Kindred Spirits: The Influence of Cognitive Frame Similarity on **Contingency Planning in Strategic Alliances**

Univ. of Passau

Marvin Hanisch, Lorenz Graf-Vlachy, Carolin Häussler, Univ. of Passau

Univ. of Passau

Andreas König, Univ. of Passau Theresa Cho. Seoul Nat. Univ.

Research Presentation

Content Analysis PDW at the Academy of Management Annual Meeting in Chicago August 10, 2018

Overview

- 1. Research Question
- 2. Theoretical Model and Hypotheses
- 3. Methodology
- 4. Results
- 5. Discussion



1. RESEARCH QUESTION

Contingency planning is central to strategic alliances because it makes partnerships more reliable and predictable

Strategic alliance contracts



See Mayer and Bercovitz, 2008

However, alliance partners frequently rely on the prospect of future "good faith" negotiations to deal with contingencies

The use of good faith in contingency provisions

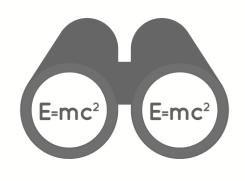
"In the event of any alleged or threatened infringement by a Third Party [...], the Parties will confer **in good faith** as to how to address such infringement."

Excerpt from alliance agreement between a pharmaceutical company and a biotechnology firm

"The term 'good faith' is often referred to, but less often defined. It can be difficult to know exactly what is meant by the term in any given situation."

Parker et al., 2016





2. THEORETICAL MODEL AND HYPOTHESES

Extant research hints at a trade-off involved in contingency planning – but is essentially silent on how organizations make it!

Disadvantages and advantages of "good faith" contingency planning

Disadvantages of "good faith"

- Not clearly defined, creates interpretive uncertainty (Parker et al., 2016)
- Can lead to costly conflicts later on (Richter, 2016)

Advantages of "good faith"

- Increases flexibility
- Decreases upfront contracting costs (Crocker & Reynolds, 1993)

What determines how firms make this trade-off and, in turn, how much they rely on "good faith"?

We argue that partners with similar cognitive frames are more likely to reach an agreement on contingencies in good faith

Cognitive frame similarity and good faith

- Cognitive frames are schemas of interpretation that are shared among organizational members and direct and guide their attention, information processing, decision making, and actions (Cornelissen and Werner 2014, Goffman 1986, Kaplan 2011)
- Alliance partners with high cognitive frame similarity are more likely to interpret contingencies in similar ways because their respective sensemaking processes are more similar (Weber & Mayer, 2014)
- Thus, it is reasonable for alliance partners to deal with contingencies in good faith rather than attempting to formulate explicit contractual remedies ex ante

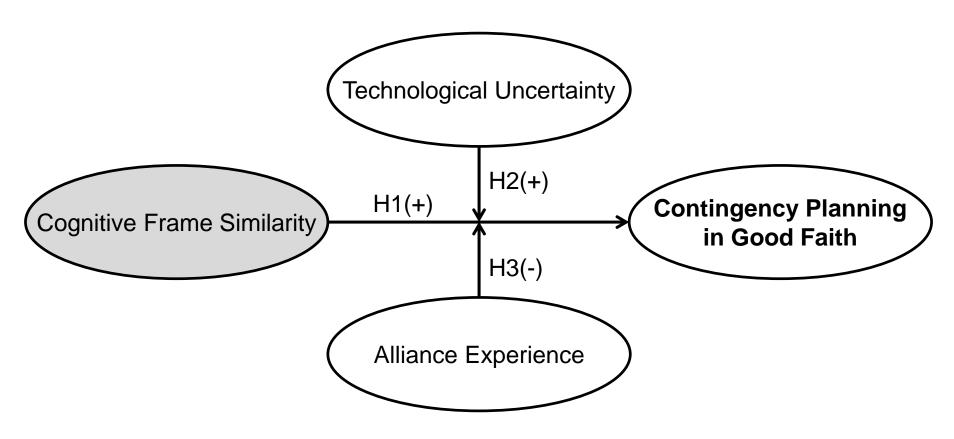
Alliance partners with higher cognitive frame similarity are more likely to rely on "good faith" in contingency planning

Results



The effect of cognitive frame similarity on the use of "good faith" is strengthened by uncertainty and weakened by experience

Hypotheses model

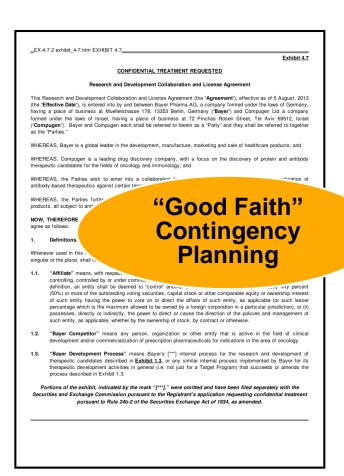




3. METHODOLOGY

To measure "good faith" contingency planning, we count the number of "good faith" clauses in each alliance contract

Construct operationalization: "Good faith" contingency planning



Theory

Measure development

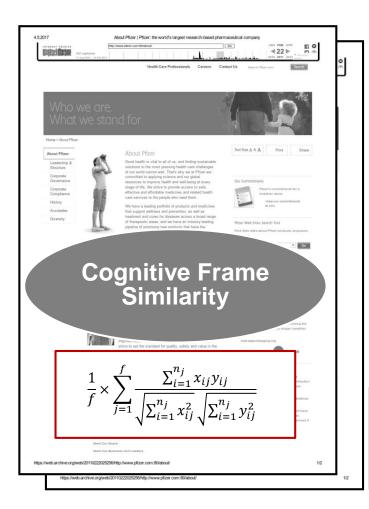
- No extant measure available
- Decided to identify and count number of "good faith" clauses in contract
- Developed coding scheme with legal experts

Measurement process in sample

- Used two trained coders
- Manually coded 8,892 clauses in 843 alliance contracts
- Excluded irrelevant cases of "good faith"

We develop a measure of cognitive frame similarity based on organizations' mission statements

Construct operationalization: Cognitive frame similarity



- Cognitive frames are reflected in the words that organization members use and codified in artifacts (Cho & Hambrick, 2006; Huff, 1990)
- We use mission statements because they ...
 - ... describe organizations' philosophy and priorities (Babnik et al., 2014, Campbell & Yeung, 1991)
 - reflect stable, agreed-upon, cognitive orientations shared by entire organization (Alegre et al., 2018)
 - ... direct interpretations and actions of organizational members (Shapiro & Naughton, 2015)
- We content-analyze 1,686 mission statements and determine the similarity of these documents (Duriau et al., 2007)

Manual qualitative analysis:
Identify frames

Computer-aided text analysis:
Identify and count frame-related words

Calculation
of similarity:
Cosine similarity of
mission statements

Theory

We measure the moderators in line with prior literature

Construct operationalization: Technological uncertainty and alliance experience

Transactional Uncertainty

Binary indicator of "Early Stage" of focal R&D project

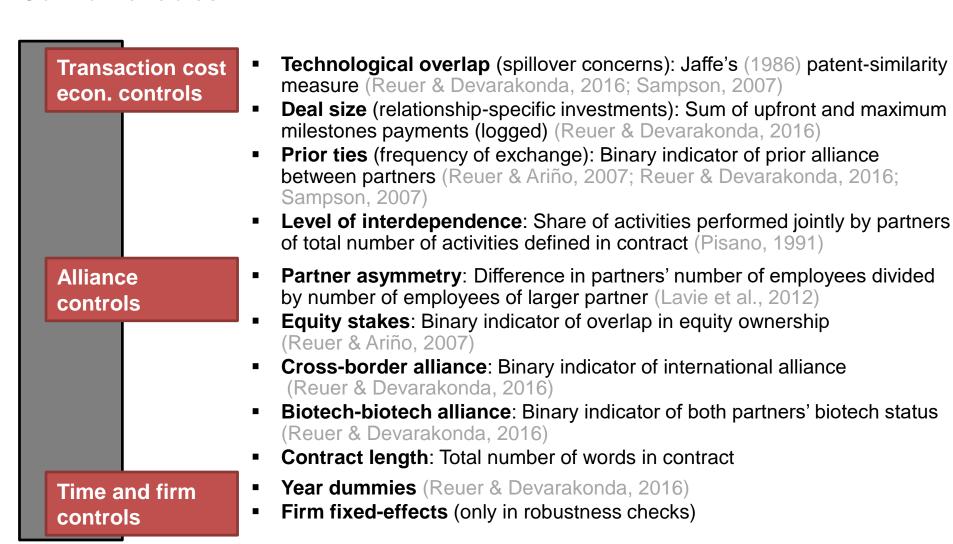
- 1 if preclinical stage
- 0 if molecule clinically tested or approved (Ozmel et al. 2017)

Alliance Experience

Sum of number of alliances each organization had entered before entering focal alliance (logged) (Hoang & Rothaermel, 2005)

We control for a host of potentially confounding variables

Control variables



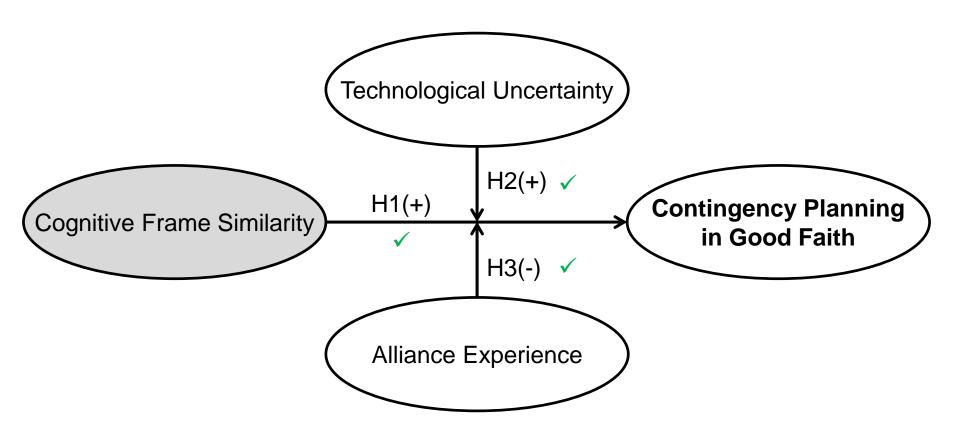
Theory



4. RESULTS

Regression estimates support our theoretical predications

Empirical results



Research Question

Theory

Methodology

Results

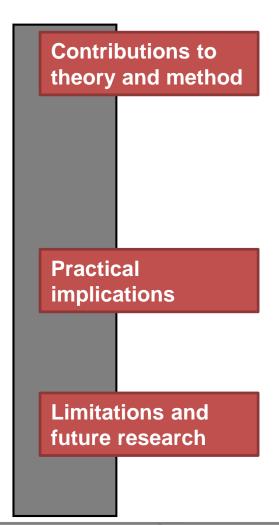
Discussion



5. DISCUSSION

We contribute to theory and practice and open up opportunities for future research

Contributions and opportunities for research



- We highlight socio-cognitive aspects of interorganizational relations
- We introduce cognitive frame similarity and demonstrate its effect on contingency planning
- We offer an operationalization of cognitive frame similarity and a measure of "good faith" contingency planning
- Consequential contracting decisions may be (unconsciously) made based on (perceived) cognitive similarity – a dangerous strategy if you cannot afford to lose the legal battle!
- Study micro-processes within individuals/teams
- Explicitly account for cultural aspects
- Research earlier and later stages of alliance process



REFERENCES

References 1/3

- Alegre, I., Berbegal-Mirabent, J., Guerrero, A., & Mas-Machuca, M. 2018. The Real Mission of the Mission Statement: A Systematic Review of the Literature. *Journal of Management & Organization*, 15: 1–18.
- Al-Najjar, N. I. 1995. Incomplete Contracts and the Governance of Complex Contractual Relationships. *American Economic Review*, 85(2): 432–436.
- Argyres, N. S., Bercovitz, J., & Mayer, K. J. 2007. Complementarity and Evolution of Contractual Provisions: An Empirical Study of IT Services Contracts. *Organization Science*, 18(1): 3–19.
- Babnik, K., Breznik, K., Dermol, V., & Trunk Širca, N. 2014. The Mission Statement: Organisational Culture Perspective. *Industrial Management & Data Systems*, 114(4): 612–627.
- Crocker, K. J., & Reynolds, K. J. 1993. The Efficiency of Incomplete Contracts: An Empirical Analysis of Air Force Engine Procurement. *RAND Journal of Economics*, 24(1): 126–146.
- Duriau, V. J., Reger, R. K., & Pfarrer, M. D. 2007. A Content Analysis of the Content Analysis Literature in Organization Studies: Research Themes, Data Sources, and Methodological Refinements. *Organizational Research Methods*, 10(1): 5–34.
- Gergen, M. P. 1992. The Use of Open Terms in Contract. *Columbia Law Review*, 92(5): 997–1081.
- Goetz, C. J., & Scott, R. E. 1981. Principles of Relational Contracts. *Virginia Law Review*, 67(6): 1089–1150.
- Hoang, H., & Rothaermel, F. T. 2005. The Effect of General and Partner-Specific Alliance Experience on Joint R&D Project Performance. *Academy of Management Journal*, 48(2): 332–345.

References 2/3

- Jaffe, A. B. 1986. Technological Opportunity and Spillovers of R&D: Evidence from Firms' Patents, Profits, and Market Value. *American Economic Review*, 76(5): 984–1001.
- Lavie, D., Haunschild, P. R., & Khanna, P. 2012. Organizational Differences, Relational Mechanisms, and Alliance Performance. *Strategic Management Journal*, 33(13): 1453–1479.
- Macneil, I. R. 1974. The Many Futures of Contracts. *Southern California Law Review*, 47(3): 691–816.
- Mayer, K. J., & Bercovitz, J. 2008. The Influence of Inertia on Contract Design: Contingency Planning in Information Technology Service Contracts. *Managerial and Decision Economics*, 29(2/3): 149–163.
- Miles, M. B., Huberman, A. M., & Saldaña, J. 2014. *Qualitative Data Analysis*: *A Methods Sourcebook* (3rd ed.). Los Angeles: SAGE Publications.
- Ozmel, U., Yavuz, D., Reuer, J. J., & Zenger, T. 2017. Network Prominence, Bargaining Power, and the Allocation of Value Capturing Rights in High-Tech Alliance Contracts. *Organization Science*, 28(5): 947–964.
- Parker, C., Rowan, G., & Pantlin, N. How Far Can You Act in Your Own Self-Interest? The Role of Good Faith in Commercial Contracts; http://hsfnotes.com/litigation/wp-content/uploads/sites/7/2016/01/Contract-disputes-practical-guides-4-Good-faith.pdf, 27 Oct 2016.

References 3/3

- Pisano, G. P. 1991. The Governance of Innovation: Vertical Integration and Collaborative Arrangements in the Biotechnology Industry. *Research Policy*, 20(3): 237–249.
- Reuer, J. J., & Ariño, A. M. 2007. Strategic Alliance Contracts: Dimensions and Determinants of Contractual Complexity. *Strategic Management Journal*, 28(3): 313–330.
- Reuer, J. J., & Devarakonda, S. V. 2016. Mechanisms of Hybrid Governance: Administrative Committees in Non-Equity Alliances. *Academy of Management Journal*, 59(2): 510–533.
- Richter, P. Negotiation in Good Faith—SIGA v. PharmAthene; https://corpgov.law.harvard.edu/2016/01/27/negotiation-in-good-faith-siga-v-pharmathene/, 27 Jan 2016, 08 Nov 2017.
- Sampson, R. C. 2007. R&D Alliances and Firm Performance: The Impact of Technological Diversity and Alliance Organization on Innovation. *Academy of Management Journal*, 50(2): 364–386.
- Shapiro, B., & Naughton, M. 2015. The Expression of Espoused Humanizing Values in Organizational Practice: A Conceptual Framework and Case Study. *Journal of Business Ethics*, 126(1): 65–81.
- Weber, L., & Mayer, K. J. 2014. Transaction Cost Economics and the Cognitive Perspective: Investigating the Sources and Governance of Interpretive Uncertainty. *Academy of Management Review*, 39(3): 344–363.
- Williamson, O. E. 1979. Transaction-Cost Economics: The Governance of Contractual Relations. *Journal of Law and Economics*, 22(2): 233–261.