

Lean Management Process of Sharing Roles and Responsibilities

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Abstract

Industries and manufacturing companies around the world are successfully implementing lean principles into their processes. Today, lean has become an indispensable part of global players. Recently, lean manufacturing has overtaken the automotive industry and has conquered almost all relevant sectors around the world. Insurance companies, hospitals, and even government organizations are continually improving their processes using lean manufacturing principles. In the recent world, safety and standardization are very important parameters to increase the production of the product in any industry, regardless of its size. After globalization and liberalization, quality has emerged as the most critical and crucial area of concern, along with the productivity of production organizations. With the reduction of various barriers and the pressure of competition in this difficult global market, operational efficiency has become a necessity for organizations.

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Industries and manufacturing companies around the world are successfully implementing lean principles into their processes. Today, lean has become an indispensable part of global players. Recently, lean manufacturing has overtaken the automotive industry and has conquered almost all relevant sectors around the world. Insurance companies, hospitals, and even government organizations are continually improving their processes using lean manufacturing principles. In the recent world, safety and standardization are very important parameters to increase the production of the product in any industry, regardless of its size. After globalization and liberalization, quality has emerged as the most critical and crucial area of concern, along with the productivity of production organizations. With the reduction of various barriers and the pressure of competition in this difficult global market, operational efficiency has become a necessity for organizations.

Keywords: Lean Management System

Introduction

Idea of community of practice rightly attracted continued attention over the past 20 years[1-4]. A community of practice is a group of individuals sharing an interest common and exchanging their knowledge with each other and their skills in a creative way in order to increase the effectiveness of organizations[5-7]. Such communities are sometimes virtual or real, multinational or localized, large or small, lasting or ephemeral[8, 9]. They also gather well, for example, the developers of free software – thousands of individuals on all continents – than a small group of workers in a given factory seeking to improve the productivity of a

process or equipment[10]. Most communities of practice are informal groupings, and it is in this spirit that we seek to determine the contributions of the formal hierarchy, on the one hand, and employees with precise and localized knowledge, on the other, in the establishment of communities created with the aim of accomplishing the (sometimes divergent) wishes of the each other. Indeed, despite the obvious importance of communities of practice, too few studies have sought to answer the question[5, 11]. following question: how to share the roles and responsibilities in terms of steering the communities? This article offers answers on this subject. More specifically, this text summarizes the characteristics of a community of practice[12]. Then, he presents two communities that took place in IBM, in Canada, and GDF Suez, in Europe, emphasizing the sharing of roles and responsibilities. Finally, we recommend roles for three major actors: the sponsors or the hierarchy, the animators as well as the participating members and technicians[6, 13].

Related Work

It is important to situate the type of community of practice which we are dealing with in this article, either communities “intentional” or “driven”, i.e. formally instituted by organizations¹ , which is generally opposed to “spontaneous” communities, which emerge without organizational intervention[14-16]. A growing literature richer, supported by many cases, unfolds around of these piloted communities.[17, 18]

the World Bank⁵, Clarica⁶, Altran⁷ or the Council of Europe⁸ used them to promote the establishment of best practices[19]. This article, by analyzing two

cases of large companies, suggests an analysis model aimed mainly to delimit the sharing of roles and responsibilities of different actors with regard to the management of communities of practice[1, 20, 21].

Piloted communities of practice are distinct from spontaneous communities in that they do not create necessarily mechanisms for sharing roles and responsibilities; they are initially dependent on the will senior management, which alone has the legitimacy and the ability to put these mechanisms in place[22-25]. It therefore comes down to both members and management representatives to ensure a simultaneous articulation of different forms of knowledge. Paradoxically, the community of practice is an emerging phenomenon, which must be situated in relation to the organization that seeks to promote emergence. To achieve this, the hierarchy must meet two criteria. First, she must authorize and facilitate the setting up of sharing spaces knowledge. Each space (real or virtual) must be thought out with a view to the precise ends that each of the dimensions of knowledge calls[26]. Next, senior management should avoid succumbing to what call the "temptation of hierarchy": he must accept that the formal organization cannot know everything or decide everything, maintaining a reasonable distance from the community of practice[21, 27, 28]. This antinomy between a positive hierarchical affirmation that creates spaces for sharing and the role limited by the direction constrained by the imperative of freedom implied by these same spaces does not mean that these movements are irreconcilable[29, 30].

Conclusion:

The reciprocal movement of roles and the evolution of community of practice is that of a balance that seeks to find a balance between the various weights of the stakeholders that are the sponsor, the animator and the participating member. To the extent that the piloted communities seek to reproduce certain characteristic traits of spontaneous communities, and where, in doing so, they seek bring out practices, knowledge and skills grassroots ideas (whether about the lean management community or about the community of practice itself, like at GDF Suez), they must be able to structure itself spontaneously, i.e. sheltered from overly directive interventions by management. However, the absence of support of the latter, essential to the legitimacy, good operation and advancement of the community of practice, marks the roles of sponsors and facilitators of a ambivalence that forces them to constantly reflect on the stage of development of the community they lead, and on its basic needs in terms of support, tools, time and delegation. Although brief, is intended to provide a simple visual tool for managers seeking to increase the cognitive effectiveness of their organization by establishing such driven communities of practice.

References:

- [1] D. Paiuc "Cultural Intelligence as a Main Competency for Multinational Leadership and Global Management," *STRATEGICA*, p. 1079.
- [2] S. Vincent, "Trustworthy artificial intelligence (AI) in education: Promises and challenges," 2020.
- [3] M. Rusch, J. P. Schöggel, and R. J. Baumgartner, "Application of digital technologies for sustainable product management in a circular economy: A review," *Business Strategy and the Environment*, 2022.

- [4] M. Heydari, K. K. Lai, and Z. Xiaohu, *Risk Management in Public-Private Partnerships*. Routledge, 2020.
- [5] S. Verma, R. Sharma, S. Deb, and D. Maitra, "Artificial intelligence in marketing: Systematic review and future research direction," *International Journal of Information Management Data Insights*, vol. 1, no. 1, p. 100002, 2021.
- [6] I. Foster, J. Vockler, M. Wilde, and Y. Zhao, "Chimera: A virtual data system for representing, querying, and automating data derivation," in *Scientific and Statistical Database Management, 2002. Proceedings. 14th International Conference on*, 2002: IEEE, pp. 37-46.
- [7] J. Frey, T. Tannenbaum, M. Livny, I. Foster, and S. Tuecke, "Condor-G: A computation management agent for multi-institutional grids," *Cluster Computing*, vol. 5, no. 3, pp. 237-246, 2002.
- [8] I. R. a. Kelley, "Data management in dynamic distributed computing environments," Thesis (Ph.D.), Cardiff University, 2012. [Online]. Available: <http://orca.cf.ac.uk/44477/>
- [9] M. Ghose, A. K. Dikshit, and S. Sharma, "A GIS based transportation model for solid waste disposal–A case study on Asansol municipality," *Waste management*, vol. 26, no. 11, pp. 1287-1293, 2006.
- [10] S. Keshavarz, M. Heydari, and H. Farsijani, "The strategic factors of knowledge management success in achieving organizational agility on the model (APQC)(Case study: automotive-related companies)," *European Online Journal of Natural and Social Sciences: Proceedings*, vol. 4, no. 1 (s), pp. pp. 2309-2319, 2015.
- [11] E. Rokicka and W. Woźniak, "Towards sustainable development. Concepts, interpretations, contexts," *Department of General Sociology, Faculty of Economics and Sociology.–Łódź*, p. 229, 2016.
- [12] V. Benuyenah, "Can the concept of “lean management” be applied to academic recruitment?–a quasi-theoretical discourse," *Rajagiri Management Journal*, 2021.
- [13] K. AbuAlnaaj, V. Ahmed, and S. Saboor, "A strategic framework for smart campus," in *Proceedings of the International Conference on Industrial Engineering and Operations Management*, 2020, pp. 790-798.
- [14] B. Huber, H. V. Shin, B. Russell, O. Wang, and G. J. Mysore, "B-Script: Transcript-based B-roll Video Editing with Recommendations," in *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems*, 2019, pp. 1-11.

- [15] T. Jenkins and I. Bogost, "Designing for the internet of things: prototyping material interactions," in *CHI'14 Extended Abstracts on Human Factors in Computing Systems*, 2014: ACM, pp. 731-740.
- [16] K. VanLehn, "The relative effectiveness of human tutoring, intelligent tutoring systems, and other tutoring systems," *Educational Psychologist*, vol. 46, no. 4, pp. 197-221, 2011.
- [17] N. David *et al.*, "Modelling social-technical attacks with timed automata," in *Proceedings of the 7th acm ccs international workshop on managing insider security threats*, 2015, pp. 21-28.
- [18] S. R. A. Nezami, "A critical study of comprehension strategies and general problems in reading skill faced by Arab EFL learners with special reference to Najran University in Saudi Arabia," *International Journal of Social Sciences & Education*, vol. 2, no. 3, 2012.
- [19] V. Benuyenah, "Conflict Barometer: An investigation into cross-cultural conflict and its effect on performance," *International Journal of Business and Globalisation*, 2021.
- [20] J. C. Newman and R. Oak, "Artificial Intelligence: Ethics in Practice," *login Usenix Mag.*, vol. 45, no. 1, 2020.
- [21] A. Squicciarini, S. Sundareswaran, and D. Lin, "Preventing information leakage from indexing in the cloud," in *Cloud Computing (CLOUD), 2010 IEEE 3rd International Conference on*, 2010: IEEE, pp. 188-195.
- [22] M. Du, Z. Chen, C. Liu, R. Oak, and D. Song, "Lifelong anomaly detection through unlearning," in *Proceedings of the 2019 ACM SIGSAC Conference on Computer and Communications Security*, 2019, pp. 1283-1297.
- [23] A. Marchais-Roubelat and F. Roubelat, "The Delphi method as a ritual: Inquiring the Delphic Oracle," *Technological Forecasting and Social Change*, vol. 78, no. 9, pp. 1491-1499, 2011.
- [24] A. Alarfaj and Y. Alshumaimeri, "The effect of a suggested training program on reading speed and comprehension of Saudi female university students," *Procedia-Social and Behavioral Sciences*, vol. 31, pp. 612-628, 2012.
- [25] A. O. Kwok and S. G. Koh, "Deepfake: a social construction of technology perspective," *Current Issues in Tourism*, vol. 24, no. 13, pp. 1798-1802, 2021.
- [26] V. Benuyenah, "Gender-Based Conflict in Cross-Cultural Entrepreneurship Ventures: Crafting an Inclusive Research Framework," in *ICGR 2021 4th International Conference on Gender Research*, 2021: Academic Conferences Inter Ltd, p. 65.

- [27] M. Heydari, Z. Xiaohu, M. Saeidi, K. K. Lai, Y. Shang, and Z. Yuxi, "Analysis of the role of social support-cognitive psychology and emotional process approach," *European Journal of Translational Myology*, vol. 30, no. 3, 2020.
- [28] M. Heydari, K. K. Lai, and X. Zhou, "Creating sustainable order fulfillment processes through managing the risk: evidence from the disposable products industry," *Sustainability*, vol. 12, no. 7, p. 2871, 2020.
- [29] V. Benuyenah, "Conflict perspectives in international business organisations: The changing trends and its management," *Manag. Leadersh. Gov*, p. 417, 2013.
- [30] H. Rasheed, "Data and infrastructure security auditing in cloud computing environments," *International Journal of Information Management*, vol. 34, no. 3, pp. 364-368, 2014.