The reverse tragedy of the commons: an exploratory account of incentives for under-exploitation in an open innovation environment

This paper presents an empirical account of a phenomenon that we refer to as the 'reverse tragedy of the commons' in open innovation. The name signifies the 'under-exploitation' of intellectual property (IP) under weak appropriability. The name is this graphic because the tragedy is costly, and can also render IP effectively worthless and block innovation in the short to medium term. We propose that the tragedy is borne out of the interaction between enterprise characteristics, a competitive setting and the framework that is set by the policy intervention. This finding is pertinent to policy-makers with regard to the design of research, development and innovation instruments, as well as managers who must determine how to implement open practices in innovation.

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Scopus rating (2012): SJR 0.765 SNIP 0.992 CiteScore 1.48
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Designer's identity: Development of personal attributes and design skills over education

Designers' professional identity (DPI) is a social- and self-perceptive construct through which designers are able to identify themselves. To understand the development of DPI, not just as a profession but also as an educational process, there is a need to consider the designer as both individual and trained professional. These interactions become also a necessary foundation for professionalism that is especially important for design activity. For this study, a psychometric survey was developed by taking in consideration both aspects of DPI, making use of a set of elements distilled from literature as conceptual parameters for Personal Attributes and Design Skills. The survey evaluated professional self-awareness of design students at bachelor and master level; also providing a first profile model of the two groups. The dynamics of the relations between the DPI elements changes and develops very slowly due to the process of identity consolidation over the educational period. Further, DPI consolidates through a lifelong learning process. These results provide an initial insight into the development of DPI and the challenges of measuring this subjective aspect over education.

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Linking forms of inbound open innovation to a driver-based typology of environmental innovation: Evidence from French manufacturing firms

Environmental innovation research has not yet clarified how different forms of inbound innovation might exert effects. The current article proposes four driver-based EI types according to two main dimensions: compliance versus voluntary and own value capture versus customer value capture. With a problem-solving perspective, we develop links from different forms of inbound innovation to various types of EI and test the related hypotheses with two waves of the French Community Innovation Survey. On a short-term basis, R&D cooperation and technology acquisition correlate positively with all four types of EI, but over time, persistent R&D cooperation and technology acquisition are associated with EI only at the production stage, according to voluntary/strategic or compliance drivers. Inbound innovation enables quick responses to market demands for EI in the final use stage.

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Organisations: Department of Management Engineering, Technology and Innovation Management, University Savoie Mont Blanc, Luxembourg Institute of Socio-Economic Research (LISER)
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Scopus rating (2010): SJR 1.018 SNIP 1.47
BFI (2009): BFI-level 2
Scopus rating (2009): SJR 0.838 SNIP 1.589
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Scopus rating (2005): SJR 0.527 SNIP 1.614
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Team cohesion in intensive care nursing: at the interface of nurse self-concept and unit structure

Team cohesion is a critical factor in the provision of high-quality care, yet its antecedents remain understudied, particularly in the context of some healthcare professional groups where structural and individual constraints coexist, and demand for high quality performance is prevailing. In this study, we focus on the nursing group in intensive care units (ICU). Not researched, yet important for employee attitudes towards their workplaces and workgroups, is the interface between the characteristics of individual care providers and those of the teams and organizations in which they are employed. This study examines the effects of three levels of self-concept—individual, relational, and collective—and ICU structural characteristics such as size (number of nurses), nurse training profile, and number of beds. These factors are investigated as they jointly shape the degree to which nurses perceive their teams as cohesive. A multi-source and multi-level study of approximately 140 nurses employed in 20 ICUs across Denmark demonstrates the critical role of self-concept in easing and enhancing the constraints workplaces impose on team cohesion. Furthermore, the study confirms the positive relationship between overall team member-rated cohesion and manager-rated quality of care. Hence, understanding the interplay among self-concept, ICU structural characteristics, and team cohesion is highly relevant to enhancing quality of care.
Designer's Identity: Personal Attributes and Design Skills
A designer’s professional identity (DPI) develops through both education and professional experience, building on core personality traits and innate skills. In this paper a systematic literature review and a secondary narrative review were developed in order to map personal attributes and design skills that comprise the DPI. Just a few works in literature dealt with these two elements holistically. Thus, in order to address this gap a holistic understanding of these elements, in context, is proposed as a cohesive framework where a DPI can be described as it evolves over time.

Dual boundary spanning: Toward a typology of outside-in open innovation in the Canadian context
The extant literature runs short in understanding openness of innovation regarding and the different pathways along which internal and external knowledge resources can be combined. This study proposes a unique typology for outside-in innovations based on two distinct ways of boundary spanning: whether an innovation idea is created internally or externally and whether an innovation process relies on external knowledge resources. This yields four possible types of innovation, which represent the nuanced variation of outside-in innovations. Using historical data from Canada for 1945–1980, this study unveils different implications of these innovation types for different levels of innovation novelty.
How do dynamic capabilities transform external technologies into firms’ renewed technological resources? – A mediation model

How externally acquired resources may become valuable, rare, hard-to-imitate, and non-substitute resource bundles through the development of dynamic capabilities? This study proposes and tests a mediation model of how firms’ internal technological diversification and R&D, as two distinctive microfoundations of dynamic technological capabilities, mediate the relationship between external technology breadth and firms’ technological innovation performance, based on the resource-based view and dynamic capability view. Using a sample of listed Chinese licensee firms, we find that firms must broadly explore external technologies to ignite the dynamism in internal technological diversity and in-house R&D, which play their crucial roles differently to transform and reconfigure firms’ technological resources.

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Improving Creativity Training: A Study of Designer Skills

Creativity is widely accepted to be a crucial element in design, and design has traditionally been a popular domain for creativity studies. Moreover, creativity has repeatedly been shown to be an important element for design and innovation e.g. [Christiaans 1992], [Amabile et al. 1996], [Dorst and Cross 2001]. Establishing that creativity is important for design and innovation implies that identifying ways of improving creativity is a relevant research area within design studies. Creativity is a basic human skill and multiple studies have been published showing that creativity is a skill that can be trained (see e.g. [Scott et al. 2004] for a review of these). Despite establishing that creativity training works, it is though not yet clear how individual creativity skills can influence the creative process, although many studies have been published on different types of creativity training formats e.g. [Scott et al. 2004], [Robbins and Kegley 2010]. The aim of this study was therefore to investigate how individual creativity skills influence the creative process of design teams working within the fuzzy front end (as defined in [Koenet al. 2002]) of innovation; an important first step in identifying which individual creativity skills should be trained in designers. An exploratory study was designed, using participatory observation of two design teams in a six-month case study in two major organizations, with individual skills being the unit of analysis. The focus of the study was to observe the process the teams operated within and its progress when individuals applied their creativity skills to advance its progress, while the intent was not to assess the creative product or output as such. Design is a collaborative effort and creativity has to be understood both on an individual and on a team level. In creativity research, the ‘standard definition of creativity’ [Runco and Jaeger 2012] defines creativity as the production of something new and appropriate for a specific context, thus bringing value to its prospective users [Stein 1953]. Onarheim and Friis-Olaiun [2013] suggest that ‘new’ is related to divergent thinking, the process of coming up with multiple solutions, while ‘appropriate’ coincides with satisfying user requirements.
with convergent thinking, the process of taking those multiple ideas and converging them into an appropriate solution. Divergent thinking is here considered somewhat a ‘solo sport’, as producing ideas is often considered as a cognitive individual task [Onarheim 2011], whereas convergent thinking could be thought of as a ‘team sport’ – teams are good at selecting ideas and are likely to successfully complete the task [Singh and Fleming 2010]. Thus, creativity training for designers should not only be directed at the individual level by enhancing individual creativity skills, but also improvement at the team level, rendering it important to first improve the understanding of both these levels of creativity in the design process. There are multiple ways to train creativity, although currently most creativity training is directed at enhancing individual creativity skills, usually measured through the ability to generate ideas, i.e. divergent thinking [Guilford 1959]. However, as individually focused as creativity training might seem, DESIGN INNOVATION 1175 Scott et al. [2004] concluded that the most optimal way of training creativity is through a combination of (1) educating individuals about creativity, thereby building a solid theoretical understanding, and (2) providing them with a real world case where they are trained in the use of creative tools and processes [Scott et al. 2004]. The latter point has great implications for creativity training for designers, as in the real world designers rarely work in a void but in teams and thus the team interactions should be taken into account in creativity training for designers. Here we understand the team as an entity, independent from, yet influenced by the organization, however largely dependent on individuals; the individuals that make up the team (following [Woodman et al. 1993]). With that in mind the current study was designed to investigate individuals and how they operate in teams, thus focusing both on the individual level as well as the team level and their respective importance and contribution to the creative process of design teams. In the following chapters a theoretical overview is first provided about the individual- and team level in regards to creativity literature. Next, a description of the case study and the methods deployed in the context of the case study is given. Chapter four contains the findings of the study and chapter five provides a discussion and subsequent conclusions drawn from the

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Knowledge sharing behavior and intensive care nurse innovation: the moderating role of control of care quality

Aims
This study investigates the influence of intensive care unit nurses’ knowledge sharing behaviour on nurse innovation, given different conditions of care quality control.

Background
Health-care organisations face an increasing pressure to innovate while controlling care quality. We have little insight on how the control of care quality interacts with the knowledge sharing behaviour of intensive care nurses to affect their innovative behaviours.

Methods
We developed a multi-source survey study of more than 200 intensive care nurses at 22 intensive care units of 17 Danish hospitals. Two versions of the questionnaire were used – one designed for nurse employees and the other for the managing nurse(s). An ordinary least squares regression analysis was used to test the hypotheses.

Results
Different aspects of knowledge sharing affect innovation differently, depending on the strength of the control of care quality within the unit.

Conclusions
The increasing pressures to implement the control of care quality and innovate may be conflicting, unless handled properly.
Implications for nursing management

Process control at intensive care units should be loosened, when personal interaction between intensive care nurses is encouraged to stimulate nurse innovations. Alternatively, managers may develop a climate where helping others, especially with younger colleagues, offsets the negative effects of strong process control.
Knowledge Sharing, Control of Care Quality, and Innovation in Intensive Care Nursing

This study investigates the influence of nurse knowledge sharing behavior on nurse innovation, given different conditions of control of care quality within the intensive care unit (ICU). After conducting a number of interviews and a pilot study, we...
carried out a multi-source survey study of more than 200 nurses employed in 22 ICUs at 17 Danish hospitals. Overall, we
find that knowledge sharing among individual ICU nurses has a positive impact on their innovation. Meanwhile, strong
control of care quality makes this positive impact less effective. However, different aspects of knowledge sharing affect
innovation differently, depending on the strength as well as type of control of care quality within the unit. Healthcare
organizations face an increasing pressure to innovate while controlling and accounting for care quality. This study
demonstrates that the increasing pressures to implement control of care quality and innovate may be conflicting, unless
handled properly.

**General information**

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**Reactive or proactive approach towards sustainability? A conceptual framework based on sustainable business models to
increase stakeholders’ sustainable value capture**

Indications towards the need for development and implementation of solutions for more sustainable development are not
recent. However, the world is still struggling to tackle these challenges, and sustainability is not an optional agenda, but
rather it is an obligatory and necessary issue for the various actors in society. This is also valid for organizations, which
are expected to assume a more proactive and entrepreneurial posture towards tackling sustainable development
challenges. In this sense, sustainable business model approach can support organizations to be more sustainable,
serving as instrument to help companies describe, analyze, manage and communicate their sustainable value proposition,
creation, delivery and capture mechanism. In particular, this research focuses on value capture dynamics, aiming to
explore how companies can increase their contribution to sustainable development by fostering sustainable value capture
of their stakeholders. Thus, we bring a literature review to discuss the mechanism of two approaches: the reactive and
proactive approach. The first logic is about satisfying stakeholders’ needs and wants, reacting to their demands. A more
reactive approach to stakeholders’ expectations is supported by motivations derived from marketing, corporate social
responsibility, international standards, sustainability reporting, labelling, etc. However, these demands are not always
aligned with sustainability, creating tensions between stakeholder satisfaction and corporate sustainability. In this sense, a
proactive approach to foster sustainable value capture can complement the reactive approach by delivering value beyond
stakeholders’ expectations. In this case, companies use their capabilities to identify opportunities to create and deliver
sustainable value that stakeholders were not expecting or demanding, but that are positive in terms of sustainability. The
proactive approach on managing stakeholders finds its justification on questioning companies about their institutional role
in society, demanding sustainability innovation in companies’ business models and challenging companies to seek for
business opportunities with an entrepreneurial attitude to help solving sustainable development challenges. By combining
both approaches, organizations have the opportunity to increase sustainable value capture by its stakeholders, acting on
their institutional responsibility as actors in the societal system. Thus, future researches are invited to contribute to further
theoretical and empirical discussions to explore the potentials of fostering sustainable value capture.

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The EU in 2040: Envisioning an Inclusive Powerhouse for Innovation and Economic Growth

The EU and its leadership is often criticized as lacking a coherent long-term vision on Europe’s future. Thus far, EU policy in the area of innovation and economic growth has been primarily framed as an effort to close the so-called innovation gap with USA, South-Korea, and other countries. In this discussion paper, a group of EuroTech Universities professors in the area of Innovation and Entrepreneurship address and highlight several key challenges in the transformation towards an inclusive and sustainable European economy. In the absence of a long-term systemic perspective on Europe’s challenges in the area of innovation and economic growth, we propose such a perspective here.

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The hidden moderator – Exploring the roles of tuo’er in intra-firm R&D online communities

“Tuo’er” in a market place are those who are hired by a seller and attempt to push the sales by exaggerating the advantages of a product in a direct and persistent approach. More recently, it is to our observation that some large firms start deploying tuo’er on their intranet to facilitate knowledge sharing and innovation within intra-firm online R&D communities. Just like those in a market place, tuo’er in online knowledge sharing communities also have a mandate to mislead other regular community members by creating a bandwagon effect. However, their intention to facilitate online knowledge sharing and innovation within a firm might serve a good purpose and their practice stands in a gray area of management ethics. This study explores the special roles of tuo’er as a hidden moderator between a company and its employees, investigates under which conditions they work, and the implications for the effective use of online knowledge sharing communities by firms. An in-depth case study with multiple data sources is conducted in China in a longitudinal fashion.

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University’s Commercialization Landscape: linking industry, license agreement and licensee

The purpose of this paper is to shed a new light and provide new empirical evidence in research commercialization literature by reviewing contracts of technology commercialization agreements and by mapping the landscape of commercial technology transfer in Denmark. We explore the tendencies and patterns as well as the geographical horizon of licensed technologies. Our analysis of technology licensing landscape has showed stable increase in university’s commercialization activities in the period from 2000-2015. To take a step further, we extend the classical research of patenting activity to the commercialization activity. We find that most of university’s patents are sold and not licensed; most of the licensees are incumbent firms, however, the amount of commercialization contracts signed with academic spin-outs are not lagging far behind in the total numbers. Geographically, there is a clear pattern that most of the technologies are sold to Danish companies within Denmark indicating that university’s main contribution is primarily for
regional and national markets, especially around the capital area. Based on that, we make conclusions and suggestions for university managers and policy makers.

**Find Them Home or Abroad? The Relative Contribution of International Technology In-licensing to “Indigenous Innovation” in China**

Innovation policy in China has been promoting “indigenous innovation” by urging Chinese firms to strengthen their internal research and development (R&D) expenditures and to actively acquire external technologies only if they are advanced and necessary. This policy aims to gradually achieve technology excellence and reduce China’s reliance on foreign key technologies. But, it is still unclear how international technology in-licensing by Chinese firms, compared with domestic technology in-licensing, has contributed to the indigenous innovation of Chinese firms during the last decade, and whether indigenous innovation policy will continue to make sense in the next decade. This study uses a unique dataset containing information on 178 Chinese firms that were active in technology in-licensing during 2000-2004 - and their patenting activities up to 2009 - to investigate this question. Our findings suggest that, given the importance of R&D, Chinese firms that in-licensed international technologies have performed better with regard to indigenous innovation than those that mainly inlicensed domestic technologies, even though the national innovation policy suggests otherwise. The strategic implications based on the findings for Chinese firms, foreign firms, and policy makers are discussed in detail. © 2014 Elsevier Ltd. All rights reserved.
How does external technology search become balanced? A three-dimensional approach

Firms need to search for external knowledge in a balanced way as over-search entails too much risks and uncertainty and local-search does not promise novel opportunities, as the literature has suggested. We conceptually position firms’ search behavior within a three-dimensional knowledge search space, including cognitive, temporal, and geographic dimensions. We suggest that the balance is no longer a matter of finding optimal search distance along a single dimension. Instead, it becomes an art to maintain balance in a dynamic manner across three dimensions. Using empirical evidence from Chinese licensee firms, we show that such a three-dimension balance does exist among firms’ practice. The findings in this respect provide promising opportunities for future research, which will significantly contribute to our understanding of how firms search for external knowledge and the implications thereof.
Knowledge sharing and affective commitment: the mediating role of psychological ownership

Purpose – The purpose of this paper is to investigate the mediating role of psychological ownership which includes both organisation-based psychological ownership (OPO) and knowledge-based psychological ownership (KPO) on the relationship between affective commitment and knowledge sharing.

Design/methodology/approach – This paper is an empirical study based on structural equation modelling, with a sample of 293 employees from 31 high-technology firms in China.

Findings – The result indicated that affective commitment had a significant positive effect on OPO but no effect on KPO; OPO was positively related to both common and key knowledge sharing, while KPO exerted a negative impact on both; common knowledge sharing was positively related to key knowledge sharing; the relationship between affective commitment and key knowledge sharing was multi-mediated by OPO and common knowledge sharing.

Originality/value – OPO and KPO play an essential role in transferring the effect of employees’ affective commitment to common knowledge sharing and key knowledge sharing, which unravels the blackbox of how effective commitment affects knowledge sharing.

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Organisations: Department of Management Engineering, Technology and Innovation Management, Hunan University
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Scopus rating (2005): SJR 0.23 SNIP 0.381
Scopus rating (2004): SJR 0.253 SNIP 0.706
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Scopus rating (2002): SJR 0.261 SNIP 0.652
Scopus rating (2001): SJR 0.268 SNIP 0.565
Licensing Foreign Technology and the Moderating Role of Local R&D Collaboration: Extending the Relational View

The relational resource-based view posits that performance differences among firms can be explained not only by the possession of internal resources but also by maintaining and developing relationships with external partners. However, studies in the extant literature usually address the separated roles of various external relationships of focal firms, but the literature has not addressed how relationships with different sets of knowledge partners are related to each other and influence focal firms’ performance. Therefore, to fill this research gap, this study focuses on how technological resources acquired from one set of partners (licensing foreign technologies) may generate subsequent internal and relational rents in terms of technological innovation in the context of collaboration with an entirely different set of knowledge partners (local R&D partners). Specifically, we propose that local R&D collaborations need to be large in scale and broad in scope. The empirics are based on the analysis of a sample of 160 high-tech Chinese firms observed from 2000 to 2011. Consistent with our predictions, our findings contribute to extending the relational view by addressing the relations among the relationships of focal firms.
Self-identity and regulatory focus in governance of online communities

A fast growing stream of literature has shown tremendous interests in the ‘wisdom of crowds’, which is embedded in various forms of online communities (OCs). However, studies on the governance of OCs are rather scattered. Our knowledge on how key governance mechanisms are interrelated is very much limited to date. Thus, the purposes of this paper are to: (1) highlight the unique exchange relationships within OCs based on theories of transaction cost economics, social exchange, and transactive memory system; (2) identify in OCs and link key governance mechanisms with two key constructs in the social psychology domain, i.e., self-identity and regulatory focus.

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Strategizing for sustainability in a changing world: a dynamic capability approach

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Technology licensing in China

We explore the landscape of technology licensing among Chinese entities in the period 2000–12, using a unique database on technological licensing from the State Intellectual Property Office of China. We find that: first, among Chinese licensee organizations, firms have dominated in terms of the number of licensed technologies; second, the geographical distribution of licensed technologies among the provinces has gradually reached a new quantitative balance; third, utility models are the most popular technologies to be licensed and the majority of technology licensing in China has been between Chinese entities, and most transactions have been local within provinces; and finally, Chinese firms have gradually in-licensed newer and newer technologies, but the technologies in-licensed from foreign sources are by no means state-of-the-art. We make several suggestions for innovation policy-making and for directions for future research.

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An inquiry on dimensions of external technology search and their influence on technological innovations: evidence from Chinese firms

A central part of technological innovation for industrial firms involves search for new external knowledge. A well-established stream of literature on firms’ external knowledge search has demonstrated that firms investing in broader search may have a great ability to innovate. In this paper, we explore the influences of technology search on firms’ technological innovation performance along three distinctive dimensions: technical, geographic, and temporal dimensions, using a unique panel data set containing information on Chinese firms that were active in technology in-licensing and patenting during the period 2000–2009. Our findings reveal that Chinese firms’ technological innovation performances are related to external technology search in quite different ways from the ones suggested in the extant literature using evidence from developed countries. We find that Chinese firms searching ‘locally’ along the technical dimension have better technological innovation performance than those searching ‘distantly’. However, when a Chinese firm in-license relatively old (mature) technologies or those from geographically nearby areas, it will be less bounded to searching familiar technical knowledge.

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'Closed Open Innovation' or 'Openly Closed Innovation' – Which way is for world-first innovations?

‘Open innovation’ strategy suggests the purposive use of knowledge inflows and outflows to accelerate internal innovation, and expand the markets for external use of innovation. The literature on ‘open innovation’ tends to agree that there are two dimensions of R&D projects can be used to evaluate their openness: (1) how much it relies on external knowledge resources; and (2) if it is internally or externally developed. To date, the literature on ‘open innovation’ has neither deliberated theoretically on nor tested empirically the effects of these two dimensions simultaneously in relation to innovation outcome measures. Therefore, the aim of this paper is to fill in this research gap in both theory and empirics. My typology is theoretically based on the Schumpeterian innovation types (Mark I and Mark II) on the one hand and the rich literature on firms’ external knowledge searching on the other hand. The Closed Open Innovation refers to those innovations that are internally developed but draw heavily on external scientific/technical knowledge. The Openly Closed Innovation refers to those innovations that are externally developed but meanwhile draw mainly on internal scientific/technical knowledge. The dataset used in this study is the Canadian Technological Innovation Dataset, which was obtained from a population survey for 1635 major industrial innovations in Canada during the period from 1945 to 1980. Based on a binary logistic regression model, the results show that totally closed innovation modes were positively associated with the likelihood of an innovation being world-first; meanwhile, the findings reveal an overall trend that innovation modes for world-first innovation had become less and less closed and a mix of open modes had become equally effective as the closed ones.

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How do the BRIC countries play their roles in the global innovation arena? A study based on USPTO patents during 1990–2009

This paper proposes a new taxonomy for the internationalization patterns of innovation of the BRIC countries within the global innovation landscape during the period 1990–2009. Based on the BRICs’ patents granted by the USPTO, we find (1) the BRICs gradually increased their roles in the global innovation arena with various degrees of internationalization; (2) the domestic-dominant pattern has widely countered the foreign dominance of innovation, while the collaborative multi-dominant pattern has increased; (3) a divergence of the BRICs’ global innovation output growth emerged, while their internationalization pattern portfolios evolved towards greater similarity; and (4) China has differentiated itself by increasing its global innovation influence.
Pharmaceutical New Product Development: Why do clinical trials fail?

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When does inward technology licensing facilitate firms' NPD performance? A contingency perspective

Many firms find inward technology licensing (ITL), as a means to access external technological knowledge, an effective and relatively inexpensive way for new product development (NPD). However, although the literature has suggested some advantages and disadvantages of ITL with respect to NPD, the relationship between ITL and licensee firms' subsequent NPD performance has not yet been found convincingly evident. Sharing with many other likeminded scholars and practitioners, we believe that the dynamics between external knowledge, internal capability, external environment, and firm performance should be investigated through a contingency perspective. Thus, this study posits that a firm's propensity to develop new products through ITL is contingent upon two categories of contingency factors that are internal and external to firms. Using a dataset containing information about Chinese firms' licensing activities, we find support for our hypotheses: the positive relationship between ITL and NPD performance of a licensee firm is moderated by firms' absolute and relative absorptive capacity and the knowledge endowment in the region where the licensee firm operates.

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Chinese multinationals in Denmark: Testing the eclectic framework and internalization theory

Purpose – The purpose of this paper is to explain in detail the strategic asset-seeking OFDIs of Chinese firms in Denmark through a theoretical lens that combines the updated OLI (Ownership, Location, Internalization) paradigm and the internalization theory. Meanwhile, the authors hope to unveil the unique characteristics of firm specific advantages (FSAs, including O and I advantages) and country specific advantages (CSAs, including L advantages).

Design/methodology/approach – The authors chose two case firms that just started investing and a third one that was in the process of preparing investment in Denmark. Primary data were collected by semi-structured interviews in English at various locations in late 2009 and early 2010. The three Chinese firms in this study share a common primary objective in their strategic orientation of OFDIs. That is to seek strategic assets that are complementary and critical to augment their existing FSAs.

Findings – Rugman stated that strategic asset-seeking OFDIs are supposed to have high levels of FSAs and CSAs. This study presents a more detailed analysis regarding the O, L and I advantages that Chinese investing firms in Denmark are perceived to possess. It was found that these Chinese investing firms had high levels of Oa and Oi but Ot was largely absent; furthermore, although Lr was obviously appreciated in Denmark, Li presented a mixed picture. The paper also found that internalization advantages were only able to be realized when investing firms were good at utilizing networking and guanxi, which were largely derived from their prior Oi advantages.

Originality/value – Few have analyzed strategic asset-seeking OFDIs made by emerging markets based on the FSA/CSA matrix that combines the OLI paradigm and the internalization theory. This study pursued this research endeavor by enriching a refined framework that connects the OLI paradigm and the internalization theory. This study pursued this research endeavor by enriching a refined framework that connects the OLI paradigm and the internalization theory. This study pursued this research endeavor by enriching a refined framework that connects the OLI paradigm and the internalization theory. This study pursued this research endeavor by enriching a refined framework that connects the OLI paradigm and the internalization theory. This study pursued this research endeavor by enriching a refined framework that connects the OLI paradigm and the internalization theory. This study pursued this research endeavor by enriching a refined framework that connects the OLI paradigm and the internalization theory. This study pursued this research endeavor by enriching a refined framework that connect
Design of governance in virtual communities: definition, mechanisms, and variation patterns
A fast-growing stream of literature has shown tremendous interests in the 'wisdom of crowds', embedded in various forms of Virtual Communities (VCs). However, it difficult to design an appropriate governance structure for VCs because: (1) it is not clear what governance exactly is in VCs; (2) our knowledge on how key governance mechanisms differ among various types of VCs is limited to date; (3) the variation patterns of governance mechanisms are far from fully explored to guide the design of governance in VCs. Therefore, this paper seeks to propose a working definition for governance in VCs, illustrate how governance mechanisms differ in various types of VCs, and explore testable variation patterns of governance mechanisms. We categorise various types of VCs, building on two unique dimensions: how and with whom VC participants exchange information. Several design principles are proposed to underpin the theoretical and practical implications of our research endeavour.
Have Chinese firms learned from their prior technology in-licensing? An analysis based on patent citations

With the rapid rise of Chinese economy, now ranking as the second largest economy in the world in 2010, many Chinese firms have started taking technological lead in the global market. Nevertheless, whether Chinese firms have learned from their prior inlicensing technologies and accumulated technological capabilities in sustaining their economic growth remains underexplored. This paper aims to fill this void. Using a unique dataset containing the information on licensing for 83 large Chinese firms in the electronic sector during 2000–2004, we find that these firms have successfully learned from the international technologies that they previously licensed-in when subsequent patent citations made by these Chinese licensee firms to their licensed patents are used to identify these successful learners.
The dual role of external technology sourcing in technological exploration

We refine the concept of boundary-spanning exploration, by making a distinction between explorative learning from partners and from non-partners (Partners are organizations with whom a focal firm has some kind of external venturing relations, i.e. technological alliances, corporate venturing capital, or M&As). These partners play a dual role: in explorative learning from partners, a firm teams up with external venturing partners to co-develop or transfer technology. Partners’ technology base (what they know) is driving explorative learning from partners. In contrast, in explorative learning from non-partners, partners may play a role because of whom they know. That is, they inform the firm about technological opportunities beyond its corporate venturing network. The empirical analysis supports the dual role of venturing partners in facilitating the two types of explorative learning.

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The impact of licensed-knowledge attributes on the innovation performance of licensee firms: evidence from the Chinese electronic industry

In this article, we provide a compelling case for demonstrating “learning-by-licensing,” and we further investigate the moderating effect of specific licensed-knowledge attributes on the innovation performance of licensee firms. This case is based on a unique dataset from the China State of Intellectual Property Office regarding technology-licensing activities and spanning the years 2000–2010. Using this dataset we make a longitudinal analysis of the lagging learning effect that transferee firms experience when they in-license technology. The empirical results from 71 Chinese electronic-industry firms reconfirm the concept of “learning-by-licensing.” Moreover, the results also indicate that both technology complexity
and technology generality, which are attributes of licensed knowledge, have positive moderating effects on the relationship between technology in-licensing and the subsequent innovation performance of licensee firms. However, such a positive moderating effect was not found for the newness of technology.

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The impact of partnership network stability on new product development cost in the pharmaceutical industry

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What makes Chinese firms to choose international external technology sources? An inquiry on internationalization, innovation and institutions

External technology sourcing from developed countries has been one of the most important vehicles by which emerging market firms (EMFs) sustain competitiveness. Foreign advanced technologies offer EMFs opportunities to gain access to state-of-the-art technologies and upgrade their competitiveness. However, we have also witnessed an emerging trend of external acquisition of technology by EMFs firms in both international and domestic markets. Why some EMFs are active in sourcing both domestic and international technologies instead of being significantly in favour of foreign technologies from developed countries? We argue that exploring the determinants of EMFs’ choice with regard to EMFs’ strategic choice of souring domestic or foreign technology becomes the key to understanding why EMFs are increasingly gaining prominence in the global competitive landscape. Thus, this paper tends to advance our understanding of EMF competitiveness by adding a crucial link of EMFs strategic choice regarding the origin of technology sourcing from different origins and exploring the determinants for such a choice through the lens of internationalization, innovation and institutions (3 I’s) within a coherent framework. Based on a unique sample of 389 Chinese firms on their inward technology licensing activities through an observation period from 2000 to 2005, it is found that (1) firms’ international market orientation; (2) firm’s technological capability; (3) regional innovation capability; and (4) institutional change (China’s concession to WTO) are positively associated with these firms’ preferences for in-licensing foreign technology.

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When does inward technology licensing facilitate firms’ NPD performance? Evidence from China

Increasingly, many firms have found inward technology licensing a relatively quick and inexpensive way for new product development (NPD) as compared to internal R&D started. Although the literature on NPD has suggested some
advantages and disadvantages regarding NPD by means of inward technology licensing, the relationship between inward technology licensing and licensee firms' subsequent NPD performance has not yet found convincing evidence. Since our understanding, shared with many other likeminded scholars and practitioners, about the dynamics between resource, institutions and firm performance has reached a stage that is way beyond simple linear relationships, the appropriate question to ask is perhaps not whether inward technology licensing has a positive effect on firms' NPD performance; instead, it is more sense-making to ask under what conditions inward technology licensing better facilitates firms' NPD. Drawing on a contingency perspective, the study posits that a firm's propensity to develop new products through inward technology licensing is dependent on three categories of contingency factors: the characteristics of the licensed technology, the absorptive capacity of the licensee firms, and factors regarding licensees' external environment. Using a unique longitudinal dataset containing information about 141 Chinese firms' licensing activities, we find support for our hypotheses that there is a positive relationship between inward technology and NPD performance. This positive relationship is moderated by technology origin (foreign versus domestic), firms' absorptive capacity, and the appropriability regime and knowledge endowment of the region where the licensee firms operate.

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External Knowledge Acquisition Needs a Hand? The Dual Effects of Industry-University Collaborations on High-Tech Firms' Innovation Capability In China
Purpose Firms have been increasingly investing in external knowledge acquisition to enhance their competitiveness and innovative performance. Among different external partners, universities have become one of the most important ones (Cohen et al., 2002). Collaborating with universities is especially imperative for firms innovating in the technology frontier (Baba et al., 2009). However, the rapid development of industry-university collaboration in some developing countries (e.g., China) has demonstrated some unique characteristics that are different to those presented in developed countries. These unique characteristics urge scholars to re-exam the role of industry-university collaboration for firms' innovation in developing countries. We propose that industry-university collaboration in developing countries has dual roles with regard to firms' innovation capability: 1) to serve as a direct source of knowledge input, i.e. some indigenous technological inventions, and, 2) to facilitate firms' technological learning with respect to absorbing, adapting and diffusing acquired foreign technologies to local market. The purpose of this paper is to test the effect of these two roles on firms' innovation.
Research question How can Chinese industrial firms' collaboration with universities directly contribute knowledge inputs and at the same time effectively facilitate innovation through external technology acquisition?
Methodology Our study uses patent counts to measure innovation capability. In line with prior research, we use negative binominal regression model together with a Hausman specification test to determine whether a random- or fixed-effects model should be employed.
Data We employ a unique dataset on technology in-license from the Chinese Intellectual Property Office (SIPO) in this study. According to the 'Administration of Record Filing of Technology Licensing', the SIPO is authorized to fill the records of technology licensing in China. A record contains more valuable information: names of licensor, licensee, and licensed patents, contracting number, date, and license type. So far, the available licensing data to public starts from 2000 to 2009. We limit our sample to those firms who engaged in foreign technology licensing-in activities during 2000 to 2003, which resulted in a sample of 91 Chinese licensee firms in high-tech sector. This period is chosen in order to obtain an appropriate duration that allows learning to take effect. In other words, a 5-year moving window is used to observe the effect of licensing and industry-university collaboration on firms' innovation capability.
25The results show that industry-university collaboration not only has a direct positive effect on but also positively moderate the effect of inward foreign technology licensing on firms' technology capability.
Foreign vs. domestic: What determines the origin of Chinese firms’ inward technology licensing?

The increasing prominence of cross-border technology sourcing urges us to ask a question: what factors and conditions may influence firms’ decisions of sourcing technology domestically or internationally? Research on this topic is scattered in the literature but a comprehensive understanding of these factors and conditions on this issue is still lacking. The aim of this paper thus is to establish a comprehensive framework that integrates factors affecting a firm’s propensity to make technology sourcing decisions regarding foreign or domestic origins of technologies. We identify four distinct categories of factors that are relevant in this respect: (1) technology supplier’s characteristics; (2) technology seeker’s characteristics; (3) features of technology itself; and (4) external contextual factors. We test our hypotheses based on Chinese firms’ inward technology licensing. We found well-established incumbent firms that are export-, and high-tech-oriented with strong absorptive capacity are more likely to in-license foreign technology rather than domestic ones if the in-sourced technology is mature, the technology suppliers have strong desorative capacity, and the external knowledge environment is innovative.
Towards a framework of success factors for clinical trials

Clinical trials in the pharmaceutical industry are the most critical part of the drug development process with respect to obtaining the market approval from the authorities. Clinical trials are highly expensive, time-consuming and often unsuccessful. While new product development (NPD) literature has extensively investigated success factors in R&D projects, it has not directly addressed success factors in clinical trials, as the late testing stage of a NPD yet. The aim of this paper is to enhance our understanding of the clinical trial management by creating a new conceptual framework of success factors. This paper creates the new framework by combining success factors from NPD literature and from empirical evidence collected through 11 semi-structured interviews with experts in clinical trials. The framework of success factors provides managerial guidelines for practitioners to optimize clinical trials reducing failures and increasing profits. The framework directs managerial focus on the most important factors for success and helps managers in decision-making of operational tasks. The framework can also be applied as a checklist for assessing the status of a clinical trial and later as a benchmarking tool to compare clinical trial processes. Dependencies among the identified factors seem to exist, thus a set of propositions, can be developed from the success factors and be the basis for future empirical testing.

What do we need from intermediaries for technology transfer to China?: A European firm perspective

Cross-national technology transfer has been one of the most important vehicles by which firms in developed countries exploit the value of their technological innovations, and firms in developing countries gain access to technological and organizational knowledge from developed economies. To facilitate technology transfer between technology providers and recipients and to compensate for the weakness in the system of innovation, the role of technology intermediaries as bridging organizations has been widely recognized and discussed. This study deepens our understanding of the role of intermediaries by, first, reconciling the role and functions of technology intermediaries in the literature to a competence level based on a resource-based view in a specific context of technology transfer between Europe and China; and second, investigating whether certain competences of intermediaries are of more importance than others for European technology holders in relation to three different types of intermediaries – governmental agencies, private commercial agencies and web-based marketplaces.
Governance of Virtual Communities: A Literature Review and a Conceptual Framework

Researchers have shown growing interests in the governance of virtual communities, especially in the open source software communities. Many issues concerning the governance of virtual communities have been discussed in the literature, e.g., motivations to participate and contribute, openess of participation architecture, control, open source license, ownership and appropriation of intellectual property, communication patterns, goal setting, decision-making, role of trust, etc. However, research areas in the extant literature on the governance of virtual communities are rather scattered. There has yet no systematic approach towards a clear definition of governance in virtual communities and our knowledge on what key governance mechanisms are and how they differ in various types of virtual communities is very much limited to date. A lack of holistic framework on this issue prevents scholars from fully understanding the functions of
governance in virtual communities, which in turn also rends difficulties to probe the performance of virtual communities. For these reasons, the purposes of this paper is to: (1) propose a working definition of the governance in virtual communities based on the extant literature; (2) identify key governance mechanisms in virtual communities; and (3) finally develop a typology for virtual communities in which distinctive governance features prevail in each type of virtual communities.

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International vs. domestic technology in-licensing: How do Chinese firms build their technological capabilities?
This paper investigates the different impacts of international and domestic technology in-licensing for Chinese firms as licensees on their technological capability building. The evolution of firms in developing countries and development of their technological capabilities has received increasing attention in the extant literature on both innovation management and international business. However, little has been done to reach a clear understanding on whether Chinese firms can benefit from international or domestic technology in-licensing and improve their own technological capabilities. This study, therefore, pursues this endeavor by using a unique dataset from China State of Intellectual Property Office (SIPO) containing information on large Chinese firms. The findings of this empirical study indicate that firms with international technology in-licensing possess stronger technological innovation capabilities than those who license from domestic technology sources. Furthermore, international technology in-licensing improve licensees’ international innovation capabilities in terms of triadic patent applications.

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Patent transactions with China in a new era: a European perspective
Purpose – This study aims to present a timely description of the experience and intentions of EU firms regarding patent licensing and/or selling to China in a new era, where EU firms are taking a more open approach toward innovation and the Chinese institutional environment has been recently changed. The paper finds that large and small EU firms are different regarding the openness of innovation measured by patent transactions; for those EU firms that are not interested in licensing or selling patents, most of them are not employing an open innovation model and IP infringement is still the primary concern. EU firms are most interested in selling obsolete technologies and licensing state-of-art technologies to China.

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Patent licensing and selling to China as a strategy of technology transfer in a New Era: A perspective of European firms

International technology transfer enables firms in developed countries to exploit the value of their technological innovations, and provides firms in developing countries with access to technological and organizational knowledge. This study aims to present a timely description of the experience and intentions of EU firms with regard to patent licensing and/or selling to China in this new era. Firms from 12 European countries in various industries were surveyed by an online questionnaire. We found that (1) large and small EU firms are very different with regard to the number of non-commercialized patents and activeness in patent transactions; (2) for those EU firms that are not interested in licensing or selling patents in the future, most of them are not employing an open innovation model; (3) for those EU firms that are interested in patent licensing/selling to China, IP infringement is still the primary concern despite the recently adaption of the new Patent Law in China; (4) EU firms are most interested in selling obsolete technologies and licensing state-of-art technologies to China.

Understanding the joint effects of Cognitive Distance and Competition on Pioneering Innovations through the Dynamics between Suppliers and Competitors

The relationships between cognitive distance, competition and innovation have drawn great attention from economists and management researchers. First, with regard to cognitive distance and innovation, it is suggested that a moderate level of cognitive distance between firms is associated with an optimal innovation performance, because a too small cognitive distance provides the focal innovating firm with too little novelty value, while a too large cognitive distance makes it difficult for firms to learn and collaborate with each other. Second, the empirical evidence for the relationship between competition and innovation remains inconsistent. On the one hand, the Schumpeterian viewpoint credits that firms with substantial market power, which implies a low level of competition intensity, master resources and incentives to innovate. On the other hand, it is also possible for such firms to have incentives to suppress subsequent innovation. Therefore, a perfectly competitive market is more likely to foster innovation. If cognitive distance allows potential external learning opportunities for firms to innovate, then the competitive environment where firms operate provides incentives and motivations for firms to take these potential opportunities. As far as innovation is concerned, the joint effects of cognitive distance and
The dual role of external corporate venturing in technological exploration

Innovating firms can not only explore new technologies from its innovation partners, but also explore new technologies from the organizations to which the innovating firm has had no prior relationships. Prior studies have mostly focused on a firm's exploratory learning from its venturing partners ("exploration from partners" or "EFP"). There has been little insight on how external corporate venturing may affect the exploratory learning beyond the venturing partnerships ("exploration beyond partners" or "EBP"). We claim that prior venturing relations have a dual role: First, the innovation firm can learn from knowledge embedded in its partners. Second, it can also learn from through its partners about knowledge developed by other firms or organizations with whom the innovating firm had no external venturing relations before. In this paper, we are interested how external corporate venturing partnerships plays a dual role and may help innovating firms exploring new technologies through EFP and EBP.

General information
State: Published
Organisations: DTU Executive School of Business, Hasselt University
Authors: Li, Y. (Intern), van de Vrande, V. (Ekstern), Vanhaverbeke, W. (Ekstern)
Pages: 1-6
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The effects of inter-industry and country difference in supplier relationships on pioneering innovations

Innovations are critical driving forces for firms to engage in corporate growth and new business development. Innovating firms are increasingly generating new knowledge in collaboration with partners. In this paper, we analyze how the knowledge differences between the innovating firms and their suppliers in Canada are likely to result in pioneering innovations. The knowledge difference is decomposed into two dimensions: the inter-industrial dimension and the geographic dimension in national context. Using the Canadian Innovation database, we found the inter-industry difference has a positive effect and the country difference has a negative effect on the likelihood of generating pioneering innovation. The findings of this paper suggest that for generating pioneering innovation, it is important not only to search for suppliers from different industries to get access to various complementary external knowledge sources but also to find suppliers from the same or nearby countries for the sake of communication and coordination.

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Authors: Li, Y. (Intern), Vanhaverbeke, W. (Ekstern)
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Web of Science (2017): Indexed Yes
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BFI (2015): BFI-level 1
Scopus rating (2015): SJR 1.78 SNIP 2.263 CiteScore 3.4
BFI (2014): BFI-level 1
Scopus rating (2014): SJR 1.562 SNIP 2.73 CiteScore 3.67
Web of Science (2014): Indexed yes
BFI (2013): BFI-level 1
Scopus rating (2013): SJR 2.163 SNIP 2.387 CiteScore 4.17
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BFI (2012): BFI-level 1
Scopus rating (2012): SJR 2.009 SNIP 2.645 CiteScore 4.32
ISI indexed (2012): ISI indexed yes
BFI (2011): BFI-level 1
Scopus rating (2011): SJR 1.734 SNIP 2.054 CiteScore 3.75
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BFI (2010): BFI-level 1
Scopus rating (2010): SJR 1.452 SNIP 1.853
BFI (2009): BFI-level 1
Scopus rating (2009): SJR 1.131 SNIP 1.723
Web of Science (2009): Indexed yes
BFI (2008): BFI-level 1
Scopus rating (2008): SJR 1.051 SNIP 1.494
Scopus rating (2007): SJR 0.903 SNIP 1.239
Scopus rating (2006): SJR 0.607 SNIP 0.88
Scopus rating (2005): SJR 0.561 SNIP 1.163
Web of Science (2005): Indexed yes
Scopus rating (2004): SJR 0.423 SNIP 1.006
Web of Science (2004): Indexed yes
The relationships between foreign competition, absorptive capacity and pioneering innovation: An empirical investigation in Canada

This study investigates the likelihood that firms generate pioneering innovations under different levels of foreign competition in domestic market, meanwhile taking the effects of technological distance between the focal innovative firms and their suppliers into account. We argue that the relationship between foreign competition and pioneering innovation has a U-shaped relationship. On the one hand, when foreign competition is low, firms may seek new technological and market opportunities based on organizational slack. When foreign competition intensifies, domestic firms will immediately be engaged in the competition by reducing the cost, improving efficiency or quickly adapt latest practices in the industry in reaction to the foreign competition, which will distract firms’ incentive to bring about pioneering innovation. On the other hand, when foreign competition is fierce, firms have to undertake pioneering innovation to “escape the competition”. In this case, the possibility of undertaking pioneering innovation may again increase. We also predict that the U-shaped relationship between foreign competition and pioneering innovations will be more evident and the slope will be steeper when technological distance between the innovative focal firms and their suppliers is large.

Keyword: Competition; foreign competition; pioneering; innovation; absorptive capacity
Exploration and Exploitation in Innovation: Reframing the Interpretation

There has been a burgeoning literature about exploitation and exploration since March's seminal article in 1991. However, in reviewing the extant literature we find different interpretations of both concepts leading to ambiguity and even some inconsistency. This paper focuses in particular on the interpretation of exploration and exploitation in the literature on technological innovation. It addresses two critical research questions. First, what are the different interpretations of exploitation and exploration? Second, how can we set up a framework that reconciles these differences and reduces the ambiguity that we find in the literature? To answer these two questions, we first explain what the root causes of these different viewpoints are. Second, we provide a theoretical framework that integrates the different perspectives, sets up a new typology to define exploration and exploitation, identifies white spaces in the current research and provides guidance for future research.

Keyword: exploration, exploitation
Projects:

**Analysis of the role of designers self-identity and behavior on design teams for performance improvement**

Department of Management Engineering  
Period: 01/02/2015 → 31/01/2018  
Number of participants: 3  
Phd Student:  
Kunrath, Kamila (Intern)  
Supervisor:  
Li-Ying, Jason (Intern)  
Main Supervisor:  
Cash, Philip (Intern)

**Financing sources**  
Source: Internal funding (public)  
Name of research programme: Science Without Borders, Brasi  
Project: PhD

**The Relationship Between Creativity Training of Individuals Working within Design Processes and Front-End Innovation Output of Organizations**

Department of Management Engineering  
Period: 01/12/2014 → 30/12/2017  
Number of participants: 3  
Phd Student:  
Valgeirsdóttir, Dagný (Intern)  
Supervisor:  
Li-Ying, Jason (Intern)  
Main Supervisor:  
Onarheim, Balder (Intern)

**Financing sources**  
Source: Internal funding (public)  
Name of research programme: Institut stipendie (DTU)  
Project: PhD

**Global Opportunities for Danish SMEs in Emerging Markets: Strategies and Methods for Adaptive Product Development**

Many Danish companies realise that the growth potential relies on a successful entry into the emerging markets, such as China, Brazil, India, Latin America, and Africa.  

There are tremendous amount of opportunities to do business in more innovative ways in emerging markets. Do you face challenges in developing business for your company in emerging markets or adapting your products to these new markets?  

The purpose of this project is to accelerate the growth of Danish start-ups and SMEs with regard to their global expansion into emerging markets through establishing new growth strategy and methods to support: understanding of product requirements, product development processes, business models, and pathways for networked resources.  

The project is financed with 4.000.000 DKK from the Danish Industry Foundation (Industriens Fond) and runs over a three year period. It will involve a number of researchers from the Department of DTU Management Engineering.

Department of Management Engineering  
Technology and Innovation Management  
Period: 15/10/2014 → 14/10/2016  
Number of participants: 4  
Emerging Markets; Business Moldel Development; Product Development; Danish SMEs  
Acronym: GODSEM  
Project participant:
Relations
Activities:
The keys to success: Engineering your Business Model for international markets
Requirements Identification and Cost Reduction
DTU Sustain Conference 2015
Documents:
GODSEM - Project Description
Project

Design methods for supporting the adoption and design of products for emerging markets
Department of Management Engineering
Period: 01/12/2013 → 07/09/2017
Number of participants: 6
Phd Student:
Li, Xuemeng (Intern)
Supervisor:
Daalhuizen, Jaap (Intern)
Main Supervisor:
Li-Ying, Jason (Intern)
Examiner:
Hansen, John Paulin (Intern)
Jensen, Thomas Aakjaer (Intern)
Kandachar, Prabhu (Ekstern)

Financing sources
Source: Internal funding (public)
Name of research programme: Eksternt finansieret virksomhed
Project: PhD

Innovation and commercialization paths in different technology areas
Department of Management Engineering
Period: 01/12/2013 → 11/11/2017
Number of participants: 4
Phd Student:
Milana, Evita (Intern)
Supervisor:
Lomberg, Carina (Intern)
Murdock, Karen (Intern)
Main Supervisor:
Li-Ying, Jason (Intern)

Financing sources
Source: Internal funding (public)
Name of research programme: Institut stipendie (DTU)
Project: PhD

Kina Vækst (China Growth): Business Development in Chinese market for SMEs in Region Sjælland
consultation and guiding SMEs in Region Sjælland regarding their business model innovation and product development in China
Department of Management Engineering
Explaining how process formalization affects new product performance

Department of Management Engineering
Period: 01/02/2012 → 30/09/2015
Number of participants: 7
Phd Student:
Tandrup, Thomas (Intern)
Supervisor:
Murdock, Karen (Intern)
Schultz, Carsten (Ekstern)
Main Supervisor:
Salomo, Søren (Intern)
Examiner:
Li-Ying, Jason (Intern)
Hölzle, Katharina (Ekstern)
de Weerd-Nederhof, Petra C. (Ekstern)

Financing sources
Source: Internal funding (public)
Name of research programme: Institut stipendie (DTU) Samf.
Project: PhD

The Governance and Design of Collaborative User-driven Innovation Platforms - Interdependence and managerial implications

Department of Management Engineering
Period: 01/12/2011 → 31/07/2012
Number of participants: 3
Phd Student:
Ástvaldsdóttir, Agnes (Intern)
Supervisor:
Li-Ying, Jason (Intern)
Main Supervisor:
Salomo, Søren (Intern)

Financing sources
Source: Internal funding (public)
Name of research programme: Forskningsrådsfinansiering
Project: PhD

Explaining the survival rate of new pharmaceutical products in clinical trials

Department of Management Engineering
Period: 01/12/2010 → 30/09/2014
Number of participants: 8
Phd Student:
Buonansegna, Erika (Intern)
Supervisor:
Li-Ying, Jason (Intern)
Maier, Anja (Intern)
Schultz, Carsten (Ekstern)
Main Supervisor:
Salomo, Søren (Intern)
Examiner:
Perunovic, Zoran (Intern)
Knudsen, Mette Præst (Ekstern)
Kock, Alexander (Ekstern)

Financing sources
Source: Internal funding (public)
Name of research programme: Institut stipendie (DTU)
Project: PhD