possible impacts on the core view of CI as a process and a product (knowledge gap 3).

3. RESEARCH QUESTIONS

The following research questions emerged from the knowledge gaps identified in the extensive literature review (Appendix 1 shows research question 1 as an example):

- (RQ1a) Can the potential of CI for CA be ascertained in the case setting?
- (RQ1b) How transparent is the potential of CI for CA for generators and users of CI in the case setting?
- (RQ2a) Do the underpinning CI constructs potentially contribute to CA in EM business?
- (RQ2b) Do CI constructs other than the underpinning potentially contribute to CA in EM business?
- (RQ3a) Is an adaptation of CI processes recommended to increase its potential for CA?
- (RQ3b) Is an adaptation of CI products recommended to increase its potential for CA?

4. RESEARCH METHODOLOGY AND DESIGN

4.1 Research approach and inquiry strategy

A pragmatism paradigm informed, qualitative research approach was chosen, as it was successfully used in comparable CI research contexts (April & Bessa, 2006). The author selected a mode of inquiry uniting deductive and inductive elements (Alasuutari, Bickman & Brannen, 2008) for desired insights into the pre-defined concepts, but also emerging ones. Empirical investigations were carried out in a unique and under-researched single case setting. Single-case studies are flexible enough to generate the required in-depth (Yin, 2003;

Van Wynsberghe & Khan, 2007), integrated insights into real-life contexts (Dubois & Gadde, 2002; Hancock & Algozzine, 2006) and highly individual experiences (Vissak, 2010) on complex phenomena in business management (Cepeda & Martin, 2005; Ghauri & Firth, 2009) and CI studies (April & Bessa, 2006; Fleisher, Wright & Allard, 2008; Ichijo & Kohlbacher, 2008, Salvador & Reyes, 2011; Salvador & Banuelos, 2012; Calof, Mirabeau & Richards, 2015). For research on CI and firm performance, Adidam, Banerjee & Shukla (2012, p.243) stated that "most literature addressing this issue has been... case-based". Ichijo & Kohlbacher (2008) applied case study inquiry to investigate the automotive industry. Since no generalization but in-depth particularization was the aim of this study a single case was selected.

4.2 Selection of case industry, case firm, unit of analysis

The case industry was purposefully (Flyvbjerg, 2006; Ghauri & Firth, 2009) chosen due to its suitability (Eisenhardt & Graebner, 2007) to meet the research objectives: The EU commercial vehicle industry showed a very high degree of globalization (VDA, 2006), a high importance of emerging markets for the industry (KPMG, 2006), and of CI activities for EMbusiness (Roland Berger Strategy Consultant, 2009b). Hence, one of the top European based original manufacturers in that industry was chosen as the case firm since it evidently matched the criteria of globalization (Datamonitor, 2010), EM engagement (Collins Stewart, 2010), a high level of CI activities (Case firm, 2010b) and granted access for research purposes. A fairly complete capture of intelligence activities for EM business activities was believed to be achievable, with the case firm's competitive intelligence department and its intelligence services being selected as a unit of analysis (Case firm, 2011a). This purposeful selection was expected to allow enriched understanding of the researched phenomena.

4.3 Data collection and analysis

Rigorous procedures for single case studies (Yin, 2003; Brereton, Kitchenham, Budgen & Li, 2008; Creswell, 2009) were applied. That is why empirical data for the six research questions was collected through a two-stage approach similar to Ichijo and Kohlbacher (2008). Extensive analysis of 77 documents

(Stage 1A: external documents; Stage 1B: case firm internal documents) followed by 18 semistructured interviews with the case firm and industry experts (Stage 2). The research questions RQ1a/b, RQ2a/b and RQ3a/b were broken down in qualitatively formulated, openended sub-questions (Appendix 1 showing research question 1 as an example) to prepare and increase knowledge retrieval (Hancock & Alogzzine, 2006). A case study protocol and databases (Beverland & Lindgren, 2010) were established. Then, at the first stage more than 50 external reports, publications, articles and presentations from 27 trustworthy, carefully and expert-checked selected organizations as well as 30 case firm internal highly-relevant, member-checked presentations, reports, charts and tables were collected. A thorough content and thematic data analysis and interpretation (Bowen, 2009) was undertaken in a qualitative analysis software (NVIVO®) allowing early conclusions and informing the next data collection stage. To establish a transparent chain of evidence and explanation building, data was labelled in NVIVO® with codes, which were in turn categorized (Table 2), allocated to the research questions and assigned to themes reflecting viewpoint and argumentation patterns. Then patterns in the data were matched, negative, discrepant or rivalling insights were addressed and additional documents were searched for; the rivalling explanations were taken further.

From the six original research questions, the sub-questions and the early insights from stage 1, interview questions (Appendix 1 showing research question 1 as an example) for the semi-structured interview guideline

master were prepared for a comparable "thematic approach" in each interview (Qu & Dumay, 2011, p.364) which were piloted with respondents. The experts purposefully (Rowley, 2012) screened with 10 established criteria and 6 external experts and 12 internal experts were sampled (Appendix 2) from the total of 30 experts approached. This procedure ensured that the 18 respondents (Appendix 2) promised valuable and fairly exhaustive input from different perspectives and viewpoints. The interviews were compliant with research ethics and data protection acts, lasted 45 to 70 minutes and were carried out in person or via telephone. During the interviews, notes were taken or the interviews were audiorecorded. Each completed interview was transcribed to NVivo®, was run through constant comparison analysis procedures (Leech & Onwuegbuzie, 2007) and industry and firm experts' member checking - allowing incremental improvements in data collection. analysis and interpretation. The iterative analysis covered the transfer of interview data and memos to NVivo®, coding of interview data (with emerging, in vivo and constructed codes from stage 1), building a code structure by member-checked categorization code. allocation to the six research questions as well as construction of themes. While analyzing interview after interview, the initial code list from stage 1 was extended and enhanced by a hierarchical structure via axial Different themes were interrelated and then also categorized after reflection on the six research questions. Where necessary, respondents were revisited during the analysis and interpretation stage.

Table 2 Extract of code system structure.

Categories	Codes applied	Relevance to research focus
Intelligence role explicitly	Intelligence term used	RQ 1
mentioned	Other terms used	RQ 1
Intelligence role indicated	Market by market understanding advocated	RQ 1a, 1b, 2a, 2b
	Market orientation as key success factor	RQ 1a, 1b, 2a, 2b
	Other (indication of intelligence role)	RQ 1a, 1b, 2a, 2b
Link CI to CA given	Market intelligence as key success factor for CA to CA	RQ 1a
	Intelligence as a strategic advantage	RQ 1a
Intelligence constructs used	Content relevance	RQ 2a, 2b
	Organisational level	RQ 2a, 2b
	Timeliness	RQ 2a, 2b
Intelligence insights reflecting	Geopolitical specifics	RQ 1a, 1b, 2a, 2b
emerging market specifics	Dynamism	RQ 1a, 1b, 2a, 2b
	Speed of change	RQ 1a, 1b, 2a, 2b

As required for single case studies (Baxter & Jack, 2008), existing theory was extensively used for comparison with empirical results. In the analysis stage, the empirical findings on the perception and transparency between CI and CA (RQ1a/b), on the pre-identified or other CI constructs' relationship to CA (RQ2a/b), and on the CI process and product adaption needs for emerging market business (RQ3a/b). Further, other emerging themes on the research focus were constantly consequently compared to the theoretical frameworks from the literature. They were also matched with already retrieved findings from our own data collection. Moreover, two industry experts reviewed the case draft.

5. STUDY RESULTS

5.1 Potential and transparency of CI as a source for CA

In the examined research setting, potential of CI for CA was traceable (RQ1a). However, classic manufacturing industry competences "purchasing" (Kern, such as 2009), "engineering" (Roland Berger Strategy Consultants, 2009a, 2009b; R 1, 3, 4, 5, 14, 15, 17), "production" (Frost & Sullivan, 2011; R1, 5, 13, 17 B4a), or "sales or after sales activities" (McKinsey & Company, 2009a, 2009b; Roland Berger Strategy Consultants, 2009b) were still perceived as dominant potential sources for achieving "low-cost" (Roland Berger Strategy Consultants, 2009a, p.1) or differentiation advantages (McKinsey & Company, 2009a, 2009b).

Moreover, intelligence as a source required for advantageous positioning in the highly product-driven commercial vehicle industry was transparent to generators and users of CI in general (RQ1b). However, this was taken as partly limited and ambiguously perceived. The diverse understanding was retrieved as a very subjective perception as taken from the interviews of generators and users of CI data and literature (Kumar et al., 2011). In particular, transparency in the relationship between CI and CA was a better identifier in an emerging market setting. For example, the potential of CI was transparent to industry experts expressing in their reports that more market orientation for emerging market business is needed "in order to successfully implement... globalization strategy" (Roland Berger Strategy Consultants, 2009b, p.3) to finally gain a higher competitiveness (Koegel Trailer GmbH & Co.KG, 2008; Roland Berger Strategy Consultants, 2009a, 2009b; PA Consulting, 2010; Frost & Sullivan, 2011; McKinsey & Company, 2011). Additionally, market orientation activities such as to "adapt... along local market expectations and the competitive environment" (PA Consulting, 2010, p.3-4), "assessing the competitive landscape" including "comprehensive market research" (McKinsey & Company, 2011, p.3) or listening to the "voice of customers" (Frost and Sullivan, 2011, page 5) were identifiable as signposts of a given transparency on the CI and CA relationship. Furthermore, statements such as "careful analysis of the markets" and "examine the obvious differences that exist between the triad and emerging markets" also proposed transparency of the potential of intelligence-based advantages to industry experts (Roland Berger Strategy Consultants, 2009b, p.3). This understanding matched with the central stance of market orientation as the "generation, dissemination and responsiveness to intelligence" for advantageous competitive positions (Kyriakopoulos & Moorman, 2004, p.224; Ichijo & Kohlbacher, 2008). Analyzed interview statements such as "for emerging market competition... competitive intelligence will... become a source of competitive advantage" (R10) also stated that "knowledge building and converting it into action" is an essential asset for CA (R16) as perceived from existing research (April & Bessa, 2006; Badr, Madden & Wright, 2006) as well. It was said, that "intelligence in all fields... needs to be generated" (R2), avoiding blind spots for emerging market business. Another expert expressed that "knowledge building and converting it into action" is an essential asset for CA (R16). Experts added that "for emerging market competition of the future, competitive intelligence will most likely become a source of competitive advantage - since for organization involving so far in low risk export business, missing market insights already used to be a competitive disadvantage in the past" (R10). Others were more reluctant on the potential of CI for CA stating that "competitive intelligence is too frequently only nice to know" (R13) or that the "full potential of BI... is not really used" (R7) or "exploited" (R8), questioning intelligence effectiveness (R6, R12) in an "industry [which] is too much product/ engineering driven".

All in all, even for emerging markets transparency was less clearly identifiable than the proposed significant business challenge of these markets suggested (Peyrot et al., 2002). Concluding from the data, transparency on the CI/CA relationship was determined to be dependent on seven influencing factors: (a) industry or individual predominant mindsets, (b) individual risk awareness on CI target markets' complexity, volatility, and insecurity depending on firm or individual familiarity with intelligence target markets, (c) different purpose and objectives of CI, (d) the process of conducting CI(systematic, timely). delivered or achievable quality of CI, (f) type of intelligence available, and (g) action being derived from CI/conversion capability of the firm.

5.2 Potential contribution of CI constructs to CA

Seven (#1,2,3,4,5,6 and 8) out of the eight preidentified CI constructs from the literature were suggested as potentially contributing to CA in this study setting (RQ2a). Interestingly, the understanding of the single CI constructs' connection to CA was highly individually and frequently ambiguously retrieved from documents and interview data. Appendix 3 shows key insights found in the data for each construct and the understanding created from these. Due to the heterogeneity and the complexity of market drivers influencing the commercial vehicle industry in the emerging market setting (McKinsey & Company, 2011), as well as above-average product, sales and after sales complexity in the case industry (McKinsey & Company, 2011), intelligence timing (#1) was supported in its influence on CA. However, respondents also opposed that conclusion since "the commercial vehicle industry and commercial engine industry is due to long product cycles not involved in hyper-competition business environment" (R5). In line with Rothberg and Erickson (2013) respondents expressed the type of intelligence (#2) as "highly relevant" (R12) for CA, however also limiting it to "actionable knowledge" only (R17). However, this connection was also partly rejected for the case since "rare knowledge is not existing for this industry" (R10); this supported Greiner, Bohmann & Krcmar (2007, p.3) since "not all knowledge... activities have been shown to positively influence business performance or to result in a competitive advantage". Organizational intelligence activity integration (#3) was perceived as potentially CA-relevant since it was stated that "for CA, involvement [of CI] in the strategy process is very important" (R17), advocating that CI needs to be closely linked to decision making to unfold impact on CA. Moreover, CI was demanded to be centralized since "CA most likely created in central functions which sees the company in its wholeness" (R11). However, the opinions on which organizational level CI unfolds its influence best ranged from all organizational levels to corporate level only. It could be concluded from the analyzed data to well-balanced for collection dissemination between central and decentralized organizational units to outweigh biases on both sides (R9, 17) or to increase and (R16). Nevertheless, timing ambiguous perception of the influence of the organizational level CI construct for CA was also retrieved since it was understood as rather a prerequisite of CA than determining it (R15). In the communication channel through which intelligence is filtered through the organization (#4), internal and external respondents across business functions were almost unanimously convinced that it has an impact on CA creation in EM environments. This supported that "disseminating intelligence across the firm is one of the most critical components of effective competitive intelligence" (Adidam, Banerjee & Shukla, 2012, p.249). Respondents suggested to organize a more effective and efficient channel of collection and dissemination by reduction of process barriers ("the closer the channel to operative decision makers, the better", R7) to connect CI closer to decision making. Reduction of the number of involved stakeholders ("too many stakeholders are linked in the process between intelligence creation and usage, so channels are usually long and insights... get easily lost", R2), realinsight access ("often access intelligence is missing", R3), and IT tools (R3, R8) were believed to be supportive. Despite the positive perceptions, it was doubted that an ideal channel could be found at all to establish this construct as relevant for CA (R10). Interesting opinions were retrieved on CA influence of structured, purposeful collection of intelligence (#5) and the capability of the organization to convert information into action (#6). One group of respondents believed that both constructs influence CA relevance of CI (R1, 11, 13, 14, 15, 17). Others preferred the conversion capability since "the ability to convert... to action is key" (R13), "collection is important but the capability... might be an

outstanding asset" (R2) and conversion "plays a more important role than sheer collection and analysis of intelligence" (R3) since "unique knowledge in this industry is rare and success is more depending on how quick the insights can be converted into action by experience and talent" (R9). This was overall in line with Herring (1992,p.57) expressing "successful strategies are derived from good intelligence" whereas "good intelligence by itself, will not make a great strategy" and Babbar & Rai (1993, p.105) stating that "intelligence is merely a necessary but not a sufficient condition for competitive vitality". Case firm internal as well as external experts supported the positive influence organizational attitude to environmental change pressures (#8) on CA (R6, 8, 18). Respondents believed, that "continuity and a long-term holistic intelligence scope impact CA relevance" (R6)as an expression organizational awareness for change attitude and skills towards a greater outside in perspective is required to harvest the potential of CI best. It was claimed that through all hierarchical levels, from supervisory board, management board to each single member of staff, a change of attitude towards market orientation on the individual level is an essential prerequisite for successful exploitation (R8, R16).

Furthermore, to the above constructs, neither the last pre-identified construct, organizational resource allocation to intelligence activities (#7), nor any other construct's influence on CA was retrievable (RQ2b) in this study. However, the absence of other proposed constructs led to the conclusions that either no further constructs were of relevance in that case setting or that the respondents experience on the matter of CA relevant constructs did not go beyond the discussed constructs.

5.3 Recommended adaptions of CA as a product and a process for CA

On research question 3a only two major recommendations for EM business modification of CI products were identified (RQ3a). While documents provided no insights at all, it was expressed by a generator of CI, that on CI products for EM "the expectation is extremely high while at the same time uncertainty of the results is extremely high" (R18). CI in EM was said to be expected "to deliver not only decision relevant insights but delivering also the decision itself" (R11)

requiring the adaptation of the deliverables of CI wherever possible even more directly for direct decision making. Another pattern was identifiable with adapting the product towards full and more proactive transparency on insight reliability (R4, 5, 8, 14, 15, 17). R5 as a user of CI also experienced the even more evident necessity in insecure and highly volatile business environments to "highlight obviously existing higher uncertainty in results" as also identified in Tao and Prescott (2000), suggesting a quality framework determining timeliness, accuracy reliability of intelligence for EM CI.

On research question 3b (RQ3b), dealing with CI as a process, more comprehensive recommendations for optimization retrievable for EM from the literature (Gayoso & Husar, 2008). It identified stages of planning, collecting, analyzing and adapting (Appendix 4). It was perceived that the "core process stays the same but the characteristics are different due to low decision relevant data available, frequently lacking basic and advance knowledge of emerging markets amongst decision makers, a high change and dynamism in these environments resulting in a higher uncertainty for decisions and subsequently an increased entrepreneurial risk" (R9). So need for change in the process was expressed by respondents for single but also across phases (Appendix 4) with (a) balanced intelligence insight generation and usage between central and decentralized firm units (plan phase), (b) fit-to-market qualitative research approaches making use of primary sources (collect phase), (c) proactive use of data triangulation approaches combined with analysis against a validity/uncertainty scale result transparent communication (analysis phase), (d) presentation of developed vs. emerging market deviations (adapt phase), (e) sharing cross-country or cross-segment insights (adapt phase), (f) higher degree ofanalyst involvement in decision making (adapt phase), (g) IT tool usage, actionable CI generation (across phase), (h) usage on all relevant organizational levels (across phase) as well as (i) analyst training for extended responsibility and task portfolio (across phase). Appendix 4 interprets modification needs against existing academic perspectives.

6. CONCLUSIONS AND BUSINESS BENEFITS

6.1 Conclusion

This study of a commercial vehicle OEM and its CI activities for EM business illuminated the in-depth understanding of CI and its constructs for CA in a not yet investigated, unique and holistic research single case setting. In the examined research setting, the potential of CI for CA was traceable (RQ1a). Moreover, intelligence as a source required for advantageous positioning in the product-driven commercial vehicle industry was transparent to generators and users of CI in general (RQ1b), along with, as from literature expectable (Kumar et al., 2011), diverse and ambiguously perceived limitations and influenced by seven identified factors. For the first time in academia, CI and preidentified CI constructs were investigated in a systematic and joint research approach in this specific context. Concluding, seven out of the eight pre-identified CI (#1,2,3,4,5,6 and 8) constructs from literature were suggested to be potentially contributing to CA (RQ2a), while beyond that neither the last pre-identified construct, organizational resource allocation to intelligence activities (#7), nor any other construct's influence on CA was retrievable (RQ2b) in this study. Furthermore, two major recommendations for modification of CI products (RQ3a), and eight levers for each in literature (Gayoso & Husar, 2008), identified CI process stages of planning, collecting, analyzing and adapting for CI (RQ3b) that were retrievable for EM.

6.2 Business benefits

Despite acknowledging that no generalization is possible from this single case study, generated insights still enable firms to reflect on how to potentially achieve greater impact of CI on CA for their specific case. Benefits would arise from analyzing and improving firmspecific linkages between CA and CI and its transparencies for generators and users in general. Improving the CI setup specifically for constructs such as CI timing, CI type, organizational intelligence activity integration, communication channel through which intelligence is filtered through the organization, procedures for structured. purposeful collection of intelligence and the capability of the organization to convert information into action. Further, firms could also improve organizational attitudes to environmental change pressures on CA impact. Considering potential adaption possibilities such as the two identified for CI as a product or

the eight suggested for CI as a process gives further possibility to influence the potential of CI for CA.

7. LIMITATIONS AND AREAS FOR FUTURE RESEARCH

7.1 Limitations

As with other research, this study also has limitations. These could be based in underlying theory, since the conceptual connection of CI and CA was not undisputed (Qiu, 2008) although it is empirically supported (Adidam, Banerjee & Shukla, 2012). Furthermore, terminological heterogeneity of CI (Bisson, 2014; Grèzes, 2015) could have limited the exhaustive knowledge retrieval from the literature review. Due to the selected crosssectional, single case study setting, research was consequently limited in regard to theory generation, and verification as well generalization of other firms or industry settings (Rowley, 2002). Potential limitations of the data collection and analysis could have occurred as well. However, possible biases were reduced through rigorously-applied research procedures for document selection, interviewee sampling as well as strictly applied qualitative analysis.

7.2 Future research

With little "empirical work linking the impact of a firm's CI activities on a firm's performance" (Adidam, Banerjee & Shukla, 2012, p.242-243) in existing research, this study in a very particular case setting provided substantial further—but not an exhaustive—contribution to this knowledge gap. Hence, further in-depth complementary particularization demanded by Ichijo & Kohlbacher (2008) for "formalizing... the constructs competitive intelligence" (Saayman et al., 2008, p. 383) are obvious areas for future research. This could be done, for example, by researching in-depth in the same case a) in one CI construct only, b) in all constructs but longitudinally; or examining complementary case c) in the same industries on the same or another value chain/system level or other cultural/national background or d) in a similar/other industry with a longitudinal timeframe. Moreover, future research could try to generalize the retrieved findings for e) one or f) all constructs in a crosssectional/ longitudinal timeframe representative sample.

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APPENDIX

Appendix 1: Interrelating central research problem, research questions, sub-research questions and interview questions shown for research question 1 as an example. Research objectives= Research objectives in the context of emerging market business from a developed market firm perspective this study aimed. In this table, the central research problem is: What potential does competitive intelligence have to create and sustain competitive advantage in emerging market competition by exploiting an adapted process and tailored-to-fit products?

Research objectives	Sub-questions	Interview questions
and Research question	-	for the semi-structured interview guideline
To opposite the	10 1) Which access	D1) What is your and enstanding of - Ctities Adverter
To ascertain the potential of CI to	1a.1) Which sources (resource-/ competence-	B1) What is your understanding of a Competitive Advantage a firm holds?
create and sustain CA	/capability-/knowledge-	B2a) Which Competitive Advantage do you believe a Commercial
	based) for firm performance	vehicle OEM needs to hold in the industry by now?
1a: Can the potential	differences / CA in emerging	B2b) Which Competitive Advantage do you believe a Commercial
of CI for CA be	markets are considered?	vehicle OEM needs to hold in 5 to 10 year?
ascertained?	1a.2) How is CI (or any	B3a) Which Competitive Advantage do you believe THE CASE FIRM
	synonymously/ similar term) linked in this context?	holds by now? B3b) Which Competitive Advantage do you believe THE CASE FIRM
	1a.3) If a link is considered:	needs to hold in 5 to 10 year?
	How is it described?	B4a) Which sources of CA at THE CASE FIRM do you identify?
	1a.4) If no link is	B4b) [If knowledge/data/information/ intelligence of the external
	considered: What are	environment is not named]: How about CA by knowledge of external
	reasons for that?	environment?
	1a.5) If other sources are	C1a) When coming to emerging market competition: Which
	considered: Which sources are mentioned?	Competitive Advantage do you believe a Commercial vehicle OEM
	1a.6) If other sources are	needs to hold in the industry by now? C1b) When coming to emerging market competition: Which
	considered: What are	Competitive Advantage do you believe a Commercial vehicle OEM
	reasons for mentioning	needs to hold in the industry in 5 to 10 years?
	them?	C2a) When coming to emerging market competition: Which
		Competitive Advantage do you believe THE CASE FIRM inhibits by
		now?
		C2b) When coming to emerging market competition: Which
		Competitive Advantage do you believe THE CASE FIRM needs to inhibit in 5 to 10 year? C3a) Which sources of CA for emerging
		market at THE CASE FIRM do you identify?
		C3b) [If knowledge/data/information/ intelligence of the external
		environment is not named]: How about CA by knowledge of external
		environment?
		D1) Which Character do BI results have according to your opinion?
		□ Nice to know □ Important to know
		□ Decision criticial
		□ CA relevant insights
		□ Other
To clarify how	1b.1) Is a link between CI	D2a) Is CI explicitly used to create Competitive Advantage for
transparent the	(or any synonymously/	emerging market competition? Who is aware of link
potential link between	similar term) and firm	of CI and Competitive Advantage and uses it explicitly?
CI and the creation of CA is for generators	performance differences/ CA considered?	D2b) Does in your opinion the company retrieve and absorb actionable knowledge and transfer it to activities meaning a
and users of CI.	considered:	temporary or sustainable Competitive Advantage for the Emerging
and asers of C1.		Market business of the firm?
1b: How transparent		D2c) If so, which Competitive Advantage for emerging market
is the potential of CI		competition are suggested to be achieved by CI?
for CA for generators		D2d) How does this link look like for emerging market competition:
and users of CI?		intelligence as a whole (elements of it) embedded process wise in
		product development, business/functional strategy development? How is CI embedded?
		D2e) If the link how Competitive Intelligence as a process and a
		product can be managed to create and/or sustain Competitive
		Advantage in emerging market competition is non-existant in the
		case company: Why is this the case? What needs to be changed to
		link CI and Competitive Advantage?
		E1) What is the perception since when the company uses Competitive
		Intelligence in the case firm?
		E2) What is the initial trigger/ reason for implementation of Competitive Intelligence in the case firm (initial target, today's
		target?)? What did change with emerging market competition?
	I	vargetty. That aid change with emerging market competition:

E3) Where (at which levels, where in the organisation) is Competitive Intelligence created? Is all part of the external strategic analysis explicitly done by Competitive Intelligence department? If not, where else does the information come from-how, by whom and why is it there created? Were any amendments made for emerging market competition?

E4) How is the BI department organized in regard of organisational structure, division of labour, mission and vision, aims and objectives, processes, ...? Were any amendments made for emerging market competition?

E5) How is intelligence in general and for emerging market competition process and process-stage-wise (Plan-, collect- and data source-, analysis- and dissemination-wise) generated?

E6) Which kind of information is collected in the BI department in general? What kind of knowledge tries the compensate build on

general? What kind of knowledge tries the company to build on emerging market (as the growth promising perspective) in regard of the Macro- and Microenvironment? E7) At what organisational levels, where and by whom is

E7) At what organisational levels, where and by whom is Competitive Intelligence for emerging market competition used? What happens with the generated information and how is it used?

Appendix 2: Biographical interview background data and sampling criteria. CV = commercial vehicles.

					Intervi	ewee num	ber			
Criteria fo	r purposive									
	pling	#1	#2	#3	#4	#5	#6	#7	#8	#9
Case firm int. expert	v (>=10)	х	x	x	х	х	х	х	х	х
Case firm ext.	v (>=5)									
Industry	v (CVI or related to CVI and case firm)	CV	CV	CV	CV	CV	CV	CV	CV	CV
Dept.	-	Business Strategy Dept	Business Strategy Dept	Product Strategy Dept	Product Strategy Dept	Sales Dept	Sales Dept	Project Manage- ment Office	Strategy and Planning Dept	BI Dept
Position	V (>=Expert)	Senior consultan t new business segments	Senior Consultant Multi Brand Strategy and Globalisatio n	Head of Business Foresight Commercia l vehicles	Senior product strategy develope r Global Trucks	Sales Manager External Engines Off highway	Business Develope r Emerging Market Projects	Program Manager Light Vehicles	Head of Strategy and Planning Southern Africa	Senior Manage r
Professional expertise in industry (in years)	v (>=three)	five	six	four	six	five	six	five	ten	five
Work focus on EM in %	v (>=50)	70	80	60	70	60	100	60	100	50
Relationship to CI	v User (U) / generator (G)	U	U	G and U	G and U	U	U	G and U	G and U	G and U
Anticipated Understandin g of CI	V CI as process/produc t to create business environment insights	advanced	advanced	advanced	advanced	adequate	advanced	adequate	adequate	top
Anticipated degree of CI usage	-	high	high	high	high	Low/ mediu m	high	Low/ mediu m	mediu m	high
Anticipated preference on potential sources for firm performance differences	v 50:50 share of KBV vs CBV	CBV	CBV	KBV/ CBV	CBV	CBV	(CBV)/ KBV	CBV	(CBV)/ KBV	(CBV)/ KBV

					I	nterviewee	number			
Criteria for	nurnosivo	#10	#11	#12	#13	#14	#15	#16	#17	#18
samp										
Case firm int.	v (>=10)	x								
Case firm ext.	v (>=5)		х	х	X	Х	Х	X	X	
Industry	v (CVI or related to CVI and case firm)	CV	CV	CV	CV (competito r firm 2)	CV (competito r firm 1)	Automotiv e consultanc y	Intelligenc e Research Service provider 1	Intelligenc e Research Service provider 2	Intelligenc e Research Service provider 3
Dept.	-	BI Dept	BI Dept	BI Dept	BI Dept	Business Strategy	Automotiv e practice	Automotiv e practice	Automotiv e practice	Automotiv e practice
Position	v (>=Expert)	Head of market and competito r analysis truck and bus	Head of market researc h	Analyst for emergin g market CIS and India	Market Analyst	Senior Consultant	Manager	Global Director	Managing Partner	Manager
Professional expertise in industry (in years)	v (>=three)	five	three	five	nine	three	eight	ten	twelve	ten
Work focus on EM in %	v (>=50)	50	60	100	60	60	70	50	60	60
Relationship to CI	v User (U) / generator (G)	G and U	G and U	G and U	G and U	G and U	U	G	G	G
Anticipated Understandin g of CI	V CI as process/ product to create business environmen t insights	top	top	top	top	top	advanced	top	top	top
Anticipated degree of CI usage		high	high	high	high	high	Medium/ high	high	high	high
Anticipated preference on potential sources for firm performance differences	v 50:50 share of KBV vs CBV	KBV	KBV	KBV	KBV	CBV	CBV/ (KBV)	(CBV)/ KBV	KBV	KBV

Appendix 3: Created understanding on CA relevant CI constructs.

CI	Key Insights from study data	Created Understanding in this study
Intelligence timing	Support for construct: " faster and more in time delivery of intelligence would be accounted as helpful" for CA (R6, 12), " continuity and a long-term [oriented] intelligence scope" were also suggest to impact CA (R6). Reluctant support for constructs contribution for CA: Construct might be" less important than the other [constructs]" (R17). Rejection of constructs support for CA " really [not] seeing relevance, not even in emerging markets" (R5) underlining that the " the commercial vehicle industry and commercial engine industry is due to long product cycles not involved in hypercompetition business environment".	The study supported from the case setting the demand for a frequency and timing of CI which is adapted to the competitiveness of the firm specific environment. Timely strategic responses to changes in the environment to outperform competitors in the quest for CA was confirmable from the selected case. Thus, doubts on whether in turbulent, volatile and high velocity environment speedy responses could build a sustainable CA at all were also understood from the selected case. However, individual perception of environmental and competitive pressure still suggested that increasing speed and frequency of insight availability could support CA creation.
Intelligence type	Support for construct: "type of intelligence [is] retrieved as highly relevant" (R12), limiting it to "actionable knowledge" for CA relevance (R17), Reluctant support for constructs contribution for CA: Experts felt unsecure regarding the supporting potential of that very construct in the light of others (R15) Rejection of constructs support for CA: Perception that "rare knowledge is not exisiting for this industry" (R10)	Actionability respectively usability and relevance of intelligence was understood as potentially CA relevant. Quality, type, accuracy, up-to-dateness, depth and comprehensiveness were in the case setting for emerging market business identified CA and performance relevant properties of the intelligence type. However, the perception in the case on whether intelligence as non-substitutable, rare, valuable and inimitable, complex and firm specific as well as tacit - rarely available and accessible -nowledge as a source of CA is retrievable at all in the commercial vehicle industry, provided a valuable criticism of the supportive position on that construct.
Organisatio nal intelligence activity integration	Support for construct: " for CA, involvement [of CI] in the strategy process is very important," (R17), " CA most likely created in central functions which sees the company in its wholeness," (R11), Reluctant support for constructs contribution for CA: Activity integration is a relevant matter but rather a prerequisite of CA than determining it (R16) No impact seen since other constructs more clearly determining CA (R7, R10)	It could be shown, that organisational activity integration of CI is also potentially perceived as CA relevant. However, the opinions on which organisational level CI unfolds its influence best ranged from all organisational levels to corporate level only. Furthermore it was demanded that CI needs to be closely linked to decision making to unfold impact on CA. Thus, ambigious positions or clear rejections showed that individual experiences and perspectives on emerging markets vary the perception of a constructs significantly.

Created Understanding in this study	For the Communication channel through which intelligence is filtered through the organization construct the data presented a potential impact on CA. This underlined the findings from Adidam, a several variables intelligence and Shukla (2012, p.249) saying that "disseminating hished formalistic effective competitive intelligence" — as the study data showed in particular for emerging market business. Organising more effective and efficient channel of intelligence collection and dissemination by reduction of process barriers connecting CI closer to decision making, reduction of number of involved stakeholders, real-time insight access and by IT tools is understood as supportive for CA impact. However, the potential impact on CA was also critised for the challenging quest establishing an ideal channel in complex organisations.	On the structured, purposeful collection of intelligence and the capability of the organization to convert information into action construct this study contributed diverse knowledge. On one hand both constructs were believed as influencing CA relevance of CI. Also in existing research sourcing of intelligence in emerging market context was identified as a significant challenge for organisations. On the other hand experts considered the capability of the organization to convert information into action as the only relevant Competitive Intelligence construct in regard to CA impact out of the two discussed. In their view intelligence was regarded as a necessary but not sufficient prerequisite for Competitive Advantage. This supported a viewpoint in existing academic research in which " developing a competitive advantage requires appropriate [organizational] capabilities" (Kamya et al., 2010, p.2978; Adidam, Banerjee and Shukla, 2012) and in which the capability of the organization to convert information into action is understood as a key enabler for an advantageous position of firms in their industry.
CI constructs Key Insights from study data	Communicati on channel through which intelligence is forwards knowledge), on individual competences as well as positions and functions in the organization through the direct access to top management without being filtered direct access to top management without being filtered (R11) which or less formalized processes, on people (and their proactive attitude towards knowledge), on individual competences as well as positions and functions in the organization organization which or less formalized processes, on people (and their proactive attitude towards knowledge), on individual competences as well as positions and functions in the organization Ambigious perception on CA impact most effective and efficient channel for each CI task" hard if not unrealistic to be found (R10)	Structured, purposeful Collection of One group of respondents believed that both constructs influence CA intelligence relevance of CI (R1, 11, 13, 14, 15, 17) Conversion capability as more relevant construct "the ability to convert to action is key" (R13), "collection is important but the capability might be an outstanding capability of asset" (R2) and "plays a more important role than sheer collection and analysis of intelligence" (R3) since "unique knowledge in this or convert insights can be converted into action by experience and talent" (R9). information into action

CI constructs	Key Insights from study data	Created Understanding in this study
Organisation al attitude to environment al change pressures	Support for construct: In an emerging market business cortext "continuity and a long-term holistic intelligence scope impact CA relevance" (R6) Respondents believed furthermore, that in particular in emerging market business organisational awareness for change in attitude towards a greater outside in perspective is required to harvest the potential of CI best (R8). It was claimed that through all hierarchical awareness for change of attitude towards Market Orientation on individual level is an essential prerequisite for successful CI exploitation (R8, R16).	The organisational attitude to environmental change pressures construct was also identified as potentially CA relevant. Individual Market Orientation attitude was expressed as an essential prerequisite. For emerging market business organisational awareness for change in attitude, culture as well as skills towards a greater outside-in perspective seemed to support the potential of CI.
Others		On further constructs potentially impacting CA no additional construct was retrieved. It was only concludable from the retrieved data that CI constructs most likely cannot be applied solely to unfold impact towards CA. It is suggestable that CI constructs should be joined and integrated in a holistic Competitive Intelligence approach to unfold significant impact on CA.

Appendix 4: CI process phase modification needs for EM business ts usage increasing emerging markets a data/analys is made ousiness efficiency. and Conclusion In noted turbulent approach seems to Interpretation ntelligence via an [T Tool can foster promising results, dissemination of also intelligence deliver the most researcher credibility when from the generation and dissemination access to raw Effective and and volatile questioning nolistic CI possible. efficient nowever guaranteeing the two-sided flow of assessed against responsiveness by more importantly vailable to those assignments" act ntelligence cycle nformation from accomplish their as a key success nternal sources T supported CI Finding critically ool for the full processing but Barnea (2014) who need it to Barnea, 2014, existing academic accessing the external and effective and actor for CI allows more and making ntelligence ntelligence procedures Internal generated efficient p.105Generate and use needs identified CI at all relevant central and local from findings Across phase modifcation channelling of organisational dissemination generation, n emerging markets rather seem an IT tool Optimize levels and seem to be a reason to rely rather allow understanding the markets. lecentral units are required to be to bridge cultural inacceptance of Qualitative research approaches quantitave survey designs in (for emerging markets proposed asexample in Arabian countries or representing a population suited knowledge creation and sharing requently a barrier for an open personal contact) based (Tao Missing or lacking reliability of statistics in emerging markets members, analysts,...) \Rightarrow really n markets were the number of experts (customers, association oractises between central and To overcome the challenge of organisational structures are Conclusion from the Interpretation and experts is not large enough on direct contact to market acking market insights researcher established, however and timel exchange. or survey design). Finding critically assessed needs identified against existing academic Zafar, 1999) suitable for EM. neadquarter (Lasserre, 1993; intelligence to be well linked and Prescott, 2000; Adidam, chijo and Kohlbacher, 2008; Banerjee and Shukla, 2012) quantitative approaches to to firms' regional/ central than secondary data based ntelligence insight Erickson, 2012): Decentral Du Toit and Muller, 2004; Lasserre, 1993; Wee and planning (Rothberg and Rather qualitative than success factor (Tao and Rather primary source perspectives Dispersed distribution research approaches Prescott, 2000). Hoppe, 2013). Single phase modifcation from findings primary source generation and sage between lecentral firm 'it-to-market 'it-to-market central and approaches qualitative esearch **3alanced** units ases CI Cycle Collect Single Phase phase Phase Plan

,		Finding critically		Across phase	Finding	
Single CI Cycle Phase	Single phase modifcation needs identified from findings		Interpretation and Conclusion modification needs from the researcher findings	modification needs identified from findings	critically assessed against	Interpretation and Conclusion from the researcher
	Proactive use of data triangulation approaches	Triangulation of different sources to increase reliability and insight depth (Tao and Prescott, 2000).	Different sources in emerging markets are suggested to be required to overcome lacking completeness, accuracy and reliability of secondary data; however taking also in consideration that opinions of	Prepare analysts for the specialisation degree and an extensions of the analysts task, product and		Specialisation of analysts along emerging market relevant criteria (countries, segments,) can potentially increase intelligence effectiveness and efficiency by overcoming complexity,
phase	Analyze against a validity/ uncertainty result scale for transparent communication	" TAR" framework suggested: Timeliness, Accuracy and Reliability of intelligence (Tao and Prescott, 2000, p.74).	Intelligence users which are mainly experienced in developed market intelligence might be over- confident when accessing intelligence results of emerging markets without a proactive stated reliability judgement.	Optimize actionability of CI activities	The organisational conversion capability at the end of intelligence cycle suggested as key to	organisational Actionability of intelligence conversion as result of analysis is end of which is a cross phase intelligence procedure of the CI cycle. cycle suggested as key to
	Presentation of developed vs. emerging market deviations		Demanded for cross-emerging/ developed or cross-segment market comparison point to the need for to developed markets contextualised support for understanding			
	Sharing of cross-country or cross-segment insights	ŀ	However, it is questionable whether this contrasting presentation style is a long-term solution in a globalised world. Increasing emerging market			
	Higher degree of analyst involvement in decision making	Organisational activity integration of CI in decision making (Tao and Prescott, 2000; Du Toit and Müller, 2004; Ichijo and Kohlbacher, 2008).	Integratiing CI analysts in decision making sounds promising to increase informed decisions, however it binds additional capacities and demands for different capabilities.			