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Toyota Quality System case study

Introduction

Toyota from the early 1960s alongside their supplier network consolidated the way in which they were able to refine their production system through the introduction of specific quality improvement methodologies (Cole, 2011) e.g. the Toyota Production System (TPS). The TPS changed the way the automotive industry produced vehicles i.e. the industry had moved from a craft model to mass production and with TPS there was a move from the principles of mass to lean production (Andrews et al., 2011). These specific methodologies paved the way for the development of a total quality system that provided the foundation for the Six Sigma methodology (Cole, 2011). Additionally, the clear correlation between quality, customer satisfaction and profit led Toyota, over time, to make quality a key business driver and therefore an integral part of their strategy, their organisational design and their production system (Heller and Darling, 2011; Liker, 2004).

Nonetheless, from September 2009, Toyota began to recall millions of vehicles over an extended period due to a series of issues. These recalls began in the US after a fatal accident caused by a design flaw in a Toyota vehicle which subsequently received widespread negative media coverage (Cole, 2011). As a result, the reputation of Toyota vehicles, as the best in class in terms of quality, was negatively affected (Fan et al., 2013) with public perception showing a drop from first to 20<sup>th</sup> out of 28 brands in the space of six months after the fatal crash (Tsikoudakis, 2011).

This report will look at the causes of this significant decline and impact on the Toyota brand in more detail as well as how well Toyota managed the problem both internally and externally. Additionally, recommendations will be suggested as to how Toyota could have better prepared themselves or avoided to a certain degree the crisis. Finally, the lessons that other automotive companies can learn from the Toyota case study will be shared.

What went wrong with the Toyota way?

As mentioned above, the TPS was a move away from the principles of mass production i.e. an environment where parts were interchangeable and with an emphasis on the assembly line, to one of lean production where the emphasis was put on reduced variability within the production process. This change in focus therefore, reduced the time required to produce a unit and increased the control over quality at each stage (Andrews et al., 2011). This change of focus was complemented by empowering the employees to make certain decisions as well building up strategic partnerships with suppliers (Cole, 2011).

In order to better understand and provide a context as to what went wrong at Toyota, it is important to understand the fourteen Business Principles of Toyota (BPTs) (Liker, 2004). The fourteen BPTs are 1) adopt a long-term philosophy, 2) have a continuous process flow, 3) create a system that pulls work to avoid too much inventory, 4) create an environment where the workload is manageable and consistent (Heijunka), 5) implement a quality first system, 6) standardise tasks, 7) make sure all controls are visible, 8) only use tried and tested systems and technology, 9) invest in your people to grow leaders, 10) develop those people into exceptional leaders, 11) respect partners and help them to grow, 12) experience situations to understand them (Genchi Genbutsu), 13) foster a culture of calculated and negotiated



**CONTINUOUS IMPROVEMENT**

Toyota's continuous improvement system is a key element of its success. It is a process of making small, incremental changes to improve the quality of products and services. This is done by encouraging employees to identify and solve problems on the shop floor. The process is supported by a system of standardization, which ensures that all workers are following the same procedures. This allows for easy identification of deviations and the implementation of corrective actions. The result is a culture of continuous improvement that has led to Toyota's reputation for high-quality products.

Expeditors

Camuffo and Wilhelm *Journal of Organization Design* (2016) 5:4  
DOI 10.1186/s41469-016-0006-6

Journal of Organization Design  
a SpringerOpen Journal

CASE STUDY

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# Complementarities and organizational (Mis)fit: a retrospective analysis of the Toyota recall crisis

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Abstract

During the past six decades, the Toyota Motor Company established a 'lean' production and management system (the Toyota Way), which has become an iconic template for a high performing and learning organization. The massive recall crisis of 2009/2010 distorted Toyota's image of a role model for a lean organization heavily. This case study analyzes retrospectively how the carmaker deviated from their original organizational configuration that was distinctive for its lean management system. We illustrate how managerial decisions geared towards extensive growth and globalization distorted complementarities among central elements of the Toyota Way, and ultimately caused organizational misfit. Whereas most of the literature on complementarities and organizational fit has emphasized processes of adaptation and evolution toward internal fit or misfit that are triggered by exogenous environmental changes, our case study of Toyota shows that external misfit can also be the unintended consequence of deliberate changes in the firm's system of interdependent choices.

**Keywords:** Toyota, Lean production, Organizational complementarities, External and internal misfit

Background

In 2009 Toyota found itself in the deepest and most dramatic crisis of its history that culminated in a recall of over 9 million cars worldwide, including 5.3 million cars in its most important North American market, due to burgeoning quality problems that involved most of its product line-up. Before the crisis, Toyota has been the unchallenged leader of international automobile quality rankings for decades. The outstanding reputation for quality was grounded in the Japanese carmaker's renowned production and management system, also known as the Toyota Way and became world famous as *lean production*. This system was extensively studied, documented through various academic and management publications and copied within and beyond the automobile industry. The dramatic recall wave of 2009–2010, however, shed a new light on Toyota's evolution: What went wrong? What were the root causes of those recalls? Could they be anticipated?

This study sets out to investigate the root causes of the Toyota crisis starting from the conceptualization of the Toyota Way as a system of interconnected organizational

# New trends in Flexible Manufacturing technologies: A Case study of Toyota's Lean Manufacturing System

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**Abstract:** Flexible Manufacturing system and design is an emerging area in management of technology across Organizations and Business in the manufacturing and services sector, addressing the need of the industry on Flexible Manufacturing for the Micro Small and Medium Enterprises to meet their strategic objectives and apply business process management approach to implement this emerging technology. An overview is provided of different types of new manufacturing technologies which are flexible in their domain and impacts Business value creation. Toyota's lean manufacturing case study substantiates this paper.

**Keywords:** Flexible Manufacturing system, Management of technology.

## 1. Introduction

### Lean Manufacturing: What the industries require

Today when we talk about manufacturing we are not just limited to final products/ goods which would be produced but our boundaries to understand the term Manufacturing has increased by many folds. Although the final product out of the manufacturing procedure is what we require but, we have started to lay emphasis on the related aspects of manufacturing with which we can ensure effectiveness and efficiency. And with the advent of this scenario traditional manufacturing practices have been left behind and are obsolete now. Gone by the days when Manufacturing Procedures were known only for Production, now it has been emerged as the most critical asset to be handled in an organization. Getting right manufacturing technique and practice is only one side of the coin but to explore its capability and tap the areas where savings in terms of both finances and production time can be incurred is of the utmost importance. From mid 1960s, market competition has become much more grim and intense and sustenance of an organization has turned out to be a herculean task keeping in mind the competitors. Earlier, cost was a major concern after which Quality became a priority. Complexity in the market gave rise to speed of delivery. And to ensure speed of delivery with an appropriate level of quality and keeping in mind the cost factor, the only thing which could be improvised was be the manufacturing practice. This paradigm shift gave rise to practice of Flexible Manufacturing System(FMS) , a manufacturing system in which there is some amount of flexibility to react in the case of changes, whether predicted or unpredicted. (A. de Toni and S. Tonchia) which includes machine flexibility and routing flexibility

## 2. New Trends in Manufacturing System Design - A comparison and Development on the Technological Front

An Industrial Flexible Manufacturing System (FMS) comprises of robots, Computer-controlled Machines, Numerical controlled machines (CNC), instrumentation gadgets, workstations, sensors, and other remain solitary frameworks, for example, review machines. The utilization of robots in the preparation section of assembling businesses guarantees a mixed bag of profits extending from high usage to high volume of productivity. Every Robotic cell or hub will be spotted along a material taking care of framework, for example, a transport or programmed guided vehicle. The processing of each part or work-piece will oblige an alternate blending of assembling hubs. The development of parts starting with one hub then onto the next is carried out through the material taking care of framework. At the end of part handling, the completed parts will be directed to a programmed examination hub, and hence emptied from the Flexible Manufacturing System. Flexible Manufacturing is the total conversion of the traditional Manufacturing Process into a Robot governed/ controlled Mechanism. The development now has also given a new practice of feedback mechanism through the final product which is produced. Executive software's are being used for the exchange of information and messages for Machining Data, instrument to instrument Communication, Status Monitoring, and Data Reporting is transmitted in small size. A Token Bus is a network which administers Token Ring, a local area network (LAN Technology) protocol residing at the Data Link Layer (DLL). It uses a special three bite

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Rewards are categorized into two groups based on their tangible vs. McDonald in Australia. (2006, April 20). The impact of financial and non- financial rewards on employee motivation. Operations Management. (2004). J. Bless. Master Chef Toast Larry W Fish from Raleigh on May 02, 2018. McDonald's has changed their ways a lot in the way they treat their employees. The idea of Man's supremacy on Nature is considered passed and counterproductive, responsible for the uncontrolled development that devastated the ecosystem and got worse many people's living conditions. That is, it takes 1 year and 6 months for our planet to compensate for the resources used in a year (Global Footprint Network). (Ed.). Moreover, an effective award system will improve a company's business environment by rewarding and punishing employees fairly, and eliminating opportunities for shady behaviors (Kumar & Suresh, 2009). Definitions of Rewards and Incentives Author(s) Year Definitions of rewards and incentives Bussin and Van Rooy 2014- The consumption of the value proposition that employers offer to the employee Schlechter, Hung, and Bussin 2014- Monetary incentives (compensation, benefits, performance, and talent management) - Non-financial rewards (development and career opportunities, work/life balance, and social activities in the workplace...) Schneider 2014- Intrinsic and extrinsic rewards Levesque 2014- Intrinsic rewards come from the inside of an individual, his or her innate preferences- Extrinsic rewards come from outside sources, including financial payment or compliment 3.2. The relationship between rewards and business outcomes Human capital is vital to business outcome and managers have long understood that human resource management can enhance a company's efficiency and create value (Schuler & Jackson, 2014). Try to overcome the economic crisis bringing pressure on the environment is not an option since global warming and the resources' scarcity are threatening our existence. McDonald's Current Practice and Evaluation According to McDonald's stated policy, the company's pay and rewards program is based on the employees' performance, or in other words, the better their performance is, the greater their pay opportunities become (Pay & Benefit, n.d.). Specifically, the existence of intrinsic rewards such as recognition, opportunities for growth, challenging tasks, etc. Employees who believe that their efforts are recognized and complimented by the company's executives obtain higher job satisfaction. Bachelor's thesis of Turku University of Applied Sciences. This way, they can evolve their own changes. The results showed that among hourly paid staff, 77 per cent agreed that their pay and benefits are competitive; 80 per cent perceived that they are respected and recognized for their work; and 85 per cent are satisfied with their personal development and growth opportunities. (Corporate Responsibility and Sustainability, 2012). The first part of this thesis deals with the origin and evolution of the Green Industrial Revolution. Management (11th ed.). The power of personal service: Why it matters what makes it possible how it creates competitive advantage. However, if done inappropriately, the managers will trigger jealousy and make other employees feel inferior or embarrassed, thus backfiring the reward's intention (Laakso, 2012). Brown and West (2005) examined customer service organizations and found a strong connection between reward practices such as variable pay and recognition and the level of employee engagement and customer service performance. Journal of Organizational Effectiveness: People and Performance, 33-55. Sweeney, M. On the other hand, extrinsic rewards such as salaries, office space, cash bonus, etc. Strategic management in the hospitality industry. This is confirmed and highlighted by the scientific research and by concepts like the "ecological footprint", according to which we are currently using resources to an equal extent of 1.6 Earths, both for production purposes and to absorb our waste. Fast Food Services in Australia. For example, Laakso (2012) makes the case that if the managers know how to appropriately give recognition to an employee in front of other employees, they not only motivate and boost that employee's ego and performance but also convey their supports for that type of behavior and inspire other employees to follow suit. The company attributed its success to its efforts to innovate and tailor its products to serve increasingly diverse demands of customers with initiatives such as Create your Taste, The Corner, all-day and gourmet breakfasts at selected stores, etc. (2003). Beliefs about fast food in Australia: A qualitative analysis. Innovation, Organizational Capabilities, and the Born-Global Firms. The concepts of Green Economy and Green Industrial Revolution started to become popular, representing an economy that wants to integrate with nature. The company also implements a car program which allows employees to use a company car for free or at a discounted rate. If they sense injustice, they might cease to make further efforts in the future (Noe, Hollenbeck, Gerhart, & Wright, 2016). Fundamentals of Human Resource Management. can help the company to attract employees but cannot keep them for a long time, leading to high turnover rates (Chijoke & Chinedu, 2015). 4. New York: McGraw-Hill Education. Olsen, M. Cambridge J Econ. Knight, G., & Cavusgil, S. These include the Presidents' Award and the Circle of Excellence Award (Total Compensation, n.d.). Although often associated with the image of a typical low skill/low pay environment, McDonald's has tried to improve its work environment and change that impression. (2008). Cornell Hospitality Industry Perspectives, 6-13. Thomas, D. The main goal of the economic activity is to raise profits; continuous production often entails the use of non-renewable resources and implicates the creation of wastes that pollute the natural environment. (1998). Having a clear and objective framework of the current situation turns out to be fundamental in order to carry out effective actions to this end. According to a report by IBIS World, this industry's revenue is forecast to achieve an annualized growth rate of 3.9% over the five years through 2016-17, to reach \$19.3 billion (Fast Food Services in Australia, 2017). In Australia, in 2015, McDonald was the leading fast food brand, followed by Subway Systems Australia. The company also hired Professor Adrian Furnham to carry out a survey among McDonald's employees in all corporation about their perceptions on the company's reward and employment practices. The attention toward issues linked to the exploitation of global energetic resources has considerably increased in the last decades, considering both the related individual concerns and that of the governments all around the world regarding sustainable development. D., Ching-Yick Tse, E., & West, J. In the case of McDonald's, the company utilizes both monetary and non-monetary incentives to motivate its workers and increase its profitability. Retrieved May 2017, from 2012). As for non-monetary incentives, McDonald's runs several recognition programs to show gratitude and compliment excellent performers. While the extrinsic incentives can give an immediate boost to employees' accomplishment, the intrinsic incentives are also very crucial since they can positively improve the company's work environment and employees' work ethics (Foss & Laursen, 2003). As customers place higher emphasis on their time and the quality of their experience, service has become the new important criteria when consumers decide on the choice of restaurants (Talbot, 2006). 3. Human resource management and organizational effectiveness: yesterday and today. This insight creates serious worries about the way we can safeguard natural resources so that we can have them still available in the future, both for our and the following generations. McDonald's current reward and incentive strategy is then discussed and evaluated. Euronmonitor International. (2017). (2006, June 13). The thesis ends with final conclusions: the author thinks that will be necessary a joint effort of all the social parts (companies, institutions, consumers) in order... The writer has a Master's Degree in Economics. However, if you watch the movie, Founder, you will see how McDonald's started and how the McDonald brothers were treated so badly and actually pushed out of the business that was started because of them. Mary Norton from Ontario, Canada on April 27, 2018. This is a good study. Nonetheless, there is no one-size-fits-all key to success in terms of prescribing the right scheme for the practice of people management; in fact, different companies design their own policy, and even within the same company, each department can implement their own technique (Schuler & Jackson, 1987). She enjoys researching and writing about economic and business issues. 1. Introduction Human resource management is an indispensable aspect of business management, and an organization will incur a boost in productivity and efficiency if it can bring into line its human resource management strategy, business strategy and the overall corporate level strategy (Schuler & Jackson, 2014). Content is for informational or entertainment purposes only and does not substitute for personal counsel or professional advice in business, financial, legal, or technical matters. Thomas Mphahlele on April 16, 2020. Conclusive and informative article. In particular, the employees responded very considerably to such non-monetary incentives as recognition, career advancement, and learning opportunities, as well as monetary incentives including pay, bonuses, and benefits (Edirisooriya, 2014). Not bad for a McJob? Australia had more than 905 McDonald's restaurants, comparable with the US in terms of the number of McDonald's restaurants per capita, employing more than 90,000 people. (2009). (n.d.). Actually, the technology at the base of the Hybrid Synergy Drive (HSD) engine represents the most innovative aspect of the Japanese company. McDonald's base pay is comparable with other companies' rates for employees doing similar types of job and it is commensurate to the particular employee's experience, skills, and performance over time. McDonald's to boost basic skills of staff. (2015). Nonetheless, since the company's main business strategy is effective cost leadership, and one of its main competitive edges is the lower product price compared to other companies, the success of these incentives might be quite limited. Conclusion It is argued that the reward system undoubtedly has significant impacts on employees' performance and hence the business's success. Hence, in the long term, the company and its employee can also benefit from other employee-friendly HR policies and practices such as human resource automation, innovation, on-the-job training and development, and organisational culture development. References Barney, J., & Wright, P. As you said, incentives have different effects on individual employees and the type of company as well. Literature review 3.1. Definitions of rewards and incentives Bussin and Van Rooy (2014) describe total rewards as the consumption of the value proposition that employers offer to the employee. Although money has always been regarded as one of the most effective motivators and a way to bring an expected outcome almost immediately, non-financial rewards can also be a powerful tool to improve employee's morale and performance. CSR represents a clear demonstration of the aim of small, medium and great companies to effectively manage the issues of the social and ethical impact of their activities, on their inside and in the areas where such activities spread their effects. It is argued that the rewards and incentives system, both intrinsic and extrinsic has positive impacts on employees' performance and business results for businesses in general and McDonald's in particular. Beliefs and perceptions regarding the consumption and health risks of fast food have also been altered (Dunn, Mohr, Wilson, & Wittert, 2008). To be more specific, companies can utilize different methods to monitor and manage the performance of employees in different positions and from different educational and racial backgrounds. Broadly speaking, the awareness about the necessity to preserve the environment of our planet replaced an abuse tendency that has been dominating the economy for a long time. A literature review of the use of financial and non-financial rewards, and the relationship between reward, motivation and business outcome follows. Corporate Responsibility and Sustainability. Retrieved from The Guardian: B. improve the performance of employees and can sustain it over time. Levesque, R. Impact of Rewards on Employee Performance: With Special Reference to ElectriCo. International Conference on Management and Economics. (2016). This essay starts by providing an overview of the fast food industry and McDonald's in Australia. In addition, total rewards can be divided into financial and non-financial rewards. If employees suspect that their performances are assessed based on unfair judgement because of personal favorites, race, gender, etc. they will be discouraged. People have realized the existing connection between business activity and the discharge of harmful substances (in the air, in the water, in the land), then there is a need to set the limit to these practices so that it will be possible to slow down and invert this self-destructive phenomenon. (2006). According to the 12th edition of the Global Risks Report, published by the World Economic Forum ahead of the Forum's 2017 Meeting, the failure of climate change mitigation and adaptation is linked to man-made environmental disasters and both are likely to occur with a very strong impact (World Economic Forum, 2017). Managing across cultures - Human Resource Management. Chijoke, N., & Chinedu, E. Intrinsic rewards are those that come from the inside of an individual, his or her innate preferences or liking towards a specific activity, enabling him or her to gain pleasure from doing and completing the activity. Chijoke and Chinedu (2015) also found a connection between rewards and employee performance. The company also offers short-term financial incentives, which entitle the employees to a certain amount of cash payment on a yearly basis based on their performance and the business's profitability. Satisfied employees have a greater tendency to stick around and contribute more to the organisation. A study by Edirisooriya (2014) investigating how employee rewards influence employee performance in ElectriCo, a state-owned enterprise in Sri Lanka confirmed a positive relationship between extrinsic rewards and intrinsic rewards and the performance of the company's employees. Extrinsic rewards, on the other hand, come from outside sources, including motivating factors such as financial payment or compliments (Levesque, 2014). In order to encourage and motivate employees, the leaders or executive managers of the organization also need to establish a fair and objective performance measurement system. Pearson Education, Inc. Schneider, S. At the company, employees are offered a base pay, which is the fixed amount of cash compensation in exchange for their work. New human resource management practices, complementarities and the impact on innovation performance. Appetite, 51(2), 331-334. Edirisooriya, W. Pearson Education Limited. Schuler, & Jackson. Retrieved May 2017, from McDonald's Corporation Website: & Rewards. (2012). IBISWorld. Foss, N., & Laursen, K. Moreover, the Evolving Risks Landscape of the last ten years clearly shows how the attention to environmental risks has significantly risen from 2011 (World Economic Forum, 2017). Their empirical research also highlighted that intrinsic and extrinsic rewards have different impacts on employee performance. This new way of thinking may be the solution to a peaceful coexistence between our kind, our development model and the rest of the planet, which until now has been considered accessory. Nonetheless, other human resource practices are also beneficial for the company. 2. Overview of McDonald's in Australia With the change in Australian people's lifestyles, particularly dining habits, and new job requirements, the fast food industry in Australia has expanded rapidly since the end of the 20th century (Lyons, 1999). The automotive industry represents a consistent part of the worldwide industry and Toyota was one of the first companies to invest in the field of electric vehicles production, with the model Toyota Prius. The majority of its workforce is young people. I think the best is for managers to be more cognizant of what is happening in the company and what motivates their staff. New York: John Wiley and Sons. Pay & Benefit. Then, a consistent part of this thesis deals with the managerial approach to sustainability issues: Energy Management in the first place, intended as the company's ability to ensure, through an energetic system, a production process' execution or to supply a service through the less possible energy amount. Then my aim is to delve deeper into the origins and features of Corporate Social Responsibility (CSR), Intrinsic and Extrinsic Motivation. (2014). In the very next future, Toyota's plan is to replace on the market all its fuel-based vehicles with this new kind of cars. Effect of Rewards on Employee Performance in Organizations: A Study of Selected Commercial Banks in Awka Metropolis . An economy that recognizes the fundamental importance of Nature and does its utmost to preserve it. According to Schlechter, Hung, and Bussin (2014), financial rewards included monetary incentives such as compensation, benefits, performance, and talent management, while non-financial rewards refer to non-monetary incentives such as development and career opportunities, work/life balance, and social activities in the workplace... It has long been believed that financial incentives are highly effective in changing short-term behavior but non-monetary incentives have much more long-lasting effects. It has been hypothesized that people react to various kinds of incentives and stimuli: therefore, rewards and incentives encourage employees to change their current behaviors and work harder to achieve certain targets associated with specific rewards (Schneider, 2014). Retrieved May 2017, from McDonald Corporation: article is accurate and true to the best of the author's knowledge. The survey also revealed that in the McDonald's stores with the most satisfied employees, sales and staff retention rate were also higher (Thomas, 2006). 5. The employees are also offered other benefits such as insurance. Retrieved from Personnel Today: Total Compensation. Journal of International Business Studies, 124-141. Kumar, S., & Suresh, N. Fast Food in Australia. The economic dimension is closely affected by these concerns, being undeniable the strict link between production processes and available resources: the business activity corresponds to a resources' transformation process, among which energy and raw materials, leading to goods and services to be put on the market (Baranzini Marangoni Solari, 2006). (2016). It will provide the customer with transportation means that ensure consistent energy and cost savings and, at the same time, almost the same performance features of a gasoline-powered model. As competition in the food industry is on the rise and customers have also become more selective with their food choice, paying much more attention to the nutritional values and convenience (Fast Food in Australia, 2016), McDonald's is required to offer suitable reward and performance enhancement incentives to improve the quality of its workforce, which in turn can help to improve the quality of customer services and efficiency. Individuals will also compare the rewards they have received against the rewards of those with similar efforts, and against the inputs they have contributed to the company. Retrieved from 26S OurBusiness.pdfDunn, Mohr, Wilson, & Wittert. For example, during the company's recruitment advertising campaigns, such as 'Not bad for a McJob', the company designed an attractive reward system for its employees, emphasizing the use of both financial and non-financial incentives including flexible working hours for parents, higher pay, health benefits, promotion, and opportunities for personal advancement (Sweeney, 2006). European Journal of Business and Management, 7(4), 2222-2839. Among different methods to motivate employees and enhance business competence, reward and incentive systems are often utilized by business managers to achieve their corporate goals of raising the company's profits. McDonald's in Australia faces challenges in implementing its reward and incentive system due to limited financial resources and its business strategy of cost-effective leadership, aiming to lower its operating costs to remain competitive. The fast food industry, which serves foods such as burgers, pizza, sandwiches, salads, juices, desserts and confectionery, is characterized by a low level of capital, and labor costs constitute the majority of daily operating costs. On becoming a strategic partner: The role of human resources in gaining competitive advantage. In the final chapter of the thesis a case study is analysed: that of Toyota and the hybrid vehicle, intangible natures and the source of the rewards: intrinsic or extrinsic. Retrieved May 2017, from S., & Coulter, M. In terms of long-term incentives, McDonald's gives stock to employees who satisfy the company's criteria to make them become more personally responsible for McDonald's productivity and financial performance and more engaged with the company's business activities. New Delhi: New Age International (P) Ltd., Publishers. Laakso, L. Therefore, decisions such as how much to pay, how to measure performance, and which rewards and punishment schemes should be used are crucial in overall strategic business scheme. Springer New York. Noe, R., Hollenbeck, J., Gerhart, B., & Wright, P.

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