Appendix A

Papers Collected in Literature Review


Appendix B

Detailed Description of Thematic Analysis Findings

In this appendix, we describe in greater detail the role of absorptive capacity in IS research. For the sake of clarity, we only include salient IT constructs in these models.

Figure B1. Business-IT Knowledge

*Business-IT knowledge* is a subset of a firm’s absorptive capacity. Knowledge transfer and business-IT communication enhance business-IT knowledge. Consequences of business-IT knowledge include customer service performance, IT competence, business-IT alignment, IT capability effectiveness, and rationality in IT planning.
For our knowledge transfer theme, several knowledge sharing processes influence absorptive capacity. In particular, knowledge transfer, information trading, knowledge brokering, and knowledge sharing impact absorptive capacity. At the interorganizational level, partner interface directed information systems and integrative interorganizational process mechanisms enhance absorptive capacity. Higher levels of absorptive capacity result in operational efficiency, knowledge conversion, and knowledge creation.

Our findings from IT assimilation research show that learning related scale, investments in new technology education, and IT infrastructure investments increase absorptive capacity. Related knowledge and diversity of knowledge (i.e., absorptive capacity as knowledge base) facilitate the assimilation of complex IT innovations.

Finally, our IT business value theme reveals several antecedents to absorptive capacity, such as knowledge infrastructure capabilities, knowledge process capabilities, IT leveraging competence, and IT infrastructure investments. Consequences of absorptive capacity include competitive advantage, organizational effectiveness, and firm performance.