

1 Power in a startup's relationships with its established partners:

2 Interactions between structural and behavioural power

3
4 Tamara Oukes; Center for Entrepreneurship, Strategy, and Innovation Management (NIKOS); Faculty of
5 Behavioural, Management and Social sciences (BMS); University of Twente; P.O. Box 217, 7500 AE Enschede,
6 The Netherlands; t.oukes@utwente.nl; 053-489 1057.

7 Ariane von Raesfeld; Center for Entrepreneurship, Strategy, and Innovation Management (NIKOS); Faculty of
8 Behavioural, Management and Social sciences (BMS); University of Twente; P.O. Box 217, 7500 AE Enschede,
9 The Netherlands; a.m.vonraesfeldmeijer@utwente.nl.

10 Aard Groen; Center for Entrepreneurship, Strategy, and Innovation Management (NIKOS); Faculty of
11 Behavioural, Management and Social sciences (BMS); University of Twente; P.O. Box 217, 7500 AE Enschede,
12 The Netherlands; a.j.groen@utwente.nl.

13 on behalf of the PCDIAB consortium.

14 15 Highlights

- 16 • Structural and behavioral power interact through perceived power
- 17 • A start-up often feels more powerful than expected based on its structural power
- 18 • Power tactics are chosen based on closeness, level of conflict and expectations
- 19 • A start-up can benefit more from conciliatory than hostile power-use tactics
- 20 • Third actors' power can play an important role in a startup's dyadic power episodes

22 **Abstract**

23 Power plays a key role in the relationships between startups and established organisations. Yet researchers have
24 devoted little attention to the startup's perspective on power in such relationships. To study startups' view on
25 power, a useful starting point is their structural power, but this also requires an investigation of their power
26 behaviour. We explore how structural and behavioural power interrelate in a startup's relationships with its
27 established partners in the medical device business. Our longitudinal, embedded case study reveals nine
28 interaction episodes in which power plays a decisive role. The power episodes show that the case startup often
29 uses hostile power use tactics because it overestimates its structural power. Since its established partners
30 recognise its lack of power, they usually do not accept such behaviour. Thus, the case startup could not extract
31 the intended benefits. Nonetheless, we find that the case startup could benefit from its relationships if it
32 employs conciliatory power use tactics or power change tactics. With these insights, we contribute to the
33 startup business relationship literature by providing a better understanding of startups' experience with power.
34 We also extend the power literature by showing that it is the perception of power that determines power
35 behaviour rather than the de facto structural potential.

36

37 **Key words:** startup; structural, behavioural, perceived and realised power; established organisations

38

39 **1 INTRODUCTION**

40 When startups are founded, they are usually exposed to liabilities of smallness and newness: they lack the
41 resources (e.g. financial, human, social and/or marketing capital) and have not yet established the business
42 relationships (e.g. with suppliers and customers) necessary to successfully exploit opportunities for new
43 products and services (Aaboen, Holmen & Pedersen, 2017; Bruderl & Schussler, 1990; Laage-Hellman, Landqvist
44 & Lind, 2017). These liabilities can be compensated for by interacting with other organisations (Das & He, 2006;
45 Håkansson, Ford, Gadde, Snehota & Waluszewski, 2009). Research has shown that especially relationships with
46 established organisations are a major source of financial and non-financial resources (Baum, Calabrese &
47 Silverman, 2000; Deeds & Hill, 1996). They can also provide startups with the legitimacy and endorsement they
48 need to survive (Bengtsson & Johansson, 2012; Stuart, 2000). However, startups and established organisations

49 do usually not have compatible goals, shared benefits and mutual interdependence (Chicksand, 2015). Thus,
50 their interactions are usually characterised by disagreements about what to do and how to do it. To coordinate
51 their relationship, they need to negotiate and use their power, because there is a lack of formal hierarchy
52 (Achrol, 1997; Pfeffer, 2009; Whetten, 1981). Thus, power is an important characteristic of interactions between
53 startups and established organisations, and an unavoidable mechanism to decide on an appropriate course of
54 action (Achrol, 1997).

55 However, few studies have investigated startups' views on and experience with power in relationships with
56 established organisations. Researchers have directed considerable attention to power's roles in buyer-supplier
57 relationships. For instance, they have researched how power-advantaged partners use their power to influence
58 less powerful partners (for an overview, see Habib, Bastl & Pilbeam, 2015; Johnsen & Lacoste, 2016). However,
59 in its early stages, a startup will not always have customers or suppliers yet (Aaboen, Dubois & Lind, 2011; La
60 Rocca, Ford & Snehota, 2013). Accordingly, they will also develop their initial business idea by interacting with
61 universities, research institutes, governmental institutes, non-profit organisations and the like (Zeng, Xie &
62 Tam, 2010). Previous research, such as work by Herlin and Pazirandeh (2012) and Tang, Tang and Katz (2014),
63 indicates that power also shapes the interactions with these types of established organisations. However, these
64 studies have focused on established non-profit organisations and small and medium-sized enterprises (SMEs)
65 which, unlike startups, are not (as strongly) confronted by liabilities of newness (Bruderl & Schussler, 1990).
66 Also, research into startups' business relationships has either ignored power altogether or has treated it in less
67 depth. It has primarily focused on other topics, such as resource complementarity (Rothaermel & Boeker, 2008),
68 initial customer relationships (Aaboen et al., 2011; La Rocca et al., 2013), partner selection (Das & He, 2006;
69 Diestre & Rajagopalan, 2012), capabilities (Chen, Zou & Wang, 2009; Vandaie & Zaheer, 2014) and network
70 composition (Baum et al., 2000; Hoehn-Weiss & Karim, 2014).

71 To create an understanding of power, researchers have typically used either a structural or a behavioural
72 perspective (Meehan & Wright, 2012; Olsen, Prenkert, Hoholm & Harrison, 2014). The structural perspective
73 understands power as the underlying potential to influence future outcomes (Provan, 1980), while the
74 behavioural perspective interprets power as the exercise of this structural potential (Molm, 2009). On the one
75 hand, studies from a structural perspective have shown that startups are usually in a power-disadvantaged
76 position vis-à-vis their established partners owing to their liabilities of newness and smallness (Gardet & Fraiha,

77 2012). Thus, the relationship's benefits are often skewed towards the established organisation (Alvarez &
78 Barney, 2001). On the other hand, studies from a behavioural perspective have shown that power-
79 disadvantaged organisations are not locked into a power position (Cowan et al., 2015). They can undertake
80 power change tactics (Kim, Pinkley & Fragale, 2005) to impose their will on a powerful partner and can mediate
81 against a powerful partner's power (Johnsen & Lacoste, 2016). For instance, Tang, Tang and Katz (2014) have
82 taken a behavioural perspective to show that proactiveness can decrease a SME's power differences with the
83 media and government. Structural and behavioural power must be understood as simultaneous,
84 complementary processes because "*structure arises from the actions of people and these actions are shaped by*
85 *structure*" (Brass & Burkhardt, 1993, p. 443). Nonetheless, Olsen et al. (2014) have shown that few studies have
86 combined the two approaches (see also Huxham & Beech, 2009; Meehan & Wright, 2012). A few exceptions –
87 such as Lai (2009) as well as Plouffe, Bolander, Cote and Hochstein (2016) – have simultaneously applied the
88 two approaches to study power in buyer-supplier relationships, but did not investigate the unique context of
89 startups' interactions with established organisations.

90 There is a need to create a better understanding of power in the interactions between startups and established
91 organisations from a startup's perspective. Moreover, research must go beyond studies with a single power
92 approach towards investigations of both structural and behavioural power in such interactions. We address
93 these needs by investigating the following research question: *How do structural and behavioural power interact*
94 *in a startup's relationships with its established partners?* To answer this question, we conduct a longitudinal case
95 study on a startup with R&D relationships with seven powerful established organisations – a teaching hospital,
96 a health foundation, a market leader, a research institute, a software company, an industry player and a
97 glucagon provider – to develop a new medical device for the treatment of diabetes. The primary focus is on
98 power's roles in the case startup's interactions with its established partners from the startup's perspective. Yet
99 power is a relational concept (Huxham & Beech, 2009), i.e. a startup's structural and behavioural power cannot
100 be fully explained without considering those of its partners (Meehan & Wright, 2012; Oukes & Raesfeld, 2016a;
101 Rutherford & Holmes, 2008). For this reason, we take an interactive approach to study power's roles in this
102 startup's interactions with its established partners.

103 We seek to contribute to the startup business relationship and power literatures. First, we extend the startup
104 business relationship literature by studying power's under-examined roles in the interactions between a startup

105 and its established partners. Second, we contribute to the power literature by investigating power in these
106 interactions from a structural and a behavioural perspective simultaneously rather than by applying a single
107 approach. We also seek to provide support to startup managers. Through a better understanding of power's
108 roles in their interactions with established partners, startup managers will be better able to understand a
109 partner's perspective (Barbuto & Gifford, 2009). Further, they will have a more transparent vision of their own
110 and their partner's current and future power (Lacoste & Johnsen, 2015; Lee & Johnsen, 2012). In turn, they are
111 better equipped to enact desired changes, set development properties, manage problems and make decisions
112 that will impact on how they are perceived and valued (Barbuto & Gifford, 2009; Lee & Johnsen, 2012).

113 This paper proceeds with the state-of-the-art literature regarding the structural and behavioural approaches to
114 power and the relationships between them. In the methodology, we briefly describe our research design. This
115 is followed by a detailed description of nine power episodes between the case startup and its established
116 partners. Drawing on this description, we summarise the interactions between the case startup's structural and
117 behavioural power and its established partners. We conclude with an analysis of our findings, theoretical
118 contributions, managerial implications, our study's limitations and suggestions for further research.

119 **2 THEORETICAL FRAMEWORK**

120 There are two approaches to understanding power (Brass & Burkhardt, 1993; Huxham & Beech, 2009; Olsen et
121 al., 2014; Pfeffer, 2009). The first approach focuses on structural capacity (Pfeffer, 2009) and reflects the
122 properties of a social system (Brass & Burkhardt, 1993). It provides a structural perspective on power, since it
123 refers to the larger organisational context in which the day-to-day operations of an inter-organisational
124 relationship take place (Brass & Burkhardt, 1993; Huxham & Beech, 2009). The second approach to power
125 derives from an organisation's particular actions within a structural context (Brass & Burkhardt, 1993; Pfeffer,
126 2009). It offers a behavioural perspective on power, because it focuses on the day-to-day enactment of power
127 between organisations (Huxham & Beech, 2009). The structure-behaviour split also exemplifies the distinction
128 between *potential power* and *power use* (Brass & Burkhardt, 1993) and the *macro-level* and *micro-level*
129 perspectives on power (Huxham & Beech, 2009). We will now explain the structural and behavioural
130 perspectives on power and will then relate the two perspectives based on Kim et al.'s (2005) framework.

131 2.1 *Structural power: Resource control, network position and formal position*

132 Although various structural sources of power at different levels have been identified (Huxham & Beech, 2009),
133 they can be categorised into three types. The first type includes work that argues that power derives from
134 control over resources (Pfeffer, 2009) needed by another (Pfeffer & Salancik, 1978). These organisations that
135 control the supply of critical resources that are not controlled or mediated by others acquire power, since they
136 increase others' dependence on them (Astley & Sachdeva, 1984; Brass & Burkhardt, 1993). For instance, Forshey
137 (2014) shows that the initial bargaining position of a startup and an established organisation are based on the
138 control over resources desired by the other. Startups with more valuable resources receive a greater financial
139 contribution from their established partner. Yet when established organisations control more valuable
140 complementary resources, such as manufacturing capabilities and commercialisation experience, they decrease
141 their financial contribution to the partnership beyond a fair market exchange. In turn, this limits startups' ability
142 to profit from the innovations they create (Forshey, 2014).

143 A second form of structural power derives from an organisation's position in its network (Astley & Sachdeva,
144 1984; Huxham & Beech, 2009; Pfeffer, 2009). To survive, grow and prosper, startups need to initiate business
145 relationships (Bliemel & Maine, 2008). Startups are more likely to form relationships with well-positioned
146 organisations owing to their access to potential partners (Ahuja, Polidoro & Mitchell, 2009) and relevant
147 resources (Brass & Burkhardt, 1993). For instance, Oukes and Raesfeld (2016b) show that a medical startup was
148 almost exclusively reliant on two well-positioned established organisations to develop its relationship portfolio.
149 Thus, established organisations that are central to a network (i.e. with many direct relationships with other
150 organisations) are in a strong position to influence startups (Huxham & Beech, 2009; Pfeffer, 2009). Especially
151 organisations that occupy a bridging position between two or more unconnected or weakly connected
152 organisations acquire power, since they provide value or benefits by accessing information or social ties that
153 other organisations cannot (Burt, 1992; Pfeffer, 2009). Indeed, Olsen et al. (2014) have found that retailers with
154 a gatekeeper function are able to encourage, direct and force suppliers to restructure their activities for their
155 own benefit.

156 A third structural source of power is the influence that derives from occupying a formal position. An official
157 position come with hierarchical authority rights: the right to make decisions and to allocate tasks and resources
158 (Astley & Sachdeva, 1984; Pfeffer, 2009). Inter-organisational relationships are usually considered to lack

159 traditional hierarchy. Yet there may be situations in which an organisation is given formal authority over other
160 organisations in a collaboration via legislative mandate or prior agreement (Provan, 1980). This may especially
161 be the case in government-sponsored multipartner partnerships in which an official lead organisation must be
162 specified (Kassler & Goldsberry, 2005). Conversely, partners may voluntarily appoint decision rights and
163 authority to a lead organisation to allow for effective decision-making in a multipartner setting (Albers,
164 Schweiger & Gibb, 2015). The organisation with formal authority can dominate decisions about which
165 organisations to involve and how joint objectives are formed and carried out (Huxham & Beech, 2009).
166 Thorgren, Wincent and Boter (2012) have shown that especially startups are more likely to comply with group
167 norms determined by a lead organisation in a multipartner partnership than large organisations. They typically
168 have less power vis-à-vis other participants, since they are highly dependent on participation in a multipartner
169 partnership. Thus, a startup risks losing its access to a partner's resources if it violates group norms. Further,
170 breaking such norms may signal a lack of social competence, allowing distrust to develop (Thorgren et al., 2012).

171 2.2 *Behavioural power: Power change and power use tactics*

172 Behavioural power studies investigate the power tactics an organisation employs to influence its partner (Brass
173 & Burkhardt, 1993; Kim et al., 2005). In specific, *power use tactics* concern the ways in which organisations may
174 attempt to leverage structural power sources, while *power change tactics* concern the ways in which they
175 attempt to alter a power relationship (Kim et al., 2005).

176 **Power change tactics.** Organisations sometimes perceive that they possess insufficient structural power to
177 obtain desired outcomes. As can be concluded from the discussion above, startups often have less structural
178 power than their established partner. When one organisation primarily holds the power, its partner may attempt
179 to improve its own power to acquire a greater share of the total exchange value (Bazyar, Teimoury, Fesharaki,
180 Moini & Mohammadi, 2013; Ford, Wang & Vestal, 2012; Kim et al., 2005; Lacoste & Johnsen, 2015). Kim et al.
181 (2005) argue that there are four basic power change tactics – also known as power-balancing process (Hallen,
182 Katila & Rosenberger, 2014; Molm, 2009) and countervailing power (Lacoste & Johnsen, 2015). Organisations
183 can alter a power relationship by 1) improving the quality of their alternatives, 2) decreasing the quality of a
184 partner's alternatives, 3) decreasing the valuation of a partner's contribution, and 4) increasing a partner's
185 valuation of their own contribution. The weaker organisation therefore seeks to reduce the power asymmetry

186 by either increasing the importance of its own contribution to the stronger actor, or decreasing the importance
187 of the stronger organisation's contribution for itself (Habib et al., 2015).

188 **Power use tactics.** Once an organisation perceives that it has sufficient structural power, it is inclined to exercise
189 power use tactics – also known as influence strategies (Lai, 2009) – to obtain desired benefits (Kim et al., 2005).
190 However, an organisation can also act as if it has power since its partners usually do not operate with complete
191 information (Brass & Burkhardt, 1993). Therefore, startups may also create the impression that they have power
192 by applying power use tactics. There are two major research traditions in the study of power use tactics: the
193 business-to-business (B2B) marketing and channels literature and the management and
194 industrial/organisational psychology literature. A review of both literatures identifies 11 unique power use
195 tactics: consultation, collaboration, personal appeal, inspirational appeal, apprising, integration, exchange,
196 coalition, legitimation and pressure (Plouffe et al., 2016). However, Kim et al. (2005) conclude that an
197 overwhelming number of tactics is not helpful as an organising framework for a theoretical analysis. Instead,
198 they propose using the broad distinction between conciliatory and hostile power use tactics (Lawler, 1992).
199 Conciliatory tactics involve *positive* acts, such as coordination or collaboration, to extract benefits in ways that
200 reduce a partner's damage. Hostile tactics refer to *negative* acts, such as competition, intimidation and
201 resistance, to extract benefits in ways that increase the harm to a partner (Kim et al., 2005).

202 2.3 *The interaction between structural and behavioural power*

203 The structural and behavioural perspectives on power can be viewed and are usually treated as alternative
204 explanations (Brass & Burkhardt, 1993). However, power is not only potential in that it derives from structures,
205 but also actual in that it only exists when used. All the structural power available to an organisation is seldom
206 exercised in all circumstances (Provan, 1980). Its exercise depends on an organisation's structural power and the
207 structural power and power behaviour of those with which it interacts (Oukes & Raesfeld, 2016a; Rutherford &
208 Holmes, 2008). For instance, an organisation can have structural power owing to its possession of and access to
209 resources, but whether it enacts that power depends on its partner's power and behaviour. Thus, structural
210 power can be possessed, but its exercise is spatially and temporally contingent (Rutherford & Holmes, 2008).
211 Owing to this two-sided interaction between structural and behavioural power over time, power is inherently
212 dynamic.

213 Kim et al. (2005) offer a two-sided dynamic framework to explain how structural power relates to behavioural
214 power. The framework was designed to explain interpersonal power in negotiations within organisations.
215 Interpersonal power within organisations is different from power in inter-organisational relationships. The main
216 difference is the form of power that can be used to coordinate activities: inter-organizational coordination builds
217 on subtle forms of power (i.e. resource control and networks centrality), while it also occurs through an
218 overarching formal authority structure within organisations (Achrol, 1997; Whetten, 1981). However, inter-
219 organisational relationships are embedded in networks of personal relationships (Granovetter, 1985):
220 individuals represent the organisation and negotiate on its behalf (Wilkinson, 1996). For this reason, they are
221 also subject to elements of interpersonal relationships (Whetten, 1981), such as social, friendship and reputation
222 influences (Achrol, 1997; Meehan & Wright, 2012). Especially, Larson (1992) shows that personal relationships
223 play an important role in the initiation, coordination and control of startups' business relationships. Thus,
224 interpersonal power frameworks are shown to be powerful in explaining power at the inter-organisational level
225 (e.g. Davenport & Leitch, 2005; Ford et al., 2012). In addition, Herbst, Schwartz and Voeth (2008) have shown
226 that the differences in negotiation characteristics (e.g. the parties, interests, processes and outcomes) between
227 intra-organisational and inter-organisational negotiations are limited. Thus, we propose that Kim et al.'s (2005)
228 framework is also applicable to study power in interaction between startups and established organisations.
229 Accordingly, we describe it here from an inter-organisational perspective. The framework relates structural to
230 behavioural power through linking it to perceived power and realised power. Since we explained structural and
231 behavioural power in Sections 2.1 and 2.2, we will now focus on perceived power, realised power and the
232 underlying relationships.

233 **Perceived power.** Perceived power is defined as an organisation's assessments of its own structural power and
234 its partner's structural power (Kim et al., 2005; Wolfe & McGinn, 2005). Perceived power is an important concept
235 if one is to understand the relationship between structural and behavioural power (Huxham & Beech, 2009).
236 Nonetheless, the concept has received limited attention in the inter-organisational power literature, because it
237 generally does not question the objectivity of respondent-reported power (Huxham & Beech, 2009; Meehan &
238 Wright, 2012). Yet these responded-reported interpretations of power are more consistent with perceived
239 power than with structural power (Meehan & Wright, 2012). Previous research has shown that organisations'
240 perceptions of their power do not correspond well to their structural power, i.e. their perceived power may

241 diverge from their actual potential (Kim et al., 2005; Wilkinson, 1996; Wolfe & McGinn, 2005). Since there is an
242 absence of perfect information and there is bounded rationality (Kim et al., 2005), organisations cannot be
243 aware of everything that goes on their own and their partners' organisations. They fill in these blanks based on
244 witnessed power behaviour and other information sources. In turn, it is likely that their power perceptions are
245 distorted (Pinkley, 1995; Provan, 1980; Wolfe & McGinn, 2005). Further, the power perceptions of two or more
246 partners in a relationship are likely misaligned (Huxham & Beech, 2009). Thus, an organisation tends to form an
247 imperfect perception of its own and the other's structural power. In turn, this imperfect power perception
248 determines the way organisations change and use their power. In other words, it is the perception of power,
249 rather than the actual structural potential, that drives power behaviour (Huxham & Beech, 2009; Molm, 2009;
250 Wilkinson, 1996; Wolfe & McGinn, 2005).

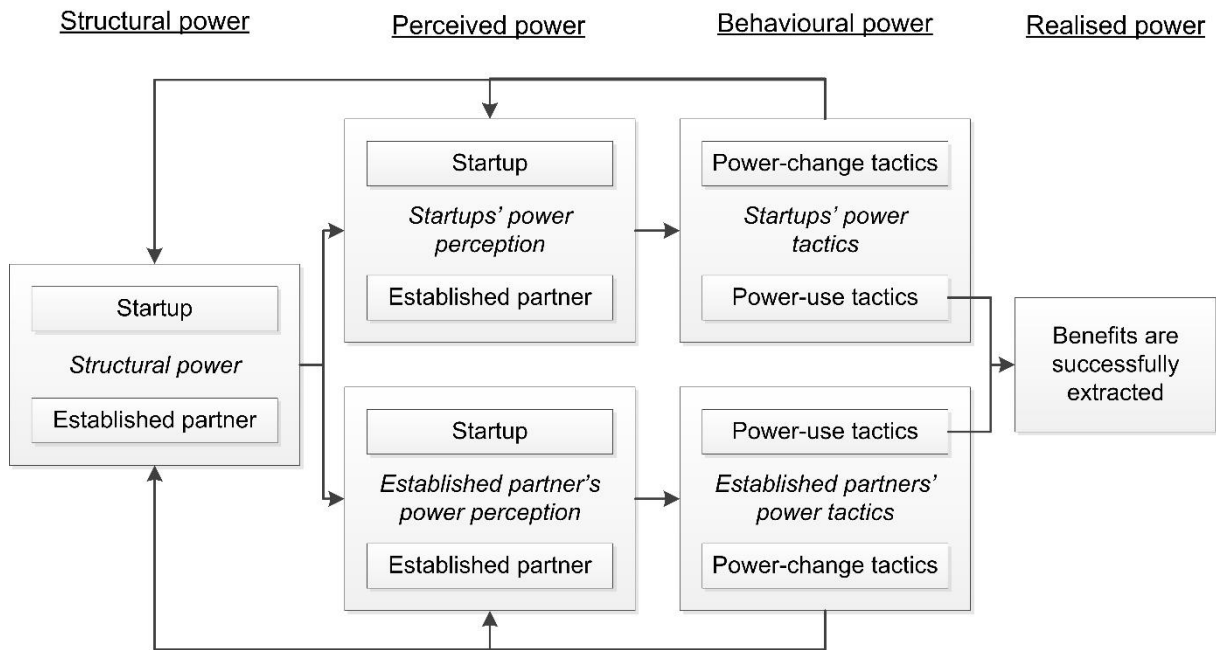
251 **Realised power.** Realised power refers to the extent to which organisations extract benefits from a relationship
252 through their power behaviour. The implementation of power tactics directly influences the extent to which an
253 organisation can realise power (Kim et al., 2005; Wilkinson, 1996). The extent to which it uses power will also
254 affect the accumulation and loss of (perceived) structural power (Huxham & Beech, 2009; Kim et al., 2005;
255 Wilkinson, 1996). The consequences of power use tactics for the relative power of two organisations depend on
256 the type of tactic employed. Kim et al. (2005) suggest that an organisation will gain power if it uses conciliatory
257 tactics, while it will lose power if it uses hostile tactics. Further, an organisation can build a reputation for being
258 powerful through its power change tactics. If an organisation changes others' power perception, this perception
259 may become a reality and it will gain power by being seen as being powerful (Ford et al., 2012). Thus, power
260 behaviour can determine realised power and may modify the structural and perceived power of two
261 organisations (Brass & Burkhardt, 1993; Kim et al., 2005; Molm, 2009; Wilkinson, 1996).

262 Our theoretical discussion makes it possible to explain how a startup and its partner's structural and behaviour
263 power interact by linking this to perceived and realised power. A startup and its established partner have a de
264 facto power potential (i.e. structural power) derived from their resource control, network centrality and formal
265 position. Based on this potential, they form an – often inaccurate – perception of their own and their partner's
266 structural power. This perception, rather than their structural power, determines their power behaviour,
267 reflected in the power tactics they employ: power change tactics (i.e. increasing one's own or decreasing one's
268 partner's contribution) or power use tactics (i.e. using conciliatory or hostile tactics). In turn, the behaviour of a

269 startup and its partner affects the extent to which they can derive the intended benefits from their relationship
 270 (i.e. realised power). Also, their power behaviour may change their structural and perceived power. These
 271 relationships are summarised in Figure 1.

272 -----
 273 Insert Figure 1 about here
 274 -----

275



276
 277 **Figure 1.** A framework of power in relationships between startups and established partners (adapted from Kim et al., 2005)

278

279 **3 METHODOLOGY**

280 We used a case study approach to investigate how structural and behavioural power interact in a startup's
 281 relationships with its established partners. We chose a case study approach for three reasons: 1) the choice for
 282 a case study was apparent because our study involves a social process (Swanborn, 2013); 2) a case study's
 283 inherent flexibility suits the study of complex, evolving relationships and interactions (Beverland & Lindgreen,
 284 2010); and 3) a case study allowed us to understand not just that something happened, but also how and why it
 285 happened (Huberman & Miles, 1994).

286 3.1 *Subject of study*

287 The empirical data collection involved an in-depth case study of a startup in the medical device business. The
288 case startup was developing a closed-loop bi-hormonal artificial pancreas, a new medical device for the
289 treatment of diabetes type 1 patients. This breakthrough in diabetes management included the automated
290 administration of insulin and glucagon while the patient's glucose level was continuously monitored. The case
291 startup had a partially developed product and highly specific expertise with new technologies. However,
292 startups in the medical device industry usually lack the following: sufficient cash to continue product
293 development, technical expertise with the clinical trials process, manufacturing capabilities and
294 commercialisation experience (Forshey, 2014). Consequently, the case startup collaborated with established
295 organisations to overcome such weaknesses. We included all established partners that were crucial to the
296 development of the case startup's artificial pancreas, whether or not they are (potential) customers/suppliers.
297 Specifically, the case startup's five established partners were: 1) a teaching hospital that ran crucial clinical trials
298 on the artificial pancreas, 2) a health foundation that connected the startup with key partners through its large
299 network, 3) a research institute that developed a new sensor type that very accurately measures blood glucose
300 levels, 4) a market leader in the diabetes market that could facilitate the marketing, sale and distribution of the
301 artificial pancreas, and 5) a glucagon supplier that developed stable liquid glucagon, which is essential for the
302 successful commercialisation of the artificial pancreas. Further, the case startup was involved in a Europe-
303 funded project with six other organisations: the teaching hospital, a technical university, a medical university,
304 an established industry player, a clinical research institute and a software company. The project sought to boost
305 the development of the artificial pancreas and to bring it to the market as soon as possible.

306 3.2 *Data collection*

307 We collected the empirical data from the establishment of the case startup in 2008 until May 2016: from 2008
308 until April 2013, we conducted a retrospective analysis; from April 2013 until May 2016, we followed the case
309 startup in real time. To improve the study's validity (Beverland & Lindgreen, 2010), we combined three data
310 collection methods to investigate the case startup during this period. First, we interviewed nine representatives
311 from the case startup and its more powerful partners. The interviews were semistructured, yet flexible enough
312 to enable interviewees to give examples, go into detail about important situations, and leave room for
313 discussion. We held the interviews with the case startup in June and July 2013 and structured them as follows:

314 1) how the startup and its artificial pancreas had developed since its establishment; 2) how the startup's network
315 had evolved over time; 3) which of the startup's relationships were perceived as power-asymmetrical and why;
316 4) how each power asymmetric relationship was initiated and managed. Around the same time, we interviewed
317 seven representatives from the startup's established partners. These interviews centred on how the partner
318 initiated and managed relationships with startups in general and with this startup. In December 2014, we
319 conducted a second set of interviews. The two interviews with the case startup were structured around how,
320 since the previous interview: 1) the startup and its artificial pancreas had developed; 2) the network had evolved;
321 3) the power asymmetry between the startup and its partners had changed; and 4) each power asymmetrical
322 relationship was initiated (only in the case of a new partner) and managed. Consecutively, we did five interviews
323 with representatives from the startup's established partners, which were structured as follows: 1) how the
324 partner experienced the power asymmetry with the startup and 2) how the way the relationship managed had
325 changed since the previous interview. The representatives from the case startup and its partners were also asked
326 to identify important events in the relationship, how they had behaved during these events, and whether (and,
327 if so, how) power asymmetries played a role in their organisation's decision to act in a certain way.

328 Second, our lead author carried out observations during her stay at the case startup. Her role in the case startup
329 can be described as a *participant observer*; she made it clear that she was undertaking research, but she also
330 participated fully in the startup. Between April 2013 and May 2016, she was present for about two days a week
331 at the company's site, while during the other three, she worked at the university. She focused her observations
332 primarily on a limited aspect of the social setting: the case startup's business relationships. In this way, she
333 sought to minimise the risks associated with fully participating in the case startup, but still developed a full
334 appreciation of the case through detailed and long-lived observations. Third, archival documents, such as
335 patents, non-disclosure agreements (NDAs) and project descriptions, were collected from the period between
336 the case startup's establishment in 2008 and May 2016. We primarily used the observations and archival data to
337 improve our understanding of the data collected through the interviews, as well as to design questions for the
338 interviews, which were important for a thorough understanding of the case but were not known when the study
339 was designed (Mack, Woodsong, MacQueen, Guest & Namey, 2005). The data collection involved confidential
340 issues regarding the case startup and its relationships with its established partners. Thus, it was essential to
341 maintain confidentiality. Accordingly, we anonymised the names of the case startup and its partners.

342 3.3 Data analysis

343 We analysed the tape-recorded and transcribed interviews, textual notes of the observations and archival
344 documents with ATLAS.ti. Since this software views a theory as a connected network of links between concepts
345 (Huberman & Miles, 1994), it was suitable for exploring the structural and behavioural power interactions in the
346 relationships between the case startup and its established partners. We analysed the empirical data in three
347 consecutive steps. In step 1, the analysis focused on drawing up a history of the case startup and its evolving
348 network to create an understanding of the context of the phenomena in question. In step 2, we coded the data
349 to identify and categorise: 1) the structural power of the case startup and its partners, 2) their perceptions of
350 their own and the other's structural power, 3) the power change tactics they applied, 4) the power use tactics
351 they employed, and 5) the outcomes associated with the power tactics. We based the coding on the theoretical
352 framework presented in Figure 1. To guide the coding process, we developed 11 questions, as shown in Table 1.
353 The concepts were necessarily tentative in this study. For instance, we found that the case startup and its
354 partners used hostile power tactics not yet identified in the literature, namely the rejection of a partner's
355 request, demand or wish. In the final step, we linked the codes to reveal the relationship between structural
356 power and behavioural power. This analysis step revealed nine episodes in which the relationships between
357 these concepts became particularly visible. An episode "*can be interpreted as a specific point of interaction in time*
358 *in which two or more organisations are dealing with particular matters*" (Oukes & Raesfeld, 2016a, p. 52). Since
359 the case startup and its established partners were specifically dealing with power issues, we called them power
360 episodes. Thus, power episodes are the points in time where either the case startup, its established partner or
361 both attempt to use or to change their power. We will now describe each of these power episodes in turn.

362 -----
363 Insert Table 1 about here
364 -----
365

	Question
Structural power	What resource does the partner have that is needed by the other(s)? How central is the partner's position in the network? What is the partner's formal position?
Perceived power	How does the partner perceive its own power? How does the partner perceive the other's power?
Behavioural power	How does the partner try to influence the other in a conciliatory way? How does the partner try to influence the other in a hostile way? How does the partner try to increase the importance of its own resources? How does the partner try to decrease the importance of the other's resources?
Realised power	Has the other's (perception of) the structural power changed? If so, how? Has the partner benefitted from its influence attempt? If so, how?

366 **Table 1.** Questions to guide the coding process

367 **4 RESULTS**

368 In this section, we describe the nine power episodes between the case startup and its partners. The
369 characteristics of the power plays – structural power, perceived power, power behaviour and power outcomes
370 – have been summarised in Table 2. Sections 4.1 to 4.9 provide in-depth explanations about the structural power
371 of the case startup and its partner, the way they perceived their own and each other's power, and the ways in
372 which they changed or used their power. We also describe whether (and, if so, how) their power behaviour
373 influenced their (perceptions of) structural power. Importantly, we focused solely on the interaction episodes
374 between the case startup and its partners in which power played a decisive role.

375 *4.1 Power episode 1: The teaching hospital almost said no to the relationship with the startup*

376 The first power episode the startup encountered was during the initiation of the relationship with the teaching
377 hospital's diabetology group in 2008. The startup's structural power derived from its technical expertise to
378 develop new diabetes technologies. The teaching hospital's structural power originated from its control over
379 the facilities and the expertise necessary to run clinical trials. Further, the hospital had an extensive network of
380 diabetes patients and several collaborations with other diabetes-related research groups. The startup
381 recognised that it would not be able to run clinical trials by itself and that it needed to collaborate to test the
382 artificial pancreas' performance. The initiation of a relationship with the diabetology group was perceived as
383 particularly critical, since it appeared to be difficult to find a suitable partner. In the previous three years, it had

384 been in contact with various hospitals, but they were either unwilling or unable to collaborate. Nonetheless, the
385 startup anticipated that the diabetology group would be willing to collaborate, because the group did not have
386 people qualified to develop new diabetes technologies. However, the group initially wanted to reject the
387 startup's request to collaborate. As the group head explained: "*there have been more people who believed that*
388 *they had developed an artificial pancreas. I thought that the results in the slides were very bad*". The group also
389 knew that it could refuse a new cooperation as it had sufficient research projects running. Nonetheless, the
390 startup was invited to explain its results in a meeting. The startup took this opportunity to convince the group
391 of its artificial pancreas' usefulness, efficiency and safety. During the meeting, the startup changed the group's
392 perception of the value of its contribution. The group thought that the startup's artificial pancreas was still an
393 idea, but one that was worth testing in clinical trials. In the end, both parties successfully derived benefits from
394 this power episode: they reached an agreement that the diabetology group would run three clinical trials in
395 exchange for 10% of the shares in the startup.

396 4.2 *Power episode 2: How to convince the teaching hospital to do what it had promised?*

397 The startup successfully changed the diabetology group's perception of the artificial pancreas' value and
398 thereby convinced it to collaborate. Although the group agreed to run clinical trials, the startup considered the
399 execution to be too slow. It realised that the diabetology group had the power to limit its effort in the trials,
400 because the group was also involved in another research project with a similar objective but a much larger
401 budget. Thus, the startup felt it was just "*a drop in the ocean*". In turn, it offered the group help to fulfil its
402 agreement by contributing human resources to design, implement and analyse the trials. One of the startup's
403 owners noted that the PhD student assigned to the project by the diabetology group was "*the driving force, but*
404 *she could not have done it on her own without our support. You should monitor patients continuously for sixty hours;*
405 *you cannot do that on your own... We did it, the four of us [the startup's employees at the time] and the PhD*
406 *student*". By the end of 2011, the startup had successfully derived benefits from power episode 2: three clinical
407 trials were run, and they showed promising results.

408 4.3 *Power episode 3: The importance to the startup increases with the European grant*

409 After the three clinical trials, the challenge to attract funding emerged: the startup did not have the financial
410 resources to fund the artificial pancreas' further development. As the diabetology group perceived that the

411 three clinical trials proved the artificial pancreas' potential value, it offered the startup help to acquire funding.
412 Specifically, it used its structural power – i.e. its connections to diabetes-related research groups and its
413 experience with government-funded projects – to successfully apply for funding from the European Commission
414 together with the startup and five other partners. The grant substantially improved the perceived power of the
415 startup. As the group head explained: *“with the grant, the [startup’s] project gained viability... Before, we could*
416 *have endlessly invested our own resources into the project. In the long term, that would not have been feasible for*
417 *us or for the startup”*. As the project’s success depended largely on the startup’s technology, it gained a central
418 position within the project. It also became a more important partner of the diabetology group owing to the
419 financial resources that became available through the grant. The funding also allowed the startup and the
420 teaching hospital to miniaturise the artificial pancreas and to cover the costs of three additional clinical trials.

421 4.4 Power episode 4: Formal authority prevents an investment by the health foundation

422 The startup was not only involved in power struggles with the teaching hospital, but also with the diabetes
423 health foundation. The startup’s structural power stemmed from its expertise to develop a new technology – an
424 artificial pancreas – with the potential to reduce the burden of diabetes. The health foundation’s structural
425 power derived from its control of financial resources to fund diabetes-related research and development. It also
426 had access to a wide network of diabetes-related actors, from research institutes to industry. Yet its most
427 decisive power source was its status as a registered charity with the national fundraising institute. To remain a
428 registered charity, it had to adhere to the institute’s standards. This included that any funding application had
429 to be approved by an independent, international panel of field experts. If it would become known that it did not
430 follow the institute’s standards, it would withdraw the foundation’s status and the number of donations it
431 receives would drop. The expert panel’s power inhibited the foundation from investing in the startup up to three
432 times. In 2009, the startup formally applied for funding for the first time. It anticipated that the health
433 foundation would be willing to invest in its promising new diabetes technology: an artificial pancreas. Yet the
434 expert panel rejected the funding application, because it was not convinced that this project would be more
435 successful than others. The foundation then offered the startup help to fulfil its request, despite this negative
436 decision. It recognised that they needed each other to reach their shared goal: to develop an artificial pancreas.
437 Thus, in 2013, they applied for a local government funding program. The foundation’s head of research
438 explained, *“it would be nonsense to seek review from our expert panel when it is also assessed by the government.*

439 *So, if they accept our proposal, we would have sufficient proof to invest our money*". However, the panel compiled
440 by the government rejected the application, since there was a lack of scientific proof on the startup's artificial
441 pancreas' performance. When the startup and the foundation were applying for government funding, the
442 foundation started to raise donations specifically for the development of the startup's artificial pancreas. The
443 startup used these donations as leverage to persuade the foundation to provide direct financing. Still, it could
444 not understand why the foundation would not want to invest in such a promising new diabetes technology.
445 However, the foundation's head of research mentioned that *"it was difficult, because we did not have the financial*
446 *resources to give a big push, and we had no independent assessment... We wanted to do something with it, but we*
447 *did not yet know how and what*". Despite the three failed attempts to attract financial resources, the foundation
448 used its structural power to support the startup by connecting it to diabetes-related industry partners (e.g.
449 market leader) and knowledge institutions (e.g. the research institute) in its network. In addition, the
450 foundation's head of research said: *"If there is, at any given time, the possibility to amplify each other, we can*
451 *always explore it*". Thus, some benefits were derived from this power episode, even though it was not what the
452 startup had intended.

453 4.5 *Power episode 5: The startup's tries to convince the market leader to invest*

454 In 2012, the startup met with a market leader in the diabetes device market. The startup's structural power
455 originated from its the capabilities to quickly develop a patented artificial pancreas. In contrast, the market
456 leader's structural power derived from its marketing and sales functions, production facilities, distribution
457 network and brand. It also had several alternative attractive investment opportunities, i.e. partnerships with
458 other research groups working to develop artificial pancreas systems. Although there were clear
459 complementarities between these two potential partners, the relationship remained largely non-committal.
460 They only effected a right of first refusal, which gave the market leader the option to buy the startup's artificial
461 pancreas before the latter is entitled to sell it to a third party. In the years that followed, the startup tried to
462 improve the market leader's valuation of its own contribution. It recognised that it was much more dependent
463 on the market leader to commercialise its artificial pancreas than the other way around. Specifically, the startup
464 a) shared clinical trial data and outcomes to show the value of its artificial pancreas, b) explained how it managed
465 the uncertainties of the development process to reduce the market leader's risk perceptions, and c) developed
466 its own knowledge base to gain a better negotiating position. As one of the startup's owners explained: *"you*

467 *must invest in the relationship, otherwise it would not work out. You need to provide proof to that kind of partners*
468 *to convince them to invest in the relationship".* During these years, the market leader also showed its goodwill by
469 providing the startup with components of and accessories for the artificial pancreas. In 2015, the startup
470 perceived that its power was substantially improved owing to its own efforts and the market leader's generosity.
471 Therefore, the startup anticipated that it could sell a minority stake to the market leader for €10 million to fund
472 the commercialisation of the artificial pancreas. However, the market leader's power perception had not
473 changed: it still had the power to reject the opportunity to invest. To persuade the startup to keep it up-to-date
474 with the artificial pancreas's progress, it provided the startup additional components and accessories that,
475 although valuable, were not what the startup had asked for.

476 4.6 *Power episode 6: The impasse between the startup and the research institute*

477 Initially, the relationship between the startup and the research institute was characterised by a relatively
478 symmetrical power structure. The research institute's structural power stemmed from its technical skills to
479 develop a new glucose sensor, while the startup structural power derived from its opportunity to commercialise
480 a new glucose sensor. When the relationship was established in 2012, the startup needed another glucose sensor
481 to improve the artificial pancreas' accuracy. However, it realised that it lacked the necessary technical skills to
482 develop it. As one of the startup's owners stated, *"it is very difficult for us [the startup] to develop a sensor*
483 *ourselves. This can only be done by large organisations".* In contrast, the institute recognised that it had the
484 technological expertise to develop the sensor, but not the possibility to commercialise its ideas. Based on these
485 complementarities, the research institute and the startup decided to start a four-year sensor development
486 project. However, the perception of the institute's own power improved in 2013. By that time, the institute
487 started a multipartner project with the same intentions. It believed this project to be a better alternative than
488 the project with the startup; thus, the relationship lost its value. The institute tried to convince the startup to
489 end their bilateral relationship and join the multipartner project by explaining the benefits of the multipartner
490 project. Yet, the perception of the startup's own power was also improved after closing the deal: it gained the
491 exclusive right to licence the patent once the new glucose sensor was developed. Thus, the startup was only
492 prepared to join if it would keep the exclusive right to license the patent. Yet the institute was unwilling to
493 complete the project so far that it could apply for a patent. It then put pressure on the startup to join the
494 multipartner project by delaying the glucose sensor's development. The startup tried to counteract this attempt

495 by suggesting that this behaviour counters their formal agreement. Both partners expected that they would
496 give in to each other's requests eventually. On the one hand, the startup anticipated that the institute needed
497 the patent to make the multipartner program successful. On the other hand, the institute recognised that it had
498 the power to delay the glucose sensor's development as long as necessary. The conflict between the
499 organisations finally resulted in an impasse. The project should have been finished in 2016, but even year one's
500 project objectives were not completed. Neither party could derive any benefits from this power episode.

501 4.7 *Power episode 7: The conflict between the software company and the startup in the EU project*

502 In the European project, the startup had a relationship with a software company. The software company initially
503 had more structural power than the startup. The company had the expertise to develop a software platform to
504 monitor patients during a clinical trial. It was also formally allocated the task and associated budget in the EU
505 project to develop such a platform. During the project, however, the startup attracted personnel with the
506 capabilities to develop such a platform. Also, the results provided by the company did not live up to its
507 expectations. Therefore, the startup felt more powerful than at the outset and requested a budget shift so that
508 it could develop the platform itself. The European Commission allowed these transfers, but there was a ground
509 rule: all partners should agree with the transfer. For obvious reasons, the company rejected the startup's
510 demand by suggesting it was inconsistent with the rules. Despite that the startup lacked the formal authority
511 to do so, it used all possible means to force the company into a budget transfer. In turn, the company sought
512 the aid of the teaching hospital and the project leader in influencing the startup to stop its intimidation. It sent
513 a message to the project leader in which it argued that the startup used blackmail to exert pressure. The project
514 leader recognised that the conflict was spiralling out of control and that it should intervene. He explained that,
515 *"in situations in which one party wants to go left and the other wants to go right, it may be beneficial when the project*
516 *leader says let's go left this time. Then it helps that both parties have the feeling that the project leader is good at*
517 *his job and has proven this in the past".* The project leader made it clear that no budget can or will be shifted if
518 the software company does not approve. Although some tensions remained between the arguing parties, this
519 largely solved the conflict, and the intended software platform was developed.

520 4.8 *Power episode 8: The startup tried to enlarge its power in relation to the established industry player*

521 In the European project, an established industry player was responsible for developing stable liquid glucagon. A
522 strong power asymmetry characterised the relationship between this industry player and the startup. The
523 development of glucagon was crucial to the survival of the startup because, without it: a) the clinical trials' costs
524 would be become unacceptably high and b) it would become almost impossible to successfully commercialise
525 the artificial pancreas. Conversely, the development of the new glucagon was just one of the industry player's
526 many activities. In addition, its allocated budget in the European project was relatively small, and not nearly
527 enough to fund the entire glucagon development. Even though the artificial pancreas could be used to test the
528 glucagon, the startup recognised that it was substantially more dependent on the industry player than vice
529 versa. It also anticipated that the industry player's glucagon development would be delayed. Accordingly, the
530 startup attempted to improve the quality of its own alternatives by getting "*a good overview of all the potential*
531 *suppliers of glucagon. It put much effort into identifying, selecting and talking to potential partners*". However, it
532 did not have the power to prevent the industry player from prematurely withdrawing from the European project.
533 The project was already strategically unimportant to the industry player, but it perceived it as truly needless
534 after it shut down its glucagon development. Nonetheless, the startup's efforts led to some benefits: it could
535 find a suitable new partner to develop stable liquid glucagon soon after the industry player had left.

536 4.9 *Power episode 9: How did the startup enhance its offer's value for the glucagon company?*

537 In 2015, the startup was negotiating an agreement with another glucagon company. The startup's structural
538 power derived from its possession of the artificial pancreas, while the glucagon company's power derived from
539 its possession of stable liquid glucagon and to access to alternative collaboration partners. During the
540 negotiations, the two parties agreed that they wanted to run a clinical trial together in which the company would
541 provide the glucagon and the startup would provide the artificial pancreas. Then, both parties could use the
542 trial's results to further develop their products. Although the company was prepared to provide the glucagon, it
543 did not want to finance the associated production costs. In addition, the startup was unable to free up budget
544 to fund the required glucagon production. The company had the power to let the negotiations fail for this
545 reason. It realised that it did not require the relationship with the startup to succeed, since it was also
546 collaborating with several other researchers who were developing artificial pancreas systems. In contrast, the
547 startup recognised that it was heavily dependent on the availability of stable liquid glucagon, as explained in

548 paragraph 4.8 in some detail. It also noticed that the number of businesses with which it could collaborate for
549 this purpose was limited. There were two other options, but these companies had a substantial longer expected
550 time to market. Thus, the startup realised that the partnership must not fail and it that it had to acquire the
551 necessary financial resources itself. Eventually, it succeeded when it found an investment company that was
552 ready to fund the glucagon production costs. Thus, the startup successfully extracted benefits from this power
553 episode: it could convince the company to initiate a partnership.

554

555

Insert Table 2 about here

556

	Structural power			Perceived power		Behavioural power		Power outcomes		
	<i>Resource</i>	<i>Network</i>	<i>Formal</i>	<i>Own</i>	<i>Other</i>	<i>Use tactics</i>	<i>Change tactics</i>	<i>Perception</i>	<i>Realised</i>	
1	Startup	Technical expertise to develop the device			Promising new device that the other cannot build	Controls scarce, but critical resources		Increase valuation of own contribution	Startup's perceived power improved: higher valuation of new device	The teaching hospital agreed to run three clinical trials in exchange for a stake in the startup
	Teaching hospital	Expertise/ Facilities to run clinical trials	Access to patients/ research groups		Critical resources and network access	New device, but it is not worth testing	<u>Rejected</u> the request to run clinical trials with the device			
2	Startup	Technical expertise to develop the device		Hospital has a small share in the startup	Promising new device that the other cannot build	Controls scarce, but critical resources	<i>Collaborated</i> to help running clinical trials		Perceived power remained unchanged	It started three successful clinical trials earlier, without help from the startup
	Teaching hospital	Expertise/ Facilities to run clinical trials	Access to patients/ research groups	Hospital has a small share in the startup	Critical resources and network access	New device that is worth testing in trials				
3	Startup	Technical expertise to develop the device		Hospital has a small share in the startup	Promising new device, but no funding	Controls scarce, but critical resources			Startup's (perceived) power improved: indispensable role, financial resources	The grant allowed the project partners to further develop the device and run three clinical trials
	Teaching hospital	Expertise/ Facilities to run clinical trials	Access to patients/ research groups	Hospital has a small share in startup	Critical resources and network access	Promising new device, but no funding	<i>Collaborated</i> to help the startup to attract funding			

Table 2. Summary of the power episodes between the startup and its established partners. Underlined power use tactics are hostile, while *italicised* power use tactics are conciliatory.

	Structural power			Perceived power		Behavioural power		Power outcomes		
	Resource	Network	Formal	Own	Other	Use tactics	Change tactics	Perception	Realised	
4	Startup	Technical expertise to develop the device			Promising new device; later targeted donations	Financial resources to fund device development	<u>Pressured</u> to finance device, despite disapproval			The intended benefits were not attracted, but the health foundation provided new partners
	Health foundation	Financial resources	Network diabetes-related actors	Funding policy: approval by experts	Registered charity status; network access	Promising new device, but potential not proven	<u>Rejected</u> funds; <u>collaborated</u> to attract it in another way	Perceived power remained unchanged		
5	Startup	Technical expertise to develop the device			Promising new device the other needs to innovate	Critical resources for market access		Increase valuation of own contribution	Startup perceived its own power as improved, but the market leader's perspective did not change	The intended benefits were not attracted, but the market leader provided valuable resources
	Market leader	Resources to market new devices	Alternative investment possibilities available	Right of first refusal	Critical resources for market access	New device just one of the investment possibilities	<u>Integrated</u> goodwill; <u>exchanged</u> components			
6	Startup	Possibility to exploit new sensor		Exclusive right to license the sensor	Exclusive right to license the sensor	Depends on its patent to succeed with alternative	<u>Rejected</u> joining The alternative; <u>legitimated</u> with contract		Perceived power remained unchanged	The intended benefits were not attracted: the conflict ended in impasse and project was delayed
	Research institute	Expertise to develop new sensor	Access to alternative partners		Better alternative available to create sensor	Depends on its expertise to develop new sensor	<u>Apprise</u> of benefits; <u>Pressured</u> to join other			

Table 2. Summary of the power episodes between the startup and its established partners (continued)

	Structural power			Perceived power		Behavioural power		Power outcomes		
	Resource	Network	Formal	Own	Other	Use tactics	Change tactics	Perception	Realised	
7	Startup	Expertise to develop monitoring platform	Access to other EU project members		The company's expertise was no longer necessary	Value provided was perceived as insufficient	<i>Persuaded</i> and <u>pressured</u> to transfer budget		Startup realised its limited structural power after reprimand project leader	A monitoring platform was developed, but there was no budget transfer, and tensions remained
	Software company	Expertise to develop monitoring platform	Access to other EU project members	Formally allocated task and budget	Formally allocated task and budget in EU project	Budget shift not allowed without approval	<u>Rejected</u> transfer; <i>coalition</i> project leader			
8	Startup	Technical expertise to develop the device			Developed new device others can use for testing	Controls scarce, but critical resources		Increase the value of its own alternatives	Perceived power remained unchanged	The intended benefits were not attracted, but the startup could quickly connect to an alternative
	Industry player	Expertise/Resources to develop glucagon	Several other R&D projects		Glucagon development internally stopped	Resources in EU project no longer necessary	<u>Rejected</u> continued EU project membership			
9	Startup	Technical expertise to develop the device	Access to investors		Developed new device others can use for testing	Controls scarce, but critical resources	<i>Coalition</i> with investor to fund glucagon		Startup's (perceived) power improved: it attracted financial resources	A partnership was initiated in which the startup provides the device and the company the glucagon
	Glucagon provider	Expertise/Resources to develop glucagon	Access to alternative partners		Alternatives are available to test glucagon	The developed new device can be used for testing	<u>Rejected</u> the funding of the production of glucagon			

Table 2. Summary of the power episodes between the startup and its established partners (continued).

557 5 Discussion

558 5.1 *Resource control, network position and formal position shape structural power*

559 In line with our theoretical framework, our results show that the case startup's structural power derived from its
560 resource control, network position and formal position. Previous research has argued that startups are usually
561 in the power-disadvantaged position vis-à-vis established partners (Gardet & Fraiha, 2012). However, our
562 findings indicate that this research provides an incomplete understanding of startups' power because it typically
563 focuses on a single power source rather than all three. We reveal that the case startup often had a power-
564 disadvantage vis-à-vis its established partner, because it lacked a favourable network and formal position, even
565 though it did control valued resources. We will now briefly discuss the case startup's relative power position
566 concerning each power source.

567 **Resource control.** The relative value of the case startup's resources and its established partners' resources were
568 comparable in each relationship: they both had control over resources needed or desired by the other (Table 2,
569 episodes 1 to 9). This contrasts with previous research that suggests that resource control does explain the
570 differences in structural power between startups and established organisations (Astley & Sachdeva, 1984; Brass
571 & Burkhardt, 1993; Forshey, 2014). one reason may be that resource complementarity is a necessary condition
572 for the formation of a relationship between them. The research has consistently shown that startups and
573 established organisations are more likely to initiate a relationship if they can benefit from each other's resources
574 (e.g. Forshey, 2014; Rothaermel & Boeker, 2008). In other words, it is unlikely for a relationship to form if they
575 do not control resources valuable for the other. Thus, a relatively equal power relationship is likely in terms of
576 resource control once the relationship starts. Our findings provide some evidence in this direction: it was only
577 when the teaching hospital perceived the case startup's resources as valuable that it agreed to initiate a
578 relationship. After the relationship started, the case startup's ability to develop new diabetes technologies and
579 the teaching hospital's expertise in clinical trials were equally valued by the partners.

580 **Network position.** The case startup often had no access or restricted access to alternative partners from which
581 it could acquire necessary resources, while its established partners had more options to pursue a similar
582 objective (Table 2, episodes 1 to 6, 8). For instance, our findings show that the industry player could withdraw
583 from the European project without any consequences, prompting a quick search for a new partner. This is in line

584 with research that indicates that network position is a key determinant of a startup's and its established
585 partner's relative power position (Huxham & Beech, 2009; Olsen et al., 2014; Pfeffer, 2009). A relationship with
586 an established organisation leaves a startup vulnerable to its partner's power, because the latter can withdraw
587 from the relationship without difficulties (Hughes-Morgan & Yao, 2016). Further, a greater availability of choices
588 often results in a lower cooperation level (He, Ghobadian & Gallear, 2013). The importance of network position
589 to an organisation's structural power highlights that the power relationship between startups and established
590 organisations does not exist in isolation, but is affected by their portfolio of relationships, i.e. the alternatives in
591 which they are involved (Brennan, Canning & McDowell, 2014; Håkansson et al., 2009).

592 **Formal position.** The case startup's structural power position was also determined by formal position (Table 2,
593 episodes 2 to 7). In the European project, for instance, the teaching hospital was appointed as lead organisation
594 and used this power to resolve the conflict between the case startup and the software company. Thus, we
595 confirm previous literature (Albers et al., 2015; Kessler & Goldsberry, 2005; Provan, 1980; Thorgren et al., 2012)
596 that argues that organisations may acquire power because they are given the formal authority and decision
597 rights. We also found that contractual agreements determined the structural power position of the case startup
598 and its established partners, although usually in favour of the established organisation (Table 2, episodes 4, 5
599 and 7), occasionally also to the case startup's benefit (Table 2, episode 6). Mouzas and Ford (2007, p. 44) argue
600 that "*contracts may provide more benefits and fewer restrictions on one of the parties within a relationship when*
601 *compared to the other*", resulting in a power imbalance. Contracts may generally favour the established partner,
602 because it is often able to insert clauses that allow it to shape a relationship's structure and to institutionalise
603 the power imbalance (Mouzas & Ford, 2007; Rindt & Mouzas, 2015). An example of such a contract is the right
604 of first refusal that the market leader closed with the case startup. However, it is widely known that prior
605 contractual agreements can limit an organisation's ability to change its arrangements in the future (Mouzas &
606 Ford, 2007). Thus, an established organisation could influence the conclusion of a contract such that it meets its
607 own interests. However, the same contract may become an obstacle when it wants to change its arrangements
608 in response to unforeseen circumstances, shifting power to a startup. In our case, the startup's exclusive right
609 to license the technology only became a problem for the research institute once the institute encountered more
610 valuable alternatives.

611 5.2 *The case startup had a less accurate power perception than its established partners*

612 In our theoretical framework, we argued that structural power affects perceived power, even though the two
613 generally do not fully correspond. Indeed, our results show that structural power influences the case startup's
614 and its established partners' power perceptions. However, we also reveal that there is a substantial difference
615 in the extent to which their perceived power accurately reflects their structural power. The case startup's
616 perception of its own and its partners' power often did not reflect their de facto structural potential: it tended
617 to overestimate its own power (Table 2, episodes 1, 2, 8 and 9), while it was likely to underestimate its partners'
618 power (Table 2, episodes 3, 4 and 7). For instance, the case startup did not realise that the teaching hospital had
619 alternative new diabetes technologies that it could test. In comparison, the case startup's partners had a
620 reasonably accurate perception of their structural power (Table 2, episodes 1 to 5, 7 to 9). One reason may be
621 that, compared to startups, established organisations have had considerably more time to learn about their
622 ability to influence others. Thus, they are more likely to form a fairly accurate perception of their power over
623 one another than startups (Wilkinson, 1996). Further, startups may lack the experience to properly assess the
624 value of their partners' contribution and alternatives. In such a situation, they tend to project their own situation
625 – i.e. with valuable resources but limited alternatives – onto those of their partners. Thus, startups may think
626 that they are in an equal power relationship, regardless of differences in structural power (Pinkley, 1995; Wolfe
627 & McGinn, 2005). Thus, our findings suggest that there is a conceptual and an empirical difference between
628 structural and perceived power in inter-organisational relationships. This difference is meaningful because it is
629 the power perception rather than structural power that determines the ways in which power tactics are applied,
630 (as discussed in Section 5.3). Yet the distinction between the two concepts has not yet clearly emerged from
631 research into inter-organisational power (Huxham & Beech, 2009; Meehan & Wright, 2012).

632 5.3 *Perceived power and relationship atmosphere determine power behaviour*

633 Confirming our theoretical framework, our results show that the case startup's power perception influenced its
634 power behaviour, i.e. its decision to employ power change or power use tactics. It is to be expected that a startup
635 would use more power use tactics than change tactics, if it behaved based on its perceived power. This is
636 because an organisation will generally "use more of its power the more it perceives it to have" (Wilkinson, 1996, p.
637 36), regardless of its de facto structural potential. Indeed, we find that the case startup applied power use tactics
638 when it perceived that it had sufficient power vis-à-vis its established partners (Table 2, episodes 2, 4, 6, 7 and

639 g), while it only applied power change tactics when it realised it lacked the necessary structural power to
640 influence its partners (Table 2, episodes 1, 5 and 8). Thus, it used more power use tactics than power change
641 tactics than one may expect from its power-disadvantaged position. Therefore, our findings imply that
642 organisations – just like individuals (e.g. Kim et al., 2005; Wolfe & McGinn, 2005) – choose whether to apply
643 power change or power use tactics based on their perceived power, not their structural power.

644 In contrast to our theoretical framework, however, we reveal that the choice for a specific power change tactic
645 (i.e. whether to increase the valuation of own contribution or decrease the valuation of a partner's contribution)
646 and power use tactic (i.e. whether to act in a hostile way or in a conciliatory way) cannot be explained by the
647 case startup's perceived power. Rather, this decision seems to be affected by other aspects of the relationship
648 atmosphere in which organisations act. Besides the power relationship between organisations, this atmosphere
649 consists of their 1) overall closeness, 2) conflict level and 3) expectations (Brennan et al., 2014; Håkansson, 1982).
650 Like Kiyak et al. (2001) as well as Maglaras, Bourlakis and Fotopoulos (2015), our findings indicate that
651 situational factors strongly influence the exercise of power. This stresses that a model of power behaviour is not
652 complete when other aspects that influence organisations' decision-making process are not considered. We will
653 now briefly discuss the impact of each relationship atmosphere's aspect on the case startup's behaviour.

654 **Overall closeness.** The case startup sought to increase the value of its own contribution at the start of the
655 relationship (Table 2, episodes 1 and 5), yet tried to improve the quality of its own alternatives once the
656 relationship was initiated (Table 2, episode 8). For instance, the case startup sought to convince the teaching
657 hospital of the performance of its artificial pancreas when it almost declined the prospect of collaborating. It
658 may be that the increasing *closeness* between organisations over the course over a relationship explains this
659 finding. In the early stages of a relationship, perceptions of power are likely to be unclear (Håkansson, 1982).
660 Thus, it may require relatively little effort for startups to influence their partners' understanding of each other's
661 power. Although structural and perceived power can change over time, the power perceptions become more
662 stable during a relationship (Håkansson, 1982). In turn, it may be more difficult for startups to change their
663 partners' valuation of their contribution than to increase the quality of their own alternatives.

664 **Conflict level.** The case startup was more likely to apply hostile than conciliatory power use tactics when its
665 partners also apply hostile tactics (Table 2, episodes 4, 6 and 7). For instance, the case startup declined to join
666 the research institute's multipartner project when pressured to join. A reason for this reciprocity may be that

667 startups' reactions are likely to be affected by the conflict level generated by their partners' use of power.
668 Johnsen and Lacoste (2016) argue that many studies have shown that the hostile use of power increases conflict
669 to a point where it can damage a relationship. If an organisation uses hostile power tactics, its partner may feel
670 forced into doing something against its will. In turn, this may lead to dysfunctional conflict, where its partner is
671 more likely to reciprocate its hostile tactics (Brennan et al., 2014; Kiyak, Roath & Schatzel, 2001; Pfajfar et al.,
672 2017; Wilkinson, 1996).

673 **Expectations.** The case startup was more likely to apply conciliatory power use tactics when it expected to
674 benefit from the relationship in the future (Table 2, episodes 2 and 9). For instance, the case startup involved an
675 investor into the relationship with the glucagon provider, since it hoped to get access to its glucagon, even
676 though it wanted to reject the relationship. Startups' expectations of a relationship's future opportunities may
677 influence the ways they exercise their perceived power, because the way they use power is likely to trigger their
678 partners to react (un)favourably. If startups force their established partners to do something they had not
679 planned to do, this may negatively affect their partners' willingness to collaborate in the future (Gadde, 2010;
680 Wilkinson, 1996). For instance, Rokkan and Haugland (2002) found that hostile power behaviour may inhibit the
681 realisation of long-term benefits offered by an inter-organisational relationship. Thus, it is not problematic for
682 a startup to aggressively apply power when it does not expect to benefit from a relationship in the future. Yet
683 conciliatory power use tactics may offer an advantage over hostile tactics if a startup expects a relationship to
684 lead to enhanced performance in the future (Gadde, 2010; Van Bockhaven, Matthyssens & Vandenbempt,
685 2015).

686 5.4 *Power change tactics result in realised power, if perceived power is successfully changed*

687 In our theoretical framework, we argue that the implementation of power tactics directly influences realised
688 power, i.e. the extent to which an organisation can extract benefits. Although our results show that the
689 implementation of power change tactics does affect realised power, we also reveal that this does not occur
690 directly. First, our results show that the application of *power change tactics* always resulted in a benefit for the
691 case startup, but that it could either be the intended benefit or an unintended one (Table 2, episodes 1, 5 and 8).
692 For instance, the case startup sought to change the market leader's perception of its power, but failed.
693 Nonetheless, it received valuable components that it could use in the development of its artificial pancreas.
694 Although the case startup extracted benefits from the relationship in both instances, we argue that it realised

695 power only if the desired results were achieved. If a startup's intention is to affect its partner's power perception
696 or its behaviour, and it succeeds in doing so in the desired direction, Wrong (1979) argues that it clearly has
697 realised some power over its partner. However, if this intention to change its partner's perception or behaviour
698 fails, he suggests that it has not realised power over its partner but has caused to an unintended influence. In
699 line with Kim et al. (2005), who use *influence tactics* synonymously with *power tactics*, we did not regard
700 influence as distinct from power. In fact, most studies (e.g. Cowan, Paswan & Van Steenburg, 2015; Kipnis,
701 Schmidt & Wilkinson, 1980; Lai, 2009; McFarland, Challagalla & Shervani, 2006; Yukl & Falbe, 1990) use
702 *influence tactics* without establishing clearly distinguishing between power and influence. An exception is the
703 work of Gnizy (2016), who explicitly studies power rather than influence in an industrial marketing context. In
704 ordinary usage of the terms, however, power and influence are not understood as completely substitutable
705 (Zimmerling, 2005). Considering unintended benefits in response to the case startup's usage of power tactics,
706 our findings also imply that it may not be justifiable to assume that *power* and *influence* are synonymous in inter-
707 organisational relationships.

708 Second, we reveal that it depended on whether the case startup could successfully change its partner's power
709 perception: if the case startup could successfully change its partner's perception of its power, power change
710 tactics had the intended effects (Table 2, episode 1); if the case startup failed to adjust its partners' perception
711 of its power, they had unintended benefits (Table 2, episodes 5 and 8). For instance, the case startup did not get
712 the glucagon it sought from the industry player when it increased its alternatives, but could quickly find a new
713 glucagon partner. Startups may be unsuccessful in changing partners' power perception because they tend to
714 demonstrate their value from their own perspective rather from the perspective that of their partners (Lee &
715 Johnsen, 2012). The fact that the case startup did not seek to decrease its valuation of a partner's contribution
716 or to decrease the quality of a partner's alternatives further supports this argument. To change a partner's
717 perception of power, startups should also demonstrate their value in areas that are key to their partner (Lee &
718 Johnsen, 2012). Yet, startups often lack the resources and time (Colombo, Laursen, Magnusson & Rossi-
719 Lamastra, 2012) to gain a good understanding of its partner's resources and alternatives.

720 5.5 *Conciliatory use tactics result in realised power, but only coalition-building changes power*

721 In line with our theoretical framework, our results show that power use tactics – unlike power change tactics –
722 directly influence realised power. When the case startup applied conciliatory tactics (collaborate, persuade,

723 build a coalition, integrate, exchange or apprise), it achieved its intended benefits (Table 2, episodes 2 and 9).
724 For instance, the case startup ran the first three clinical trials sooner by collaborating with the teaching hospital.
725 When the case startup applied hostile tactics (reject, pressure or legitimate), it was unable to realise its
726 perceived power (Table 2, episodes 4, 6 and 7). For instance, the health foundation did not fund the artificial
727 pancreas' development when put under pressure. Our findings seem unsurprising, because conciliatory tactics
728 are used to inflict less harm on a partner than hostile tactics, and thus prompt less resistance. Consequently,
729 conciliatory tactics are usually more successful for extracting benefits than hostile tactics (Kim et al., 2005). Yet
730 previous research has shown that hostile power behaviour can be successful: power-disadvantaged
731 organisations may accept hostile power behaviour as long as they also benefit (Hingley, 2005; Muthusamy &
732 White, 2006) or simply because they have no alternatives (Homburg, Wilczek & Hahn, 2014; Sutton-Brady,
733 Kamvounias & Taylor, 2015). A reason the case startup failed to achieve the desired benefits when using hostile
734 power tactics may be that it often employed them when it felt more powerful, even though it did not have the
735 de facto power. As its partners usually recognised that the case startup did not have the de facto power, they
736 considered the use of hostile tactics as unjustified and were likely to resist such behaviour. Our findings provide
737 some evidence in this direction: the software company did not transfer budget to the case startup after it was
738 pressured, because it did not believe that the case startup had the right to demand this. This finding implies that
739 hostile power tactics can result in realised power if an organisation that applies hostile tactics is also perceived
740 as more powerful by its partner. If an organisation feels more powerful than its partner perceives it to be and it
741 exercises hostile tactics, this behaviour is more likely to cause resistance, and it is less likely to extract the
742 intended benefits. As Meehan and Wright (2012) note, it is not only important how an organisation perceives its
743 own power, how its partners perceive its power is perhaps more important.

744 In addition to realised power, our theoretical framework suggests that the ways in which an organisation uses
745 its power will also affect the accumulation and loss of both perceived and structural power. Specifically, previous
746 research suggests that conciliatory tactics will shift relative power in favour of the *power holder*, while hostile
747 tactics will shift relative power in favour of the *power target* (Bunderson & Reagans, 2011; Kim et al., 2005).
748 However, we reveal that the case startup's power use tactics generally did not result in a change in structural or
749 perceived power (Table 2, episodes 2, 4 and 6). One reason may be that partners are likely to reciprocate each
750 other's behaviour (Oukes & Raesfeld, 2016a). As discussed, both the case startup and its partners in our study

751 are likely to use either conciliatory or hostile tactics. If both partners act in the same way, it is to be expected
752 there is no de facto or perceived change in their power relationship: although both organisations' absolute
753 power may change, the relative power difference between them does not. It may be that previous research has
754 reached a different conclusion, because it has often conceptualised power as a simple one-way relationship
755 (Hingley, Angell & Lindgreen, 2015; Meehan & Wright, 2012). Researchers who take a one-sided view of
756 (perceived) power may assume that the target's power stays the same when there is a change in the power
757 holder's (perceived) power. Yet our findings suggest that a shift in an organisation's (perceived) power is also
758 likely to cause a shift in its partner's (perceived) power. This supports the notion that a one-sided perspective
759 leads to a distorted or incomplete picture when analysing issues as sensitive as power in inter-organisational
760 relationships (Hingley et al., 2015; Meehan & Wright, 2012; Meqdadi, Johnsen & Johnsen, 2017).

761 Although power use tactics usually did not result in a change in structural or perceived power, there was one
762 exception: coalition-building (Table 2, episodes 7 and 9). Coalition-building refers to "*seeking the aid of others in*
763 *influencing the target*" (Plouffe et al., 2016, p. 10). For instance, the software company built a coalition to
764 counteract pressure from the case startup, and the case startup built a coalition with an investor in order to get
765 the glucagon provider to collaborate. In these situations, the power perceptions were no longer solely based on
766 the structural potentials of the case startup and its partners, but also on their perceptions of the third party's
767 structural power. As the third party could reinforce the power of either, this influenced the perception of the
768 power relationships between the other two partners. In a relationship between two organisations, either one
769 partner is more powerful than the other, or both are equal. However, many more options arise when multiple
770 partners are involved (Albers et al., 2015). Thus, in line with Heuven and Groen (2012) as well as Sheu (2015), we
771 argue that power in inter-organisational relationships can also have a multidirectional dynamic rather than just
772 a two-way one.

773 **6 Conclusion**

774 Researchers have paid little attention to the interrelationships between structural and behavioural power in the
775 interactions between startups and established organisations from a startup's perspective. We sought to explore
776 how structural and behavioural power interact in a startup's relationships with its established partners,
777 conducting a longitudinal embedded case study on nine power episodes between a startup and its established

778 partners in the medical device business. Our study's main finding is that structural and behavioural power
779 interact through perceived power, i.e. a startup's and its partners' assessment of their relative power. On the
780 one hand, we reveal that the case startup based its decision to apply power use or change tactics on its
781 perception of its own and its partners' power rather than their de facto structural potentials. Its decision to use
782 a specific type of tactic was affected by three other aspects of the relationship atmosphere: 1) closeness, 2)
783 conflict level, and 3) expectations. On the other hand, we showed that the case startup's own and its partners'
784 (perceived) structural power usually did not change with the startup's power behaviour. Only if one of the
785 partners decided to build a coalition with a third actor did the structural power relationships change to an extent
786 that they modified their power perceptions. In addition, we found that the case startup's power-disadvantaged
787 position vis-à-vis its established partners was usually not a result of its lack of needed resources, but its limited
788 access to alternative partners and its unfavourable formal position. However, the case startup often did not
789 recognise its power-disadvantaged position: it tended to feel more powerful than it was, based on its structural
790 power. As a result, the case startup used more power use tactics than power change tactics than expected.
791 When the case startup applied power change tactics, it always turned out favourably, yet not always in the way
792 it intended. When the case startup applied power use tactics, it could succeed or fail in extracting the desired
793 benefits, depending on whether it exercised conciliatory or hostile tactics.

794 *6.1 Theoretical contributions*

795 We contribute to the startup business relationship literature by studying power's roles in the interactions
796 between startups and established partners. Researchers have studied different aspects of startups' business
797 relationships (Aaboen et al., 2011; Chen et al., 2009; Das & He, 2006; Diestre & Rajagopalan, 2012; Rothaermel
798 & Boeker, 2008; Vandaie & Zaheer, 2014), but they have paid limited attention to their views of and experiences
799 with power. Owing to startups' liabilities of smallness and newness, Gardet and Fraiha (2012) argued that they
800 are often considered to be in a power-disadvantaged position compared to their established partners. Our
801 findings provide more insights into what liabilities cause startups' subordinate power position, namely its small
802 network of alternatives and disadvantageous formal power position, rather than its lack of valuable resources.
803 Previous research (e.g. Cowan et al., 2015; Rehme, Nordigården, Ellström & Chicksand, 2016) also suggests that
804 startups are not necessarily stuck in this power-disadvantaged position; thus, it is worth considering their
805 actions intended to change a power balance. However, to this end, startups must recognise their subordinate

806 position, and our findings suggest that this is often not the case. Thus, startups may not try to change the power
807 relationship at all, but may seek to exercise power that does not exist. As long as startups uses its non-existent
808 power *"to motivate a development towards a more collaborative relationship"* (Rehme et al., 2016, p. 185), this
809 has no negative impact on the relationship. However, hostile power behaviour from startups is likely to evoke
810 resistance from their partner and to give rise to conflict in the relationship, especially if their partner does not
811 share their power perception. Since power perceptions and behaviour can affect the extent of collaboration
812 (Rehme et al., 2016), our study reveals that power plays a decisive role in startups' interactions with established
813 partners, whether they are universities, companies, research institutes or non-governmental organisations.

814 We also contribute to the power literature by deriving the structural power position not only from a resource
815 dependency perspective (i.e. resource control), but also considering an organisation's network and formal
816 position. Most importantly, we study the under-examined interaction between structural and behavioural
817 power based on Kim et al.'s (2005) framework. Our study shows that their framework, which was designed to
818 explain power in interpersonal negotiations, largely applies to the study of power in interactions between startups
819 and established organisations. As Kim et al. (2005) propose, we found that structural power partly influences a
820 startup's perception of its own and others' power. In turn, the perceived power determines whether a startup
821 applies power change or use tactics. Then, the ways in which it behaves (in)directly affects the extent to which
822 it realises power. Yet, our findings suggest that the model should be expanded with a new element: the
823 relationship atmosphere. Besides its perception of the power relationships, a startup's power behaviour also
824 depends on its closeness with its partner, their conflict level and their mutual expectations. Thus, studies that
825 only consider structural and behavioural power will not capture the full complexity of power dynamics between
826 startups and established organisations.

827 Another contribution to the power literature is our interactive approach to analysing power, which includes the
828 perspectives of a startup and an established organisation. Although previous research (Oukes & Raesfeld,
829 2016a; Rutherford & Holmes, 2008) has suggested that an organisation's exercise of power depends the power
830 perceptions and behaviour of those with which it interacts, few studies have taken a two-sided approach to this
831 (Hingley et al., 2015). Yet several of our findings emphasise that the two-way consideration of power in inter-
832 organisational power literature is crucial. For instance, the case startup's decision to use a specific power use
833 tactic was shown to be influenced by its partners' power behaviour. Also, the case startup's successful

834 implementation of hostile power use tactics was shown to depend on how its partners perceived its power
835 position. However, our findings suggest that power is not necessarily dyadic: network position was found to
836 partly determine the structural power of the case startup and its partners, and coalition-building was shown to
837 substantially influence their power perceptions. Thus, the structural, perceived and behaviour power of the two
838 organisations that are directly involved are key, but also that of their indirect counterparts. Nonetheless, very
839 few studies have provided a multisided perspective of power; notable exceptions in the research into buyer-
840 supplier relationships are studies by Kähkönen (2014, 2015) and Touboulic, Chicksand and Walker (2014).
841 Perhaps there is a lack of such studies, since they are less accessible and replicable than studies with a single or
842 two-sided view (Hingley et al., 2015). Either way, research with a multisided perspective on power is essential
843 to create a more complete understanding of inter-organisational power in the context of startups.

844 6.2 *Practical implications*

845 Our conclusions have implications for the managers, owners and directors of startups. Startups must continually
846 assess their structural power position relative to their established partners and any other involved third actors if
847 they can reasonably predict and are ready to respond to how these partners and actors will to behave. Such
848 assessment must be based not only on the value of the resources they control, but also on their network
849 centrality and hierarchical authority, two aspects that are generally neglected or ignored by startups. A realistic
850 assessment of all three aspects can also keep startups from over-estimating their importance to an established
851 business partner. If startups perceive that they have insufficient power compared to their established partners,
852 they can try to minimise the power imbalance. In the early stages of a relationship, they can increase their
853 partners' perceptions of the value of their own resources. In the later stages of a relationship, they can decrease
854 their reliance on a specific partner by increasing the value of their alternatives. Both efforts may change their
855 partners' power perceptions and may convince them to comply with startups' request. However, an effort to
856 alter a power imbalance does not always have the intended outcomes: startups' established partner may reject
857 their request. Nonetheless, an established partner may be prepared to support startups' in other ways. If
858 startups are open to this, they can still benefit from their efforts to change a power imbalance, although not in
859 the way they may at first desire.

860 If startups perceive that they have sufficient power compared to their established partners, they can use either
861 conciliatory or hostile power tactics. Startups should be extremely wary to use hostile power tactics because
862 they often harm an established business partner. For this reason, a partner is unlikely to respond well to
863 rejection, pressure or legitimation, especially if they perceive that a startup has insufficient power to use such
864 tactics. In turn, startups are then unable to extract the intended benefits from the relationship. Startups must
865 be aware of this interplay, since they tend to over-estimate their own power, applying more hostile power
866 tactics than is suitable, given their lack of structural power, and not achieving the desired results. Here, they are
867 better off using conciliatory power tactics. If startups use conciliatory power tactics, they either reduce the harm
868 to their established partners or use their power to support it in a certain way. Accordingly, a partner is more
869 likely to respond well to collaboration, persuasion, coalition, integration and exchange, regardless of whether
870 they share a similar perspective of their power. In turn, startups have a higher likelihood of getting their intended
871 benefits from the relationship.

872 *6.3 Limitations and future research*

873 Our study provides several meaningful theoretical contributions and managerial implications. However, it has
874 limitations, which open avenues for further research. Three limitations arise from the boundaries of our
875 theoretical framework. We apply the framework of Kim et al. (2005) to our case. This framework is suitable
876 because it allowed us to study how structural and behavioural power interact through a startup's and its
877 partners' power perceptions. However, there are a multitude of definitions and taxonomies of power. Although
878 they are interconnected and overlap, a single model cannot capture all power dimensions simultaneously
879 (Belaya, Gagalyuk & Hanf, 2009). Thus, we make no claims regarding the roles of other power dimensions in the
880 interactions between startups and established organisations. Accordingly, it would be interesting to investigate
881 power in such interactions from different definitions and/or taxonomies of power (Johnsen & Lacoste, 2016),
882 such as French and Raven's (1959) power base theory or Hardy and Phillips's (1998) conceptualisation of power
883 as powers of resource, process, meaning and system.

884 As usual in inter-organisational power research, we have treated *power* and *influence* as synonyms in our
885 theoretical framework. However, our findings and the work of Gnizy (2016) suggest that we need to explicitly
886 distinguish between the two concepts. An analysis of Zimmerling (2005) on the merits and shortcomings of

887 interpersonal influence's definitions, as distinguished from power, may provide some guidance. Although the
888 distinction is unclear and controversial, he argues that research should define them as two categories, because
889 this is "*best compatible with ordinary usage and most useful for theoretical purposes*" (Zimmerling, 2005, p. 141).
890 Specifically, he defines *power* as the "*ability to get desired outcomes by making others do what one wants*" and
891 *influence* as "*the ability to affect others' beliefs*" (Zimmerling, 2005, p. 141). Using these definitions in further
892 research, researchers will better reflect the de facto use of power (rather than merely influence).

893 Another limitation is that we take a power lens to investigate the relationships between a startup and its
894 established partners. This focus makes sense, since researchers have to date neglected power's roles in such
895 relationships. In contrast, other factors such as partner selection (Das & He, 2006; Diestre & Rajagopalan, 2012)
896 and resource complementarity (Rothaermel & Boeker, 2008) have been studied more extensively. Nonetheless,
897 our study shows that the case startup's power behaviour does not solely depend on its perception of its own
898 power, not even only on the structural power and power behaviour of its partners. Also, the relationship stage
899 and future benefits influence its decision to employ a certain power tactic. To get an in-depth understanding of
900 why startups and their established partners choose a specific power tactic, further research should take a
901 broader perspective that includes factors such as resource complementarity, future benefits and the like.

902 Two further limitations result from our methodological approach. Our longitudinal embedded case study is
903 appropriate for exploring the interactions between structural and behavioural power in a startup's relationships
904 with its established partners. However, an in-depth analysis of nine power episodes limits our ability to
905 thoroughly investigate the dynamics of power over time. The case startup's relationship with the teaching
906 hospital was the only one with multiple power episodes: for the rest, there was just one power episode per
907 partner. However, we did show that the power perceptions and behaviour of the case startup and the teaching
908 hospital changed over time. Also, previous research suggests that power relationships are seldom static
909 (Chicksand, 2015), but are inherently dynamic and likely to change over time (Rehme et al., 2016; Wang, 2011).

910 Power-advantaged organisations may seek to shift their power towards its maximum, while power-
911 disadvantaged organisations may try to minimise their power imbalance (Molm, 2009). Yet Olsen et al. (2014)
912 have suggested that we lack empirical research into the dynamics of power. Thus, an in-depth understanding
913 of power dynamics in business relationships is a fruitful further research area. For instance, researchers can
914 investigate whether the perceived power and power behaviour of each partner follows a pattern over time.

915 We cannot make generalisable inferences about the power tactics' effectiveness owing to the limited number
916 of power episodes. We conclude that if a startup applies conciliatory power use tactics, it results in the intended
917 outcomes, while hostile power use tactics don't lead to intended outcomes. Further, power change tactics are
918 usually beneficial to a startup, even though not always in the way it expected. Although these conclusions seem
919 straightforward, we must be cautious when generalising them to other types of startups, relationships, contexts
920 and the like. To draw more generalisable inferences, studies that systematically examine the effectiveness of
921 different power tactics in a larger, more diverse sample are a useful further research avenue, because startup
922 managers are, above all, interested in the outcomes of such tactics. Otherwise, they cannot assess whether they
923 will be beneficial or harmful in extracting value from a relationship (Plouffe et al., 2016). Further, the literature
924 provides an inconsistent view of power tactics' effectiveness (e.g. McFarland et al., 2006; Plouffe et al., 2016).

925 **ACKNOWLEDGEMENTS**

926 This research was funded through FP7 grant number 305654 from the European Commission to the PCDIAB
927 consortium, www.pcdiab.eu.

928 **REFERENCES**

- 929 Aaboen, L., Dubois, A. third Lind, F. (2011). Start-ups starting up: Firms looking for a network. *The IMP Journal*,
930 5(1), 42-58.
- 931 Aaboen, L., Holmen, E., & Pedersen, A.-C. (2017). Initiation of Business Relationships. In L. Aaboen, A. La Rocca,
932 F. Lind, A. Perna & T. Shih (Eds.), *Starting up in business networks: Why Relationships matter in*
933 *Entrepreneurship*. London: Palgrave Macmillian.
- 934 Achrol, R. S. (1997). Changes in the theory of interorganizational relations in marketing: Toward a network
935 paradigm. *Journal of the academy of marketing science*, 25(1), 56.
- 936 Ahuja, G., Polidoro, F., Jr. & Mitchell, W. (2009). Structural homophily or social asymmetry? The formation of
937 alliances by poorly embedded firms *Strategic Management Journal*, 30(9), 941-958.
- 938 Albers, S., Schweiger, B. & Gibb, J. (2015). Complexity, power and timing in multipartner alliances. In T. K. Das
939 (Ed.), *Managing multipartner strategic alliances*. Charlotte, United States: Information Age Publishing,
940 Inc.
- 941 Alvarez, S. A. & Barney, J. B. (2001). How entrepreneurial firms can benefit from alliances with large partners.
942 *Academy of Management Executive*, 15(1), 139-148.
- 943 Astley, W. G. & Sachdeva, P. S. (1984). Structural sources of intraorganizational power: A theoretical synthesis.
944 *Academy of Management Review*, 9(1), 104-113.
- 945 Barbuto, J. E. j. & Gifford, G. T. (2009). Influence triggers and compliance: A discussion of the effects of power,
946 motivation, resistance and antecedents. In D. Tjosvold & B. Wisse (Eds.), *Power and interdependence in*
947 *organizations* Cambridge, United Kingdom: Cambridge University Press.
- 948 Baum, J. A. C., Calabrese, T. & Silverman, B. S. (2000). Don't go it alone: Alliance network composition and
949 startups' performance in Canadian biotechnology. *Strategic Management Journal*, 21(3), 267-294.
- 950 Bazayar, A., Teimoury, E., Fesharaki, M., Moini, A. & Mohammadi, S. (2013). Linking power, risk, and governance:
951 A survey research in new product development relationships. *Journal of Business & Industrial Marketing*,
952 28(5), 371-382.

- 953 Belaya, R., Gagalyuk, T. & Hanf, J. (2009). Measuring asymmetrical power distribution in supply chain networks:
 954 What is the appropriate method? *Journal of Relationship Marketing*, 8(2), 165-193.
- 955 Bengtsson, M. & Johansson, M. (2012). Managing coopetition to create opportunities for small firms.
 956 *International Small Business Journal*, 32(4), 401-427.
- 957 Beverland, M. & Lindgreen, A. (2010). What makes a good case study? A positivist review of qualitative case
 958 research published in *Industrial Marketing Management*, 1971–2006. *Industrial Marketing
 959 Management*, 39(1), 56-63.
- 960 Bliemel, M. J. & Maine, E. M. (2008). Network embeddedness as a predictor of performance for New
 961 Technology-Based Firms. *International Journal of Technoentrepreneurship*, 1(3), 313-341.
- 962 Brass, D. J. & Burkhardt, M. E. (1993). Potential power and power use: An investigation of structure and
 963 behavior. *Academy of management journal*, 36(3), 441-470.
- 964 Brennan, R., Canning, L. & McDowell, R. (2014). Inter-firm relationship and networks. In R. Brennan, L. Canning
 965 & R. McDowell (Eds.), *Business-to-Business Marketing*. London, United Kingdom: Springer.
- 966 Bruderl, J. & Schussler, R. (1990). Organizational mortality: The liabilities of newness and adolescence.
 967 *Administrative Science Quarterly*, 35(3) 530-547.
- 968 Bunderson, J. S. & Reagans, R. E. (2011). Power, status, and learning in organizations. *Organization Science*,
 969 22(5), 1182-1194.
- 970 Burt, R. S. (1992). *Structural holes: The social structure of competition*. Cambridge, United Kingdom: Harvard
 971 University Press.
- 972 Chen, X., Zou, H. & Wang, D. T. (2009). How do new ventures grow? Firm capabilities, growth strategies and
 973 performance. *International Journal of Research in Marketing*, 26(4), 294-303.
- 974 Chicksand, D. (2015). Partnerships: The role that power plays in shaping collaborative buyer–supplier
 975 exchanges. *Industrial Marketing Management*, 48, 121-139.
- 976 Colombo, M. G., Laursen, K., Magnusson, M. & Rossi-Lamastra, C. (2012). Small business and networked
 977 innovation: Organizational and managerial challenges. *Journal of Small Business Management*, 50(2),
 978 181-190.
- 979 Cowan, K., Paswan, A. K. & Van Steenburg, E. (2015). When inter-firm relationship benefits mitigate power
 980 asymmetry. *Industrial Marketing Management*, 48, 140-148.
- 981 Das, T. K. & He, I. Y. (2006). Entrepreneurial firms in search of established partners: Review and
 982 recommendations. *International Journal of Entrepreneurial Behaviour and Research*, 12(3), 114-143.
- 983 Davenport, S. & Leitch, S. (2005). Circuits of power in practice: Strategic ambiguity as delegation of authority.
 984 *Organization Studies*, 26(11), 1603-1623.
- 985 Deeds, D. L. & Hill, C. W. L. (1996). Strategic alliances and the rate of new product development: An empirical
 986 study of entrepreneurial biotechnology firms. *Journal of Business Venturing*, 11(1), 41-55.
- 987 Diestre, L. & Rajagopalan, N. (2012). Are all 'sharks' dangerous? New biotechnology ventures and partner
 988 selection in R&D alliances. *Strategic Management Journal*, 33(10), 1115-1134.
- 989 Ford, R. C., Wang, Y. & Vestal, A. (2012). Power asymmetries in tourism distribution networks. [Article]. *Annals
 990 of Tourism Research*, 39(2), 755-779.
- 991 Forshey, P. (2014). Resource value as a source of negotiating power: Determinants of alliance funding amounts
 992 in the US biotech industry. *Academy of Strategic Management Journal*, 13(1), 75.
- 993 French, J. R. & Raven, B. (1959). The bases of social power. In J. M. Shafritz, J. S. Ott & Y. S. Jang (Eds.), *Classics
 994 of organization theory*. Boston, United States: Cengage Learning.
- 995 Gadde, L.-E. (2010). Activity coordination and resource combining in distribution networks: Implications for
 996 relationship involvement and the relationship atmosphere. *Journal of Marketing Management*, 20(1-2),
 997 157-184.
- 998 Gardet, E. & Fraiha, S. (2012). Coordination modes established by the hub firm of an innovation network: The
 999 case of an SME bearer. *Journal of Small Business Management*, 50(2), 216-238.
- 1000 Gnizy, I. (2016). Power dynamics of the international marketing within firms and how they shape international
 1001 performance. *Industrial Marketing Management*, 57, 148-158.
- 1002 Granovetter, M. (1985). Economic action and social structure: The problem of embeddedness. *American Journal
 1003 of Sociology*, 91(3), 481-510.
- 1004 Habib, F., Bastl, M. & Pilbeam, C. (2015). Strategic responses to power dominance in buyer-supplier
 1005 relationships: A weaker actor's perspective. *International Journal of Physical Distribution & Logistics
 1006 Management*, 45(1/2), 182-203.
- 1007 Håkansson, H. (1982). An interaction approach. In H. Håkansson (Ed.), *International marketing and purchasing of
 1008 industrial goods: An interaction approach*. Chichester, United Kingdom: John Wiley & Sons.

- 1009 Håkansson, H., Ford, D. I., Gadde, L. E., Snehota, I. & Waluszewski, A. (2009). *Business in networks*. Chichester,
1010 United Kingdom: John Wiley & Sons.
- 1011 Hallen, B. L., Katila, R. & Rosenberger, J. D. (2014). How do social defences work? A resource-dependence lens
1012 on technology ventures, venture capital investors, and corporate relationships. *Academy of*
1013 *Management Journal*, 57(4), 1078-1101.
- 1014 Hardy, C. & Phillips, N. (1998). Strategies of engagement: Lessons from the critical examination of collaboration
1015 and conflict in an interorganizational domain. [Article]. *Organization Science*, 9(2), 217-230.
- 1016 He, Q., Ghobadian, A. & Gallear, D. (2013). Knowledge acquisition in supply chain partnerships: The role of
1017 power. *International Journal of Production Economics*, 141(2), 605-618.
- 1018 Herbst, U., Schwartz, S. & Voeth, M. (2008). *The management of intra- versus inter-organizational negotiations:*
1019 *An empirical comparison*. Paper presented at the Proceedings of the 1st French - German - Swiss
1020 Workshop on B2B Marketing, Lausanne.
- 1021 Herlin, H. & Pazirandeh, A. (2012). Nonprofit organizations shaping the market of supplies. [Article].
1022 *International Journal of Production Economics*, 139(2), 411-421.
- 1023 Heuven, J. & Groen, A. (2012). The role of social networks in financing technology-based ventures: An empirical
1024 exploration. *Venture capital*, 14(2-3), 131-149.
- 1025 Hingley, M. K. (2005). Power to all our friends? Living with imbalance in supplier-retailer relationships. *Industrial*
1026 *Marketing Management*, 34(8), 848-858.
- 1027 Hingley, M. K., Angell, R. & Lindgreen, A. (2015). The current situation and future conceptualization of power in
1028 industrial markets. *Industrial Marketing Management*, 48, 226-230.
- 1029 Hoehn-Weiss, M. N. & Karim, S. (2014). Unpacking functional alliance portfolios: How signals of viability affect
1030 young firms' outcomes. *Strategic Management Journal*, 35(9), 1364-1385.
- 1031 Homburg, C., Wilczek, H. & Hahn, A. (2014). Looking beyond the horizon: How to approach the customers'
1032 customers in business-to-business markets. *Journal of Marketing*, 78(5), 58-77.
- 1033 Huberman, A. M. & Miles, M. B. (1994). *Data management and analysis methods*. Thousand Oaks, United States:
1034 Sage Publications.
- 1035 Hughes-Morgan, M. & Yao, B. E. (2016). Rent appropriation in strategic alliances: A study of technical alliances
1036 in pharmaceutical industry. *Long Range Planning*, 49(2), 186-195.
- 1037 Huxham, C. & Beech, N. (2009). Inter-organizational power. In S. Cropper, C. Huxham, M. Ebers & P. S. Ring
1038 (Eds.), *The Oxford handbook of inter-organizational relations*. New York, United States: Oxford
1039 University Press.
- 1040 Johnsen, R. E. & Lacoste, S. (2016). An exploration of the 'dark side' associations of conflict, power and
1041 dependence in customer-supplier relationships. *Industrial Marketing Management*, 59, 76-95.
- 1042 Kähkönen, A. K. (2014). The influence of power position on the depth of collaboration. *Supply Chain*
1043 *Management*, 19(1), 17-30.
- 1044 Kähkönen, A. K. (2015). The context-dependency of buyer-supplier power. *International Journal of Procurement*
1045 *Management*, 8(4), 396-415.
- 1046 Kassler, W. J. & Goldsberry, Y. P. (2005). The New Hampshire public health network: Creating local public health
1047 infrastructure creating through community-driven partnerships. *Journal of Public Health Management*
1048 *and Practice*, 11(2), 150-157.
- 1049 Kim, P. H., Pinkley, R. L. & Fragale, A. R. (2005). Power dynamics in negotiation. *Academy of Management*
1050 *Review*, 30(4), 799-822.
- 1051 Kipnis, D., Schmidt, S. M. & Wilkinson, I. (1980). Intraorganizational influence tactics: Explorations in getting
1052 one's way. *Journal of applied psychology*, 65(4), 440.
- 1053 Kiyak, T., Roath, A. S. & Schatzel, K. E. (2001). An examination of the coercive power-satisfaction relationship
1054 within a relational exchange: The moderating role of dealer resistance. *Journal of Marketing Channels*,
1055 8(Part 3/4), 3-28.
- 1056 La Rocca, A., Ford, D. & Snehota, I. (2013). Initial relationship development in new business ventures. *Industrial*
1057 *Marketing Management*, 42(7), 1025-1032.
- 1058 Laage-Hellman, J., Landqvist, M., & Lind, F. (2017). R&D Collaboration and Start Ups. In L. Aaboen, A. La Rocca,
1059 F. Lind, A. Perna & T. Shih (Eds.), *Starting up in business networks: Why Relationships matter in*
1060 *Entrepreneurship*. London: Palgrave Macmillan.
- 1061 Lacoste, S. & Johnsen, R. E. (2015). Supplier-customer relationships; A case study of power dynamics. *Journal of*
1062 *Purchasing and Supply Management*, 21(4), 229-240.
- 1063 Lai, C.-S. (2009). The use of influence strategies in interdependent relationship: The moderating role of shared
1064 norms and values. *Industrial Marketing Management*, 38(4), 426-432.

- 1065 Larson, A. (1992). Network dyads in entrepreneurial settings - A study of the governance of exchange
1066 relationships. *Administrative Science Quarterly*, 37(1), 76-104.
- 1067 Larson, A. & Starr, J. (1993). A network model of organization formation. *Entrepreneurship & Regional
1068 Development*, Winter, 5-15.
- 1069 Lawler, E. J. (1992). Power processes in bargaining. *The Sociological Quarterly*, 33(1), 17-34.
- 1070 Lee, C. J. & Johnsen, R. E. (2012). Asymmetric customer-supplier relationship development in Taiwanese
1071 electronics firms. *Industrial Marketing Management*, 41(4), 692-705.
- 1072 Mack, N., Woodsong, C., MacQueen, K. M., Guest, G. & Namey, E. (2005). *Qualitative research methods: a data
1073 collectors field guide*. North Carolina, United States: Family Health International.
- 1074 Maglaras, G., Bourlakis, M. & Fotopoulos, C. (2015). Power-imbalanced relationships in the dyadic food chain:
1075 An empirical investigation of retailers' commercial practices with suppliers. *Industrial Marketing
1076 Management*, 48, 187-201.
- 1077 McFarland, R. G., Challagalla, G. N. & Shervani, T. A. (2006). Influence tactics for effective adaptive selling.
1078 *Journal of Marketing* 70(October), 103-117.
- 1079 Meehan, J. & Wright, G. H. (2012). The origins of power in buyer–seller relationships. *Industrial Marketing
1080 Management*, 41(4), 669-679.
- 1081 Meqdadi, O., Johnsen, T. E. & Johnsen, R. E. (2017). The role of power and trust in spreading sustainability
1082 initiatives across supply networks: A case study in the bio-chemical industry. *Industrial Marketing
1083 Management*, 62, 61-76.
- 1084 Molm, L. D. (2009). Power and social exchange. In D. Tjosvold & B. Wisse (Eds.), *Power and interdependence in
1085 organizations*. Cambridge, United Kingdom: Cambridge University Press.
- 1086 Mouzas, S. & Ford, D. (2007). Contracting in asymmetrical relationships: The role of framework contracts. *The
1087 IMP Journal*, 1(3), 42-63.
- 1088 Muthusamy, S. K. & White, M. A. (2006). Does power sharing matter? The role of power and influence in alliance
1089 performance. [Article]. *Journal of Business Research*, 59(7), 811-819.
- 1090 Olsen, P. I., Prenkert, F., Hoholm, T. & Harrison, D. (2014). The dynamics of networked power in a concentrated
1091 business network. *Journal of Business Research*, 67(12), 2579-2589.
- 1092 Oukes, T. & Raesfeld, A. v. (2016a). A start-up in interaction with its partners. *The IMP Journal*, 10(1), 50-80.
- 1093 Oukes, T. & Raesfeld, A. v. (2016b). Third actors initiating business relationships for a medical device start-up:
1094 the effect on its network embedding and venture creation process. In L. Aaboen, A. La Rocca, F. Lind,
1095 A. Perna & T. Shih (Eds.), *Starting up in business networks: Why Relationships matter in Entrepreneurship*.
1096 London: Palgrave Macmillian.
- 1097 Pfajfar, G., Shoham, A., Makovec Brenčič, M., Koufopoulos, D., Katsikeas, C. S. & Mitrega, M. (2017). Power
1098 source drivers and performance outcomes of functional and dysfunctional conflict in exporter-importer
1099 relationships. *Industrial Marketing Management*, article in press.
- 1100 Pfeffer, J. (2009). Understanding power in organizations. In D. Tjosvold & B. Wisse (Eds.), *Power and
1101 interdependence in organizations*. Cambridge, United Kingdom: Cambridge University Press.
- 1102 Pfeffer, J. & Salancik, G. R. (1978). *The External Control of Organizations: A Resource Dependence Perspective*.
1103 New York, United States: Stanford Business Books.
- 1104 Pinkley, R. L. (1995). Impact of Knowledge Regarding Alternatives to Settlement in Dyadic Negotiations: Whose
1105 Knowledge Counts? *Journal of Applied Psychology*, 80(3), 403-417.
- 1106 Plouffe, C. R., Bolander, W., Cote, J. A. & Hochstein, B. (2016). Does the customer matter most? Exploring
1107 strategic frontline employees' influence of customers, the internal business team, and external
1108 business partners. *Journal of Marketing*, 80(1), 106-123.
- 1109 Provan, K. G. (1980). Recognizing, measuring, and interpreting the potential/enacted power distinction in
1110 organizational research. *Academy of Management Review*, 5(4), 549-559.
- 1111 Rehme, J., Nordigården, D., Ellström, D. & Chicksand, D. (2016). Power in distribution channels - Supplier
1112 assortment strategy for balancing power. *Industrial Marketing Management*, 54, 176-187.
- 1113 Rindt, J. & Mouzas, S. (2015). Exercising power in asymmetric relationships: The use of private rules. *Industrial
1114 Marketing Management*, 48, 202-213.
- 1115 Rokkan, A. I. & Haugland, S. A. (2002). Developing relational exchange: effectiveness and power. *European
1116 Journal of Marketing*, 36(1/2), 211-230.
- 1117 Rothaermel, F. T. & Boeker, W. (2008). Old technology meets new technology: Complementarities, similarities,
1118 and alliance formation. *Strategic Management Journal*, 29(1), 47-77.
- 1119 Rutherford, T. & Holmes, J. (2008). 'The flea on the tail of the dog': Power in global production networks and the
1120 restructuring of Canadian automotive clusters. *Journal of Economic Geography*, 8(4), 519-544.

- 1121 Sheu, J. B. (2015). Power shifts and relationship quality improvement of producer-retailer green channel dyads
 1122 under government intervention. *Industrial Marketing Management*, 50, 97-116.
- 1123 Stuart, T. E. (2000). Interorganizational alliances and the performance of firms: A study of growth and
 1124 innovation rates in a high-technology industry. *Strategic Management Journal*, 21(8), 791-811.
- 1125 Sutton-Brady, C., Kamvounias, P. & Taylor, T. (2015). A model of supplier-retailer power asymmetry in the
 1126 Australian retail industry. *Industrial Marketing Management*, 51, 122-130.
- 1127 Swanborn, P. G. (2013). *Case studies: wat, wanneer en hoe?* Den Haag, The Netherlands: Boom Lemma
 1128 uitgevers.
- 1129 Tang, J., Tang, Z. & Katz, J. A. (2014). Proactiveness, Stakeholder–Firm Power Difference, and Product Safety
 1130 and Quality of Chinese SMEs. *Entrepreneurship Theory and Practice*, 38(5), 1129-1157.
- 1131 Thorgren, S., Wincent, J. & Boter, H. (2012). Small firms in multipartner R&D alliances: Gaining benefits by
 1132 acquiescing. *Journal of Engineering and Technology Management*, 29(4), 453-467.
- 1133 Touboulic, A., Chicksand, D. & Walker, H. (2014). Managing imbalanced supply chain relationships for
 1134 sustainability: A power perspective. *Decision Sciences*, 45(4), 577-619.
- 1135 Van Bockhaven, W., Matthyssens, P. & Vandenbempt, K. (2015). Empowering the underdog: Soft power in the
 1136 development of collective institutional entrepreneurship in business markets. *Industrial Marketing
 1137 Management*, 48, 174-186.
- 1138 Vandaie, R. & Zaheer, A. (2014). Surviving bear hugs: Firm capability, large partner alliances, and growth.
 1139 *Strategic Management Journal*, 35(4), 566-577.
- 1140 Wang, C. H. (2011). The moderating role of power asymmetry on the relationships between alliance and
 1141 innovative performance in the high-tech industry. *Technological Forecasting and Social Change*, 78(7),
 1142 1268-1279.
- 1143 Whetten, D. A. (1981). Interorganizational relations: A review of the field. *The Journal of Higher Education*, 52(1),
 1144 1-28.
- 1145 Wilkinson, I. (1996). Distribution channel management: power considerations. *International Journal of Physical
 1146 Distribution & Logistics Management*, 26(5), 31-41.
- 1147 Wolfe, R. J. & McGinn, K. L. (2005). Perceived relative power and its influence on negotiations. *Group Decision
 1148 and Negotiation*, 14(1), 3-20.
- 1149 Wrong, D. H. (1979). *Power: Its forms, bases and uses*. Oxford, United States: Blackwell.
- 1150 Yukl, G. & Falbe, C. M. (1990). Influence tactics and objectives in upward, downward, and lateral influence
 1151 attempts. *Journal of applied psychology*, 75(2), 132.
- 1152 Zeng, S. X., Xie, X. & Tam, C. M. (2010). Relationship between cooperation networks and innovation
 1153 performance of SMEs. *Technovation*, 30(3), 181-194.
- 1154 Zimmerling, R. (2005). The concept of influence. In F. J. Laporta, A. Peczenik & F. Schauer (Eds.), *Influence and
 1155 power: Variations on a messy theme*. Dordrecht, The Netherlands: Springer.

1156

1157 **VITEA**

1158 Tamara Oukes, MSc is a PhD candidate at the Center for Entrepreneurship, Strategy, and Innovation
 1159 Management (NIKOS) at the University of Twente, The Netherlands. Her research interests include start-ups,
 1160 business relationships, power asymmetry and innovation. She has published in the IMP Journal. She teaches
 1161 courses on strategy, entrepreneurship, innovation, and business development.

1162 Dr. Ariane von Raesfeld is an assistant Professor at the Center for Entrepreneurship, Strategy, and Innovation
 1163 Management (NIKOS) at the University of Twente, The Netherlands. Her research interests include Innovation
 1164 Processes, University Industry relationships, and Technology and Business development in networks. She has

1165 published among others in Technovation, Creativity and Innovation Management, and Industrial Marketing
1166 Management.

1167 Prof. Dr. Aard Groen holds a double position on entrepreneurship at the University of Groningen and University
1168 of Twente. Groen is Dean entrepreneurship in Groningen, co-founder of both NIKOS and UGCE both centres of
1169 entrepreneurship at University of Twente, respectively University of Groningen. His research focuses on
1170 knowledge intensive entrepreneurship in startups and existing ventures. Other topics are university-industry
1171 collaboration, technology commercialization, key competencies for innovation, and leveraging networks for
1172 business development. His papers have been published in the Journal of Management, International Journal of
1173 Small Business, Creativity and Innovation Management, Technovation and elsewhere (see Google Scholar:
1174 <http://bit.ly/1jhj5lq>).