



## THE ORGANIZATIONAL CULTURE AS A SUPPORT OF INNOVATION PROCESSES

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### ABSTRACT

The global economy is in continuous dynamic and evolution, thus the companies need to keep up with these changes. They need to adapt to shorter production cycles and create new products, structures and processes accordingly. This paper examines the scientific literature related to organizational culture and its influence on innovation performance. Literature reveals that research on organizational culture largely confirms existing concepts and models, and it supports the achievement of the profile for an innovation culture. The research identifies organization culture as a promoter of innovation. This culture can be transformed into an innovation culture, used by managers to improve the cultural environment in order to enhance the performance of their company.

**Key Words:** organizational culture, innovation processes, creativity

### 1. INTRODUCTION

Innovation is a topic addressed in the large-scale scientific literature currently (Maier, 2014; Sandru, 2014; Maier A., 2012, Maier A. 2014; Olaru, 2013;) and defined by both practitioners and researchers, because of its relevance in increasing success and company survival. Innovation means both "making a change, introducing a novelty into a domain, in a system" and "novelty, change, transformation" (Popescu, 2016).

Managing innovation is an important process that only a few companies master very well. The main reason for this is that the innovation process is not fully understood or implemented by organizations, because of the lack of maturity of the innovation culture (Maier, 2013). Many

researchers indicate that culture can be seen as a competitive advantage of the organizations. (Lam, 2010;McLean,2005;O'Donnell, 2008; Fiol, 2011).

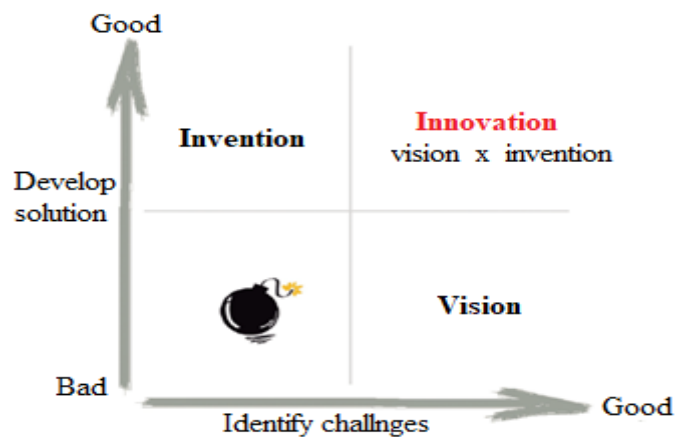
## 2. INNOVATION AND ORGANIZATIONAL CULTURE

### A. Innovation

The ability to innovate is one of the key factors in the competitiveness of any company. But what does innovation mean? The scientific literature provides many definitions for innovation, very similar, described only with different words.

Innovation can be defined as the identification of opportunities to create new products, services or processes (Maier, 2016);it is a process of transforming ideas and the opportunity to put these ideas into practice; it is a planned, rational process; it is an evolutionary process, non-linear and interactive, which requires intensive communication and collaboration between different actors (Aouad, 2010). Innovation creates added value for customers and business (Maier, 2016a, Vadastreanu, 2015). Innovation is both what you do (product, service, etc.) and how you do it (value chain, strategy, etc.) (Losane, 2013). In its current meaning, the term "innovation" defines the successful implementation of a new idea. The realization of innovation must be seen in a broad sense, in connection with the creative processes that aim to find new solutions and materialize them in various forms (Popescu, 2016). This process combines the ability to identify challenges (vision) with the ability of finding new solutions (invention) that add value to both the customer/user and society (Bayó, 2015).

Some authors make a very close link between creativity and innovation. Creativity is not the same as innovation; it is the first step towards innovation (Maier, 2013a). There are always two features for creativity - novelty and utility, both of which are involved in the resulting product or service, which is new and original and appropriate at the same time (Sternberg, 1999). The result of creativity is just an idea that may or may not be implemented (Gandotra, 2010), but innovation is the process that drives this idea from the first moment to the result - a new value for the client (McLean, 2005).



**Figure 1** The innovation process (made after Paradis, 2010)

Innovating today will be easier to innovate than tomorrow (McLean, 2005; Vadastreanu, 2015 b; Maier, 2013). The attention of many top executives is largely focused on the urgent problems of day-to-day management, innovation is often left aside, although it is considered an important issue, and it does not have the same priority as other pressing issues. When a leadership team becomes aware of the need for innovation, they identify a series of challenges that they have to face. These reflections usually address issues such as:

- The need to protect innovation from potential threats that could prevent society from renewing.
- To be credible, innovation must produce consistent results. It cannot be a fortifiable contribution once. Innovation must become continuous and deeply rooted by settling itself in organizational culture.
- To come up with new ideas, one requires a certain attitude (great thinking, observing more possibilities than problems, etc.), which in many cases is exactly the opposite of how people have been taught to think in a corporate context.

Every innovation starts from the idea of changing something, doing better. There are many types of innovation. Schumpeter (Schumpeter, 2003) and Jones (2011) identified them a long time ago (new production methods, new products, new forms of organization, new sources of supply, new markets) All innovations require certain changes: changes in technology, changes in supply methods, changes in structures. The focus on innovation is one of the distinctive elements of strategies and policies implemented over the last quarter of a century, both within organizations and at national and regional level. This focus requires the approach of R&D activities in connection with the business environment and other societal structures, that have to apply the new solutions, with the aim of gaining benefits for organizations, for society and for people (Popescu, 2016).

In the first half of the last century, Austrian economist Joseph Schumpeter distinguished five types of innovations: manufacturing new products, introducing new production methods, opening new outlets, and creating a new form of organization, discovering new sources of raw materials (Croitoru, 2008; Maier, 2013c).

This vision of innovation does not differ very much from the classification of innovation according to the nature of the phenomena it refers to, adopted by the Organization for Economic Co-operation and Development (OECD), which differentiates the following four categories (\*\*\*, 2005):

- *product innovation* – the creation of a new or improved product in terms of technical-functional characteristics, components, materials, ease of use or other functional features(\*\*\*, 2005);
- *process innovation* – the development of a new or improved production or delivery technology in terms of working methods and equipment (\*\*\*, 2005);
- *marketing innovation* – the introduction of a new marketing method, a relevant change in the appearance, packaging, distribution or promotion of the product (\*\*\*, 2005) ;

- *organizational innovation*—the implementation of new organizational and management methods, with effects on the business process and the company's external relations(\*\*\*, 2005) .

The last category includes management innovation, which appears as a distinct category in some classifications (Hamel, 2006).

Another criterion for classifying innovation is the novelty of the applied solutions, distinguishing two major categories: incremental innovation and radical innovation.

- *Incremental innovation* consists of improvements brought to existing products and processes, incentives for introducing the new market-pull model. For example, in computer science, the power of microprocessors and the size of memory have doubled every two years since 1985, and in the automotive sector between the '50s and' 80s, continuous performance improvement has been achieved with classic engines without modifies their constructive conception.
- *Breakthrough innovation* refers to the introduction of completely new technology push-based solutions. The emergence of radio, television, computers, are just some illustrative examples. These products did not come in response to market needs, because before they were introduced on the market, there were no perceived needs that new products could solve. In these cases, new technologies generate needs that did not exist before.

Innovation is the new frontier for quality, on which the adaptation of organizations to new requirements depends, including the concern for achieving excellence and the sustainable existence of the organization (Popescu, 2016).

Whatever the situation, these are just some of the many definitions that describe innovation. However, what really matters is the company's own definition. In other words, *each company must define what it understands through innovation, so that everyone in the organization has the same understanding of the concept* (Bayó, 2015)

Some aspects, such as the following, should be taken into account in establishing the definition:

1. Innovation is a process and therefore it should be managed as a process.
2. The process of innovation is completely inseparable from strategy.
3. The goal is to provide the market with solutions that add value both to customers and to the company.
4. Innovation involves risk.
5. Innovation does not just involve the R&D or technology department.
6. Innovating (process) ≠ Innovation (result).
7. Innovation ≠ Creativity, Research.
8. Types and levels of innovation.
9. Innovation is a collaborative process.

10. The degree of innovation is directly proportional to the capacities for generating, developing and managing innovation projects.

## **B. Organizational culture**

Organizational structure refers to the way that managers implementing and monitoring the management of innovation are organized. Organizational structure can take various forms depending on the size of the company, its innovation policy (centralized or decentralized), the innovation strategy and objectives, its focus (research-driven or user-driven) or its organizational nature, among other things. Each company should generate its own structure.

Ideally it should involve the entire organization, even though this is not always possible or feasible. Even if everyone takes part in the innovation process in some way or another, some people will nevertheless be more involved and have greater responsibility (Bayó, 2015).

Focusing on organizational culture emerged as theory and practice in the 1980s. Organizational culture is a social variable and it defines the distinctive way in which people perform their tasks, treat clients, solve problems and conflicts, etc. Simply defined, organizational culture is the "lifestyle of an organization" and is found to be mainly expressed in behavioral patterns of employees (Dauber, 2012). Organizational culture is what gives personality and identity to an organization. Each organization has its own culture, synthesized in the values, beliefs, beliefs and aspirations shared by members of the organization.

The approach of the organization, from this perspective, helps to understand the different impact and difficulties in organizational change. Studies show that failure to implement modern management systems or other change projects has occurred in most cases due to the lack of alignment of the organization's culture with the new values and principles. When the assumed values and employee behaviors remain constant, resolutions are often formal, even if the structures and working procedures have been modified. These do not lead to the expected results; on the contrary, they often produce frustration, loss of confidence and employee morale, and the organization may get worse than before the change projects (O'Donnell, 2008).

A common belief of organizations is that the organization culture is one of the most important factor of competitiveness. Although it can be quite difficult to replace certain individuals, and relatively easy to imitate products and processes, organizational culture is unique and persists over time - not everyone can create it. Those companies, whose employees are open to new ideas and are prepared to actively participate in technological change by being creative and showing an initiative, usually, have a greater potential for innovation. However, an organizational culture does not consist only of people. The systems, procedures, and organizational structure make individuals interact in a certain way (Terréi, 2002; Bodemann, 2015).

The culture of innovation is the ability of the organization to define, implement and develop new products, regular processes, making them the daily life of organizations. Innovation itself does not last long, but the advantage of systematic innovation capacity can take a long time (\*\*\*,

2012). To gain this advantage, the company needs to create an innovation culture. Organizational culture counts enormously in innovation. The analysis of the characteristics of successful firms shows that they have developed organizational cultures where innovation is seen as the responsibility of everyone and as an objective that employees at all levels try to do in their day-to-day work (Bolton, 2013).

All innovative companies should become intelligent organizations, meaning that companies that learn to learn and know how to use mistakes and unsuccessful projects to come back and continue to improve are more successful (Terrei, 2002; Maier D. 2014).

Summing up studies on the culture of innovation (Losane, 2013), the culture of innovation is defined by reference to the five determinants shown in Figure 2:

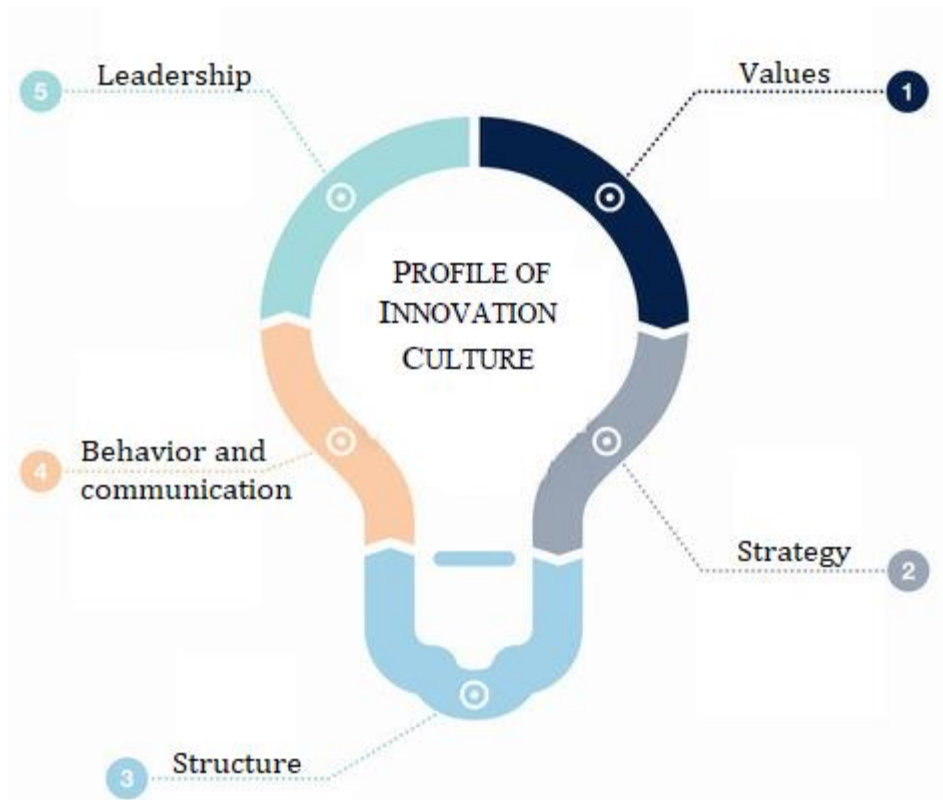


Figure 2. **Determinants of organizational culture** (authors 'own contribution)

- ① *Values*: freedom, risk taking, trust, openness, creativity, flexibility, lifelong learning;
- ② *Strategy*: innovation as a strategic goal, strong customer identification, future orientation;
- ③ *Structure*: autonomy, flexibility, collaborative teams and group interaction, transparency;
- ④ *Behavior and communication*: support, tolerance of mistakes; opening up new ideas; the ability to adopt new ideas; rapid adaptation to market changes; trust relationships; emphasis on key competences;

- ⑤ *Leadership*: Focus on innovation management and modeling behavior that encourages innovation, such as risk-taking, innovation support and rewarding initiatives (Losane, 2013) Leadership emphasizes the decisive role of higher management in delivering innovation by setting direction and engaging people to achieving the goals of change. In this sense, it is essential to develop an innovation strategy and create an organizational culture that encourages innovation across the organization (Popescu, 2016)

In the opinion of the specialists, the leading role of the leader in innovation is to create a culture in which innovation and creativity are found in everyone's work. Innovation requires the declared commitment of higher management, supported by the allocation of resources and incentives. These signals of opening up to innovation must reach all employees. The communication method is another key factor in conducting leadership and creating a culture conducive to innovation.

Organizations need broad information dissemination processes to reduce innovation uncertainty and the changes it produces. At the same time, good communication favors the expansion of participation in the innovation process. The defining values of the company are essential tools of leadership in modern management. Values determine priorities and decisions, which are reflected in the way a company spends its time and money. The values of a company are not what the leaders say or what they write in promotional materials and reports, but what people, leaders and employees do. Really innovative organizations provide the resources needed to support entrepreneurial action, stimulate creativity and learn.

Behaviors describe how people act in terms of innovation. For leaders, these actions include the description of the future through strategies and plans and the energizing of employees to achieve defined goals. For employees, innovation actions include participation in innovation by finding solutions or engaging in projects, perseverance in overcoming technical barriers, negotiating resources, listening to customers, etc. (Losane, 2013, Olaru, 2016).

Organizational culture is considered in the literature as one of the factors that can stimulate innovative behavior among members of the organization. Because it influences employee behavior, it can lead to the acceptance of innovation as a fundamental value by the organization. Leaders must promote the innovation of an organizational culture within the organization, being personally involved in setting and implementing clear and relevant methods to support innovation. Leadership is particularly important in the context of innovation, both the nature of innovation and the plan to achieve this goal need to be communicated clearly and repeatedly. Leaders need to have a vision of innovation and be able to share it (Maier, 2013).

An important feature of the organizational culture of high performance companies in innovation is the cultivation of a smart climate of risk taking and learning from failures instead of sanctioning mistakes.

Organizational culture differs from climate in the respect that culture is based on beliefs that are shared organization-wide, while climate is based on what an individual senses in and about the

organizational environment. In effect, climate emerges from aspects of the organizational context that individual employees perceive to be important and influential in their work. Because of this, climate is seen as a more salient feature of an organization to the degree that different beliefs, meanings, and symbols (i.e., culture) give rise to individual expectations, perceptions, and interpretations of the organizational environment that have a main effect on behavior (Bates, 2005).

Maher (2014) has identified seven key dimensions of culture that distinguish highly innovative organizations (Figure 3). These form a framework which leaders can use to assess and strengthen the culture for innovation within and across organizations:

- employees should have a sense that they can try out new ideas without fear that an ill-advised idea will entail negative consequences; leaders of innovative organizations should be more interested in learning “by mistakes” rather than punishing employees for ill-advised ideas – it is better when mistakes are made when an idea is implemented, rather than when there are no mistakes because there are no ideas;
- a positive approach to innovation is greater if employees know that they have the support of superiors and independence in action while they develop innovative ideas, as well as that they can make use of financial resources to support the innovation processes;
- knowledge is the primary resource for innovation; one can create better conditions for innovation, where information from both inside and outside the organization is widely and systematically collected, easily and quickly accessible and clearly communicated;
- as the relevant literature shows, objectives may actually promote innovation; leaders of the organization should give a clear signal that innovation is highly desirable, by setting ambitious goals in different areas and establishing motivated teams to find ways to implement the vision;
- the support for innovation lies within symbols and rituals, whose main objective is to identify innovative behavior; an incentive for this type of behavior are symbols and rituals, that refer to internal and individualized motivation of individual employees;
- in organizations with high innovation-based effectiveness, innovation is a product of the intended use of practical tools; leaders must consider how to build potential and capability in employees that are aware of methods of creative thinking, management and implementation of ideas;
- a dimension of the relationship, which refers to the models of interaction within the organization; innovative ideas are rarely the product of a lone genius, therefore building a collaborative environment, accepting different ways of thinking, different viewpoints and diversity provide a good basis for the growth of innovation.



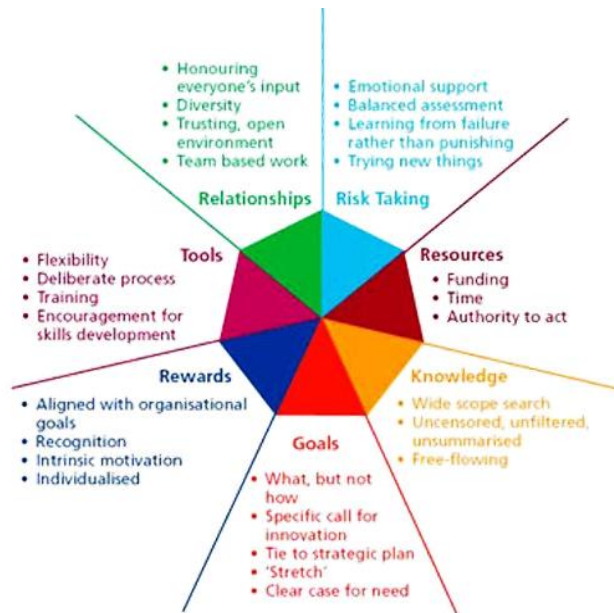


Figure 3. **Dimensions of innovation culture** (Szczepańska-Woszczyzna, 2014)

A strong organizational culture could be a major barrier in implementing change, because if a strategic orientation of the enterprise focuses on innovation, a certain level of non-compliance with individual and organizational values is required (Stacho, 2017).

## Conclusions

There are several conclusions that can be observed in studying the aspects related to the organization culture. As a starting idea we can consider that the added value of an organization is given by its employees and their collective capacity. Vision, strategy, marketing, financial management - any management system, in fact, can be set on the right path and can be achieved after a while. The long-term success of an organization can be achieved only if these values are part of its culture. Nowadays, managers increasingly see the need to harmonize organizational culture with the organization's strategic goals. The culture of any organization is the expression of its functioning as a system, and an innovation culture cannot be artificially graded into a company where anti-innovation rules, regulations, procedures and attitudes prevail. Innovation depends on people, on their ability to generate knowledge and ideas and to apply these to their workplace and society. The development of a culture conducive to innovation is a complex process and is carried out in parallel with the implementation of adequate, open-minded structures and new innovation management tools.

## Bibliography

1. Aouad, G. (2010), *Facilitating innovation in construction*, Construction Innovation, Vol. 10, Nr. 4, pp. 374-394

2. Bodemann, M, Maier D, Sandru M, Weber G. (2015), *Risk Awareness after the Adoption of New Steering Model in German Public Administrations—a Case Study*, *Procedia Economics and Finance* 23, 1046-1053
3. Bolton, R.(2013), HR as a driver for organizational innovation, KPMG International Cooperative
4. Croitoru, A., Schumpeter, J.A., 1934 (2008), *The Theory of Economic Development: An Inquiry into Profits, Capital, Credit, Interest and the Business Cycle*, translated from the German by Redvers Opie, New Brunswick (U.S.A) and London (U.K.): Transaction Publishers. In: *Journal of Comparative Research in Anthropology and Sociology*, 2012, Volume Number 2, p. 137-148
5. Dauber, D. ş.a, (2012)., *A Configuration Model of Organizational Culture*, SAGE Open, 2012
6. Enric Bayó, Xavier Camps (2015), *How to become an innovative company*, ISBN: 978-84-606-5937-2
7. Fiol, C.M. (2011), *Managing Culture as Competitive Resource: An Identity Based View of Sustainable Competitive Advantage*, *Journal of Management*, Vol.17, No.1, 1991, pp. 191.
8. Gandotra, N.K. (2010), *Innovation Culture for sustainable competitive advantage*, *APJRB*, Volume 1, No.2..
9. Hamel, G. (2006), *The why, what and how of management innovation*, *Harvard Business Review*, February 2006, [www.hbrreprints.org](http://www.hbrreprints.org)
10. Lam, A. (2010), *Innovative Organizations: Structure, Learning and Adaptation*, *Innovation Perspectives for the 21st Century*, Madrid: BBVA,2010, p.163-175.
11. Losane L. (2013), *Innovation Culture – Determinant of Firms' Sustainability*, *World Academy of Science, Engineering and Technology, International Journal of Economics and Management Engineering*, Vol:7, No:10, 2013
12. Maher, L. (2014), *Building a culture for innovation: A leadership challenge*, *World Hospitals and Health Services*, Vol. 50, No. 1, pp. 4-6.
13. Maier A., Brad S., Fulea M., Nicoară D., Maier D. (2012), *A proposed innovation management system Framework - A solution for organizations aimed for obtaining performance*, *International Conference on Management, Business, Economics and Finance*, 28-29 November 2012, Paris, France, *World Academy of Science, Engineering and Technology, Special Issue 71, International Journal of Social and Human Sciences*, p. 1581-1585, ISSN 2010- 376X/ ISSN 2010- 3778, 2012
14. Maier A., Brad S., Nicoară D., Maier D. (2013 c), *Business Success through Innovation Management; a Literature Review of Innovation Process Models*, *International Conference on Economics, Business and Marketing Management*, February 27-28, Barcelona, Spain, *World Academy of Science, Engineering and Technology, Special Issue 74, International Journal of Social and Human Sciences*, p. 16-19, ISSN 2010- 376X/ ISSN 2010- 3778, 2013
15. Maier A., Keppler T., Maier D. (2014), *Innovation the new trend in today's challenging economy*, *The 13th International Conference on Informatics in Economy, IE 2014*, 15-18 May 2014, Bucureşti

16. Maier A., Olaru M., Maier D., Marinescu M. (2013 a) *Achieving performance of organization by developing a model of innovation management*, 8th European Conference on Innovation and Entrepreneurship, Sept 19-20 2013, Brussels, Belgium
17. Maier D, Olaru M, Floricel T, Marin G (2014), *Innovative Integrated Management Systems for The Business Continuity Management*, European Conference on Management, Leadership & Governance, 482, VERN Univ Appl Sci, Zagreb, Croatia
18. Maier D, Olaru M, Maier A, Eidenmuller T, (2016 b) - *Importance of Innovation in the Context of Changes Arising from Economic Globalization*, 27th International Business Information Management Association Conference, Milan, Italy, May 04-05, 2016
19. Maier D, Verjel, A, Bercovici A, Maier A, (2017 a) - *Innovation Management System - a Necessity for Business Performance*, 29th International-Business-Information-Management-Association Conference, Vienna, Austria, May 03-04, 2017
20. Maier D., Irmer S.I., Astrid F., Maier A. (2017 c) - Development and operationalization of a model of innovation management system as part of an integrated quality-environment-safety system, *Amfiteatru Economic*, Volume: 19 Issue: 44 Pages: 302-314
21. Maier D., Maftei M., Kepler T., Maier A. (2016 b) - *Study on the organizational resistance to innovation*, International Business Information Management Association (IBIMA) 27th IBIMA Conference 4 – 5 May 2016
22. Maier D., Maier A., Keppler T., Eidenmüller T., Vadastreanu A. M. (2015 a) - *Innovation as a part of an existing integrated management system*, 4nd World Conference on Business, Economics and Management–BEM 2015, April 30 – May 02, 2015, Kusasasi, Turkey
23. Maier D., Olaru M., Maier A. (2013 a), *Integrating concepts of innovation and creativity - a key to excellence in business*, 8th European Conference on Innovation and Entrepreneurship, Sept 19-20, 2013, Brussels, Belgium
24. Maier D., Olaru M., Maier A., Eidenmüller T.(2016 a) *Importance of innovation in the context of changes arising from economic globalization*, 27th International Business Information Management Association IBIMA Conference 4 – 5 May 2016
25. Maier D., Olaru M., Weber G., Maier A. (2014), *Business Success by Understanding the Process of Innovation*, Proceedings of the 9th European Conference on Innovation and Entrepreneurship (ECIE 2014), Location Belfast, Ireland, Pages: 534-538
26. Maier, D, Sven-Joachim, I, Ceausu, R, Gavril, R, Maier A. (2017 b) - *Human Resource Management and Innovation Performance in Organizations*, 29th International-Business-Information-Management-Association Conference, Vienna, Austria, May 03-04, 2017
27. Maier, D., Maftei M, Keppler T, Maier A (2016 b)- *Study on the Organizational Resistance to Innovation*, 27th International Business Information Management Association Conference, Milan, Italy, May 04-05, 2016
28. McLean, L.D. (2005), *Organizational Culture's Influence on Creativity and innovation: a review of the literature and Implications for Human Resource Development*, Advances in Developing Human Resources, Vol.7, No.2, Saga Publications.
29. O'Donnell, O., Boyle, R.(2008), *Understanding and Managing Organizational Culture*, Institute of Public Administration, Dublin, Ireland

30. Olaru M., Hohan A., Maier A., Maier D. (2013 a) – Metrics for innovation of product – the basis for continuous improvement of an organization, *Science Journal of Business and Management*, Vol. 1, nr 1, p. 26-30, SUA
31. Olaru M., Maier D., Maier A., Bodemann M., (2014)- *Integrated management systems, key factor for the sustainable development of an organization*, The 13th International Conference on Informatics in Economy, IE 2014, 15-18 May 2014, București, România
32. Olaru M., Maier D., Maier A., Nicoară D., (2013 b) *Establishing the basis for the development of an organization by adopting the integrated management systems: comparative study of various models and concepts of integration*, 2nd World Conference on Business, Economics and Management–BEM 2013, April 25 – 28 2013, Antalya, Turkey
33. Olaru, M, Schmid, J, Sarbu, A, Maier, D. (2016), *A Study of the Impact of Investments in Economic Value of the Firm in International Competition*, BASIQ International Conference - New Trends in Sustainable Business and Consumption, Konstanz, GERMANY
34. Paradis, Z.J., McGaw, D. (2010), *Naked Innovation*, IT Institute Design
35. Popescu M. (2016), *Managementul inovării*, Editura Universitii Transilvania din Brasov, ISBN 978- 606-19-0759-5
36. Bates R, Khasawneh S. (2005), *Organizational learning culture, learning transfer climate and perceived innovation in Jordanian organizations*, International Journal of Training and Development 9:2, ISSN 1360-3736
37. Sandru, M. Keppler, T. Maier, D. Keppler, S. (2014), *Integrated Investment Management Structure. Associated Risks Mitigation Tools*, International Conference on Production Research - Regional Conference Africa, Europe and the Middle East (ICPR-AEM) / 3rd International Conference on Quality and Innovation in Engineering and Management (QIEM), Cluj Napoca, Romania
38. Stacho Z., Potkány M., Stachová K., Marcinek K.(2017), *The organizational culture as a support of innovation processes' management: a case study*, International Journal for Quality Research 10(4) 769–784, ISSN 1800-6450, 769
39. Sternberg, R.J.(1999), *Handbook of creativity*, Cambridge University Press, 1999, p. 493.
40. Szczepańska-Woszczyna K. (2014), *The importance of organizational culture for innovation in the company*, Forum Scientiae Oeconomia Volume 2, No. 3
41. Terréi O., E. (2002), *Guide for Managing Innovation*, Department of Industry, Trade and Tourism
42. Vadastreanu A.M., Bot A., Maier D., Maier A. (2015 a)– *Innovation the new challenge of today's entrepreneurship*, Science Journal of Business and Management, Science Publishing Group, New York, USA, 2015, ISSN: 2331-0634
43. Vadastreanu A.M., Maier D., Maier A. (2015 b) – *Business success by improving the innovation management*, The 14 the International Conference on Informatics in Economy International Conference on Informatics in Economy, Education, Research & Business Technologies, April 25 -28 2015, Bucharest, Romania
44. \*\*\*, (2005), *OSLO Manual, Guidelines for Collecting and Interpreting Innovation Data*, The 3rd Edition