Strengthening Innovation Capacity through Different Types of Innovation Cultures

Jens-Uwe Meyer

“There are two kinds of adventurers: those who go truly hoping to find adventure and those who go secretly hoping they won’t.”

William Least Heat-Moon (Trogdon)
Travel writer and historian

In times of increased market dynamics, companies must be capable of initiating and implementing innovation projects that vary greatly in type, speed, and degree of innovation. Many companies do not succeed. This article introduces Innolytics, an innovation management tool that allows companies to successfully face this challenge by analyzing their innovation culture and managing its development in the right direction. Analyzing empirical data from 200 staff members employed by German, Austrian, and Swiss companies using exploratory factor analysis, four types of innovation cultures were identified, each of which foster a different degree of organizational creativity. Proactive innovators (21%) promote organizational creativity at a high level and across all categories. Strategic innovators (26%) foster innovation by focusing on their strategy and their value system. Innovative optimizers (36%) promote more adaptive levels whereas operational innovators (16%) promote low levels of organizational creativity. Each type enables a company or a business unit to manage different degrees of innovation projects. The Innolytics tool introduced and described in this article will enable companies to better meet the challenges of rapidly changing markets.

Introduction

In dynamic markets, companies must manage a greater variety and a higher speed of innovations (Bjork, 2012). In the course of this effort, the different requirements for processes and abilities can quickly overstrain an organization’s capacities (Benner & Tushman, 2002). The current understanding of innovation management is characterized by process-oriented approaches (cf. Cooper, 1994; Cooper & Kleinschmidt, 2001; Drucker, 1985) that focus on the establishment of innovation processes and the definition of roles as well as the establishment of key performance indicators (Cooper & Kleinschmidt 1996, 2001). These approaches nevertheless demonstrate their limits in dynamic market environments.

Processes gain great importance when managing complex projects with a diversity of participants, such as the development of innovative technologies (Cooper, 2014; Högman & Johansson, 2013). Structured routines render advantages in terms of effectiveness but may hinder the development of something new (Junarsin, 2009). The strength of innovation processes appears to be in the ability to manage the innovation routine. Such a strategy of slow incremental change can be absolutely promising provided that the environment is stable or changes slowly (Tushman & O’Reilly III, 1996). Nevertheless, this strategy is not always the most productive approach to meeting the demands of dynamic markets because innovation is not necessarily a linear process (Rickards, 1996). The farther a project strays from this routine and the higher its degree of uncertainty, the greater the demand is for more encompassing instruments that promote more far-reaching forms of innovation.

Background

Numerous authors describe the influence of the innovation culture on the innovative capacity of companies and company units (e.g., Ekvall, 2006; Lin & Liu, 2012;
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Naranjo et al., 2010). Category systems that outline the supporting framework conditions for creativity and innovation have been developed over recent years (e.g., Amabile et al., 1996; Khandwalla & Mehta, 2004; Robinson & Stern, 1997). These works assume that a company possesses an innovation culture to either a greater or lesser degree and that either a higher or lower innovative capacity can be derived from it (Dobni, 2008; Martins & Terblanche, 2003).

Nevertheless, different types of innovations require different framework conditions (Junarsin, 2009; Leifer et al., 2000). According to Ekvall (2006), different degrees in organizational creativity are required for the achievement of different innovation goals. And, according to Tushman and O’Reilly (1996), different cultures that promote different degrees of creativity can exist in a single company. But, current research does not provide a systematic and sufficiently deep understanding of the various cultural conditions that foster different levels of creativity as a prerequisite for being able to manage different degrees of innovation in highly dynamic markets. The purpose of this article is to develop an empirically-based comprehensive model in order to close this gap. For this purpose, the following hypotheses are established on the basis of a literature analysis:

Hypothesis 1: There are several degrees of organizational creativity. Each degree promotes a specific quality, scope, and radicality of innovation.

Hypothesis 2: Organizational units with different degrees of organizational creativity can be determined on the basis of characteristics and can be summarized into innovation types.

Hypothesis 3: Through the establishment of a management model based on types of innovation, companies can increase their ability to simultaneously develop different levels of innovation at varying speeds.

Theoretical foundations and classification
Up to the early 1990s, research had not yet provided broadly based scientific frameworks that explain the relationship between the work environment and creative achievements of staff members (Amabile, 1988; Woodman et al., 1993). A new research direction has since emerged as the field of organizational creativity that focuses less on the creative performance of an individual, but more so on the creative performance of an organization (e.g., Puccio & Cabra, 2010; Zhou & Shalley, 2008).

The number of studies on the subject of creativity has been continually accelerating over recent years (Runco & Albert, 2010). Koizumi, Bellgheito, and Runco (2010) provide a comparative review of creativity theories and divide them into 10 categories. This work is a convergence of psychometric theories, typological theories, and system theories. Psychometric theories are based on the assumption that creativity can be measured using criteria (Koizumi et al., 2010). Typological theories assume that there are different types of creative individuals and working styles (Kirton, 1976, 1989; Koizumi, 2008; Martinsen, 1995). System theories are based on the assumption that creativity can be influenced by the system surrounding it (Koizumi et al., 2010).

This article examines the question of how companies and company units can influence their innovative capacity at a system level by developing typologies of organizational creativity with the support of psychometric techniques.

Definitions

Individual creativity
The foundational element in this article is Amabile’s (1996) componential model, which includes three major components of creativity: expertise, creative thinking, and intrinsic task motivation. This definition of creativity may be limited because the level of creative efficiency appears to be additionally influenced by specific character traits:

• Independence, independent judgment, autonomy (Amabile, 1996; Barron & Harrington, 1981; Roth, 2001)

• Self-discipline or self-direction, highly achievement-motivated, perseverance in face of frustration, high energy (Amabile, 1996; Csikszentmihalyi, 2006; Kaufman & Sternberg, 2006; Roth, 2001)

• Orientation toward taking risks (Amabile, 1996; Fason & Keyes, 2002)

• Preference toward breaking the rules (Csikszentmihalyi, 2006)

• Largely unconcerned with regard to social acceptance (Amabile, 1996)

• Self-confidence (or self-efficacy) (Barron & Harrington, 1981; Hill et al., 2008; Prabhu et al., 2008)
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For the purposes of this research objective, an expansion is made on Amabile’s consideration of the relationship between creativity and intelligence (Amabile, 1996; Sternberg, 1996). According to Roth (2001), high creativity requires an above-average, particularly linguistic, intelligence. The concept of creative intelligence is applied within the literature (e.g., Buzan, 2001; Carr-Ruffino, 2001; Dewey et al., 2011). This intelligence may determine the degree of creative efficiency that moves between moderately creative achievements (Amabile, 1996) and truly creative breakthroughs (Feist, 2010).

Within the scope of this research project, individual creative potential is defined as a collection of creative abilities and character traits that enable achievements that are considered in a defined social context as new and useful and that the degree and the area of these creative achievements are strongly influenced by creative intelligence and individual expertise (Figure 1).

**Definition of organizational creativity**

Many terms are explored in the literature regarding innovation and creativity at a systemic level: innovativeness, organizational creativity, entrepreneurial creativity and corporate creativity, creative climate, innovation supportive culture, and innovation culture (e.g., Dobni, 2008; Ekvall, 1996; Robinson & Stern, 1997). A precise distinction between these terms is hardly possible on the basis of the present literature. The concept of innovation culture is defined within the scope of this article as the social environment that enables staff members to develop ideas and implement innovations. The concept of organizational creativity consists of two abilities: i) the ability to create this social environment as well as ii) the ability to utilize and exploit the resulting individual creativity of staff members.

**Design and Methodology**

For the analysis of the factors that promote organizational creativity referred to in the literature, authors have been selected who have followed the approach of listing all of the relevant factors and designating the factors that can be traceable and fully categorized:

- KEYS (Amabile et al., 1996)
- Six Factors Promoting Corporate Creativity (Robinson & Stern, 1997)
- Culture and Climate for Innovation (Ahmed, 1998)

**Figure 1. Individual creative potential and its influences**

- Design of Corporate Creativity (Khandwalla & Mehta, 2004)
- Model of Engagement in Creative Action (Unsworth & Clegg, 2010)
- Key Issues Around Creating a Culture for Design, Creativity, and Innovation (von Stamm, 2005)
- Working Climate and Creativity (Ekvall & Tangeberg-Andersson, 1986)
- The Creativity Audit (Rickards & Bessant, 1980)
- Measuring the Perceived Support for Innovation in Organizations (Siegel & Kaemmerer, 1978)
- Organizational Creativity and Innovation (van Gund, 1987)
- Needed Research in Creativity for Business and Industry Applications (Basadur, 1987)
- Exploratory Study for Creative Climate (Cabra et al., 2005)
- Measuring Climate for Work Group Innovation (Anderson & West, 1998)
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• Characteristics of an Organizational Environment Which Stimulates and Inhibits Creativity (Soriano de Alencar & Bruno-Faria, 1997)

The 14 models include a total of 110 main categories – some of which are further divided into subcategories by the authors. These categories have been grouped into clusters applying Amabile’s line of thought, after which the generation and development of ideas can be supported at multiple levels of an organization (Amabile et al., 1996). For classification purposes, Krome’s (2002) principle of operational interpretation was applied:

1. The organizational level includes factors of overriding importance that affect the entire organization or organizational unit.

2. The management level includes factors that can be directly influenced by the supervisor of an employee, such as the promotion of ideas by superiors.

3. On the employee level, creativity can be promoted in relation to the tasks and projects employees and teams are working on.

4. The level of the work environment includes factors that are perceived and interpreted by individuals in their personal working environment.

These four levels were associated with the 110 categories designated by the authors above as main categories. The categories were then grouped into the four levels with ten new categories and a total of 48 newly created items (Table 1).

A questionnaire was developed for the survey, and the collected data were coded on a scale from 1 to 6. After performing the factor analysis, the data were re-coded for clarity: values 1 to 3 were given the values -3 to -1 and the values of 4 to 6 were given the values 1 to 3. Incomplete datasets were removed from the analysis. All items were weighted equally. With the help of this questionnaire, nearly 200 staff members responsible for innovation in companies from Germany, Austria, and Switzerland were questioned as to the extent to which the characteristic features listed in Table 1 promote organizational creativity in their scope of action.

The base population from which the sample drawn is formed companies that are referred to as “innovation-active” by the Center for European Economic Research (Rammer et al., 2011), a group that represents nearly 57% of all companies. The surveys were sent to staff members of these companies who deal with innovation due to their job description (e.g., idea manager, innovation manager, business development, research and development) or for another reason.

The survey fulfills the requirements of specific representativity (Moosbrugger & Kelava, 2012) as well as the quality criteria for objectivity, reliability, and validity.

Thirty-eight percent of the survey respondents are employed in companies that have between 51 and 1,000 staff members, 32% are in companies between 1,000 and 10,000 staff members, and 30% are employed in companies with more than 10,000 staff members. The majority (67%) is directly responsible for innovation. Fourteen percent of the interviewees belong to the management or the boards of directors. Nineteen percent come from the marketing and public relations (8%) departments, distribution (4%), product management (5%), or production (4%). Nearly two-thirds of the interviewees are executives.

To clarify the primary objective of this research project – to determine the extent to which different degrees of organizational creativity can be defined – the underlying data material has been analyzed with the aid of an exploratory factor analysis as a hypothesis-generating process (Moosbrugger & Schermelleh-Engel, 2012; Noack, 2007).

Findings

The results of the factor analysis show that there is a close relationship between the individual categories. Patterns could be found in the collected datasets. Respondents who, for example, evaluated their communication structures as being highly supportive of innovation almost always assessed their working climate and their risk culture as being equally supportive of innovation. There was also a strong correlation on the negative scale: respondents who evaluated their communication structures as being obstructive to innovation almost always assessed their working climate and their risk culture as being equally obstructive to innovation.

In evaluating the results of the exploratory factor analysis, four types of clusters were determined (Table 2). Their specific attributes, as evaluated on a scale from 1 to 6, can be described in the following way:
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<table>
<thead>
<tr>
<th>Level</th>
<th>Category</th>
<th>Items and Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization</td>
<td>Strategy</td>
<td>The goal formulated by the top management team to strive for and promote innovations.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. <em>Future strategy:</em> Offensive, future-oriented strategy from which innovation requirements are derived.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. <em>Innovation awareness:</em> The awareness of the need for innovation.</td>
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<tr>
<td></td>
<td></td>
<td>3. <em>Innovation aspiration:</em> The aspiration to implement breakthrough innovations.</td>
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<tr>
<td></td>
<td></td>
<td>4. <em>Engagement of the top management:</em> The degree to which the top managers develop their own innovation activities.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. <em>Sustainability:</em> The sense that the innovation strategy over a long period of time is a determining factor.</td>
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<tr>
<td></td>
<td></td>
<td>6. <em>Strategy communication:</em> The magnitude to which the strategy is communicated and develops a leading influence.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Values</th>
<th></th>
<th>Overriding factors: convictions and values.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1. <em>Own responsibility:</em> The sense of being personally responsible for innovation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. <em>Acceptance of contradictions:</em> To manage the attitude in spite of possibly contradicting information.</td>
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<tr>
<td></td>
<td></td>
<td>3. <em>Lived philosophy:</em> The magnitude to which innovators show a personal conviction.</td>
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<tr>
<td></td>
<td></td>
<td>4. <em>Value of creativity:</em> The degree to which new ideas as well as creative thinking and action are valued.</td>
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<tr>
<td></td>
<td></td>
<td>5. <em>Courage for radical ideas:</em> The magnitude to which existing views are questioned and radical ideas are recognized.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. <em>Readiness for change:</em> The degree to which a readiness exists to accept changes concerning the structures and the scope of one’s own duties.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Management</th>
<th>Structures</th>
<th>Creation of management structures with which creativity can be promoted.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1. <em>Hierarchies:</em> Permeability of hierarchy levels in the company.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. <em>Control avoidance:</em> The possibility to work around the rules if required.</td>
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<tr>
<td></td>
<td></td>
<td>4. <em>Decisive speed:</em> Speed of the decision-making processes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. <em>Creativity-promoting practices and processes:</em> Practices and processes that actively promote creativity and innovation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Style</th>
<th></th>
<th>A management style that promotes creativity and innovation.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1. <em>Innovation goals:</em> The measure to which concrete innovation goals are defined for individual staff members.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. <em>Active promotion:</em> The degree to which executives actively promote creative ideas and innovation projects.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. <em>Stimuli:</em> The magnitude to which executives expose staff members to stimulative influences.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. <em>Encouragement:</em> The encouragement of staff members to transcend the limits of what is currently feasible.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. <em>Autonomy:</em> The magnitude to which executives grant autonomy to their staff members.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resources</th>
<th></th>
<th>The granting of resources.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1. <em>Temporal resources:</em> The granting of time freedoms.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. <em>Financial and material resources:</em> The granting of money and materials.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. <em>Internal synergies:</em> The possibility to fall back on the resources of other departments.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. <em>External resources:</em> Inclusion of external resources.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. <em>Training / tools:</em> The possibility for training.</td>
</tr>
</tbody>
</table>
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### Table 1. Model levels, categories, and items (...continued from previous page)

<table>
<thead>
<tr>
<th>Level</th>
<th>Category</th>
<th>Items and Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff</td>
<td>Team composition</td>
<td>Composition and working style of teams.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. <em>Diversity:</em> The magnitude of technical and cognitive diversity.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. <em>Innovation-promoting staff:</em> The integration of innovation drivers and unconventional thinkers.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. <em>Criticism culture:</em> Discussions regarding the right course.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. <em>Mutual support:</em> The magnitude of mutual support.</td>
</tr>
<tr>
<td>Incentives</td>
<td></td>
<td>The creation of incentives in order to expedite innovation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. <em>Measurement of ideas:</em> The measurement of staff members in terms of the number and the quality of their ideas.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. <em>Career mechanisms:</em> Long-term career perspectives for creatively and innovatively managing staff members.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. <em>Reward of results:</em> To recompense the preference for results rather than compliance.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. <em>Reward of successful innovation:</em> The degree to which innovation success is recompensed.</td>
</tr>
<tr>
<td>Environment</td>
<td>Communication</td>
<td>Innovation-promoting communication.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. <em>Lateral communication:</em> Cross-divisional, lateral communication.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. <em>Internal informal networks:</em> The formation of informal networks.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. <em>Meeting culture:</em> The magnitude to which meetings serve the development of new ideas.</td>
</tr>
<tr>
<td>Risk culture</td>
<td></td>
<td>Readiness to take risks.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. <em>Mistake acceptance:</em> The acceptance of mistakes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. <em>Readiness to learn:</em> The readiness to learn from mistakes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. <em>Mistake quality:</em> The distinction between different types of mistakes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. <em>Unofficial projects:</em> The frequency of unofficial innovation projects.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. <em>Experimental readiness:</em> The magnitude to which experiments are carried out.</td>
</tr>
<tr>
<td>Working climate</td>
<td></td>
<td>The personally perceived climate in the work environment.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. <em>Motivated environment:</em> The extent to which colleagues are motivated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. <em>Informal contact:</em> Informal contact with one another.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. <em>Openness to problems:</em> Positive setting in the face of problems and difficulties.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. <em>Perceived dynamism:</em> The perceived degree of dynamism.</td>
</tr>
</tbody>
</table>
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Table 2. The four innovation types revealed through factor analysis

<table>
<thead>
<tr>
<th>Innovation Type</th>
<th>Organization Level</th>
<th>Management Level</th>
<th>Staff Level</th>
<th>Environment Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean value of all</td>
<td>1.0</td>
<td>1.1</td>
<td>0.9</td>
<td>0.6</td>
</tr>
<tr>
<td>interviewees</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard divergence</td>
<td>± 2.1</td>
<td>± 2.0</td>
<td>± 2.0</td>
<td>± 2.1</td>
</tr>
<tr>
<td>Type 1</td>
<td>2.0</td>
<td>1.9</td>
<td>1.9</td>
<td>1.6</td>
</tr>
<tr>
<td>Standard divergence</td>
<td>± 2.4</td>
<td>± 2.3</td>
<td>± 2.4</td>
<td>± 2.5</td>
</tr>
<tr>
<td>Type 2</td>
<td>1.5</td>
<td>1.2</td>
<td>1.0</td>
<td>0.7</td>
</tr>
<tr>
<td>Standard divergence</td>
<td>± 1.9</td>
<td>± 1.9</td>
<td>± 1.6</td>
<td>± 2.0</td>
</tr>
<tr>
<td>Type 3</td>
<td>0.7</td>
<td>0.8</td>
<td>0.7</td>
<td>0.1</td>
</tr>
<tr>
<td>Standard divergence</td>
<td>± 1.9</td>
<td>± 1.9</td>
<td>± 1.9</td>
<td>± 2.0</td>
</tr>
<tr>
<td>Type 4</td>
<td>0.0</td>
<td>0.5</td>
<td>0.4</td>
<td>0.0</td>
</tr>
<tr>
<td>Standard divergence</td>
<td>± 1.9</td>
<td>± 1.9</td>
<td>± 1.8</td>
<td>± 1.8</td>
</tr>
</tbody>
</table>

1. Innovation Type 1 (21% of the interviewees) is characterized by clear evaluation tendencies as regards the features that strongly foster creativity: for all 10 items, statements that represent a culture that fosters organizational creativity achieved high values.

2. Innovation Type 2 (26% of the interviewees) ranks an average of 0.7 points lower than the first innovation type. Overall, the values fostering creativity are therefore assigned a lower, albeit not homogeneous, level. Of the 10 different categories, strategy, values, management styles, and team composition achieve higher values than the other categories.

3. For Innovation Type 3 (36% of the interviewees), the mean values on the evaluation scale are an average of 0.4 points lower than Innovation Type 2 and 1.1 points lower than Innovation Type 1. The evaluation level for the categories of strategy, values, management structures, team composition, and incentives is largely homogeneous.

4. Innovation Type 4 (16% of the interviewees) differs in all categories by 0.4 points from Innovation Type 3, by 0.8 points from Type 2, and by 1.5 points from Type 1. The categories of strategy, values, management structures, resources, incentives, communication, risk culture, and working climate are characterized by a largely homogeneous evaluation level on the lowest level.

The innovation aspiration (Figure 2) is valued at an average of 1.6 (+ 2.6) for Innovation Type 1, but with Innovation Type 4, it is valued at 0.9 (+ 1.8). Whereas Innovation Type 1 achieves high values with the courage for radical ideas (1.6 ± 2.5), the survey respondents who are assigned to the Innovation Type 4 see danger within radical ideas (0.4 ± 2.0).

Two questions of the survey were directly aimed at determining the degree of innovation the respondent aspires to achieve and the respondent’s attitude to radical ideas. When comparing the values achieved by the different innovation types for both questions, a correla-
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![Diagram showing Innovation Capacity through Different Types of Innovation Cultures](image)

**Figure 2.** Continuous decrease in the targeted innovation degree

The culture of companies that strive for a high degree of innovation differs significantly from those that aspire toward a lower degree of innovation. The perception that an organization’s innovative capacity is only either low or high lacks dimension and is therefore limiting. In order to enable an organization’s leadership to manage innovation in highly dynamic markets, it seems to be much more effective to think of suitable degrees of organizational creativity in relation to the specific innovation goals of a company. It can therefore be concluded that the idea that there is a consistent and clearly defined mechanism with which the management can positively impact the innovative capacity through organizational creativity does not sufficiently cover the many dimensions and variables of innovation itself.

**Conclusion**

The results of this research are of great practical relevance to the managers of companies. The innovation types developed in this research should enable managers to understand which mechanisms can be activated in different intensities to achieve defined innovation goals. The results should shift the focus in innovation management from the procedural consideration to the establishment of management models that envision company units with varying degrees of organizational creativity.

However, a limitation of this paper is the relatively small sample. One response per company does of course not properly describe the culture of that company. It is recommended to expand the sample and using a more complex process of investigation that covers statistically several management layers within the company. Moreover, future investigations on the subject of innovation should focus on the gradations of organizational creativity.
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Tourmatic creativity. The different degrees are insufficiently investigated in the literature.

For future research, it is encouraged that surveys similar to that conducted here are repeated – possibly with a higher number of participants. It would be a significant gain in knowledge to discover the extent to which more types of innovation can be defined. Due to the relatively low number of cases in this first research (200 interviewees), four innovation types naturally demonstrate a simplification.

In the meantime, on the basis of this preliminary study, a web-based analysis tool has been developed in German, and an English version will be available in 2015. This tool, which is called Innolytics (innolytics.de) – from "innovation analytics " – helps researchers and managers to measure, analyze, and continuously develop their own innovation capacity. For this purpose, the items discussed in this paper are converted into questions for different management levels and areas of expertise. This tool should help to enable the management of companies to identify and activate those factors that most efficiently improve the innovation capacity of different units. Given that different areas of expertise and business units within companies are usually subjected to different demands for innovation, Innolytics should help to enable the management to establish different innovation cultures in different divisions and business units.

Acknowledgements

An earlier version of this paper was presented at the first ISPI America Innovation Forum in Montreal, Canada, on October 5–8, 2014. The International Society for Professional Innovation Management (ISPI; ispm.org) is a network of researchers, industrialists, consultants, and public bodies who share an interest in innovation management.

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Keywords: innovation management; innovativeness; innovation culture; innovation capacities; organizational creativity, corporate creativity