



Coopetition: A vehicle for business model distinctiveness

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ABSTRACT

The increasing environmental turbulence of today calls for a new era of coopetition research, particularly in the context of evolving business models through alliances with other firms. Collaborating with competitors—firms operating in the same markets—can generate innovative approaches to business model change. Our empirical study, based on a multi-sector survey of 302 dyadic R&D alliances, combined with longitudinal data from 2010 to 2019, reveals that market overlap between partnering firms follows an inverted U-shaped relationship with business model change, which we interpret as new value configurations. Our finding implies that firms with moderate market overlap are best positioned to drive business model change. The success of this relationship depends heavily on whether the firms have collaborated before or plan to continue their partnership in the future. Furthermore, we find that, over time, the business models of these firms tend to diverge, leading to greater (relative) distinctiveness at the firm level. Our insights open up new directions for coopetition research, suggesting that by focusing on distinctiveness, firms may enhance their resilience and success in turbulent environments.

1. Introduction

Coopetition as the co-presence of collaboration and competition (Bengtsson & Kock, 2000) has attracted significant research interest over the past two decades (Crick, Friske, & Morgan, 2024). The phenomenon has been mainly analyzed by the resource based view, relational view, and transaction cost theory (Gernsheimer, Kanbach, & Gast, 2021). Given the Covid-19 pandemic and the new era of global disorder (Crick, Crick, & Chaudhry, 2023; Luo, 2024; Zheng, Wechtler, Heyden, & Bouncken, 2024), it seems that firms need to pay more attention to changing their business models to align with environmental turbulence and to develop new value configurations. To master these turbulent environments, firms need to be more than just market oriented (Crick & Crick, 2020; Crick, Karami, & Crick, 2022) and may involve competitors in their business model changes (Ritala & Sainio, 2014; Sanchita & Gupta, 2023), such as in the development of novel value creation and capture models (Bouncken, Fredrich, Ritala, & Kraus, 2020; Fredrich, Bouncken, & Tiberius, 2022). Such business model changes among coopetitors can occur as novel value configurations (NVCs) by skipping, adding, or replacing existing value stages (Stabell & Fjeldstad, 1998). These business model changes may increase the cooping firms' distinctiveness defined as the degree to which firms are perceived by

their audiences as different and unique (Täuscher & Laudien, 2017). Yet, the involvement of competitors in business model changes may entail risks for the firms connected in this type of arrangements (Crick & Crick, 2021).

Previous research has shown that if firms operate in overlapping markets, where some percentage of a firm's sales is generated in a market space also served by its partner, the appropriability risks increase in these coopetition arrangements (Kale, Singh, & Perlmutter, 2000; Ritala & Hurmelinna-Laukkanen, 2013). Still, previous research also indicated that market overlap between coopetitors can improve breakthrough innovation (Yan, Dong, & Faems, 2020). In general, product innovation may serve as a trigger for new business models that have become a major topic of today (Hock-Doepgen, Heaton, Clauss, & Block, 2024) and for coopetition arrangements (Yadav, Kumar, & Malik, 2022). At the same time, competitive dynamics were assumed to trigger business model change (Lanzolla & Markides, 2021; Snihur & Markman, 2023).

As such, there is a dilemma: On the one hand, market overlap increases risks in coopetition. On the other hand, it supports novel solutions in coopetition that may permit greater distinctiveness of the involved firms in the market (Täuscher, Bouncken, & Pesch, 2021). While the predominantly qualitative literature has made some

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interesting advancements regarding R&D alliances between coopetitors and their business model changes (Velu, 2016), it has not yet reached the point of understanding the role played by market overlap in shaping the underpinnings of this relationship and if firms' business models converge over time or become more distinctive. Accordingly, our research pursues the objective to provide a better understanding of how market overlap among firms influences the (1) *degree* of business model change (via NVCs) and the (2) *relative direction* of business model change (via converging or diverging business models).

Our study addresses this objective by following the attention-based view (ABV). There are several reasons for choosing this theoretical lens, which has been largely overlooked in coopetition studies but may stimulate a new era of coopetition research. Specifically, the ABV has gained relevance for the study of matters that demand decision-makers attention, such as risky decisions, strategic alliances, firm change, and business model changes (Ocasio, 1997; Ocasio & Joseph, 2005), especially under environmental turbulence (Crick et al., 2024). Following the ABV logic, alliances can increase and focus firms' attention, which is bounded (Maula, Keil, & Zahra, 2013; Ocasio, 1997). Hence, firms are restricted in their capacity to register and digest multifaceted information. Our core assumption is that greater attention may stimulate business model change.

We test our model using primary, secondary, and time-lagged data from $N = 302$ dyadic R&D alliances ($N = 604$ firms). Our findings indicate that market overlap exhibits an inverted *U*-shaped relationship with NVCs. NVCs become most likely when allying firms share a 40 % market overlap with their partner. Hence, we reveal that "balanced" market overlap stimulates the emergence of new business models. More precisely, NVCs will increase the distinctiveness of firms' relative business models. Furthermore, our findings specify that the maximum of the inverted *U*-shaped relationship shifts towards higher market overlap levels when firms have joint history as in repeated ties. Also, the expectation of the firms that the arrangement will proceed (as in anticipated future ties) will steepen the curve. Accordingly, it seems that attention to not proceeded coopetition arrangements helps to achieve NVCs and by that realize more distinctive relative business models.

The current study contributes to a new era of coopetition research concerning how to deal with environmental turbulence in different ways (Crick et al., 2023; Crick et al., 2024; Klimas, Czakon, & Fredrich, 2022; Yadav et al., 2022). First, we combine the ABV with organizational distinctiveness theory as a new theoretical lens for coopetition research (Zhao, Fisher, Lounsbury, & Miller, 2017). Our findings stress that greater attention to temporary and non-repeated collaborations might activate finding NVCs. Previously, non-repeated or new ties were mainly seen as adding risk to alliances and to coopetition in particular (Bouncken, Clauß, & Fredrich, 2016; Bouncken, Fredrich, Ritala, & Kraus, 2018; Gulati, 1995; Roijakkars, Hagedoorn, & van Kranenburg, 2005). Counter to that, we accentuate that those partners may add greater novelty for new value configurations. Furthermore, we bring more understanding to research on business model innovation and change (Hock-Doepgen et al., 2024; Spieth, Breitenmoser, & Röth, 2023). This research has been still only rudimentarily interested in alliances and competition and has concentrated on the firm level (Bouncken & Fredrich, 2016; Ritala & Sainio, 2014). The increasing environmental turbulence today calls for the development of distinctive business models between firms in global coopetition (Crick et al., 2023; Crick et al., 2024; Luo, 2024).

2. Theoretical background

The attention-based view (ABV) assumes that attention available for the "noticing, encoding, interpreting, and focusing of time and effort" (Ocasio, 2011, p. 1287) is limited (Ocasio, 1997). Some issues, tasks, or domains attract more attention than others (Cho & Hambrick, 2006; Tuggle, Sirmon, Reutzler, & Bierman, 2010). Insufficient attention might lead to rejecting otherwise relevant alternatives (Durand, 2003),

whereas more attention can lead to higher-quality decisions and better performance (Vuori & Huy, 2015). The ABV argues that similarities in "homophilous relationships" (Maula et al., 2013, p. 927), hence of similar firms operating in same markets, can enhance understanding between firms, raise attention, and improve performance. For example, invention in R&D alliances depends on the level of market overlap (Runge, Schwens, & Schulz, 2022). However, such similarities also include high risks related to knowledge exchanges and appropriation at the partner's expense (Reagans, 2010). Accordingly, relationships between firms in same markets might increase their attention and better allow dealing with today's environmental turbulence.

The co-presence of collaboration and competition has been labeled "coopetition" (Bengtsson & Kock, 2000; Brandenburger & Nalebuff, 1996). In coopetition, value creation underlies strong dynamics of value inputs and value captures due to diverging interests, bargaining, conflicts, and relational instabilities (Das & Teng, 2000). Several studies have shown that knowledge exchange in coopetition has risks and benefits (Bouncken, Gast, Kraus, & Bogers, 2015), especially in R&D alliances between competitors (Runge et al., 2022). When facing competitive overlap, firms need to prevent knowledge leakage (Inkpen, 2000). Moreover, they can reach better innovation outcomes if they protect their core knowledge (Ritala & Hurmelinna-Laukkanen, 2013). Competitive overlap is higher when firms compete for the same customers, and their products are substitutes (Chen, 1996). The higher the coopetition intensity, the greater the opportunities for utilizing coopetition-specific common market understanding, scale advantages, and technological developments.

Especially the turbulences due to the Covid-19 pandemic and the war in Europe have demonstrated how important it is for firms to change their business models rapidly. A business model (BM) is "the rationale of how an organization creates, delivers, and captures value" (Osterwalder & Pigneur, 2010, p. 14). Change in business models may consist of new structures and processes that enable new ways of value creation, value delivery, and value capture (Chesbrough, 2007). Coopetition can complement changing firms' business models (Bouncken & Fredrich, 2016). Business model changes may be triggered by collaborative sensemaking, resourcing, interacting, learning-by-doing, formalizing, and adjusting (Nailer & Buttriss, 2020). We define collaborative business model changes inclusively as *any* relative changes to firms' business models over time. Specifically, we label these business model changes as (1) *novel value configurations* (Bouncken & Fredrich, 2016; Stabell & Fjeldstad, 1998) and theorize about their underlying dyadic business model similarity over time. Increased business model similarity implies *business model convergence*, while decreased similarity signals *business model divergence* (Fredrich et al., 2022). In coopetition, competitive dynamics may trigger business model change (Snihur & Markman, 2023).

With the growing importance of environmental turbulence that comes with changing value chains, disrupted supply chains, or new digital business models, managers need to pay close attention to business model change and how other firms react to these changes. Following the ABV, business model change can be triggered by collaboration among competitors in the same markets. Business model changes require managerial attention to effectively handle coordination tasks, manage expectations, and maintain consistent efforts (Ocasio & Joseph, 2018; Osiyevskyy & Dewald, 2015; Velu, 2016). Involving competitors in the business model change can help firms navigate uncertain environments (Ritala & Sainio, 2014). As such, the optimal level of market overlap between firms remains unclear for collaborative business model changes to emerge as NVCs (Bouncken & Fredrich, 2016; Stabell & Fjeldstad, 1998). Presumably, market overlap may support NVCs as defined by skipping, adding, or replacing existing value stages. Fig. 1 outlines our research model, which we will explain in detail.

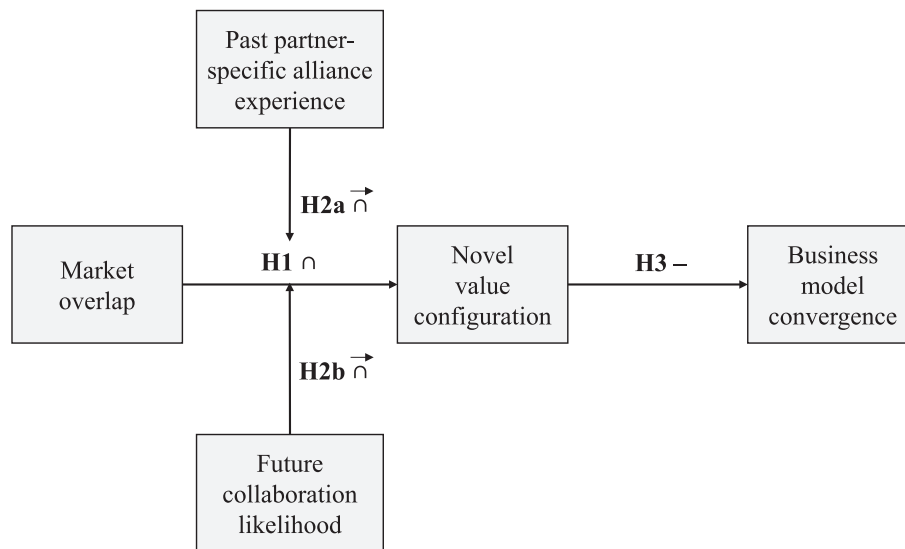


Fig. 1. Research model.

3. Hypotheses

3.1. Market overlap and novel value configurations

Initially, with more market overlap among allying firms (Gnyawali, He, & Madhavan, 2006; Gnyawali & Park, 2011; Rai, 2016), managers' mental models and attention patterns exhibit greater similarity (Hoffman & Ocasio, 2001; Surroca, Prior, & Tribó Giné, 2014). Similarities ease the transfer of information and shape common information bases, allowing more detailed information to be processed (Lubatkin, Florin, & Lane, 2001; Maula et al., 2013). Greater and more detailed information is crucial under environmental turbulence. Thus, greater market overlap facilitates managerial attention to and understanding of the alliance partner's actions and resources relevant to its operations in their common markets.

Yet, the risk of appropriating value at the other's expense also gradually increases (Ritala & Hurmelinna-Laukkanen, 2013) and sets risks that are particularly hard to control in turbulent times. While these risks are tremendous in product innovation alliances, their significance might differ for alliances that pursue NVCs. Greater access to knowledge increases the accuracy of assessments made by the focal firm of its alliance partner's relative competencies in executing different activity sets. The accuracy of such evaluations, in turn, increases the likelihood of the focal firm knowing where and how reliance on its alliance partner's resources and value processes might improve the value configuration at the alliance level. Moreover, greater market overlap increases the likelihood that partner firms possess complementary resources and configure them to create value (Yan et al., 2020).

The degree to which a firm's resources are similar to those of its alliance partner positively affects the ease with which they are potentially transferred between and assimilated by the partners for changing business models (Velu, 2016). The closely matching expertise of managers stemming from initial increases in market overlap fosters improved and more accurate information exchange to create value from novel configurations (Haas, Criscuolo, & George, 2015). Managers see more detail and devote more effort and time to in-depth problem solutions in this context. Similar attention patterns improve understanding of resource profiles and the creation of NVCs. Thus, when market overlap initially increases, mutual understanding of the partner's resources, ambitions, structures, and processes also increases, as does the potential for finding new activities, changing activities, and orchestrating new activity architectures (Möller & Halinen, 2017; Runge et al., 2022).

Nonetheless, while similar attention patterns facilitate the exchange of information and resources among allying firms (Joseph & Wilson, 2018), they entail risks of unintended knowledge leakage. The risks of rivalry, asymmetric value creation, and opportunistic behavior are severe when alliances involve uncertainty and innovation (Bouncken, Fredrich, Ritala, & Kraus, 2020; Joseph & Wilson, 2018). The higher perception of risk keeps decision-makers alert; however, market overlap might reach a threshold beyond which negative issues, such as cognitive framing, blindness, inertia, and myopic thinking, captivate the greater part of managerial attention (Raffaelli, Glynn, & Tushman, 2019; Withers, Ireland, Miller, Harrison, & Boss, 2018). For example, when market overlap is exceptionally high, managers might use the same intra-industry sources of information and knowledge that might restrict creativity to inspire NVCs as managers focus on routine business issues (Maula et al., 2013). The lack of innovative thought among firms serving the same or highly overlapping markets reinforces prior, more standard, or less novel value configurations at the alliance level. Moreover, complete or very high market overlap creates negative tensions between firms that impede innovative efforts (Bouncken, Fredrich, & Kraus, 2020; Tidström, 2014). In such cases, inter-partner rivalry and the risks of knowledge leakage can become excessive. Managers might be hesitant to contribute time and resources or focus on defensive strategies that might reduce future market potential. Thus, value configurations tend to be less novel in alliances of firms serving highly overlapping markets. Even if firms in the same or overlapping markets find it easier to communicate, opportunism and value capture uncertainty risks might be too high for NVCs to emerge.

In short, increasing levels of market overlap can facilitate NVCs up to a threshold level beyond which its effects decline. Very high market overlap entails less diverse knowledge bases between allying firms and affords fewer learning opportunities while introducing high opportunism risks. Medium levels of market overlap might best support NVCs.

Hypothesis H1. *Market overlap exhibits an inverted U-shaped relationship with novel value configurations in dyadic alliances. Low and high levels of market overlap are associated with lower levels of novelty, whereas moderate levels of market overlap are associated with higher levels of novel value configurations.*

3.2. Repeated or anticipated future ties among firms

Repeated and anticipated future ties influence alliance outcomes (Gulati, Lavie, & Singh, 2009; Weber, Bauke, & Raibulet, 2016). Such relations can promote social processes, partner-specific absorptive

capacity, and learning (Dyer & Hatch, 2006; Dyer & Singh, 1998). Additionally, knowledge exchanges in repeated and anticipated future ties help firms improve paying attention to their partner-specific understanding and discover further complementarities (Weber et al., 2016). Still, studies have shown that such ties can reduce alliance performance (Goerzen, 2007; Sampson, 2007). Following the ABV, intense and long-term interactions can induce partner “blindness,” escalating commitments, and ignorance of external information (Szulanski, Cappetta, & Jensen, 2004). Repeated relationships often become more redundant in their knowledge and activities over time (Goerzen, 2007) and are less apt to result in optimal or innovative solutions (Jeffries & Reed, 2000). Furthermore, relational inertia resulting from long-term interactions reduces an alliance’s adaptability to change (Thorgren & Wincent, 2011). In addition, repeated and anticipated future ties are less likely to trigger questioning, scrutiny, validation, or research (Szulanski et al., 2004; Zahra, Yavuz, & Ucbasaran, 2006), as social bonds can discourage challenging shared beliefs that lead to underperforming alliances (Young-Ybarra & Wiersema, 1999). Moreover, decision-makers might try to disguise underperforming alliances so that change is less likely (Patzelt, Lechner, & Klaukien, 2011). In short, the effects of repeated and anticipated future ties on alliance outcomes are far from clear. The ABV offers important insights into the matter, especially when firms operate in turbulent environments.

As mentioned, attention is contextually and socially embedded (Ocasio, 1997). Attention theory assumes that personal exchanges can support managerial attention and induce new thoughts, changes, and novel outcomes (Barnett, 2008). High levels of attention can promote the discovery and exploitation of complementarities for NVCs (Amit & Han, 2017). When the attention of managers remains high, their similarities associated with higher market overlap might have a less limiting effect on the novelty of the value configuration and instead play out as a facilitator for finding complementarities. Repeated or anticipated ties might increase similarities and thus inertia but also reduce risks among firms. Specifically, attention that triggers novelty remains high when a specific risk is accorded to the partner’s behavior, particularly in cases of higher market overlap. The risks of market overlap include reinforcement of existing understandings and inertia (Li & Rowley, 2002). In contrast, repeated or anticipated ties reduce perceived risk. Repeated ties generate more understanding, trust, and mutuality, which drives the search for innovative joint results. Thus, when ties are repeated and expected to continue, firms become more proficient at finding NVCs.

However, when market overlap increases, firms tend to monitor the alliance closely, and underperforming alliances are less likely to fly under the radar. Correspondingly, excessive trust becomes less of a threat. Alliances between firms with higher market overlap thus result in increased levels of attention as manifested through questioning, scrutiny, validation, and research. The combination of higher market overlap and repeated and anticipated future ties may foster complementarity (Hughes, Morgan, Ireland, & Hughes, 2014). Notably, repeated and anticipated future ties under high market overlap can encourage the ongoing search for complementarities, resulting in NVCs. Moreover, these ties can build commitment, which increases attention and can motivate firms to invest ideas and resources in the alliance (Bruyaka, Philippe, & Castañer, 2018) such that NVCs become more likely. Greater commitment may diminish the adverse effects of high risk when market overlap is high. Firms that intend to ally in the future might avoid engaging in opportunistic actions because they do not want to damage the relationship. Hence, repeated ties, or those with a high likelihood of being continued, focus on increasing complementarities (Chung, Singh, & Lee, 2000). However, under high market overlap, allying firms have highly similar knowledge bases and, as such, maximum opportunism and rivalry risk (Cui, Yang, & Vertinsky, 2018). Thus, there will be a turning point shift to the right of the optimum level of market overlap for allying firms that pay close attention to each other in the past or expect to do so in the future.

Summarizing, repeated ties and anticipated future ties better allow

for the creation of NVCs under higher market overlap than newly established relationships, in which managers must learn how to use their overlap and dissimilarities best while dealing with relational uncertainty. There are likely declining returns for very high or complete market overlap because similarities will discourage further novelty. Repeated and anticipated future ties are more likely to inform efforts for co-specialization and NVCs. In turn, risk awareness reduces opportunistic behavior.

Hypothesis H2a. *A firm’s prior partner-specific alliance experience moderates the inverted U-shaped relationship between market overlap and novel value configurations in dyadic alliances. Specifically, repeated ties with the focal partner will shift the optimal level to the right.*

Hypothesis H2b. *A firm’s likelihood of future collaboration moderates the inverted U-shaped relationship between market overlap and novel value configurations in dyadic alliances. Specifically, future ties with the focal partner will shift the optimal level to the right.*

3.3. Divergence—relative distinctiveness of firms’ business models in the dyad

Business models can change when firms form alliances, especially when they cooperate. Yet, the direction of these business model changes is not clear. One set of arguments points towards the convergence of business models. Instead, from attention-based reasoning and seeking distinctiveness, firms might develop divergent business models.

Following the convergence arguments, firms become more familiar with each other and learn common practices throughout the alliance (Duysters, Lavie, Sabidussi, & Stettner, 2019). Firms’ business models might converge by mimicking and imitating each other’s practices and activities. Convergence entails the process and outcomes whereby boundaries diminish over time, such as those related to technology, knowledge, industry, and value propositions (Basole, Park, & Barnett, 2015). Similar knowledge bases, activities, and technical proximity facilitate convergence, which depends on firms’ motivation and learning (Duysters et al., 2019) and improves the sharing and synthesis of information, resulting in similar interpretations (Maitlis & Christianson, 2014). Comparable environments and similar activities (i.e., higher market overlap and joint value configurations) may draw managerial attention to common problems and issues and, in turn, increase the convergence of the involved firms’ business models. Convergence becomes more likely when firms do not follow deliberate and top-down change processes (Duysters et al., 2019).

In contrast, we assume that managers pay more attention to positioning their business models differently from their partner to reduce opportunism risks, imitation, and increase the firm’s distinctiveness (Suddaby, Bitektine, & Haack, 2017). Business model change demands deliberate decisions. When establishing an alliance in overlapping markets, firms consider changing their business model to become more different from their partner. Firms might use NVCs to consciously, deliberately, and strategically develop a more distinctive firm-level business model for global competition (Tallman, Luo, & Buckley, 2018). Over time, firms understand partner-specific complementarities and distinctiveness better while becoming aware that their business models’ convergence holds risks and might reduce complementarities in the long run. Firms may also concentrate on distinctiveness and departing from their partners by developing divergent business models, especially under environmental turbulence and global disorder (Luo, 2024). In light of the allying firms’ respective value contributions, the partners might aim to establish more relatively distinct firm-level business models consisting of unique firm-specific configurations of value creation activities, value capture activities, and customer-focused value propositions (Duysters et al., 2019; Tallman et al., 2018). In short, we propose that the attention and strategic decision-making towards distinctive business models will bring about that NVCs at the alliance level facilitate the relative divergence of allying firms’ business models.

Hypothesis H3. *Novel value configurations in dyadic alliances are negatively associated with the convergence of allying firms' business models.*

4. Methodology

4.1. Sample

The multi-sector population of this study consists of 35,553 firms from 94 countries that participated in any of six independent international trade fairs hosted in Germany during 2015–2017. Following a key-informant approach, we invited representatives from top and middle management to participate in a survey based on a paper-and-pencil questionnaire or tablet and collected 2348 questionnaires. Forty-seven percent of respondents did not disclose their alliance partner's firm name in the first data collection stage (2015–2017 = t). After researching missing secondary data, we personally (re)invited initial participants to fill out a short questionnaire on the same alliance in the following year (2016–2018 = $t + 1$). In this second data collection stage, we gathered a total of 768 matching questionnaires with lagged dependent information. After excluding invalid cases, multi-partner alliances, non-R&D alliances, cases in which the respondent was not sufficiently knowledgeable of the initial alliance, and cases with missing model variables, 450 dyadic R&D alliances remained. We screened their 900 web pages for information about their (dyadic) *business model convergence* during $t + 2$ (2017–2019). Dyads with incomplete history logs were excluded. Our final sample consists of 302 dyadic R&D alliances with three temporal measurement points ($t + 2 = 13$ % of raw cases during t). We modeled the selection process at two data collection stages to control for potential selection biases (Clougherty, Duso, & Muck, 2016). We further compared descriptive statistics of selected industry-, firm-, and alliance-level characteristics in the world's largest alliance database, Securities Data Company SDC Platinum (Schilling, 2009), with our primary data. The overall industry distribution is very similar ($Blau_N = 0.93$ for SDC vs. 0.92 for our data), with a greater tendency for co-competition (i.e., collaboration between competitors with identical 4-digit SIC codes: 19.9 % for SDC vs. 13.1 % for our data), primarily due to the greater representation of big firms in the SDC data (23 % SMEs vs. 90 % SMEs in our final sample).

On average, the responding firms in our final sample achieved a 19 % return on equity (median = 15 %), with annual sales of €113 M (median = €9 M). The focal alliances contributed 15 % (median = 10 %) to the responding firms' annual sales. Twenty-seven percent (median = 18 %) of the responding firms' overall annual sales originated from markets also served by their dyadic alliance partners.

4.2. Measures

The first stage-dependent measure of *novel value configurations* (NVCs) was measured during $t + 1$ at the dyadic alliance level. We modified Bouncken and Fredrich's (2016) Likert-type scale to assess "value configurations" by asking respondents how much the focal alliance contributed to (1) "innovative configurations" (std. loading during $t + 1$: $\lambda = 0.67, p < .001$), (2) "new configurations allowing us to skip one or more stages in the value chain" ($\lambda = 0.83, p < .001$), (3) "...to replace one or more stages in the value chain" ($\lambda = 0.87, p < .001$), and (4) "...to add one or more stages to the value chain" ($\lambda = 0.75, p < .001$), anchored at 1 = "no value at all" and 5 = "very significant value." Confirmatory factor analysis revealed a reliable and valid measure (Composite Reliability [CR] = 0.86, Average Variance Extracted [AVE] = 0.61, Fornell-Larcker [FL] criterion = 0.13, Root Mean Square Error of Approximation [RMSEA] = 0.058, Standardized Root Mean Square Residual [SRMR] = 0.027, Comparative Fit Index [CFI] = 0.991, Tucker-Lewis Index [TLI] = 0.973; cf. Hair, Black, Babin, Anderson, & Tatham, 2010).

For our newly developed second-stage dependent measure of dyadic business model similarity (BMS), we build on the prominent nine-dimensional *business model canvas* by Osterwalder and Pigneur (2010).

We extend their firm-level BM categorization to the alliance level—specifically, the dyad level—and apply the logic of BMs as linguistic devices or narratives that affect different stakeholder groups (Täuscher, 2018). Therefore, we used 48 binary indicators from their seminal book and screened 900 online presences (i.e., firm webpages of 450 identified dyadic alliances) for any information fitting these indicators. We added a 49th indicator to the subdimension of key partnerships if one (or both) firm(s) disclosed the focal alliance online. Webpages are updated irregularly; thus, it is difficult to know precisely when information became publicly available. Hence, we used an internet archive (Wayback Machine: <https://archive.org/web/>) in conjunction with Google Translate (if the English version was unavailable) and retrieved all information in 2020 that had already been publicly available during t and $t + 2$ to calculate *marginal* dyadic business model similarity, which we interpret as dyadic *business model convergence* for increasing similarity or *divergence* for decreasing similarity.

We randomly assigned 10 % of all dyads twice (overall $N = 495$ dyads) to a group of 10 instructed research assistants who independently coded the web pages according to multiple examples provided for all 49 indicators (see Table 1). An ANOVA revealed no significant inter-rater differences. We calculated a "substantial" inter-rater reliability (Cohen's kappa $\kappa > 0.60$; Landis & Koch, 1977) based on 4410 codes for 45 dyads ($\kappa = 0.61, p < .001$). Dyads with incomplete history logs were excluded. To avoid severe selection biases, we applied a second-stage inverse Mills ratio as a control variable (Certo, Busenbark, Woo, & Semadeni, 2016). Additionally, we captured the total *number of words* on all web pages to normalize for size-related dynamics. Table 1 summarizes all indicators and raw frequencies for our final sample of $N = 302$ dyads that allowed us to calculate Jaccard's similarity scores ($J = |A \cap B| / |A \cup B|$) for binary data (Choi, Cha, & Tappert, 2010)—about a quarter of the BMS-related content remained stable over the two years ($r = 0.48, p < .001$). On average, BMS dropped by 11 % ($BMS_t = 37$ %, $BMS_{t+2} = 26$ %), even though the proportion of maximum dissimilarity (i.e., $J = 0$ %) also dropped ($t = 14$ %, $t + 2 = 4$ %). Both distributions yielded desirable psychometric properties (during t : min = 0 %, median = 38 %, max = 100 %, skewness $S = 0.20$, kurtosis $K = -0.04$; during $t + 2$: min = 0 %, median = 26 %, max = 85 %, $S = 0.81, K = 2.06$, well below $S < | \pm 2 |$ and $K < | \pm 7 |$; West, Finch, & Curran, 1995).

For our predictor variable *market overlap* during t , we asked respondents to disclose the percentage of firm-level sales in markets also served by their dyadic alliance partner. This quantitative measure implies asymmetric competitive dynamics (firm A's overlap with firm B \neq firm B's overlap with firm A; see Chen, 1996) and shows a reduced natural skew after log-standardization (min = -2.08 , mean = 0.00, median = 0.17, max = 1.46, $S = -0.63, K = -0.39$). We established two interdependent temporal contingencies of repeated and anticipated future ties during t : (1) prior ties with this dyadic partner accumulating in *partner-specific alliance experience* (47 % of respondents indicated repeated ties, while 53 % had no previous alliances with this partner); and (2) future *collaboration likelihood*, which measures attribution of future attention to the dyadic alliance using an ordinal 5-point indicator for "How likely is it that your firm will collaborate with this partner in the future?" (11.9 % indicated " ≤ 20 %," 10.6 % "21–40 %," 11.3 % "41–60 %," 21.5 % "61–80 %," and 44.7 % chose " > 80 %"). This forward-looking measure ("shadow of the future"; Poppo, Zhou, & Ryu, 2008) demonstrates external validity by predicting *alliance termination* before our second survey during $t + 1$ using logistic regression ($\beta = -0.47, p < .001$). We control for additional temporal relationship lifecycle characteristics (Jap & Ganesan, 2000), such as *early* and *late relationship stages* (the reference model represents middle stages) and overall *relationship duration* by the log-number of months since the firms started doing business with each other.

We included several firm- and alliance-level controls. The purposes and outcomes of R&D alliances are heterogeneous (e.g., for link or scale alliances; Dussauge, Garrette, & Mitchell, 2000), and NVCs might not be the primary goal of the focal R&D alliance. Thus, we control the number

Table 1
Measurement of the dyadic business model convergence.

Dimension	Indicator description	Frequencies in t			Frequencies in t + 2		
		A	B	A ∩ B	A	B	A ∩ B
Customer segments: <i>For whom business creates value?</i>	1. <i>Mass market</i> : High standardization, e.g., consumer goods.	10 %	12 %	1 %	13 %	14 %	2 %
	2. <i>Niche</i> : Small markets serving customer-tailored products.	41 %	39 %	23 %	42 %	41 %	25 %
	3. <i>Segmented</i> : Segmentation of customer groups, e.g., banks.	24 %	23 %	8 %	29 %	28 %	16 %
	4. <i>Diversified</i> : Mix of all above for B2B & B2C, e.g., Amazon.	18 %	19 %	8 %	30 %	29 %	16 %
	5. <i>Multi-platform</i> : Various inter-dependent platforms.	2 %	2 %	0 %	5 %	5 %	1 %
Value propositions: <i>How is value created for segmented customers?</i>	6. <i>Cost reduction</i> : E.g., outsourcing of cost-intensive areas.	13 %	12 %	3 %	11 %	10 %	4 %
	7. <i>Risk reduction</i> : E.g., granting guarantees of repair services.	17 %	13 %	3 %	21 %	15 %	5 %
	8. <i>Price</i> : Same value at a lower price, e.g., airlines like EasyJet.	12 %	13 %	2 %	14 %	18 %	4 %
	9. <i>Convenience/usability</i> : Focus on comfort, e.g., iTunes.	21 %	19 %	5 %	21 %	22 %	8 %
	10. <i>Performance</i> : High-end products, e.g., computers.	73 %	71 %	55 %	75 %	72 %	58 %
Channels: <i>Which channels reach customer segments?</i>	11. <i>Accessibility</i> : Highly specialized services, e.g., private jets rent.	6 %	4 %	0 %	23 %	22 %	16 %
	12. <i>Design</i> : E.g., smartphones, sports cars, fashion clothes.	9 %	10 %	2 %	10 %	10 %	2 %
	13. <i>Customization</i> : E.g., customized products with various features.	50 %	41 %	24 %	46 %	43 %	25 %
	14. <i>Sales force</i> : Own sales employees, e.g., account managers.	56 %	59 %	40 %	54 %	50 %	39 %
	15. <i>Web sales</i> : E.g., automated online order or hotlines.	11 %	16 %	2 %	23 %	25 %	12 %
Customer relationships: <i>What type of relationship customer segments expect?</i>	16. <i>Own physical retail stores</i> : E.g., Adidas stores.	4 %	5 %	0 %	5 %	6 %	0 %
	17. <i>Partner stores</i> : E.g., Aldi offering food by different suppliers.	22 %	18 %	6 %	21 %	18 %	6 %
	18. <i>Wholesaler</i> : No own production, only distribution of products.	4 %	5 %	1 %	9 %	9 %	2 %
	19. <i>Personal assistance</i> : Focus on human interaction.	86 %	84 %	74 %	83 %	81 %	72 %
	20. <i>Self-service</i> : No direct contact, e.g., ATMs, vending machines.	11 %	9 %	2 %	23 %	18 %	12 %
Revenue streams: <i>Which value capture mechanisms?</i>	21. <i>Automated services</i> : E.g., automatic purchase recommendation.	2 %	3 %	0 %	3 %	4 %	1 %
	22. <i>Communities</i> : E.g., forums and platforms for customers.	3 %	6 %	0 %	3 %	7 %	1 %
	23. <i>Co-creation</i> : E.g., beta software releases for customer feedback.	7 %	8 %	1 %	7 %	9 %	2 %
	24. <i>Asset sale</i> : E.g., physical items, hardware, consumer goods.	54 %	49 %	32 %	52 %	45 %	34 %
	25. <i>Usage fee</i> : E.g., mobile phone service providers per minute.	1 %	1 %	0 %	13 %	11 %	7 %
Key resources: <i>What resources does value proposition require?</i>	26. <i>Subscription fee</i> : Fixed usage fee, e.g., monthly flat rates.	1 %	1 %	0 %	1 %	2 %	0 %
	27. <i>Lending/renting/leasing</i> : E.g., car leasing.	0 %	0 %	0 %	0 %	1 %	0 %
	28. <i>Licensing</i> : Royalties, e.g., for usage of software solutions.	1 %	1 %	0 %	1 %	1 %	0 %
	29. <i>Brokerage fee</i> : Transaction-based fees, e.g., cash withdrawal.	0 %	0 %	0 %	0 %	0 %	0 %
	30. <i>Advertising</i> : E.g., pop-up windows for third-party advertising.	0 %	0 %	0 %	0 %	0 %	0 %
Key activities: <i>What activities does value proposition require?</i>	31. <i>Fixed price</i> : E.g., by list prices or additional features.	5 %	4 %	1 %	6 %	5 %	1 %
	32. <i>Dynamic price</i> : E.g., by negotiation, real-time, or auction.	9 %	11 %	5 %	13 %	12 %	6 %
	33. <i>Physical</i> : E.g., deposits, IT infrastructure, logistics, etc.	25 %	21 %	10 %	25 %	20 %	10 %
	34. <i>Intellectual</i> : E.g., trademarks, patents, property rights.	73 %	69 %	55 %	79 %	71 %	62 %
	35. <i>Human</i> : E.g., employees in manufacturing industry.	48 %	47 %	26 %	53 %	50 %	34 %
Key partnerships: <i>Who is key partner?</i>	36. <i>Financial</i> : E.g., bank, stock markets, funds, etc.	4 %	6 %	1 %	12 %	12 %	6 %
	37. <i>Production/distribution</i> : E.g., manufacturing industry.	76 %	62 %	49 %	79 %	66 %	57 %
	38. <i>Problem-solving</i> : E.g., consulting, individualized solutions.	27 %	31 %	11 %	42 %	41 %	26 %
	39. <i>Platform/network effects</i> : E.g., eBay, Visa credit cards.	3 %	4 %	0 %	10 %	11 %	3 %
	40. Focal alliance partner disclosed on webpage?	15 %	12 %	5 %	16 %	16 %	7 %
Cost structure: <i>What type of costs?</i>	41. <i>Optimization & economies of scale</i> : E.g., merger & acquisitions.	9 %	10 %	2 %	8 %	9 %	3 %
	42. <i>Acquisition of resources & activities</i> : E.g., in-house consulting.	4 %	3 %	0 %	6 %	5 %	1 %
	43. <i>Reduction of risk & uncertainty</i> : E.g., Blu-ray, Star Alliance.	2 %	2 %	0 %	3 %	3 %	0 %
	44. <i>Cost-driven</i> : Focus on cost leadership, e.g., EasyJet.	10 %	12 %	3 %	11 %	9 %	3 %
	45. <i>Value-driven</i> : Focus on quality, e.g., luxury hotels.	64 %	61 %	44 %	59 %	54 %	43 %
	46. <i>Fixed costs</i> : E.g., salaries, machinery, maintenance.	2 %	2 %	0 %	18 %	18 %	14 %
	47. <i>Variable costs</i> : High volume dependency, e.g., power generators.	10 %	15 %	6 %	7 %	10 %	4 %
	48. <i>Economies of scale</i> : E.g., learning decreases variable costs.	1 %	2 %	0 %	2 %	2 %	0 %
	49. <i>Economies of scope</i> : E.g., merging of redundant activities.	1 %	2 %	0 %	1 %	2 %	0 %

Notes: N = 302 dyadic alliances coded by screening N = 604 webpages for year t & t + 2 using the Wayback Machine in 2020 (<https://archive.org/web/>).

of dyadic linkages as potential sources of NVCs originating at various *innovation stages*, from concept development to market launch (Ahmed & Shepherd, 2010). The tendency to adjust a value configuration is likely to depend on firms' *general alliance experience*. Therefore, we also control for the responding firms' overall number of alliances in the past five years. We further control both firms' *sizes* in terms of the number of employees and *ages* in terms of years since the firms' founding.

As NVCs might result from collaborating firms' technology development (Chesbrough, 2007), we further control for firm-level R&D *intensity* (Hashai & Almor, 2008), *geographical distance* (Hagedoorn, Letterie, & Palm, 2011), and *technological distance* based on applied IPC4-patent classes in the five years before our first stage of data collection. We chose the *symmetric min-complement* technological distance, the only commonly used measure that satisfies the independence axiom (Bar & Leiponen, 2012). We control for both firms' inverse normalized Herfindahl index to account for asymmetric knowledge bases, which captures firm-level *technological diversity* (Duysters et al., 2019). Furthermore, we implement a binary control for *equity*

participation, the dyad representing an *international alliance*, and an industry dummy for *medical devices* as the largest subsample.

4.3. Analysis

We test our hypotheses by applying covariance-based structural equation modeling (CB-SEM) with Mplus 8.8. Specifically, we rely on scaled log-likelihood ratio tests for global improvement of model fit under maximum likelihood robust (MLR) estimation of nested models adjusted for non-normality and non-independence (Muthén & Muthén, 1998–2022). CB-SEM (Kline, 2023) is our method of choice for rigorous theory testing (vs. prediction) because of its ability to (1) assess global fit for multiple endogenous constructs, (2) account for measurement error in observational data with latent constructs, (3) implement residual dependencies for endogeneity testing, and (4) rigorously test for complex mediation effects (such as ours: first-stage moderated instantaneous indirect-only effects).

5. Results

Table 2 shows all bivariate correlations in our final sample, including the squared market overlap and interactions with its moderators, as Haans, Pieters, and He (2016) recommend.

Table 3 presents four nested models, starting with Model A. The partner's firm size and the responding firm's equity participation increase the likelihood of NVC during $t + 1$, whereas relationship duration and late stages reduce this likelihood. We find support for an inverted U -shaped relationship between market overlap during t and NVC during $t + 1$, as postulated in our H1 (Model A: $\beta = -0.16$, $SE = 0.071$, $p = .022$, $f^2 = 0.032$; with $f^2 > 0.02$, $f^2 > 0.15$, and $f^2 > 0.35$, marking "small," "medium," and "large" effect sizes; see Cohen, 1988). The linear-only relationship between market overlap during t and NVC during $t + 1$ was highly significant ($\beta = 0.26$, $SE = 0.070$, $p < .001$, $f^2 = 0.048$); however, the decomposition yields a greater combined effect size ($f^2 = 0.082$) and suggests an optimum level of market overlap for maximum NVC. Fig. 2 illustrates the curvilinear relationship of H1, including 95 % confidence intervals and regions of significance. In short, market overlap below 1 % reduces average levels of NVC during $t + 1$ significantly, improves NVC for market overlaps greater than 15 %, reaches a maximum at 40 %, and becomes insignificant above 50 %.

Negatively significant influences on our second-stage dependent variable of marginal business model similarity may be interpreted as drivers of dyadic business model divergence. Progressing relationship duration, technological distance, and responding firms' technological diversity drive dyadic business model divergence. In H3, we proposed that NVC during $t + 1$ would induce future business model divergence. We find a negative relationship supporting our H3 ($\beta = -0.18$, $SE = 0.064$, $p = .004$, $f^2 = 0.037$).

The next two nested models (B and C) introduce moderations of the first stage of the indirect effect via partner-specific alliance experience and collaboration likelihood separately and jointly in Model D. In Model B, we added two-way interactions of (binary) partner-specific alliance experience with market overlap and squared market overlap, yielding slightly significant global model improvement ($\Delta TRd = 5.52$, $\Delta df = 2$, $p = .063$). However, the variance explanation of NVC during $t + 1$ decreased from 28.9 % to 28.7 %, primarily due to the significance of linear market overlap shifting towards a positively significant linear two-way interaction with partner-specific alliance experience. We postulated a turning point shift to the right in the presence of partner-specific alliance experience, hence repeated ties in H2a. A significant two-way interaction between linear market overlap and partner-specific alliance experience ($\beta_{lin} = 0.18$, $SE = 0.086$, $p = .041$) is necessary but insufficient to show a significant turning point shift. We applied a formula developed by Haans et al. (2016, p. 1187) and calculated a slightly significant turning point shift to the right for partner-specific alliance experience ($p = .094$), supporting our H2a (see Fig. 3).

Fig. 3 demonstrates that the turning point of the inverted U -shaped relationship between market overlap and NVC_{t+1} moves from 10.3 % to 27.5 % when a firm has prior alliance experience with its partner. Notably, the previously significant linear parameter of market overlap is fully moderated by partner-specific alliance experience and becomes insignificant ($\beta_{lin} = 0.08$, $p = .466$). Consequently, both turning points are lower than the previous one at 40 % for the entire sample. Model C focuses on two-way interactions between market overlap and collaboration likelihood. Hypothesis 2b assumed moderation via a turning point shift to the right for continued ties. However, the moderation indicated does not support a turning point shift. Instead, we find a steepening effect (see Fig. 4) of the inverted U -shaped relationship for growing levels of collaboration likelihood ($\beta_{quad} = -0.17$, $SE = 0.080$, $p = .031$, $f^2 = 0.038$), partially rejecting our H2b.

After controlling for these two-way interactions, the previously insignificant direct effect of collaboration likelihood becomes significantly negative ($\beta = -0.17$, $SE = 0.078$, $p = .031$, $f^2 = 0.039$). Notably, the conditionally negative direct influence of collaboration likelihood

pushes the steeper curve downward (= quasi-moderation). Nevertheless, the anticipation of future ties fully moderates the quadratic parameter of market overlap, which becomes insignificant ($\beta_{quad} = -0.09$, $p = .231$). We further calculated the moderator's values at which the inverted U -shape becomes linear and flips (Haans et al., 2016). The mathematical shape-flip point ($Z^* = -0.25$, which corresponds to the cross-over between the third and fourth categories $\hat{=} 60$ % of likelihood) lies within the empirical range of collaboration likelihood (min = -2.76 , max = 1.25), demonstrating the high sensitivity of the inverted U -shape to linearly increasing collaboration likelihood, thereby stressing the importance of H2b.

In our final Model D, the linear and quadratic parameters of market overlap both become insignificant and thereby conditional on our moderators: (1) past partner-specific alliance experience fully explains the significance of the linear parameter, and (2) future collaboration likelihood fully explains the significance of the quadratic parameter of the inverted U -shaped relationship between market overlap and NVC_{t+1} . Our final Model D yields robust findings and explains about one-third of the variance in both dependent variables (NVC_{t+1} : $R^2 = 0.32$, $SE = 0.061$, $p < .001$; BMS_{t+2} : $R^2 = 0.35$, $SE = 0.053$, $p < .001$). Throughout all nested models, the second stage of the indirect effect, our H3, remains significantly negative ($p < .01$).

In summary, the instantaneous indirect effect (Hayes & Preacher, 2010) of quadratic market overlap X^2 during t through NVC during $t + 1$ on dyadic business model convergence \hat{Y} during $t + 2$ is negative for raw market overlap up to 14 % ($p < .05$). Market overlap beyond 14 %, on average, yields no indirect effect. In addition, this negative indirect effect is most significant in the absence of future ties with the same alliance partner, suggesting strong attention-based relational dynamics. Although all postulated individual effects are "small" (Cohen, 1988), we did not expect more significant effects due to institutional pluralism driving the heterogeneity and multi-layered complexity of business model changes and related governance strategies (Ocasio & Radovanovska, 2016). For example, past failure experiences will drive managerial attention, cooptation, and business model innovation (Nyuur, Donbesuur, Owusu-Yirenkyi, Ampong, & Tantawy, 2023). Overall, our combined effect sizes assure meaningful variance explanations in our final Model D ($R^2 > 30$ %).

6. Discussion

The escalating environmental turbulence and recent global crises necessitate firms to develop greater resilience and adapt their business models (Zheng et al., 2024). Collaborating with competitors—referred to as cooptation—offers a potential solution to these challenges and opens the door to a new era of cooptation research. Our study builds on this premise by exploring how firms can change their business models while preserving or enhancing their distinctiveness. Through our empirical analysis, we examined how cooptation, particularly as market overlap within alliances, fosters novel value configurations (NVCs), which in turn facilitate business model changes. This process ultimately drives divergence at the firm level, reinforcing each company's unique position in the market.

In short, findings reveal that (1) market overlap among allying firms exhibits an inverted U -shaped relationship with NVCs, (2) repeated ties between the allying firms tend to shift the maximum of the curve towards higher market-overlap levels, (3) high expectations of future collaborations with one's alliance partner steepen the curvature of this relationship, and (4) NVCs trigger a divergence of allying firms' business models. In essence, balanced levels of market overlap facilitate business model change and more distinct business models of collaborating firms.

6.1. Theoretical implications

First, our study acknowledges environmental turbulence (Zheng et al., 2024) and suggests that cooptation, as a facilitator of change,

Table 2
Bivariate correlation matrix.

Measures	Mean	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1. Business model similarity in t + 2	0.26	1.00	-0.21***	0.48***	-0.03	0.03	-0.02	0.00	0.01	0.12*	-0.04	-0.02	0.04	-0.05
2. Novel value configurations in t + 1	0.27	-0.21***	1.00	-0.06	0.31***	-0.30***	0.03	0.31***	-0.23***	-0.11*	0.17**	-0.21***	-0.09	0.12
3. Business model similarity in t	0.37	0.47***	-0.07	1.00	0.08	-0.02	-0.02	0.01	-0.02	0.04	0.07	-0.08	-0.09	-0.11
4. Log market overlap	2.71	-0.02	0.28***	0.06	1.00	-0.48***	0.10	0.62***	-0.22***	0.04	0.24***	-0.18**	0.04	0.08
5. Log market overlap ²	1.69	0.03	-0.21***	0.00	0.02	1.00	-0.14*	-0.22***	0.61***	0.18**	-0.16**	0.29***	0.03	-0.07
6. Partner-specific alliance experience (SAE)	0.47	-0.02	0.03	-0.03	0.08	-0.13*	1.00	0.10	-0.13*	0.01	0.04	0.02	0.01	-0.05
7. Log market overlap × SAE	1.34	0.05	0.27***	0.01	0.59***	0.03	0.21***	1.00	-0.35***	0.06	0.21***	-0.11	0.01	0.07
8. Log market overlap ² × SAE	0.64	0.00	-0.12*	-0.03	0.04	0.61***	-0.42***	-0.05	1.00	0.15*	-0.08	0.23***	0.01	-0.10
9. Collaboration likelihood (CL)	3.76	0.09	-0.15**	0.04	0.10	0.17**	0.00	0.09	0.16**	1.00	-0.01	-0.14*	0.16**	-0.18*
10. Log market overlap × CL	10.29	-0.08	0.12*	0.08	0.30***	0.00	0.05	0.17**	0.06	0.10	1.00	-0.38***	-0.08	0.03
11. Log market overlap ² × CL	6.89	-0.01	-0.14*	-0.10	-0.07	0.26***	0.02	-0.03	0.17**	-0.26***	-0.11	1.00	0.01	-0.01
12. Firm A's general alliance experience	3.61	-0.01	-0.08	-0.10	0.05	0.06	0.02	0.03	0.02	0.13*	-0.07	-0.03	1.00	0.13
13. Log firm A's R&D intensity	2.29	-0.03	0.10	-0.10	0.07	0.00	-0.04	0.04	-0.05	-0.21***	0.01	0.05	0.12	1.00
14. Log firm A's size	4.17	0.11	0.01	0.12*	0.06	-0.09	0.12*	0.10	-0.06	0.06	0.02	-0.04	0.14*	-0.04
15. Log firm B's size	5.17	0.00	0.14*	0.02	0.12*	-0.05	0.16**	0.13*	-0.05	-0.01	0.00	-0.04	0.06	0.02
16. Log firm A's age	3.29	0.17**	-0.01	0.21***	0.04	-0.01	-0.04	0.04	0.02	0.03	0.09	-0.04	0.11	-0.14*
17. Log firm B's age	3.31	0.01	-0.03	0.05	0.04	0.01	0.09	0.14*	-0.04	-0.02	0.09	0.04	0.05	-0.05
18. No. of mutual innovation stages	1.83	0.00	-0.01	-0.03	0.09	0.10	0.08	0.09	0.05	0.20***	-0.08	0.07	0.00	-0.01
19. Firm A's technological diversity	0.28	0.00	-0.08	0.10	0.03	-0.03	0.04	0.03	-0.07	0.04	0.06	0.00	0.11	0.18**
20. Firm B's technological diversity	0.33	0.03	-0.01	0.03	-0.05	0.04	0.04	0.07	-0.01	-0.04	-0.10	0.03	0.01	0.09
21. Technological distance	0.96	-0.10	0.07	-0.10	-0.01	-0.07	0.01	-0.01	-0.09	-0.07	-0.05	0.04	0.04	-0.13
22. Log geographical distance	5.75	-0.06	0.10	0.04	-0.02	-0.07	-0.11	-0.06	0.05	-0.08	0.06	-0.04	-0.01	0.06
23. Log relationship duration	4.12	-0.04	-0.17**	0.10	0.20***	-0.02	0.11	0.07	-0.07	0.20***	0.12*	-0.12*	0.11*	-0.15*
24. Mills ratio 1st stage	14.95	0.13*	0.02	0.15**	0.10	-0.01	0.00	-0.01	-0.03	0.11	-0.01	-0.09	0.16**	-0.01
25. Mills ratio 2nd stage	6.60	0.00	0.14*	0.01	0.18**	-0.12*	0.16**	0.18**	-0.10	-0.13*	0.09	0.02	-0.08	0.35***
26. Log words on webpage A in t	6.98	0.10	0.00	0.04	0.07	0.03	0.05	0.03	-0.01	0.06	0.06	0.01	0.13*	0.02
27. Log words on webpage B in t	7.00	0.01	0.08	-0.05	0.11	0.09	0.07	0.13*	0.07	0.03	-0.02	0.05	0.13*	0.07
28. International alliance (binary)	0.44	-0.03	0.10	0.07	0.01	-0.05	-0.09	-0.05	0.05	-0.07	0.06	-0.03	-0.09	0.12
29. Early alliance stage (binary)	0.13	0.01	0.02	-0.05	-0.16**	0.02	-0.16**	-0.08	0.08	-0.14*	-0.05	0.08	-0.02	0.08
30. Late alliance stage (binary)	0.07	0.08	-0.20***	0.14*	0.01	-0.03	-0.01	0.00	-0.02	-0.20***	-0.12*	0.01	-0.04	-0.05
31. Alliance termination (binary)	0.08	0.07	-0.14*	0.07	-0.04	0.02	0.01	0.00	0.00	-0.19**	0.00	-0.07	-0.12*	0.12
32. Equity participation (binary)	0.18	-0.09	0.20***	-0.01	0.06	-0.08	0.04	0.02	-0.09	-0.03	0.05	0.07	-0.11	-0.01
33. Medical devices industry (binary)	0.57	-0.05	-0.06	-0.13*	-0.04	0.06	-0.05	-0.05	0.07	-0.03	0.00	-0.02	0.01	0.23***

Measures	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.
1. Business model similarity in t + 2	0.13*	-0.03	0.14*	-0.03	-0.01	0.01	0.02	-0.17**	-0.05	-0.05	0.23***	0.01	0.08	-0.05
2. Novel value configurations in t + 1	-0.02	0.13*	-0.01	-0.08	0.02	-0.07	-0.03	0.05	0.07	-0.16**	0.03	0.20***	-0.01	0.04
3. Business model similarity in t	0.11	-0.01	0.19***	0.03	-0.05	0.09	0.03	-0.19**	0.03	0.12*	0.13*	0.07	0.05	-0.05
4. Log market overlap	0.05	0.13*	0.07	0.01	0.09	0.04	-0.06	-0.05	0.01	0.19***	0.02	0.16**	0.04	0.08
5. Log market overlap ²	-0.11	-0.07	-0.09	0.02	0.11	-0.07	0.04	0.03	-0.07	-0.06	-0.08	-0.17**	0.04	0.06
6. Partner-specific alliance experience (SAE)	0.10	0.18**	-0.05	0.07	0.10	0.04	0.04	0.03	-0.11*	0.14*	-0.06	0.12*	0.07	0.06
7. Log market overlap × SAE	0.10	0.10	0.10	0.04	0.11*	0.05	0.07	-0.03	-0.06	0.02	-0.01	0.16**	0.01	0.06
8. Log market overlap ² × SAE	-0.07	-0.03	-0.09	-0.02	0.09	-0.09	-0.04	0.00	0.03	-0.03	-0.06	-0.09	0.01	0.05
9. Collaboration likelihood (CL)	0.06	0.05	0.01	-0.02	0.23***	0.03	-0.02	0.01	-0.03	0.19***	0.10	-0.10	0.10	0.07
10. Log market overlap × CL	-0.02	0.00	0.09	0.10	-0.06	0.04	-0.05	-0.04	0.04	0.10	0.01	0.04	0.03	-0.01
11. Log market overlap ² × CL	-0.04	-0.06	-0.08	0.02	0.09	0.02	-0.04	0.04	-0.06	-0.08	-0.05	-0.01	-0.03	0.02
12. Firm A's alliance experience	0.17**	0.08	0.10	0.03	0.00	0.08	0.00	0.04	0.01	0.08	0.08	-0.13*	0.14*	0.14*
13. Log firm A's R&D intensity	-0.01	0.06	-0.13	-0.07	0.03	0.19**	0.08	-0.12	0.02	-0.14*	-0.02	0.30***	0.04	0.08
14. Log firm A's size	1.00	0.24***	0.35***	0.12*	-0.01	0.28***	0.12*	-0.11	0.06	0.06	0.40***	0.24***	0.16**	0.03
15. Log firm B's size	0.22***	1.00	0.07	0.50***	0.08	0.02	0.47***	0.01	0.06	0.15*	0.09	0.13*	0.14*	0.29***
16. Log firm A's age	0.37***	0.10	1.00	0.18**	-0.07	0.16**	-0.01	-0.08	-0.01	0.19***	0.18**	-0.17**	0.15*	0.02
17. Log firm B's age	0.11	0.45***	0.19***	1.00	0.09	0.03	0.33***	0.04	0.01	0.16**	0.07	-0.05	0.06	0.18**

(continued on next page)

Table 2 (continued)

Measures	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	25.	26.	27.
18. No. of mutual innovation stages	0.01	0.06	-0.03	0.08	1.00	0.01	0.07	0.07	-0.11	0.09	-0.10	-0.09	0.11	0.11
19. Firm A's technological diversity	0.28***	0.07	0.18**	0.04	0.00	1.00	0.19***	0.19***	-0.26***	0.01	0.06	0.00	0.09	0.00
20. Firm B's technological diversity	0.12*	0.48***	-0.03	0.33***	0.08	0.19***	1.00	-0.24***	-0.02	0.01	0.04	0.02	0.11	0.16**
21. Technological distance	-0.17**	-0.16**	-0.08	-0.04	0.00	-0.44***	-0.43***	1.00	-0.03	0.01	-0.04	0.01	-0.05	-0.01
22. Log geographical distance	0.06	0.02	-0.05	0.03	-0.10	-0.05	-0.03	-0.03	1.00	0.08	0.07	0.07	-0.03	0.01
23. Log relationship duration	0.08	0.15*	0.19**	0.16**	0.10	0.02	-0.02	0.00	0.08	1.00	0.06	-0.22***	0.04	0.09
24. Mills ratio 1st stage	0.48***	0.15*	0.30***	0.04	-0.03	0.07	0.04	-0.05	0.03	0.06	1.00	0.18**	-0.06	-0.16**
25. Mills ratio 2nd stage	0.29***	0.15*	-0.16**	0.01	-0.06	0.12*	0.09	-0.05	0.04	-0.29***	0.31***	1.00	-0.07	-0.10
26. Log words on webpage A in t	0.13*	0.08	0.13*	0.06	0.09	0.07	0.09	-0.04	-0.05	0.05	0.01	0.00	1.00	0.36***
27. Log words on webpage B in t	0.00	0.23***	0.03	0.14*	0.07	0.02	0.17**	-0.04	-0.02	0.11	-0.08	-0.06	0.37***	1.00
28. International alliance (binary)	0.04	0.02	-0.01	-0.01	-0.07	-0.03	-0.01	-0.07	0.77***	0.03	0.06	0.02	-0.09	-0.07
29. Early alliance stage (binary)	-0.10	-0.13*	-0.10	-0.12*	-0.03	-0.04	-0.03	-0.02	-0.07	-0.36***	-0.13*	-0.05	-0.04	-0.09
30. Late alliance stage (binary)	0.03	0.01	-0.02	0.03	-0.05	0.00	-0.03	0.03	0.09	0.07	0.00	0.04	0.06	0.06
31. Alliance termination (binary)	-0.05	0.03	-0.04	0.03	-0.04	-0.07	-0.05	0.03	-0.02	-0.07	-0.04	0.02	0.06	0.07
32. Equity participation (binary)	0.02	-0.02	-0.09	-0.03	-0.07	-0.07	-0.06	0.01	-0.01	-0.06	0.06	0.14*	-0.05	-0.09
33. Medical devices industry (binary)	-0.15**	-0.03	-0.18**	-0.07	-0.08	0.00	-0.07	0.02	0.14*	0.03	0.07	-0.02	0.05	-0.04

Notes: N = 302, * p < .05, ** p < .01, *** p < .001, above diagonal are Pearson zero-order correlations, below non-parametric Spearman correlations. Log market overlap was mean-centered before quadratic or interactive transformation.

supports NVCs and more distinctive business models (Tallman et al., 2018). Although there is consensus that external triggers, such as Covid-19, spur reactive and disruptive business model changes, literature about the competitive dynamics and proactive and incremental business model changes at the intermediate alliance level remains scarce (Snihur & Markman, 2023). Previous research has shown that cooptation permits new business models (McDonald & Eisenhardt, 2020; Yadav et al., 2022) and that competitive dynamics facilitate business model change (Lanzolla & Markides, 2021; Snihur & Markman, 2023). Our findings extend these insights by showing that moderate levels of market overlap push business model change which then leads to more distinctive business models of the involved cooptitors. We contribute to a deeper understanding of cooptation-induced business model changes by extending the internally focused ABV (Ocasio, 1997) to the dyadic alliance level (Chen & Miller, 2015) and considerations of firm-level distinctiveness (Täuscher et al., 2021). In times of success and stability, firms have a low incentive to change a “running system” by searching for NVCs. Yet, similar mindsets and competitive pressures of firms in cooptation facilitate finding NVCs that might be able to deal with environmental turbulence and inform about what a business model contains and what not. Hence, we propose cooptation as a vehicle to better carve out the content and boundaries of firms’ business models.

Second, our study emphasizes that moderate levels of market overlap, hence the typical form of cooptation (Bengtsson & Kock, 2014), trigger business model change as NVCs and facilitate the development of distinctive business models (Zhao et al., 2017). Interestingly, these findings are fully contingent on repeated past ties and anticipated future ties. In considering these ties, our study extends previous studies in that repeated ties have potential downsides (Gulati et al., 2009). Repeated ties signal security and reduce attention and alert, which might be detrimental in turbulent times. A potential curse of repeated ties tends to reduce managerial attention to firm-level changes through cognitive biases, path dependency, and organizational inertia (O’Reilly III & Tushman, 2021). Despite these known barriers, the precise nature of cognition and attention that propels decision-makers to endorse novelties such as NVCs is poorly understood (Mount, Baer, & Lupoli, 2021). Our findings contribute to filling this research gap by suggesting that firms’ attention bounded in their capacity to register and digest alliance-specific information, such as “too little” or “too much” market overlap, is fully contingent on their anticipation of alliance continuation (Bó, 2005) in search of NVCs (see Fig. 4)—and hence, their future relative positioning within overlapping markets (Chen & Miller, 2015).

Third, we elucidate how collaboration among firms targeting completely different markets can limit or preclude an understanding of how a partner’s resources might be utilized in service to the focal firm’s markets (Kapoor & Furr, 2015). If firms target distinct markets with different resource bases, alliance partners may not possess the resources relevant to exploiting complementarities for NVCs (Kapoor & Furr, 2015; Zott & Amit, 2010). Complementarities might be most important in turbulent times. Similarly, technological distance is a major barrier to business model change (Fredrich et al., 2022). Instead, a very high market overlap between collaborating firms can reduce the likelihood of NVCs (Dai, Zhang, Zhang, & Mao, 2024). The optimum level of market overlap corresponds to cooptation research in which firms collaborate and compete simultaneously in a balancing act (Bengtsson & Kock, 2014; Bouncken, Fredrich, Ritala, & Kraus, 2020; Gnyawali & Ryan Charleton, 2018; Park, Srivastava, & Gnyawali, 2014).

Fourth, we explicate how the business models of allying firms may diverge due to those firms serving overlapping markets in search of firm-level distinctiveness (Täuscher et al., 2021; Zhao et al., 2017). Traditionally, business models have been understood and depicted as valuable because they are tightly integrated and optimized for efficiency (Amit & Zott, 2012; Zott & Amit, 2008). Our findings support more open boundaries, even among firms in overlapping markets. In this, we nuance that contradictions between value-creation logics become salient and provide opportunities for business model change and the

Table 3
Regression results.

N = 302 dyadic R&D alliances	Model A		Model B		Model C		Model D	
	1st stage DV: NVC _{t+1}	2nd stage DV: BMS _{t+2}	1st stage DV: NVC _{t+1}	2nd stage DV: BMS _{t+2}	1st stage DV: NVC _{t+1}	2nd stage DV: BMS _{t+2}	1st stage DV: NVC _{t+1}	2nd stage: BMS _{t+2}
Mills ratio 1st stage	0.06 (p = .264)	0.19 (p = .007)	0.07 (p = .167)	0.19 (p = .007)	0.06 (p = .217)	0.19 (p = .007)	0.07 (p = .126)	0.19 (p = .007)
Mills ratio 2nd stage	0.04 (p = .590)	-0.06 (p = .333)	0.03 (p = .668)	-0.06 (p = .331)	0.06 (p = .445)	-0.06 (p = .345)	0.05 (p = .515)	-0.06 (p = .342)
Business model similarity BMS in t	-0.01 (p = .831)	0.46 (p < .001)	-0.01 (p = .876)	0.45 (p < .001)	-0.02 (p = .733)	0.45 (p < .001)	-0.02 (p = .780)	0.45 (p < .001)
Log words on web page A in t	0.02 (p = .730)	0.06 (p = .246)	0.04 (p = .537)	0.06 (p = .239)	0.02 (p = .718)	0.06 (p = .241)	0.04 (p = .505)	0.06 (p = .234)
Log words on web page B in t	0.07 (p = .325)	-0.02 (p = .756)	0.07 (p = .284)	-0.02 (p = .763)	0.07 (p = .255)	-0.02 (p = .747)	0.08 (p = .220)	-0.02 (p = .753)
Medical devices industry (binary)	-0.07 (p = .265)	-0.05 (p = .291)	-0.08 (p = .238)	-0.05 (p = .289)	-0.08 (p = .207)	-0.05 (p = .298)	-0.09 (p = .177)	-0.05 (p = .296)
Firm A's general alliance experience	-0.08 (p = .284)	0.03 (p = .515)	-0.08 (p = .282)	0.03 (p = .517)	-0.06 (p = .379)	0.04 (p = .492)	-0.06 (p = .379)	0.04 (p = .491)
Log firm A's R&D intensity	0.04 (p = .560)	0.06 (p = .349)	0.03 (p = .646)	0.06 (p = .357)	0.03 (p = .627)	0.06 (p = .351)	0.03 (p = .714)	0.06 (p = .360)
Log firm A's size	-0.09 (p = .305)	0.02 (p = .808)	-0.10 (p = .251)	0.02 (p = .793)	-0.09 (p = .274)	0.01 (p = .813)	-0.11 (p = .210)	0.02 (p = .801)
Log firm B's size	0.18 (p = .046)	-0.00 (p = .978)	0.19 (p = .030)	-0.01 (p = .954)	0.17 (p = .054)	-0.00 (p = .963)	0.18 (p = .037)	-0.01 (p = .939)
Log firm A's age	0.06 (p = .408)	0.03 (p = .619)	0.04 (p = .567)	0.03 (p = .619)	0.05 (p = .444)	0.03 (p = .615)	0.04 (p = .605)	0.03 (p = .616)
Log firm B's age	-0.13 (p = .112)	-0.05 (p = .432)	-0.14 (p = .095)	-0.05 (p = .437)	-0.12 (p = .135)	-0.05 (p = .438)	-0.12 (p = .129)	-0.04 (p = .445)
No. of mutual innovation stages	0.06 (p = .365)	0.02 (p = .653)	0.06 (p = .408)	0.02 (p = .660)	0.08 (p = .263)	0.02 (p = .672)	0.07 (p = .302)	0.02 (p = .678)
Firm A's technological diversity	-0.04 (p = .597)	-0.11 (p = .039)	-0.03 (p = .694)	-0.11 (p = .041)	-0.03 (p = .687)	-0.11 (p = .038)	-0.02 (p = .806)	-0.11 (p = .040)
Firm B's technological diversity	-0.06 (p = .426)	-0.01 (p = .842)	-0.09 (p = .253)	-0.01 (p = .850)	-0.06 (p = .445)	-0.01 (p = .889)	-0.08 (p = .256)	-0.01 (p = .895)
Technological distance	0.08 (p = .339)	-0.10 (p = .073)	0.07 (p = .374)	-0.10 (p = .070)	0.08 (p = .337)	-0.10 (p = .069)	0.07 (p = .370)	-0.10 (p = .067)
Log geographical distance	0.05 (p = .596)	-0.02 (p = .762)	0.04 (p = .671)	-0.02 (p = .741)	0.05 (p = .605)	-0.02 (p = .774)	0.04 (p = .682)	-0.02 (p = .752)
Log relationship duration	-0.16 (p = .034)	-0.17 (p = .002)	-0.15 (p = .057)	-0.17 (p = .002)	-0.17 (p = .030)	-0.17 (p = .002)	-0.15 (p = .055)	-0.17 (p = .002)
International alliance (binary)	0.06 (p = .529)	-0.03 (p = .661)	0.08 (p = .404)	-0.03 (p = .671)	0.05 (p = .558)	-0.03 (p = .635)	0.07 (p = .429)	-0.03 (p = .643)
Early alliance stage (binary)	-0.00 (p = .981)	-0.04 (p = .484)	-0.01 (p = .846)	-0.04 (p = .481)	-0.00 (p = .972)	-0.04 (p = .482)	-0.01 (p = .849)	-0.04 (p = .481)
Late alliance stage (binary)	-0.19 (p = .005)	-0.03 (p = .515)	-0.20 (p = .004)	-0.03 (p = .528)	-0.18 (p = .005)	-0.03 (p = .517)	-0.20 (p = .003)	-0.03 (p = .532)
Equity participation (binary)	0.13 (p = .030)	-0.07 (p = .102)	0.13 (p = .033)	-0.07 (p = .097)	0.14 (p = .020)	-0.07 (p = .098)	0.14 (p = .020)	-0.07 (p = .093)
Alliance termination (binary)	-0.12 (p = .133)	0.04 (p = .518)	-0.11 (p = .145)	0.04 (p = .491)	-0.15 (p = .059)	0.04 (p = .511)	-0.14 (p = .062)	0.04 (p = .483)
Log market overlap	0.20 (p = .010)	-0.02 (p = .782)	0.08 (p = .466)	-0.02 (p = .746)	0.19 (p = .021)	-0.02 (p = .769)	0.07 (p = .505)	-0.02 (p = .733)
H1: Log market overlap ²	-0.16 (p = .022)	-0.04 (p = .450)	-0.17 (p = .059)	-0.04 (p = .482)	-0.09 (p = .231)	-0.04 (p = .495)	-0.10 (p = .296)	-0.03 (p = .527)
Partner-specific alliance experience (SAE)	0.01 (p = .894)	0.04 (p = .455)	-0.01 (p = .841)	0.04 (p = .479)	0.01 (p = .873)	0.04 (p = .468)	-0.01 (p = .864)	0.03 (p = .493)
Collaboration likelihood (CL)	-0.11 (p = .138)	0.09 (p = .098)	-0.13 (p = .093)	0.09 (p = .095)	-0.17 (p = .031)	0.09 (p = .106)	-0.18 (p = .014)	0.09 (p = .102)
H2a: Log market overlap × SAE			0.18 (p = .041)				0.18 (p = .039)	
Log market overlap ² × SAE			-0.00 (p = .959)				-0.00 (p = .986)	
H2b: Log market overlap × CL					0.01 (p = .918)		-0.01 (p = .902)	
Log market overlap ² × CL					-0.17 (p = .031)		-0.18 (p = .019)	
H3: NVC in t + 1		-0.18 (p = .004)		-0.17 (p = .007)		-0.18 (p = .005)		-0.17 (p = .009)
Variance explanation R ²	0.29 (p < .001)	0.35 (p < .001)	0.29 (p < .001)	0.35 (p < .001)	0.31 (p < .001)	0.35 (p < .001)	0.32 (p < .001)	0.35 (p < .001)
AIC	12,092.59		12,092.16		12,092.44		12,091.87	
Sample-size adjusted BIC	12,137.87		12,138.51		12,138.79		12,139.30	
Log-likelihood (no. of free parameters)	-5962.30 (84)		-5960.08 (86)		-5960.22 (86)		-5957.93 (88)	
Scaling correction factor for MLR	1.100		1.093		1.097		1.089	

(continued on next page)

Table 3 (continued)

N = 302 dyadic R&D alliances	Model A		Model B		Model C		Model D	
	1st stage DV: NVC _{t+1}	2nd stage DV: BMS _{t+2}	1st stage DV: NVC _{t+1}	2nd stage DV: BMS _{t+2}	1st stage DV: NVC _{t+1}	2nd stage DV: BMS _{t+2}	1st stage DV: NVC _{t+1}	2nd stage: BMS _{t+2}
Scaled chi-square difference ΔTRd (Δdf):	$\chi^2 (2) = 5.52, p = .063$				$\chi^2 (2) = 4.21, p = .122$		$\chi^2 (4) = 10.10, p = .039$	

Notes: DV = Dependent Variable, AIC = Akaike Information Criterion, BIC = Bayesian Information Criterion, df = degrees of freedom, MLR = (two-tailed) Maximum Likelihood Robust *p*-values in brackets.

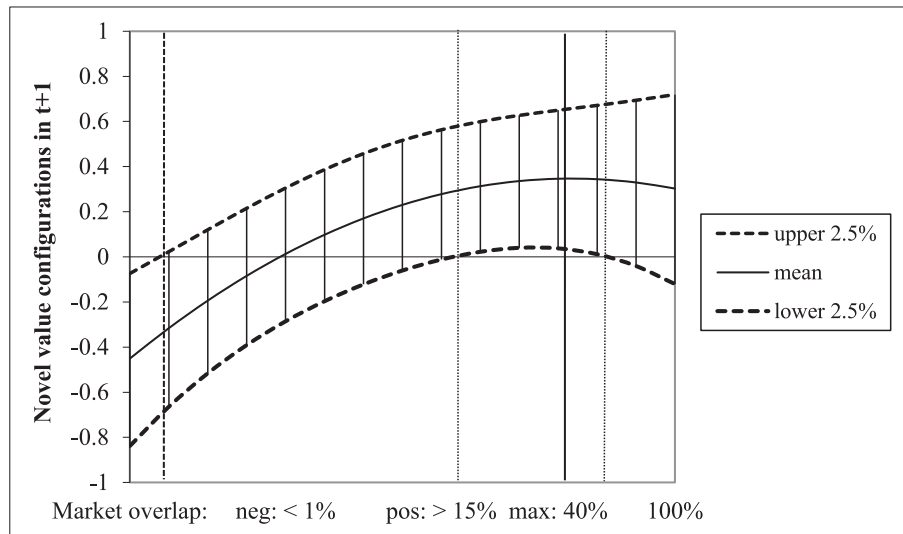


Fig. 2. Plot of H1 results.

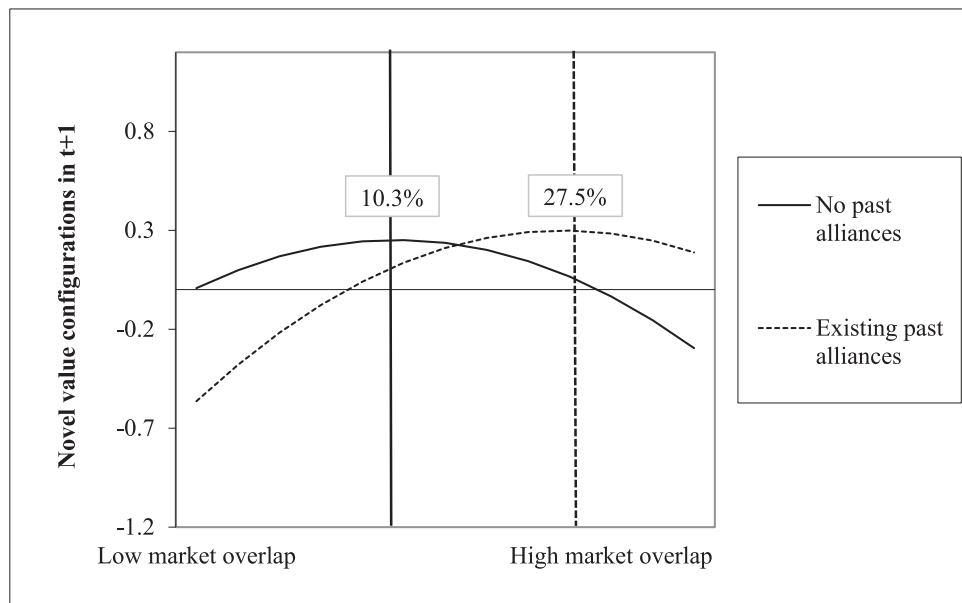


Fig. 3. Plot of H2a results.

achievement of firm-level distinctiveness (Ocasio & Radoynovska, 2016; Zhao et al., 2017). Distinctive features of competing business model designs can promote natural isolation mechanisms and prevent excessive inter-partner competition in the future (Fredrich et al., 2022; Martins, Rindova, & Greenbaum, 2015; McDonald & Eisenhardt, 2020). The orchestration challenge in complex value chains is particularly vivid when actively managing the generalist-specialist contribution tension

(Geurts, Broekhuizen, Dolfsma, & Cepa, 2022).

6.2. Practical implications

Managers know that their business model defines their success and needs to be modified over time. Today, given the need to manage greater uncertainty, managers aim to increase their “robustness” and “agility”

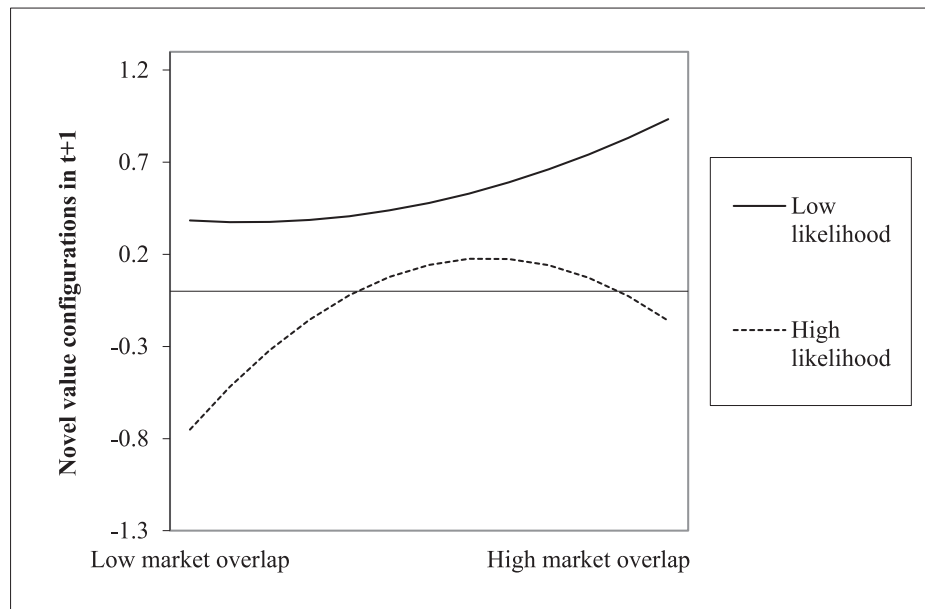


Fig. 4. Plot of H2b results.

and can do so by collaborating with competitors. Our study shows that to achieve business model change, managers should devote significant attention to understanding the market overlap of firms. Typically, managers should pursue partners they know (i.e., repeated ties) and prioritize partners with moderate levels of market overlap. Especially in today's increased environmental turbulence, managers must proactively design relationships to detect threats early and jointly create and implement novel solutions. Hence, managers should develop metrics and portfolio considerations regarding which previous partners with whom they share moderate market overlap might allow them to create alternative business models. However, there is also an option involving high market overlap. Even risky relationships with highly similar firms may increase the likelihood of change when they intend to play a single “game” that is well protected against future opportunism. Hence, managers should use formal protection and natural isolation mechanisms properly.

Our key and counterintuitive lesson is that firms should closely interact with their partners and learn how to differentiate themselves from them rather than mimic each other's “playbooks.” Specifically, managers should consider how and what to learn from their partners to develop a different and unique—i.e., distinctive—business model. As co-competition always has inherent risks, it is essential for managers to be aware of the benefits of “learning to be different” and to exhibit an intention to learn while not copying the other firm. Hence, firms should openly discuss this and what they aim to learn from the other firm to utilize in modifying their business model, as well as how to best design business models that enable learning processes as a point of departure. This sharing and joint development of divergent business models will also support organizational resilience against future market shocks (Bocken & Geradts, 2020).

6.3. Limitations and future research directions

First, co-competition partners serving an overlapping market may not be direct competitors (Boyd & Spekman, 2008) or even be perceived as such (Chen & Miller, 2015). Second, what, specifically, a focal firm's alliance partner serving a common market brings to the collaborative effort as an enabler of NVCs was beyond our study's scope. As such, while we can conclude that market overlap affects NVCs, which subsequently affect business model divergence, we do not understand the specific combinations of partner-sourced resources and capabilities

through which these changes occur. Third, the firm-level performance implications of NVCs and business model divergence are beyond the scope of our study. Typically, business model changes have ambivalent short- and long-term performance implications (Aversa, Furnari, & Haefliger, 2015). A meta-analysis by White, Markin, Marshall, and Gupta (2022) supports that the link between business model innovation and firm performance is context-specific and positive, on average. Fourth, our findings reflect the idiosyncratic characteristics of R&D alliances. These characteristics could be necessary triggers of NVCs and limit the transferability of our findings to other types of alliances. Fifth, our measure of business model similarity might suffer from selective non-disclosure of relevant business model elements or be subject to storytelling for differentiation purposes. We ran a series of validity checks and assessed this risk as low due to informational asymmetry between alliance partners, especially between competitors. However, we cannot rule out this risk entirely and highlight business models as linguistic devices or narratives (Täuscher, 2018). Lastly, since the full data-generation process behind our findings spans 2010–2019, their implications do not reflect exogenous global shocks, such as pandemics and wars post-2019. We expect even more pronounced cooperative business model divergence in the current era of global disorder (Luo, 2024).

Our results invite future research in three areas. First, more research on the management practices in alliances that potentially increase and maintain managerial attention is necessary. For example, Ocasio and Joseph (2018) claim that a common strategic agenda helps achieve attentional coherence among allying firms, making them more likely to agree on tackling problems and allocating resources and effort. Second, future research on alliance management “best practices” of firms serving overlapping markets is warranted (Bouncken, Fredrich, & Kraus, 2020). The current results indicate that a particular form of business model changes—namely NVCs—can result when alliance partners serve a common market. However, our research did not explore how partners might individually and jointly manage their alliances to realize the most significant benefit from their collaborative NVC effort. Third, past research has focused on industry-level or firm-level drivers of business model change while neglecting the intermediate alliance level (Osievskyy & Dewald, 2015). Here, we propose investigating business model convergence vs. divergence as an additional dimension of business model changes. Furthermore, and on a different note, we encourage research about how artificial intelligence technology may help firms to

develop new ideas and new value configurations in coopetition (Bouncken & Vogt, 2025).

7. Conclusion

Times have changed, bringing greater environmental turbulence and, with it, the need for firms to quickly adapt their business models. One vehicle to master these challenges is coopetition between firms. This study has demonstrated how competitive dynamics within dyadic alliances where firms may have market overlap—hence are in coopetition—can foster business model change. We find that NVCs can trigger (relative) business model divergence, which then can permit greater distinctiveness of firms in common markets. Specifically, moderate levels of market overlap drive NVCs the most. Yet, these effects are fully contingent on repeated and anticipated future ties. In repeated ties, firms require greater levels of market overlap to achieve equivalent NVCs compared to non-repeated ties. Surprisingly, firms can achieve highest levels of NVCs from market overlap if they do not anticipate future collaboration with the same partner. Our study adds to and complements an attention-based view of business models to coopetition research. Overall, we contribute to a better understanding of how firms can navigate coopetition in an era of global disorder characterized by unstable supply chains, hyper-competition, de-globalization, digital transformation, and global disasters. The key counterintuitive finding is that firms should use coopetition to learn how to differentiate themselves and develop distinctive business models.

CRedit authorship contribution statement

Ricarda B. Bouncken: Writing – original draft, Supervision, Conceptualization. **Viktor Fredrich:** Writing – review & editing, Validation, Software, Methodology.

Declaration of competing interest

None.

Data availability

The data that has been used is confidential.

References

- Ahmed, P. K., & Shepherd, C. D. (2010). *Innovation management – Context, strategies, systems and processes*. Harlow: Financial Times Prentice Hall.
- Amit, R., & Han, X. (2017). Value creation through novel resource configurations in a digitally enabled world. *Strategic Entrepreneurship Journal*, 11(3), 228–242.
- Amit, R., & Zott, C. (2012). Creating value through business model innovation. *MIT Sloan Management Review*, 53(3), 41–49.
- Aversa, P., Furnari, S., & Haefliger, S. (2015). Business model configurations and performance: A qualitative comparative analysis in formula one racing, 2005–2013. *Industrial and Corporate Change*, 24(3), 655–676.
- Bar, T., & Leiponen, A. (2012). A measure of technological distance. *Economics Letters*, 116(3), 457–459.
- Barnett, M. L. (2008). An attention-based view of real options reasoning. *Academy of Management Review*, 33(3), 606–628.
- Basole, R. C., Park, H., & Barnett, B. C. (2015). Coopetition and convergence in the ICT ecosystem. *Telecommunications Policy*, 39(7), 537–552.
- Bengtsson, M., & Kock, S. (2000). “Coopetition” in business networks—To cooperate and compete simultaneously. *Industrial Marketing Management*, 29(5), 411–426.
- Bengtsson, M., & Kock, S. (2014). Coopetition—Quo vadis? Past accomplishments and future challenges. *Industrial Marketing Management*, 43(2), 180–188.
- Bó, P. D. (2005). Cooperation under the shadow of the future: Experimental evidence from infinitely repeated games. *American Economic Review*, 95(5), 1591–1604.
- Bocken, N. M., & Geradts, T. H. (2020). Barriers and drivers to sustainable business model innovation: Organization design and dynamic capabilities. *Long Range Planning*, 53(4), Article 101950.
- Bouncken, R., & Vogt, C. (2025). Navigating the AI frontier in coopetition: Suggestions on conceptual grid, opportunities, and tensions. In J. Crick (Ed.), *Handbook on coopetition* (Vol. in press): DeGruyter.
- Bouncken, R. B., Clauß, T., & Fredrich, V. (2016). Product innovation through coopetition in alliances: Singular or plural governance? *Industrial Marketing Management*, 53, 77–90.
- Bouncken, R. B., & Fredrich, V. (2016). Business model innovation in alliances: Successful configurations. *Journal of Business Research*, 69(9), 3584–3590.
- Bouncken, R. B., Fredrich, V., & Kraus, S. (2020). Configurations of firm-level value capture in coopetition. *Long Range Planning*, 53(1), Article 101869.
- Bouncken, R. B., Fredrich, V., Ritala, P., & Kraus, S. (2018). Coopetition in new product development alliances: Advantages and tensions for incremental and radical innovation. *British Journal of Management*, 29(3), 391–410.
- Bouncken, R. B., Fredrich, V., Ritala, P., & Kraus, S. (2020). Value-creation-capture-equilibrium in new product development alliances: A matter of coopetition, expert power, and alliance importance. *Industrial Marketing Management*, 90, 648–662.
- Bouncken, R. B., Gast, J., Kraus, S., & Bogers, M. (2015). Coopetition: A systematic review, synthesis, and future research directions. *Review of Managerial Science*, 9(3), 577–601.
- Boyd, D. E., & Spekman, R. E. (2008). The market value impact of indirect ties within technology alliances. *Journal of the Academy of Marketing Science*, 36(4), 488–500.
- Brandenburger, A. M., & Nalebuff, B. J. (1996). *Co-opetition: Currency Doubleday*.
- Bruyaka, O., Philippe, D., & Castañer, X. (2018). Run away or stick together? The impact of organization-specific adverse events on alliance partner defection. *Academy of Management Review*, 43(3), 445–469.
- Certo, S. T., Busenbark, J. R., Woo, H. S., & Semadeni, M. (2016). Sample selection bias and Heckman models in strategic management research. *Strategic Management Journal*, 37(13), 2639–2657.
- Chen, M.-J. (1996). Competitor analysis and interfirm rivalry: Toward a theoretical integration. *Academy of Management Review*, 21(1), 100–134.
- Chen, M. J., & Miller, D. (2015). Reconceptualizing competitive dynamics: A multidimensional framework. *Strategic Management Journal*, 36(5), 758–775.
- Chesbrough, H. W. (2007). Business model innovation: It’s not just about technology anymore. *Strategy & Leadership*, 35(6), 12–17.
- Cho, T. S., & Hambrick, D. C. (2006). Attention as the mediator between top management team characteristics and strategic change: The case of airline deregulation. *Organization Science*, 17(4), 453–469.
- Choi, S.-S., Cha, S.-H., & Tappert, C. C. (2010). A survey of binary similarity and distance measures. *Journal of Systemics, Cybernetics and Informatics*, 8(1), 43–48.
- Chung, S. A., Singh, H., & Lee, K. (2000). Complementarity, status similarity and social capital as drivers of alliance formation. *Strategic Management Journal*, 21(1), 1–22.
- Clougherty, J. A., Duso, T., & Muck, J. (2016). Correcting for self-selection based endogeneity in management research: Review, recommendations and simulations. *Organizational Research Methods*, 19(2), 286–347.
- Cohen, J. (1988). *Statistical power analysis for the behavioral sciences* (2 ed.). Hillsdale, N.J.: L. Erlbaum Associates.
- Crick, J. M., & Crick, D. (2020). Coopetition and COVID-19: Collaborative business-to-business marketing strategies in a pandemic crisis. *Industrial Marketing Management*, 88, 206–213.
- Crick, J. M., & Crick, D. (2021). The dark-side of coopetition: Influences on the paradoxical forces of cooperativeness and competitiveness across product-market strategies. *Journal of Business Research*, 122, 226–240.
- Crick, J. M., Crick, D., & Chaudhry, S. (2023). Staying alive: Coopetition and competitor oriented behaviour from a pre-to post COVID-19 pandemic era. *Industrial Marketing Management*, 113, 58–73.
- Crick, J. M., Friske, W., & Morgan, T. A. (2024). The relationship between coopetition strategies and company performance under different levels of competitive intensity, market dynamism, and technological turbulence. *Industrial Marketing Management*, 118, 56–77.
- Crick, J. M., Karami, M., & Crick, D. (2022). Is it enough to be market-oriented? How coopetition and industry experience affect the relationship between a market orientation and customer satisfaction performance. *Industrial Marketing Management*, 100, 62–75.
- Cui, V., Yang, H., & Vertinsky, I. (2018). Attacking your partners: Strategic alliances and competition between partners in product markets. *Strategic Management Journal*, 39(12), 3116–3139.
- Dai, G., Zhang, L., Zhang, Q., & Mao, M. (2024). Navigating tensions between value creation and capture in ecosystems. *Journal of Business Research*, 170, Article 114333.
- Das, T. K., & Teng, B.-S. (2000). Instabilities of strategic alliances: An internal tensions perspective. *Organization Science*, 11(1), 77–101.
- Durand, R. (2003). Predicting a firm’s forecasting ability: The roles of organizational illusion of control and organizational attention. *Strategic Management Journal*, 24(9), 821–838.
- Dussauge, P., Garrette, B., & Mitchell, W. (2000). Learning from competing partners: Outcomes and durations of scale and link alliances in Europe, North America and Asia. *Strategic Management Journal*, 21(2), 99–126.
- Duysters, G., Lavie, D., Sabidussi, A., & Stettner, U. (2019). What drives exploration? Convergence and divergence of exploration tendencies among alliance partners and competitors. *Academy of Management Journal*, 63(5), 1425–1454.
- Dyer, J. H., & Hatch, N. W. (2006). Relation-specific capabilities and barriers to knowledge transfers: Creating advantage through network relationships. *Strategic Management Journal*, 27(8), 701–719.
- Dyer, J. H., & Singh, H. (1998). The relational view: Cooperative strategy and sources of interorganizational competitive advantage. *Academy of Management Review*, 23(4), 660–679.
- Fredrich, V., Bouncken, R. B., & Tiberius, V. (2022). Dyadic business model convergence or divergence in alliances?—A configurational approach. *Journal of Business Research*, 153, 300–308.
- Gernsheimer, O., Kanbach, D. K., & Gast, J. (2021). Coopetition research—A systematic literature review on recent accomplishments and trajectories. *Industrial Marketing Management*, 96, 113–134.

- Geurts, A., Broekhuizen, T., Dolfmsa, W., & Cepa, K. (2022). Tensions in multilateral co-competition: Findings from the disrupted music industry. *Industrial Marketing Management*, 105, 532–547.
- Gnyawali, D. R., He, J., & Madhavan, R. (2006). Impact of co-opetition on firm competitive behavior: An empirical examination. *Journal of Management*, 32(4), 507–530.
- Gnyawali, D. R., & Park, B.-J. R. (2011). Co-opetition between giants: Collaboration with competitors for technological innovation. *Research Policy*, 40(5), 650–663.
- Gnyawali, D. R., & Ryan Charleton, T. (2018). Nuances in the interplay of competition and cooperation: Towards a theory of co-competition. *Journal of Management*, 44(7), 2511–2534.
- Goerzen, A. (2007). The impact of repeated partnerships. *Strategic Management Journal*, 28(5), 487–509.
- Gulati, R. (1995). Does familiarity breed trust? The implications of repeated ties for contractual choice in alliances. *Academy of Management Journal*, 38(1), 85–112.
- Gulati, R., Lavie, D., & Singh, H. (2009). The nature of partnering experience and the gains from alliances. *Strategic Management Journal*, 30(11), 1213–1233.
- Haans, R. F., Pieters, C., & He, Z. L. (2016). Thinking about U: Theorizing and testing U- and inverted U-shaped relationships in strategy research. *Strategic Management Journal*, 37(7), 1177–1195.
- Haas, M. R., Criscuolo, P., & George, G. (2015). Which problems to solve? Online knowledge sharing and attention allocation in organizations. *Academy of Management Journal*, 58(3), 680–711.
- Hagedoorn, J., Letterie, W., & Palm, F. (2011). The information value of R&D alliances: The preference for local or distant ties. *Strategic Organization*, 9(4), 283–309.
- Hair, J. F., Black, B., Babin, B., Anderson, R. E., & Tatham, R. L. (2010). *Multivariate data analysis* (7 ed.). Upper Saddle River, NJ: Pearson Prentice Hall.
- Hashai, N., & Almor, T. (2008). R&D intensity, value appropriation and integration patterns within organizational boundaries. *Research Policy*, 37(6–7), 1022–1034.
- Hayes, A. F., & Preacher, K. J. (2010). Quantifying and testing indirect effects in simple mediation models when the constituent paths are nonlinear. *Multivariate Behavioral Research*, 45(4), 627–660.
- Hock-Doepgen, M., Heaton, S., Clauss, T., & Block, J. (2024). Identifying microfoundations of dynamic managerial capabilities for business model innovation. *Strategic Management Journal*. <https://doi.org/10.1002/smj.3663> (in press).
- Hoffman, A. J., & Ocasio, W. (2001). Not all events are attended equally: Toward a middle-range theory of industry attention to external events. *Organization Science*, 12(4), 414–434.
- Hughes, M., Morgan, R. E., Ireland, R. D., & Hughes, P. (2014). Social capital and learning advantages: A problem of absorptive capacity. *Strategic Entrepreneurship Journal*, 8(3), 214–233.
- Inkpen, A. C. (2000). Learning through joint ventures: A framework of knowledge acquisition. *Journal of Management Studies*, 37(7), 1019–1044.
- Jap, S. D., & Ganesan, S. (2000). Control mechanisms and the relationship life cycle: Implications for safeguarding specific investments and developing commitment. *Journal of Marketing Research*, 37(2), 227–245.
- Jeffries, F. L., & Reed, R. (2000). Trust and adaptation in relational contracting. *Academy of Management Review*, 25(4), 873–882.
- Joseph, J., & Wilson, A. J. (2018). The growth of the firm: An attention-based view. *Strategic Management Journal*, 39(6), 1779–1800.
- Kale, P., Singh, H., & Perlmutter, H. (2000). Learning and protection of proprietary assets in strategic alliances: Building relational capital. *Strategic Management Journal*, 21(3), 217–237.
- Kapoor, R., & Furr, N. R. (2015). Complementarities and competition: Unpacking the drivers of entrants' technology choices in the solar photovoltaic industry. *Strategic Management Journal*, 36(3), 416–436.
- Klimas, P., Czakon, W., & Fredrich, V. (2022). Strategy frames in co-competition: An examination of co-competition entry factors in high-tech firms. *European Management Journal*, 40(2), 258–272.
- Kline, R. B. (2023). *Principles and practice of structural equation modeling* (5th ed.). New York: Guilford publications.
- Landis, J. R., & Koch, G. G. (1977). The measurement of observer agreement for categorical data. *Biometrics*, 33(1), 159–174.
- Lanzolla, G., & Markides, C. (2021). A business model view of strategy. *Journal of Management Studies*, 58(2), 540–553.
- Li, S. X., & Rowley, T. J. (2002). Inertia and evaluation mechanisms in interorganizational partner selection: Syndicate formation among US investment banks. *Academy of Management Journal*, 45(6), 1104–1119.
- Lubatkin, M., Florin, J., & Lane, P. (2001). Learning together and apart: A model of reciprocal interfirm learning. *Human Relations*, 54(10), 1353–1382.
- Luo, Y. (2024). Paradigm shift and theoretical implications for the era of global disorder. *Journal of International Business Studies*, 55(2), 127–135.
- Maitlis, S., & Christianson, M. (2014). Sensemaking in organizations: Taking stock and moving forward. *Academy of Management Annals*, 8(1), 57–125.
- Martins, L. L., Rindova, V. P., & Greenbaum, B. E. (2015). Unlocking the hidden value of concepts: A cognitive approach to business model innovation. *Strategic Entrepreneurship Journal*, 9(1), 99–117.
- Maula, M. V. J., Keil, T., & Zahra, S. A. (2013). Top management's attention to discontinuous technological change: Corporate venture capital as an alert mechanism. *Organization Science*, 24(3), 926–947.
- McDonald, R. M., & Eisenhardt, K. M. (2020). Parallel play: Startups, nascent markets, and effective business-model design. *Administrative Science Quarterly*, 65(2), 483–523.
- Möller, K., & Halinen, A. (2017). Managing business and innovation networks—From strategic nets to business fields and ecosystems. *Industrial Marketing Management*, 67, 5–22.
- Mount, M. P., Baer, M., & Lupoli, M. J. (2021). Quantum leaps or baby steps? Expertise distance, construal level, and the propensity to invest in novel technological ideas. *Strategic Management Journal*, 42(8), 1490–1515.
- Muthén, L. K., & Muthén, B. O. (1998–2022). *Mplus User's Guide* (8th ed.). Los Angeles, CA: Muthén & Muthén.
- Nailer, C., & Buttriss, G. (2020). Processes of business model evolution through the mechanism of anticipation and realisation of value. *Industrial Marketing Management*, 91, 671–685.
- Nyuur, R. B., Donbesuur, F., Owusu-Yirenkyi, D., Ampong, G. O. A., & Tantawy, A. A. (2023). Owner-managers failure experience and business model innovations in B2B firms: The roles of co-competition, managerial persistence, and financial resource slack. *Industrial Marketing Management*, 113, 128–137.
- Ocasio, W. (1997). Towards an attention-based view of the firm. *Strategic Management Journal*, 18(S1), 187–206.
- Ocasio, W. (2011). Attention to attention. *Organization Science*, 22(5), 1286–1296.
- Ocasio, W., & Joseph, J. (2005). An attention-based theory of strategy formulation: Linking micro-and macroperspectives in strategy processes. In G. Szulanski, J. F. Porac, & Y. Doz (Eds.), *Vol. 22. Strategy process* (pp. 39–61). Bingley, UK: Emerald Group Publishing Limited.
- Ocasio, W., & Joseph, J. (2018). The attention-based view of great strategies. *Strategy Science*, 3(1), 289–294.
- Ocasio, W., & Radoynovska, N. (2016). Strategy and commitments to institutional logics: Organizational heterogeneity in business models and governance. *Strategic Organization*, 14(4), 287–309.
- O'Reilly, C. A., III, & Tushman, M. L. (2021). *Lead and disrupt: How to solve the innovator's dilemma*. Stanford: Stanford University Press.
- Osiyevskyy, O., & Dewald, J. (2015). Explorative versus exploitative business model change: The cognitive antecedents of firm-level responses to disruptive innovation. *Strategic Entrepreneurship Journal*, 9(1), 58–78.
- Osterwalder, A., & Pigneur, Y. (2010). *Business model generation: A handbook for visionaries, game changers, and challengers*. Indianapolis: Wiley.
- Park, B.-J. R., Srivastava, M. K., & Gnyawali, D. R. (2014). Walking the tight rope of co-competition: Impact of competition and cooperation intensities and balance on firm innovation performance. *Industrial Marketing Management*, 43(2), 210–221.
- Patzelt, H., Lechner, C., & Klaukien, A. (2011). Networks and the decision to persist with underperforming R&D projects. *Journal of Product Innovation Management*, 28(5), 801–815.
- Poppo, L., Zhou, K. Z., & Ryu, S. (2008). Alternative origins to interorganizational trust: An interdependence perspective on the shadow of the past and the shadow of the future. *Organization Science*, 19(1), 39–55.
- Raffaelli, R., Glynn, M. A., & Tushman, M. (2019). Frame flexibility: The role of cognitive and emotional framing in innovation adoption by incumbent firms. *Strategic Management Journal*, 40(7), 1013–1039.
- Rai, R. K. (2016). A co-opetition-based approach to value creation in interfirm alliances: Construction of a measure and examination of its psychometric properties. *Journal of Management*, 42(6), 1663–1699.
- Reagens, R. (2010). Close encounters: Analyzing how social similarity and propinquity contribute to strong network connections. *Organization Science*, 22(4), 835–849.
- Ritala, P., & Hurmelinna-Laukkanen, P. (2013). Incremental and radical innovation in co-competition—The role of absorptive capacity and appropriability. *Journal of Product Innovation Management*, 30(1), 154–169.
- Ritala, P., & Sainio, L.-M. (2014). Co-competition for radical innovation: Technology, market and business-model perspectives. *Technology Analysis & Strategic Management*, 26(2), 155–169.
- Roijakkens, N., Hagedoorn, J., & van Kranenburg, H. (2005). Dual market structures and the likelihood of repeated ties – Evidence from pharmaceutical biotechnology. *Research Policy*, 34(2), 235–245.
- Runge, S., Schwens, C., & Schulz, M. (2022). The invention performance implications of co-competition: How technological, geographical, and product market overlaps shape learning and competitive tension in R&D alliances. *Strategic Management Journal*, 43(2), 266–294.
- Sampson, R. C. (2007). R&D alliances and firm performance: The impact of technological diversity and alliance organization on innovation. *Academy of Management Journal*, 50(2), 364–386.
- Sanchita, K., & Gupta, S. (2023). Strategies for value reconfiguration in online platforms. *California Management Review*, 66(1), 72–95.
- Schilling, M. A. (2009). Understanding the alliance data. *Strategic Management Journal*, 30(3), 233–260.
- Snihur, Y., & Markman, G. (2023). Business model research: Past, present, and future. *Journal of Management Studies*, 60(8), e1–e14.
- Spieth, P., Breitenmoser, P., & Röth, T. (2023). Business model innovation: Integrative review, framework, and agenda for future innovation management research. *Journal of Product Innovation Management*. <https://doi.org/10.1111/jpim.12704> (in press).
- Stabell, C. B., & Fjeldstad, Ø. D. (1998). Configuring value for competitive advantage: On chains, shops, and networks. *Strategic Management Journal*, 19(5), 413–437.
- Suddaby, R., Bitektine, A., & Haack, P. (2017). Legitimacy. *Academy of Management Annals*, 11(1), 451–478.
- Suroca, J., Prior, D., & Tribó Giné, J. A. (2014). Using panel data dea to measure CEOs' focus of attention: An application to the study of cognitive group membership and performance. *Strategic Management Journal*, 37(2), 370–388.
- Szulanski, G., Cappetta, R., & Jensen, R. J. (2004). When and how trustworthiness matters: Knowledge transfer and the moderating effect of causal ambiguity. *Organization Science*, 15(5), 600–613.
- Tallman, S., Luo, Y., & Buckley, P. J. (2018). Business models in global competition. *Global Strategy Journal*, 8(4), 517–535.

- Täuscher, K. (2018). Using qualitative comparative analysis and system dynamics for theory-driven business model research. *Strategic Organization*, 16(4), 470–481.
- Täuscher, K., Bouncken, R., & Pesch, R. (2021). Gaining legitimacy by being different: Optimal distinctiveness in crowdfunding platforms. *Academy of Management Journal*, 64(1), 149–179.
- Täuscher, K., & Laudien, S. M. (2017). Understanding platform business models: A mixed methods study of marketplaces. *European Management Journal*, 36(3), 319–329.
- Thorgren, S., & Wincent, J. (2011). Interorganizational trust: Origins, dysfunctions and regulation of rigidities. *British Journal of Management*, 22(1), 21–41.
- Tidström, A. (2014). Managing tensions in cooptation. *Industrial Marketing Management*, 43(2), 261–271.
- Tuggle, C. S., Sirmon, D. G., Reutzel, C. R., & Bierman, L. (2010). Commanding board of director attention: Investigating how organizational performance and CEO duality affect board members' attention to monitoring. *Strategic Management Journal*, 31(9), 946–968.
- Velu, C. (2016). Evolutionary or revolutionary business model innovation through competition? The role of dominance in network markets. *Industrial Marketing Management*, 53, 124–135.
- Vuori, T. O., & Huy, Q. N. (2015). Distributed attention and shared emotions in the innovation process how Nokia lost the smartphone battle. *Administrative Science Quarterly*, 61(1), 9–51.
- Weber, C., Bauke, B., & Raibulet, V. (2016). An empirical test of the relational view in the context of corporate venture capital. *Strategic Entrepreneurship Journal*, 10(3), 274–299.
- West, S. G., Finch, J. F., & Curran, P. J. (1995). Structural equation models with nonnormal variables: Problems and remedies. In R. H. Hoyle (Ed.), *Structural equation modeling: Concepts, issues and applications* (pp. 56–75). Thousand Oaks: Sage.
- White, J. V., Markin, E., Marshall, D., & Gupta, V. K. (2022). Exploring the boundaries of business model innovation and firm performance: A meta-analysis. *Long Range Planning*, 55(5), Article 102242.
- Withers, M. C., Ireland, R. D., Miller, D., Harrison, J. S., & Boss, D. S. (2018). Competitive landscape shifts: The influence of strategic entrepreneurship on shifts in market commonality. *Academy of Management Review*, 43(3), 349–370.
- Yadav, N., Kumar, R., & Malik, A. (2022). Global developments in cooptation research: A bibliometric analysis of research articles published between 2010 and 2020. *Journal of Business Research*, 145, 495–508.
- Yan, Y., Dong, J. Q., & Faems, D. (2020). Not every cooptation is the same: The impact of technological, market and geographical overlap with cooptations on firms' breakthrough inventions. *Long Range Planning*, 53(1), Article 101873.
- Young-Ybarra, C., & Wiersema, M. (1999). Strategic flexibility in information technology alliances: The influence of transaction cost economics and social exchange theory. *Organization Science*, 10(4), 439–459.
- Zahra, S. A., Yavuz, R. I., & Ucbasaran, D. (2006). How much do you trust me? The dark side of relational trust in new business creation in established companies. *Entrepreneurship Theory and Practice*, 30(4), 541–559.
- Zhao, E. Y., Fisher, G., Lounsbury, M., & Miller, D. (2017). Optimal distinctiveness: Broadening the interface between institutional theory and strategic management. *Strategic Management Journal*, 38(1), 93–113.
- Zheng, L., Wechtler, H. M., Heyden, M. L. M., & Bouncken, R. B. (2024). Global disasters and the luck of the draw? A serendipity perspective on MNE responses to global disasters. *Journal of International Management*, 30(1), Article 101084.
- Zott, C., & Amit, R. (2008). The fit between product market strategy and business model: Implications for firm performance. *Strategic Management Journal*, 29(1), 1–26.
- Zott, C., & Amit, R. (2010). Business model design: An activity system perspective. *Long Range Planning*, 43(2–3), 216–226.