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Effective Coordination and the Innovation-facilitating Role of Science Parks

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Background

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Science park: the “location of a group of new-technology industrial companies or research units set in park-like surroundings in close and interactive proximity to a research university and its associated staff, resources and general facilities” (Roberts, 1986; p.24)



Research question Copyright@Author

Science parks:

- Provide physical infrastructure (Löfsten and Lindelöf, 2003)
- A catalytic incubator for transferring innovation research to innovative products (Westhead, 1997)
- Poor performance in boosting regional innovation (Bezdek, 1975; Galbraith, 1985)
- Research question:
What affects the innovation-facilitating role of a science park?



Literature Review

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- **Value creation**

- Entrepreneurial innovation (Vanderstraeten, 2012)
- Operational supports (Motohashi, 2013)
- Financial support (Xie et al., 2018)
- Financial and business support (Ozyurt et al., 2016; Seoudi and Mahmoud, 2016; Xie et al., 2018)
- Business support (Motohashi, 2013)

- **Value capture**

- Government policy (Faria et al., 2019)
- Partnership (Mitra 2000)
- Market environment (Lin & Tzeng, 2009)
- Social economic conditions (Etzkowitz & Zhou, 2017)



Methodology

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- Sem-structured interviews
- Paradoxical analyses



Findings

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- **Paradoxical characteristics**

- Barrier for facilitating innovation
- Hinder for collective IP development
- Insufficient financial support
- Inconsistency of growth

- **Contextual factors**

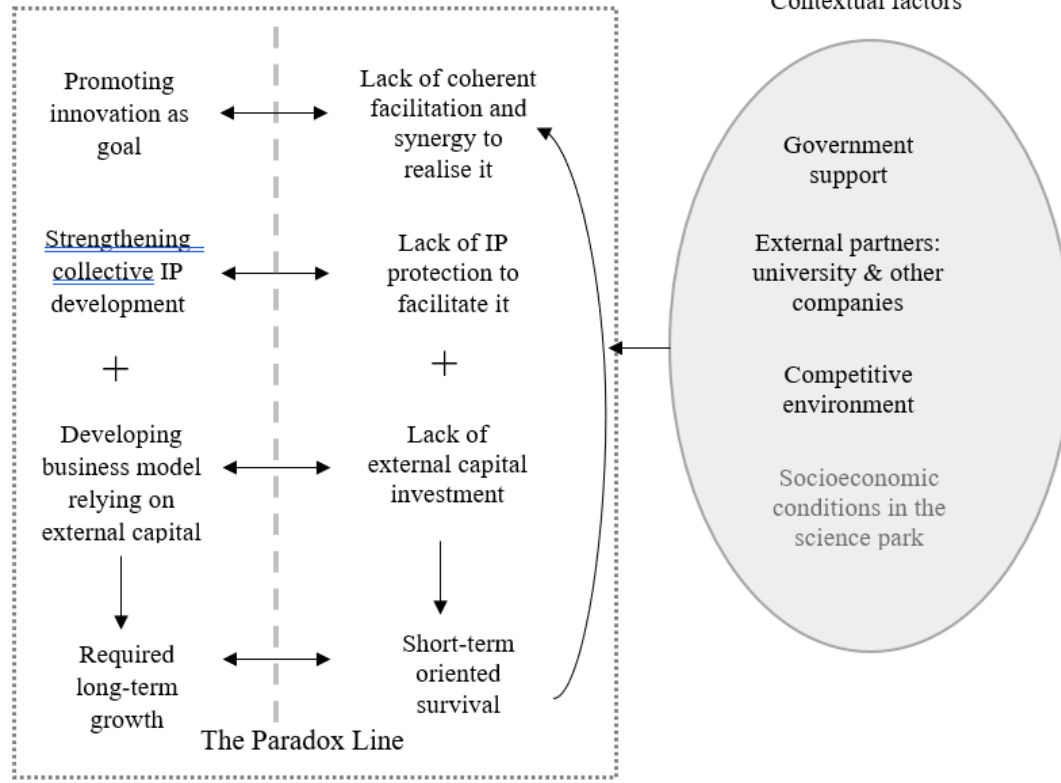
- Government support
- External partners
- Competitive environments
- Socio-economic conditions



Conceptual framework

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The paradoxical characteristics of technology-based firms in the science park



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Thank you!

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