Coping with Problems of Understanding in Interorganizational Relationships: Using Formalization as a Means to make Sense

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# Abstract and Keywords

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## Free Keywords

Formalization, Sensemaking, Understanding, Interorganizational Cooperation

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Final version: 31-05-2006

Paper accepted for publication in special issue of Organization Studies
“Making Sense of Organizing: A Special Issue in Honor of Karl Weick“

ACKNOWLEDGEMENTS
This research has benefited from inspiring discussions with Charles Baden-Fuller, Justin Jansen, and Rosalinde Klein Woolthuis. We are also grateful for the comments issued by attendees of the 65th Academy of Management Conference and for the valuable suggestions provided by the editors and reviewers of the special issue in honour of Karl Weick of Organization Studies. The research has further profited from financial support of RSM Erasmus University Trust Fund and Erasmus Research Institute of Management (ERIM). All remaining errors are the responsibility of the authors.
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Introduction

Interorganizational relationships, such as alliances, joint ventures and outsourcing initiatives, are known to entail issues of coordination, control and legitimacy (see Kale et al. 2001; Madhok 2002; Sitkin and Bies 1993). However, they also involve ‘problems of understanding,’ which emanate from the fact that participants in such relationships are accustomed to different structures, cultures, functional capabilities (Barkema and Vermeulen 1997; Doz 1996), cognitive frames (Nootenboom 1992), terminologies (Kaghan and Lounsbury 2006), and management styles and philosophies (Lane and Lubatkin 1998). Problems of understanding are aggravated, because cooperating parties come from disparate backgrounds, and work in different industries, with dissimilar belief systems (Sutcliffe and Huber 1998). Moreover, especially in the early stages of cooperation, interorganizational relationships are frequently characterized by relatively high levels of ambiguity and uncertainty (Carson et al. 2006). This leads participants in such relationships to develop distinct interpretations and understandings of the same phenomena (Porac et al. 2002; Vaara 2003) and it increases the likelihood that misinterpretations and misunderstandings occur (Shankarmahesh et al. 2004). More particularly, it confronts them with difficulties in understanding their partners, the relationships in which they are engaged and the contexts in which these are embedded.

Consequently, existing patterns of beliefs and assumptions may have to be revised, and cognitive reorientations (Fiss and Zajac 2006; Gioia and Chittipeddi 1991) and the creation of new, more coherent understandings become imperative for collective action (Maitlis 2005; Weick 1993). Sensemaking processes are therefore assumed to play a central role during collaborative efforts. These processes form ‘the primary site where meanings materialize that inform and constrain’ action (Weick et al. 2005: 409, citing Mills 2003: 35), and they permit
parties with ‘different views of the purposes and expectations of a relationship to achieve congruency’ (Ring and Van de Ven 1994: 99). Although sensemaking may develop through story-telling and other informal means of communication (Balogun and Johnson 2005; Kirsch 2004; Rouleau 2005), in the context of interorganizational relationships it has been shown to be intricately related to formal processes of negotiating and contracting as well (see Ariño and Ring 2004; Ring and Rands 1989; Ring and Van de Ven 1989 1994).

Considering formalization’s relationship with sensemaking, we believe that formalization is not only the social product or sediment (Kaghan and Lounsbury 2006; Klein Woolthuis et al. 2005; Mayer and Argyres 2004; Putnam and Cooren 2004), but also a facilitator of sensemaking in interorganizational relationships, indicating a reciprocal relationship between both concepts (Ring and Van de Ven 1989 1994). We suggest that formalization may function as a means to make sense, enabling participants in collaborative relationships to cope with problems of understanding. This is supported by Blomqvist et al. (2005: 497), stating that ‘the contracting process may be used purposefully to increase mutual understanding,’ and by Kaghan and Lounsbury (2006: 3) who argue that formal written contracts provide a structure ‘within which on-going relationships can proceed sensibly over time.’ Blomqvist et al. (2005: 502), for example, found that a global machine and equipment supplier and a small metal engineering company 'got to know each other through the lengthy contracting process', indicating that this process enabled them to make sense of their partner. Although these studies suggest that formalization can be conducive to sensemaking, and to solving problems of understanding, a systematic overview of the mechanisms through which this occurs has hitherto been absent in the literature. In this article, we therefore address the following research question: How does formalization influence sensemaking, and eventually problems of understanding, in interorganizational relationships?
Investigating this question warrants a proper definition of formalization. As with most concepts ending in ‘-tion’, *formalization* is ambiguous with regard to processes and outcomes – ‘between the way one gets there, and the result’ (Baum and Rowley 2002: 1). It both refers to the process of codifying and enforcing inputs, outputs and behaviours (Ouchi 1979), and to the outcomes of this process in the form of contracts, rules and procedures (Hage and Aiken 1966). This distinction becomes obvious when one considers contractual planning – a principal form of formalization in interorganizational relationships. Contractual planning consists of the ‘process of projecting exchanges into the future,’ but it also eventuates in promises or obligations that are recorded in contracts, representing formalization as an outcome (Macneil 1980: 4). We consider both forms of formalization here, as we presume that the formalization process inevitably leads to formal documents, and because we believe that formalization ‘accomplishes part of its purpose not just with the words agreed upon,’ but also by means of the process through which parties arrive at these words and through the ‘words discussed and ultimately rejected’ (Hill 2001: 56). Our ontological view of formalization thus covers contracts, rules and procedures (formalization as nouns, entities or things), as well as processes of codification and enforcement (formalization as an organizing process), which renders our approach to investigating the relationship between formalization and sensemaking necessarily pluralistic in nature (see Van de Ven and Poole 2005).

We further investigate our research question by building upon Karl Weick’s work on sensemaking and organizing (Weick 1969 1979 1995 2001; Weick et al. 2005), and by critically examining research on interorganizational structuring practices (e.g. Ariño and Ring 2004; Ring and Rands 1989; Ring and Van de Ven 1989 1994). In doing so, we focus on the relationships between formalization, sensemaking, understanding and the mechanisms through which formalization facilitates sensemaking, including: (1) focusing attention; (2)
forcing articulation, deliberation and reflection; (3) instigating and maintaining interaction; and (4) reducing judgment errors and individual biases, and diminishing incompleteness and inconsistency of cognitive representations (see Figure 1). We argue that problems of understanding propel the need for formalization, which subsequently influences sensemaking through four mechanisms, eventually enabling participants in interorganizational relationships to achieve more congruent understandings.

The article provides two contributions. First, it elucidates that interorganizational relationships not only entail issues of coordination, control and legitimacy, but also problems of understanding, resulting from the differences between cooperating parties and from the ambiguity and uncertainty that tend to prevail in the early stages of interorganizational cooperation. This description of cooperative endeavours conforms to Karl Weick’s accounts of complex, ambiguous events, and it complements more conventional perspectives on interorganizational governance prevailing in the literature (e.g. see Kale et al. 2001; Madhok 2002) by challenging the assumption that participants in these relationships have clear images of their partners, the relationships in which they are engaged and the contexts in which these are embedded (Jap 2001). Second, the article carries Karl Weick’s (1969 1979 1995 2001; see also Weick et al. 2005) work on the relationship between organizing and sensemaking forward in the context of interorganizational relationships. We capitalize on Weick’s contributions in this area to develop a richer and more comprehensive notion of the relationship between formalization, sensemaking, and problems of understanding than has hitherto been available in the literature on interorganizational relationships. In particular, we present a systematic overview of the mechanisms through which formalization contributes to
sensemaking, offering researchers a fertile basis for further theorizing in this area, and helping practitioners to address problems of understanding in their collaborative endeavours.

The article is organized accordingly. First, we briefly discuss problems of understanding in interorganizational relationships. Subsequently, we elaborate on four mechanisms through which formalization may facilitate sensemaking, and help participants in interorganizational relationships to cope with these problems. We conclude with the major implications of our study and promising avenues for future research.

**Problems of Understanding in Interorganizational Relationships**

Discontinuities in structures, contexts, routines, expectations and perceptual frameworks (Hoang and Rothaermel 2005; Rouleau 2005; Weick 1995; Zollo et al. 2002) cause problems of understanding in interorganizational relationships, particularly in early stages of collaboration. They lead participants to interpret and understand the same phenomena differently (Porac et al. 2002; Sutcliffe and Huber 1998; Vaara 2003). Such problems are especially pertinent in relationships between unfamiliar partners (Ring and Van de Ven 1994; Sutcliffe and McNamara 2001) and in complex, cross-sector collaborations, where ‘the nature of the pie, its size, and an assessment of its ingredients may be ambiguous’ (Jap 2001: 86). In these cases, cooperation brings into tension ‘extraordinarily complex ways of framing problems, as well as divergent knowledge and truth claims based on competing disciplinary paradigms’ (Couchman and Fulop 2002: 43).

Consequently, participants may not fully comprehend each other’s competencies, strengths and weaknesses, and they may find it hard to envision the projected outcomes of relationships (Jap 2001; Jap and Ganesan 2000). Furthermore, they may experience difficulties in
appreciating the potential for transacting with each other (Ariño and Ring 2004) due to an absence of unity in purpose and expectations (Mjoen and Tallman 1997). Problems of understanding also tend to prevail when collaborative relationships are embedded in risky, uncertain settings, and when they involve non-standard business objectives (Jap 2001; McGinn and Keros 2002). In these cases, ambiguity and uncertainty become fundamental concerns (Carson et al. 2006), constraining the extent to which participants in interorganizational relationships understand their partners and the new contexts in which they have to act (Meindl et al. 1996; Ring 2000). In such cases, common or congruent understandings have to be developed to enable cooperation and joint value creation (Balogun and Johnson 2004; Weick 2001; White and Lui 2005). Participants attempt to ameliorate their understandings by making sense of their partner, the relationships in which they are engaged and the contexts in which these are embedded (Kirsch 2004; Lindenberg 2003; McGinn and Keros 2002; Ring 2000).

Sensemaking, a concept that is central to the work of Karl Weick (e.g. 1969 1979 1995 2001), refers to the reciprocal interaction of information seeking, meaning ascription and action (Thomas et al. 1993). In the context of this paper, it concerns the interactive processes by which participants in interorganizational relationships construct accounts that allow them to comprehend the world and act collectively (Maitlis 2005; Rouleau 2005; Weick and Roberts 1993). It derives from the needs of individuals to have a sense of self-identity in relation to others and to construct a common factual order regarding their social relationships (Turner 1987). Sensemaking not only concerns identifying, assimilating and utilizing information, but also removing its equivocality (Weick 1995), and diminishing participants’ cognitive disorder by foreclosing alternative interpretations and understandings of phenomena (McKinley and Scherer 2000), so that the world appears more stable and enduring (Weick 1995).
Formalization as a Means to Make Sense

To elucidate how formalization affects sensemaking, we first illuminate Weick’s position on the relationship between sensemaking and organizing. Although Weick (1995: 229) contends that ‘a little order can go a long way’, he also acknowledges that some kind of structure needs to be present to guide action, and to direct attention to particular aspects of a situation (Weick 1995). He further posits that ‘sensemaking and organization constitute one another’ and that sensemaking involves the ‘continued redrafting of an emerging story so that it becomes more comprehensive, incorporates more of the observed data, and is more resilient in the face of criticism’ (Weick et al. 2005: 410-411, 415), which conforms to descriptions of negotiation and contracting processes in interorganizational relationships (e.g. see Mayer and Argyres 2004). Weick (2001: 116) also asserts that ‘a framework of roles, rules, procedures, configured activities and authority relations’ can both reflect and facilitate meanings and that organizing may help to establish a workable level of uncertainty and ambiguity (Weick 1969 1979), which corresponds to images of formalization as a means to reduce and absorb complexity and ambiguity (Carson et al. 2006).

Weick thus acknowledges that organizing processes, such as formalization, may be conducive to sensemaking. Building on his insights, we further develop the idea that formalization enables, or even forces collaborating parties to engage in sensemaking, helping them to create common ground and achieve mutual understanding (Blomqvist et al. 2005; McGinn and Keros 2002; Ring and Van de Ven 1989 1994). As became evident from three alliances in the Norwegian retailing industry, formal aspects to a large extent anchor, inform, influence and add to the informal and implicit understanding of cooperating parties (Ness 2002: 31), and they assist parties in defining and redefining ‘the terms of their interdependence’ (Walton and McKersie 1965: 35, as cited in Putnam 2003). Although this
suggests that formalization influences sensemaking, and eventually the creation of generic understandings that form a basis for interorganizational exchange (Ariño and Ring 2004; McGinn and Keros 2002; Sivadas and Dwyer 2000), a systematic overview of the mechanisms through which this may occur is still lacking in the literature. In this article, we develop such an overview (see Figure 1), by discussing four mechanisms that feature prominently in Karl Weick’s work on sensemaking and in literature on formalization, thereby constituting the most important points of contact between both concepts.

**Focusing Attention**

A first mechanism through which formalization enables sensemaking is labelled *focusing attention*. Participants in interorganizational relationships generally display a joint focus or co-orientation on formal documents and processes, which renders formalization a focusing device (Avadikyan et al. 2001; Nooteboom 1992; Sutcliffe and McNamara 2001; Taylor and Robichaud 2004; Yu et al. 2005). Formal documents and processes serve as focal points for different streams of ongoing activity, providing them with meaning and direction (Weick 2001; Yakura 2002). They focus attention by clarifying whether there are decisions that need to be made and what those decisions might consist of (Weick 2001), and by demarcating what is allowed, expected, acceptable and possible, and what is not (Carson et al. 2006; Lui and Ngo 2004; Nellore 2001). Formalization helps to selectively highlight some issues and marginalize or omit others (Brown 2000; Fiss and Zajac 2006), and it prevents participants from being distracted by issues of secondary importance (Delmar and Shane 2003). Formal items on agenda meetings, for example, enable partners to open up discussions on specific issues, and close off discussion on other topics (Putnam 2003), so that participants can focus on a small number of concerns and expend their cognitive efforts on restricted problem areas, reducing the cognitive complexity they experience (Boisot and Child 1999; Campbell 1988).
Mayer and Argyres (2004: 400) offer an example of formalization’s role in focusing attention in their description of a relationship between a Silicon Valley Software firm and a Japanese electronics producer. They note that formal statements of work ‘forced the parties to determine mutually agreeable delivery dates early in the coding process, before managerial attention on scheduling was lost.’ Similarly, Avadikyan et al. (2001: 1453) describe how a contract for the development of a fuel cell powered electric car influenced ‘the methodological orientations’ of the participants in this relationship. These examples show that formalization provides the ‘general direction as to how the parties to a contract should orient their mutual interaction so as to achieve a common purpose’ (Kaghan and Lounsbury 2005: 12). The resulting focus in attention may not only reduce the complexity perceived by partners (Boisot and Child 1999), but it may also enable the absorption of complexity during relationships, provided that participants remain open and willing to revise formal documents continuously (Ring 2000), maintain contingencies and preserve flexibility. In such cases, formalization becomes a process by which reality is constructed and reconstructed, instead of a means by which reality is fixed at one point in time. Formalization then restricts the extent to which participants intrude their environment and acquire and perceive cues and connections around which they cohere and structure their beliefs. It conditions sensemaking by limiting the information and cues on which participants focus their attention (Anand and Peterson 2000; Daft and Weick 1984). Summarizing, we argue that formalization entails a focus of attention, which subsequently influences sensemaking (see Figure 1).

**Proposition 1:** Formalization helps participants in interorganizational relationships to focus their attention, thereby affecting their ability to make sense of their partners, the relationships in which they are engaged and the collaborative contexts in which these are embedded.
Forcing Articulation, Deliberation and Reflection

A second mechanism through which formalization facilitates sensemaking concerns articulation, deliberation and reflection. Formalization forces parties ‘to articulate their individual and mutual goals explicitly during the contracting process’ (Blomqvist et al. 2005: 501). It thereby enables participants to lift equivocal knowledge out of the tacit, private, complex, random and past to make it explicit, simpler, ordered and relevant to the situation at hand (Obstfeld 2004). By doing so, formalization not only generates more ‘raw material’ from which cooperating parties can make sense (Daft and Weick 1984; Thomas and Trevino 1993), but it also assists in clarifying their identity, positions and payoffs, and the behaviour and interaction that they prefer, so that interpretable responses by other participants are elicited (Hill and Levenhagen 1995; Shankarmahesh et al. 2004). Formalization thus ensures ‘that the structural foundations of a deal are well articulated’ (Kaghan and Lounsbury 2005: 21). On an individual level, such articulation is associated with synthesizing issues on paper, forcing people to reflect, cogitate, and think deeper (Weick 1995; Zollo and Winter 2002; Zollo and Singh 2004). It stimulates participants to deliberate beyond general understandings, and to be clear about the variables and parameters that need to be considered, the sequence or priority with which different criteria of decision-making are to be invoked, and the process of inference by which decisions are to be made (Katz and Kahn 1966). This is reinforced by the fact that participants wish to avoid unnecessary grievances and mistakes. They therefore give contracts, rules and procedures generally ‘more deliberation than orders’ and try to make sure that they are ‘carefully expressed’ (Gouldner 1954: 162; see also Putnam 2003).

An example of formalization’s role in provoking articulation, deliberation and reflection concerns negotiation and contracting efforts in an alliance between Xerox and Fuji Xerox. The Xerox executive for this alliance claimed that the negotiating teams left no stone
He mentioned that ‘a lot of bright people argued down all the alleys looking for potential future problems,’ and that they spent their time ‘going through all the “what if” questions.’ They continuously ‘took the agreement apart and put it back together’ (Gomes-Casseres 1996: 27). Another example consists of a relationship between a Silicon Valley Software firm and a Japanese electronics producer in which a ‘risk and concern’ section was inserted in formal statements of work in order to ‘force the participants to think through the project’ (Mayer and Argyres 2004: 400). In contrast, a lack of formalization may inhibit deliberation and reflection, witnessing a relationship between Coca-Cola and Nestlé. When negotiating the deal, ‘too little attention was paid to the alliance business plan. Market pressures were such that executives rushed into the collaborative agreement […]’. The contract was signed in one weekend’ (Ariño and Reuer 2004: 45). In this case, a lack of formalization resulted in low degrees of deliberation and reflection and the relationship was dissolved after three years, despite a stipulated contract horizon of one hundred years.

Through forcing articulation, deliberation, and reflection, formalization turns circumstances into words and salient categories that form a basis for sensemaking (Weick et al. 2005). Moreover, it renders sensemaking processes more active and animated, and imbues them with social energy (see Maitlis 2005). Participants become more heedful (see Weick 1993), question current assumptions, beliefs and understandings, and actively construct their new reality. To recapitulate, we argue that formalization facilitates articulation, deliberation, and reflection, and thereby influences sensemaking (see Figure 1).

**Proposition 2:** Formalization helps participants in interorganizational relationships to articulate, deliberate and reflect upon issues, thereby affecting their ability to make sense of their partners, the relationships in which they are engaged and the collaborative contexts in which these are embedded.
Instigating and Maintaining Interaction

A third mechanism through which formalization facilitates sensemaking revolves around its role in instigating and maintaining interaction (Avadikyan 2001; Balogun and Johnson 2005; Simons 1995). Interaction between participants in interorganizational relationships flows through ‘series of formal processes’ and outcomes (Ring 2000: 154), which serve as frameworks, mediums, or triggers for interaction (Ness 2002; Putnam 2003). Formalization is used to spin new stories; set actions in motion; announce beginnings, milestones, and ends; and trigger changes of course (Avadikyan 2001; Eccles and Nohria 1992; Weick 1995). It entails the exchange of proposals between parties, which mediate conversations and dialogues (Nellore 2001; Putnam 2003) and enable parties to discuss tasks not yet executed and outcomes that still have to be created (Yakura 2002). Formalization involves processes of arguing, listening and working to reconcile differences (see Weick 2004; Weick and Roberts 1993), enabling individuals to ‘express their opinions and beliefs, engage in constructive confrontations, and challenge each other’s viewpoints’ (Zollo and Winter 2002: 341). In this way, participants in collaborative relationships come to share and synthesize knowledge sets, implicit assumptions and mental models (Kotabe et al. 2003).

An example of formalization’s role in instigating and maintaining interaction concerns a geographically and organizationally dispersed group of artificial intelligence language designers, which treated each release of a formal manual ‘as an event initiating discussion of perceived gaps or problems and further proposals and agreements, which in turn led to the next draft’ (Orlikowski and Yates 2002: 692). Another example concerns two partnerships involving original-equipment manufacturers in the auto and aircraft industries, where contracts provided a setting for discussion, allowing partners to ‘understand the specifications, each other’s capabilities, and the resources needed to do the job’ (Nellore
These examples indicate that formalization entails representations of reality through which participants in interorganizational relationships interrelate and make sense of their new situation. Summarizing, we contend that formalization helps to instigate and maintain interaction among participants in interorganizational relationships, thereby offering fertile ground for sensemaking (see Figure 1).

**Proposition 3:** Formalization instigates and maintains interaction among participants in interorganizational relationships, and thereby affects their ability to make sense of their partners, the relationships in which they are engaged and the collaborative contexts in which these are embedded.

**Reducing Biases, Judgment Errors, Incompleteness and Inconsistency**

Finally, we advance that formalization facilitates sensemaking by reducing the impact of individual biases and judgment errors, and by augmenting the completeness and consistency of participants’ cognitive representations of their partners, the relationships in which they are engaged and the contexts in which these are embedded. Formalization reduces influences of individual biases and judgment errors on collaboration as it is sensitive to the ideas and interests of several persons. It compensates for deficiencies in individual thought processes, such as global and undifferentiated thinking, cognitive nearsightedness and oversimplified notions of causation (Katz and Kahn 1966; Ketokivi and Catañer 2004). It therefore tends to result in more nuanced, consummate and consistent pictures of reality (Katz and Kahn 1966), increasing the reliability and predictability of decision making processes and outcomes (Sutcliffe and McNamara 2001). This is reinforced by the fact that formalization requires parties to adopt relatively unambiguous proxies for desired behaviour and outcomes so that deviations are clearly verifiable (Carson et al. 2006).
Formalization also raises the likelihood that relevant information is considered and treated properly, and that inconsistencies are uncovered and eliminated (Avadikyan et al. 2001; Sutcliffe and McNamara 2001). An example stems from an alliance between L’Oréal and Esthetique, in which additions to the contractual framework ‘reduced “noise” in the interaction on all levels, as typically small and recurring conflicts were dealt with once and for all’ (Ness 2002: 25). An example of a contrasting situation is offered by Doz (1996). In his description of an alliance between Ciba Geigy and Alza aimed at the development of controlled oral pills and transdermal patches, he indicates that low levels of formalization made ‘that the initial agreement left room for […] widely different perceptions and broad frames [which] led to growing suspicions and tensions as each party was searching for clues in the behaviour of the other’ (Doz 1996: 68). These examples indicate that formalization may enable participants in interorganizational relationships to make sense of their new situation by reducing the impact of biases and judgment errors and by increasing the consistency and completeness of cognitive representations. This is captured in a fourth proposition (see Figure 1).

**Proposition 4:** Formalization reduces the impact of individual biases and judgment errors, and it diminishes incompleteness and inconsistencies among the cognitive representations held by participants in interorganizational relationships, thereby affecting their ability to make sense of their partners, the relationships in which they are engaged and the collaborative contexts in which these are embedded.

**Towards a Balanced View**

In previous paragraphs, we argued that formalization facilitates sensemaking through four mechanisms, possibly turning ambiguous or equivocal circumstances into a situation that is
‘comprehended explicitly in words and that serves as a springboard into action’ (Weick et al. 2005: 409, citing Taylor and Van Every 2000: 40). Formalization assists participants in testing and establishing expectations as to how roles and responsibilities are divided, how partners are doing and how they will react to what one says and does (Hill and King 2004; Klein Woolthuis et al. 2005; Narayandas and Rangan 2004; Sivadas and Dwyer 2000; Weick and Roberts 1993), and it enables them to assess and appreciate the nature and purpose of relationships (Ring and Van de Ven 1994). Formalization further helps participants to discover the amount of agreement they have on cause-effect linkages and on priorities and preferences for outcomes, which coincides with a description of sensemaking in early stages by Weick and McDaniel (1989). Formalization may thus help participants to make sense of their partners, the relationships in which they are engaged and the contexts in which these are embedded, by offering them ‘a collaborative framework in which the potential for joint action is both significant and beneficial’ (Hardy et al. 2005: 63).

However, we recognize that formalization may also have negative effects on sensemaking, as it may make events seem more comprehensible and controllable than they really are (Brown 2004) fuelling the illusion that ‘management’ or ‘control’ are in place (Brown 2000; Yakura 2002). Furthermore, high degrees of formalization may result in psychic imprisonment (Snell 2002), so that subsequent sensemaking activities proceed within overly narrow analytical and decision-making boundaries (Ring 2000). In such cases, formalization leads to a focus of attention that is too rigid or inappropriate, which may lead managers to ignore or overlook critical factors, and render their understandings too parsimonious, myopic or otherwise incongruent with reality (Hill and Levenhagen 1995; Sutcliffe and McNamara 2001). In this respect, Weick (2001: 460) mentions that ‘once a sense of the situation begins to develop, that sense can be terribly seductive and can resist updating and revision.’ It may also lead
managers to lose ‘sight of the forest’ while picking away ‘at the branches and leaves of the
trees’ (Putnam 2003: 48). This was evident in Doz’s (1996: 68) description of an alliance
between Ciba Geigy and Alza, where sensemaking led to cognitive understandings that
‘made the behavioural learning agenda look taller and taller.’

Formalization has other disadvantages in that it can easily turn into formalism (Mintzberg
1994), cause rigidity and a loss of creativity and flexibility (Volberda 1998), and diminish
trust (Klein Woolthuis et al. 2005). Moreover, attempts to articulate, deliberate and reflect
upon issues may entail high costs and efforts, and they can even hamper interaction if their
benefits are unclear to participants in collaborative endeavours. Furthermore, formalization
may not only diminish but also introduce biases and errors, if it inappropriately reflects
desired outcomes and behaviours. We acknowledge the fact that formalization has a dark
side, and that it can generate undesired and unanticipated outcomes (Balogun and Johnson
2005; Yu et al. 2005). Or, as Mintzberg (1994: 386) notes ‘formalization is a double-edged
sword, easily reaching the point where help becomes hindrance.’ We therefore conclude that
the relationship between formalization and sensemaking is likely to be a curvilinear one, in
which formalization contributes to sensemaking up to a certain point through each of the four
mechanisms that we distinguished previously, after which it diminishes participants’ capacity
for sensemaking (see Figure 1).

**Proposition 5:** The extent to which formalization enables participants to: (1) focus their
attention; (2) articulate, deliberate and reflect; (3) interact; and (4) reduce judgment errors
and biases, and incompleteness and inconsistency of cognitive representations has a
curvilinear relationship with their ability to make sense of their partners, the relationships in
which they are engaged and the contexts in which these are embedded.
Finally, we propose that formalization may help to solve problems of understanding by facilitating sensemaking in interorganizational relationships. Formalization is one way of organizing by which people make sense of equivocal inputs, which they enact back into their world to make it more orderly (Weick et al. 2005). It may thereby eventuate in more refined understandings of partners’ cultures, management systems, capabilities and weaknesses, and offer participants more clarity about the context in which relationships are embedded (Zollo et al. 2002). Formalization may affect sensemaking in such a way that participants in interorganizational relationships create ‘a solid understanding of the business, share a common fact base, and agree on important assumptions’ (Kaplan and Beinhocker 2003: 72). They may gradually come to understand the nature of the pie that can be created in their relationship, the size of that pie, and the processes and resources that could help create the pie (Jap 2001). Moreover, they can improve their understanding of each other’s intentions, actions and behaviour (Aulakh and Madhok 2002). The resulting collective consciousness (Clegg et al. 2002; Hill 2001), common reality, or shared understandings (Brown 2004; Hardy et al. 2005; Putnam and Cooren 2004) offer them a unitary basis for action (Maitlis 2005; Weick and Roberts 1993).

This does not imply that partners need to have the same point of view, or understand each other completely. Plurivocal interpretations and understandings will always persist among organizational actors due, among other reasons, to lasting differences in prior experience (see Balogun and Johnson 2004; Brown 2000 2004), and differences in interests and objectives. However, formalization’s effects on sensemaking at least increase the likelihood that participants in interorganizational relationships develop mutual understandings next to their private understandings, which may enable coordinated action, while preserving the complexity of multiple individual cognitive structures (Barr and Huff 1997; Elsbach et al.
Concluding, we advance that formalization affects sensemaking processes, which subsequently influence problems of understanding among participants in interorganizational relationships (see Figure 1).

**Proposition 6:** Through enabling participants in interorganizational relationships to make sense of their partners, the relationships in which they are engaged and the contexts in which these are embedded, formalization reduces the degree to which participants in interorganizational relationships experience problems of understanding.

**Discussion**

In this article, we have exemplified how formalization may help participants in interorganizational relationships to cope with problems of understanding. We have shown that formalization entails socio-psychological processes through which participants socially construct or ‘enact’ their realities (Ariño and Ring 2004; Vaara 2003; Weick 1995) and reduce the cognitive disorder, ambiguity and uncertainty that they experience (Carson et al. 2006; McKinley and Scherer 2000; Weick 1979 1995 2001 2004). Collectively, our arguments depict formalization as a process of ‘constructive clarification’ (Cardinal et al. 2004: 422) by which particular versions of reality are created, clarified, sustained and modified (Brown 2004), and as a form of structuring that generates and recreates meanings (Ranson et al. 1980). Our description accommodates several distinguishing features of sensemaking such as ‘its genesis in disruptive ambiguity [e.g. the initiation of a new relationship], its beginnings in acts of noticing and bracketing [e.g. codification], its mixture of retrospect and prospect [e.g. different experiences of partners combined with converging understandings], [and] its culmination in articulation that shades into acting’ [formalization as a basis for action] (Weick et al. 2005: 413). Our discussion strongly resembles notions of
sensemaking as a ‘guided and controlled’ process, which results in the creation of more unitary and rich accounts of reality, that provide ‘common foundations for action’ and enable ‘the emergence of series of actions with a consistent focus’ (Maitlis 2005: 28).

It is important to note here that sensemaking efforts are undertaken in concert with sensegiving efforts, so as to ‘influence the sensemaking and meaning construction of others’ (Gioia and Chittipeddi 1991: 442). Although sensemaking is essentially a cognitive concept, while sensegiving also refers to communication (Shankarmahesh et al. 2004), both concepts are associated with the management of meaning (Maitlis 2005) and with continuous processes of organizing (Weick et al. 2005). Sensegiving efforts by some participants give rise to sensemaking efforts by others, which renders them interactional complements (Gioia and Chittipeddi 1991; Rouleau 2005). Although we focused on the influence of formalization on sensemaking in this paper, formalization may equally well serve sensegiving, assisting participants in framing and disseminating issues to stakeholders in their relationships (Fiss and Zajac 2006), and enabling them to provide descriptions and explanations, and create opportunities for interaction that help others to make sense (Maitlis 2005; Weick 1995).

Theoretical and Practical Implications

This article advances prior research on the sensemaking function of formalization (Ring and Van de Ven 1989 1994) by discerning the mechanisms through which formalization facilitates the creation of more congruent understandings among participants in interorganizational relationships. It indicates that researchers may benefit from embracing the inherent qualities of the process of formalization itself, instead of focusing on contracts, rules and procedures alone, something which is congruent with pleas by Weick and other researchers for more research into structuring processes (see Ariño and De la Torre 1998;
Carson et al. 2006; De Rond and Bouchikhi 2004; Narayandas and Rangan 2004; Ring and Van de Ven 1994; Weick 2001; Weick et al. 2005). Moreover, our conceptualization of formalization implies that researchers should regard formalization as a means to achieve coordination, control, and legitimacy, but also as a means to cope with problems of understanding in interorganizational relationships. This implies that researchers may have to redirect their attention from coercive towards enabling types of formalization (see Adler and Borys 1996; Zollo and Winter 2002) in which higher levels of understanding (Zollo and Singh 2004) and the constitution of meaning (Giddens 1984) assume a more central position. Furthermore, premises of power, self-interest, and opportunism (Williamson 1985) seem to be insignificant when discussing formalization’s role in coping with problems of understanding. Nevertheless, the creation of new understandings is not free of power issues and self-interested behaviour (Brown 2000 2004). Parties will, for example, attempt to influence and shape each other’s beliefs in the direction that they prefer, and they frequently interpret phenomena with these interests in mind. Moreover, they may choose not to give other parties particular information for strategic reasons, or use their power to influence the issues that are captured in formal documents. This implies that formalization has to be regarded as ambivalent, in the sense that it is a vehicle of several functions (Avadikyan 2001; Madhok 2002), something which renders either-or discussions on formalization’s functioning unproductive (Klein Woolthuis et al. 2005).

Practitioners could use the insights generated in this article to establish more congruent understandings among participants in the relationships in which they are involved. This will prove to be particularly useful when their relationships are characterized by large interpartner differences and high degrees of ambiguity and uncertainty. In such cases, simply exchanging more information may not solve the problems that they experience, and efforts
have to be put into shaping interpretations and understandings (Sutcliffe and Weber 2003; Thomas and Trevino 1993). This article has shown that formalization may be an important means for doing so. More specifically, the article offers practitioners insights into how formalization facilitates sensemaking, and how it helps to develop more congruent understanding in collaborative relationships.

**Future Research**

Opportunities for future research are abundant. First, researchers could investigate how power, politics, and resource and information asymmetries affect sensegiving and sensemaking in collaborative relationships. Such factors provide different people with unequal positions to influence the social construction of reality (Mills 2003). They affect, among other aspects, the extent to which parties have control over cues, communicate with each other and support or constrain each other’s actions and behaviour (Weick et al. 2005). Moreover, when resource and information asymmetry exists between partners, participants are likely to perceive different cues and attribute different meanings to similar observations. After all, people interpret cues in light of their expectations and knowledge (Weick 1995). Power, politics, and resource and information asymmetries thus exert fundamental influences over sensegiving and sensemaking processes, rendering them important areas for future research.

Second, researchers could inquire into the relationship between formalization, understanding, and its other functions. Hitherto, it has remained unclear how better understandings of partners in interorganizational relationships affect coordination, control, and legitimacy. Several indications exist that these functions presuppose sensemaking. We know, for example, that sensemaking processes contribute to envisioning how value can be created
(Ariño and Ring 2004), and that they assist in removing misunderstandings, information asymmetry and opportunities for moral hazard and opportunistic behaviour. We also know that these processes could lead to more accurate appreciations of the risks involved in a transaction, which should result in the design of more appropriate governance structures (Ring and Rands 1989; Ring and van de Ven 1989 1994), and which enables parties to develop a solid basis for their relationships, while tempering hubris and faddishness (Sampson 2003). However, a systematic overview of the relationship between formalization, understanding, and its other functions is not yet available. Related to this, researchers could attempt to develop a parsimonious yet comprehensive conceptual framework that allows for more systematic comparisons of the functions and dysfunctions, and eventually the performance effects of formalization across studies and contexts than currently presented in the literature (see White and Lui, 2005). A dialectic perspective in which the functions and dysfunctions of formalization are considered simultaneously could be a promising area for further investigation here (De Rond and Bouchikhi 2004).

A third option for future research concerns inquiries into organization, context and task characteristics that determine how the need for sensemaking evolves. We have presumed that the sensemaking function of formalization is particularly valuable for interorganizational relationships between partners possessing divergent skills, backgrounds and organizational structures, and for organizations based in disparate cultures or industries, as these differences can lead to misunderstandings and conflicts (Child and Rodrigues 2003). However, as partners get to know each other better and information asymmetries are being reduced, the need for sensemaking diminishes (Heide 2003), and issues become more clear-cut (see Koza and Lewin 1998; Rothaermel and Deeds 2004). Parties may have developed joint understandings that allow for uniquely efficient communication in the form of idiosyncratic
interaction routines (Hoang and Rothaermel 2005; Kotabe et al. 2003; Zollo et al. 2002) and they may have come to know more about each other’s structure, operations and competencies (Shenkar and Zeira 1992). Ring and Van de Ven (1994) therefore conclude that, in general, once the details of a cooperative relationship are established, sensemaking processes tend to be less intense than those that occur during transactional phases, at least until problems arise. This suggests that it is both worthwhile to investigate when the sensemaking function of formalization is most pertinent, and how it evolves over time.

A final avenue for future research pertains to investigating other means that facilitate sensemaking, such as informal processes of interaction (Balogun and Johnson 2005), and examining the factors that influence managers’ preferences for each of them. An example of such a factor could be the likelihood that relationships experience negative effects of employee turnover (Ring and Van de Ven 1994). The departure of two founding fathers in a joint venture in the consumer products industry between a North-American and a French company illustrates our point. Ariño and De la Torre (1998: 321) explain that ‘agreements and understandings that may have been implicit in their thinking, or that could have been articulated in an informal telephone call, [were] now easily misinterpreted by those not involved in the original design and negotiations.’ In this case, formalization could have prevented knowledge dissipation and facilitated continued sensemaking and learning.

Concluding, the article contributes to research on organizing and sensemaking by discussing how formalization may help participants in interorganizational relationships to cope with problems of understanding. By doing so, it carries Karl Weick’s thinking on sensemaking forward in the context of interorganizational management, and it offers a fertile basis for further theorizing in this field.
References

Adler, Paul S., and Bryan Boris

Anand, Narasimhan, and Richard A. Peterson

Ariño, Africa M., and Jose De la Torre

Ariño, Africa M., and Jeff J. Reuer

Ariño, Africa M., and Peter Smith Ring

Aulakh, Preet S., and Anoop Madhok

Avadikyan, Arman, Patrick Llerena, Mireille Matt, Anne Rozan, and Sandrine Wolff

Balogun, Julia, and Gerry Johnson

Balogun, Julia, and Gerry Johnson

Barkema, Harry G., and Freek Vermeulen

Barr, Pamela S., and Anne S. Huff

Baum, Joel A.C., and Tim J. Rowley
Blomqvist, Kirsimarja, Pia Hurmellina, and Risto Seppänen

Boisot, Max, and John Child

Brown, Andrew D.

Brown, Andrew D.

Campbell, Donald J.

Cardinal, Laura B., Sim B. Sitkin, and Chris Long

Carson, Stephen J., Anoop Madhok, and Tao Wu

Child, John, and Suzana B. Rodrigues

Clegg, Stewart R., Tyrone S. Pitsis, Thelka Rura-Polley, and Marton Marosszeky

Couchman, Paul K., and Liz Fulop

Daft, Richard L., and Karl E., Weick

Delmar, Frédéric, and Scott A. Shane

De Rond, Mark, and Hamid Bouchikhi
Doz, Yves L.  

Eccles, Robert G., and Nitin Nohria  
1992 *Beyond the hype: Rediscovering the essence of management*. Boston: HBS.

Elsbach, Kimberley D., Pamela S. Barr, and Andrew B. Hargadon  

Fiss, Peer C., and Edward J. Zajac  

Giddens, Anthony  

Gioia, Dennis A., and Kumar Chittipeddi  

Gomes-Casseres, Benjamin  

Gouldner, Alvin W.  

Hage, Jerald, and Michael Aiken  

Hardy, Cynthia, Thomas B. Lawrence, and David Grant  

Heide, Jan B.  

Hill, Claire A.  

Hill, Claire A., and Christopher King  

Hill, Robert C., and Michael Levenhagen  
Hoang, Ha, and Frank T. Rothaermel  

Jap, Sandy D.  

Jap, Sandy D., and Shankar Ganesan  

Kaghan, William N., and Michael D. Lounsbury  

Kale, Prashant, Jeff H. Dyer, and Harbir Singh  

Kaplan, Sarah, and Eric D. Beinhocker  

Katz, Daniel, and Robert L. Kahn  

Ketokivi, Mikko, and Xavier Catañer  

Kirsch, Laurie J.  

Klein Woolthuis, Rosalinde, Bas Hillebrand, and Bart Nooteboom  

Kotabe, Masaaki, Xavier Martin, and Hiroshi Domoto  

Koza, Mitchell P., and Arie Y. Lewin  

Lane, Peter J., and Michael H. Lubatkin  
Lindenberg, Siegwart M. 

Lui, Steven S., and Hang-Yue Ngo 

Macneil, Ian R. 

Madhok, Anoop 

Maitlis, Sally 

Mayer, Kyle J., and Nicholas S. Argyres 

McGinn, Kathleen L., and Angela Keros 

McKinley, William, and Andreas G. Scherer 

Meindl, James R., Charles Stubbart, and Joseph F. Porac 

Mills, Jean H. 

Mintzberg, Henry 
1994 The rise and fall of strategic planning. Hemel Hempstead: Prentice Hall.

Mjoen, Hans, and Stephen Tallman 

Narayandas, Das, and V. Kasturi Rangan 
Nellore, Rajesh

Ness, Håvard

Nooteboom, Bart

Obstfeld, David
2004 ‘Saying more and less of what we know: The social processes of knowledge creation, innovation and agency’. Unpublished manuscript.

Orlikowski, Wanda J., and JoAnne Yates

Ouchi, William G.

Porac, Joseph F., Marc J. Ventresca, and Yuri Mishina

Putnam, Linda L.

Putnam, Linda L., and François Cooren

Ranson, Stewart, Bob Hinings, and Royston Greenwood

Ring, Peter Smith

Ring, Peter Smith, and Gordon P. Rands
Ring, Peter Smith, and Andrew H. Van de Ven  

Ring, Peter Smith, and Andrew H. Van de Ven  

Rothaermel, Frank T., and David L. Deeds  

Rouleau, Linda  

Sampson, Rachelle C.  

Shankarmahesh, Malesh N., John B. Ford, and Michael S. LaTour  

Shenkar, Oded, and Yoram Zeira  

Simons, Robert  

Sitkin, Sim. B., and Robert J. Bies  

Sivadas, Eugene, and F. Robert Dwyer  

Snell, Robin S.  

Sutcliffe, Kathleen M., and George P. Huber  
Sutcliffe, Kathleen M., and Gerry M. McNamara

Sutcliffe, Kathleen M., and Klaus Weber

Taylor, James R., and Daniel Robichaud

Thomas, James B., and Linda K. Trevino

Thomas, James B., Shawn M. Clark, and Dennis A. Gioia

Turner, Jonathan H.

Vaara, Eero

Van de Ven, Andrew H., and M. Scott Poole

Volberda, Henk W.

Walton, Richard E., and Robert B. McKersie

Weick, Karl E.
1969/1979 *The social psychology of organizing*. Reading: Addison-Wesley.

Weick, Karl E.

Weick, Karl E.

Weick, Karl E.
Weick, Karl E.  

Weick, Karl E.  


Weick, Karl E., and Roberts, Karlene H.  

Weick, Karl E., and Kathleen M. Sutcliffe  

Weick, Karl E., Kathleen M. Sutcliffe, and David Obstfeld  

White, Steven, and Steven S.-Y. Lui  

Williamson, Oliver E.  

Yakura, Elaine K.  

Yu, Jisun, Rhonda Engelman, and Andrew H. Van de Ven  

Zollo, Maurizio, Jeff J. Reuer, and Harbir Singh  

Zollo, Maurizio, and Sidney G. Winter  

Zollo, Maurizio, and Harbir Singh  
Figure 1
Relationships between formalization, mechanisms, sensemaking, and understanding in an interorganizational context

Formalization:
The need for formalization by interorganizational participants:
- As a process of codification and enforcement, which is inextricably linked with outcomes, such as
- Contracts, rules and procedures

Affects four mechanisms

Four mechanisms:
- Focus of attention
- Articulation, deliberation and reflection
- Interaction
- Biases, judgment errors, completeness & consistency

Sensemaking:
The ability of participants in collaborative relationships to make sense of:
- Their partners
- Interorganizational relationships
- The contexts in which these relationships are embedded

Understanding:
Problems of understanding in interorganizational relationships emanating from:
- Differences in culture, experience, size, background, structure, industry, et cetera
- Discontinuity and uncertainty and ambiguity in early stages of collaboration

Propels the need for formalization

Diminishes problems of understanding

Influence sensemaking
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