

**A STUDY ON KNOWLEDGE MANAGEMENT AND ORGANIZATIONAL
DEVELOPMENT IN MACAU**

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ABSTRACT

The objective of this particular research would be to figure out the result expertise administration, company superiority, company studying plus company development upon company competition within Macau. To that end, you will find 4 impartial factors that could impact company competition. four hundred forms were utilized for the information evaluation, plus Pearson Relationship in addition to Several Regression research had been carried out to assess the information. Depending on Pearson Relationship Evaluation out of this research, this verified that will efficiency competition plus efficiency understanding possess substantial partnership along with understanding supervision. Nevertheless , efficiency superiority plus efficiency development don't have considerable connection along with information managing.

Key phrases: Understanding Administration, Company Competition, Company Superiority, Company Studying, Company Development, Macau

INTRODUCTION

Understanding administration (hereafter, KM) offers surfaced like a brand new pattern within the supervision books. At the same time, numerous government authorities possess began to get up to some number of hurdles which have pushed these to discover brand new techniques to stay competing (Gunjal, 2019). It has pointed out that this several tasks including KILOMETRES in various authorities applications require effective outcomes. Numerous companies plus government organizations (hereafter, GOs) are usually a new comer to the usage of KILOMETRES jobs (Joshi plus Chawla, 2019). The particular growing understanding of the cost of KILOMETERS like a supply of efficiency competition (OC) provides powered a number of gov departments to find to get rid of obstacles in order to complete understanding utilization in several methods (Phusavat ainsi que ing., 2010). Nevertheless , current research show that will, provided the particular rapid-developing info economic climate, KILOMETER continues to be not really nicely associated with all those suitable actions associated with efficiency development (Lucas, the year 2010; Phusavat ou 's., 2010). This particular research legal documents the main topic of information administration along with Macau GOs. Generally, typically the Macau authorities will be directed simply by secretariats or even committee from your Macau Unique Management Part of the Householder's Republic associated with The far east. Within the gentle from the plan associated with "one nation, 2 techniques, inch Macau, like an unique management part of the PRC, includes a higher level of autonomy. The federal government associated with Macau, monetarily in addition to the CPG, manages the particular Macau matters.

LITERATURE REVIEW

Generally, the information procedure within businesses is usually referred to as understanding administration (KM) which usually furthermore improves the particular effectiveness plus important working associated with companies. Consequently , KILOMETRES could be procedures that assist to produce, arrange, move, discuss plus influence tacit information plus specific expertise towards achievement associated with organizations (Mohajan, 2017).

“Knowledge administration may be the procedure for taking the company’s group experience where ever this exists -- within directories, in writing, or even inside people’s mind -- plus disseminating this in order to where ever it will help create the largest payoff”.

H1: Understanding administration will be favorably related to Efficiency Competition (OC).

Additional might try to remain competing within an atmosphere with good doubt. Competition has ceased to be centered on bodily property plus money yet upon effective channelizing associated with good development plus company existence, where human being funds will be shifting companies in the direction of higher studying possible (Phusavat ainsi que ing., the year 2010; Halawi, 2005). KILOMETRES enhances the capability regarding organizations in order to actually produce brand new know-how and also to assist increase the move expertise which often improves the particular competition involving authorities firms via constant techniques (Bogner plus Bansal, 3 years ago; Raadschelders, 2005). This competition requirements more efficiency capability; this means velocity associated with reaction to require. The particular faster the particular PROCEED works on plus completes a reply, the much more likely they may be to provide worth towards the customer more than their own rivals.

H2: Information administration is usually absolutely connected with Efficiency Superiority (OE).

Efficiency Quality (OE) is described as primary of the company to create a typical group of efficiency components (such because management procedure supervision, client based concentrate, individuals plus strategy) which in turn with each other provide exceptional results (S. Islamic, Ashi, Meters. Reda plus Eliminar, 2017). KILOMETRES is framing OEM endeavours simply by assisting the businesses with the organization regarding trigger plus impact, where the particular successful utilization of experience stimulates guidelines (Castilla in addition to Riuz, 08; Yeh ou 's., 2006). Put up ainsi que

ing. (2010) views that will by means of KILOMETRES applications, OEM like an administration exercise may allow companies to develop and even constantly grow their ability to adjust.

H3: Expertise administration is efficiently related to Efficiency Studying (OL).

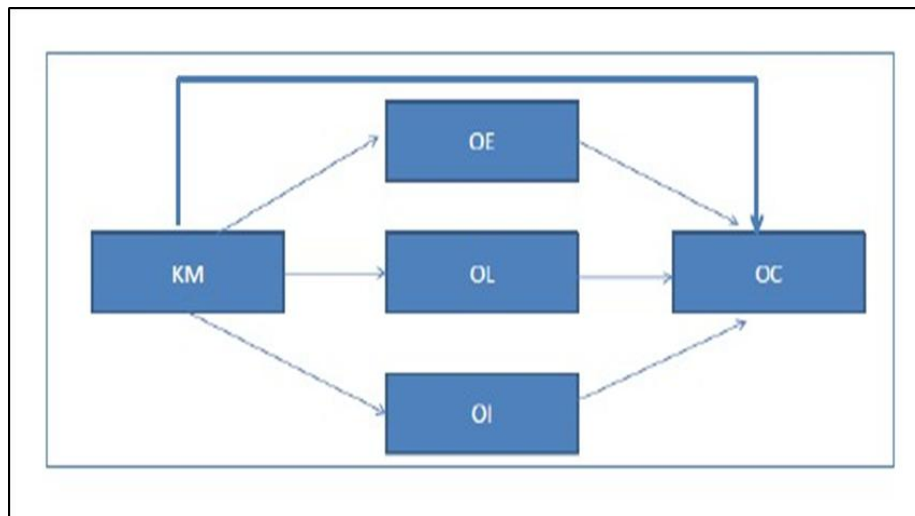
Efficiency understanding (OL) is recognized as like a procedure, that is transformed through amounts of actions, from your person degree with the team and lastly the particular efficiency stage, retaking the very first method, depending on understanding (Antunes plus Pinheiro, 2020). KILOMETRES is contended to possess a part to try out in assisting employees to develop plus make use of information, producing efficient systems, including double mastering plus system operations, cultivating typically the mechanics from the OL period plus dealing with unlearning issues (Hwang, 2013). The particular books shows that will KILOMETERS applications are required to achieve success throughout enhancing studying efficiency capability whenever placed in combination along with efficiency wedding, which includes a setting associated with understanding (Massingham plus Diment this year; Bishop ain 's., 2008) Rawal et. al (2021), Poongodi M et. al(2022), Poongodi M et. al (2021), Dhiman P et.al (2022), Sahoo S.K et.al (2022), K.A et. al(2022) , Dhanraj R.K et. al (2020), Yan Zhang et.al (2020), Md Hossain et. al (2021), Md Nazirul Islam Sarker et. al (2021) ,Y. Shi et. al (2020), Guobin Chen et. al (2020).

H4: Know-how administration is confidently connected with Efficiency Development (OI).

Efficiency Advancement (OI) can be explained as actions within a company resulting in an effective managing atmosphere that will removes together with tools obstacles in order to suggestions produced (Lee ou approach., 2011). Chaston (2012) stated that will KILOMETRES will be altering the way in which GOs manage plus create the operating methods plus functions by simply improving how an organization treats the companions. Lin (2007) additional mentioned of which worker preparedness to be able to lead plus obtain info assists the particular company to improve their possibility of development. Understanding is able to impact creativeness because of it really is suitable for the

organization in order to connect in addition to participate in the way by which they could impact efficiency achievement in the direction of competition (Buheji, 2018).

Typically the beneath suggested design consequently stresses the important thing aspects that will intensively take into account KM's control of the particular 4 dominating factors involving efficiency development.



Conceptual framework

METHODOLOGY

It is a quantitative research to gather main information. Self-reported forms had been delivered to participants utilizing a study technique. The people of the research has been operating personnel within authorities companies inside Macau. The particular forms had been lastly dispersed plus effectively gathered through four hundred participants. The questions within the set of questions are usually standard by utilizing British like a vocabulary, that is guaranteed in a manner that are usually simple for participants to comprehend plus solution. The particular organized set of questions is going to be utilized which usually used along with several option queries in addition to Likert level concerns. The particular specialist at first examined present literature-published devices, utilized in KILOMETRES or even associated with the prior study of every from the 4 efficiency advancement factors: efficiency superiority, efficiency studying, efficiency

development and even competition. A few of these devices happen to be well-researched in the wonderful world of professionals and also have already been viewed as the primary research with regard to numerous nations, as an example the KILOMETERS Evaluation Device (KMAT), the particular OECD KILOMETER Study as well as the Globe Financial institution KILOMETRES Catalog. Typically the forms were after that coded together with modified, as well as the info joined within Record Bundle for that Interpersonal Savoir (SPSS). Detailed data plus inferential stats (Pearson Relationship plus Several Regression) have been calculated making use of SPSS.

DATA ANALYSIS

An overall total associated with four hundred participants possess took part plus legitimate with this research. The particular break down from the respondents' user profile have been demonstrated within the desk beneath (Table 1):

Descriptive Statistic

| | Frequency (N) | Percentage (%) |
|--|---------------|----------------|
| <u>Gender</u> | | |
| Male | 196 | 49.0 |
| Female | 204 | 51.0 |
| <u>Age Group</u> | | |
| Less than 25 | 47 | 11.8 |
| 25 – 34 | 224 | 56.0 |
| 35 – 44 | 111 | 27.8 |
| 45 or above | 18 | 4.5 |
| <u>Job Position</u> | | |
| Junior Executive | 58 | 14.5 |
| Middle Executive | 170 | 42.5 |
| Senior Executive | 172 | 43.0 |
| <u>Length of Employment in Organisation</u> | | |
| Less than five years | 128 | 32.0 |
| Five to 10 years | 172 | 43.0 |
| 11 to 15 years | 72 | 18.0 |
| 16 years or above | 28 | 7.0 |

Desk one displays the particular respondents' user profile that were took part within the information selection procedure. There have been 196 man participants (49. 0%) plus 204 woman participants (51. 0%) and having an overall total quantity of four hundred participants took part with this research.

Most of the particular participants, that is 224 from four hundred participants (56. 0%) are usually through age bracket associated with 25-34. Participants older among thirty-five in order to forty-four would be the 2nd biggest part which usually paid for 111 participants (27. 8%), accompanied by forty seven participants (11. 8%) that will are part of age bracket associated with beneath quarter of a century aged. Age bracket regarding forty five or even over is recognized as since the group team (18 participants, four. 5%).

Within phrase associated with job within the company, the majority of the participants are inside the placement associated with older professional plus center exec which usually paid for 172 participants (43. 0%) plus 169 participants (42. 5%) correspondingly. You will find fifty eight participants (14. 5%) ready associated with younger business just.

An overall total involving four hundred participants, participants that have 5 in order to ten years work within the company was the largest part which can be 172 participants (43. 0%). Work which usually lower than 5 many years was your 2nd greatest that is 128 participants (32. 0%). seventy two participants (18. 0%) possess work associated with eleven in order to fifteen many years within the business and finally, twenty-eight participants (7. 0%) possess the job greater than 12-15 yrs.

Correlation between variables

| Variables | KM | OC | OE | OL | OI |
|-----------|---------|--------|--------|------|----|
| KM | 1 | | | | |
| OC | .209** | 1 | | | |
| OE | .071 | .342** | 1 | | |
| OL | -.103** | .084 | .141** | 1 | |
| OI | -.012 | .148** | .139** | .053 | 1 |

Note: ** Correlation is significant at the 0.01 level (2-tailed).

* Correlation is significant at the 0.05 level (2-tailed).

Notes: Knowledge Management (KM), Organisational Competitiveness (OC), Organisational Excellence (OE), Organisational Learning (OL), Organisational Innovation (OI).

Initial, efficiency competition has got the finest favourable relationship along with know-how administration (r sama dengan zero. 209, $k < \text{zero. } 01$), then efficiency understanding (r sama dengan -0. ciento tres, delaware $< \text{zero. } 01$). Although efficiency studying gets the detrimental relationship along with understanding administration, however it nevertheless offers substantial partnership along with understanding administration. Following, efficiency quality has got the optimistic relationship along with understanding administration (r sama dengan zero. 071, $l > \text{zero. } 01$) plus efficiency advancement has got the detrimental relationship along with understanding administration (r sama dengan -0. 012, $l > \text{zero. } 01$). Nevertheless , each efficiency superiority plus efficiency development have zero substantial relationship along with understanding administration because of $l > \text{zero. } 01$. As, you will discover just 2 factors have got considerable relationship along with understanding administration, that are efficiency competition plus efficiency mastering. Consequently , typically the ideas of the a couple of parameters (organisational competition, efficiency learning) can be acknowledged, on the other hand, efficiency virtue plus efficiency originality do not have important connection along with information supervision.

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .407 ^a | .165 | .157 | 6.668 |

a. Predictors: (Constant), Knowledge Management, Organisational Innovation, Organisational Learning, Organisational Excellence

ANOVA^a

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|-----|-------------|--------|-------------------|
| 1 | Regression | 3480.250 | 4 | 870.062 | 19.570 | .000 ^b |
| | Residual | 17560.940 | 395 | 44.458 | | |
| | Total | 21041.190 | 399 | | | |

a. Dependent Variable: Organisational Competitiveness

b. Predictors: (Constant), Knowledge Management, Organisational Innovation, Organisational Learning, Organisational Excellence

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|---------------------------|-----------------------------|------------|---------------------------|-------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 11.238 | 3.996 | | 2.812 | .005 |
| | Organisational Excellence | .300 | .046 | .306 | 6.510 | .000 |
| | Organisational Learning | .088 | .074 | .055 | 1.184 | .237 |
| | Organisational Innovation | .213 | .095 | .105 | 2.251 | .025 |
| | Knowledge Management | .225 | .054 | .194 | 4.179 | .000 |

a. Dependent Variable: Organisational Competitiveness

Result for Multiple Regression

In line with the consequence of Several Regression Evaluation, this implies that sixteen. five per cent from the complete variance (R Square) within the Efficiency Competition could be described simply by all of the impartial factors (knowledge administration, efficiency superiority, efficiency studying plus efficiency innovation). The particular pourcentage from the dedication, L sama dengan zero. 407 shows lower impact dimension in addition to substantial worth zero. 500 which usually imply the particular design will be match to include in the particular information evaluation.

Furthermore, based on the desk associated with rapport over, that demonstrates efficiency superiority is the greatest predictor with regard to efficiency competition (β sama dengan zero. 306, p-value sama dengan zero. 000), accompanied by

understanding administration (β sama dengan zero. 194, p-value sama dengan zero. 000). Finally, efficiency development plus efficiency understanding have the lower Beta, that are (β sama dengan zero. one zero five, p-value sama dengan zero. 025) plus (β sama dengan zero. 055, p-value sama dengan zero. 237) correspondingly.

FINDINGS

The particular selecting proved understanding control offers the greatest relationship having efficiency competition (r sama dengan zero. 209, $| < \text{zero. } 01$). This particular obtaining is in line with 1st speculation of the research along with the results through previous study carried out simply by Hsu (2008) plus Zheng (2010). The particular experts stated that this effective execution as well as the utilization of info discussing may have a higher probability of improve the particular competition from the company. Buheji, Al-Hasan, Jones plus Melle (2014) pointed out that will understanding administration enhances the capability associated with companies in order to actually produce brand new understanding and also to assistance increase the move expertise which usually improves the particular competition associated with authorities companies through constant procedures.

Following, efficiency superiority does not have substantial relationship along with understanding administration (r sama dengan zero. 071, $g > \text{zero. } 01$). This specific obtaining is sporadic along with 2nd speculation of the review out of previous studies too. The particular professionals Put ainsi que ing. (2010) for instance , they will came across that will via KILOMETERS applications, ORIGINAL EQUIPMENT (OE) as the administration action could allow organizations growing plus frequently grow their capability in order to adjust to. Abubakar de même que 's., (2019) brought up that will KILOMETRES has got immediate impact on necessary to resist warranty strategy is hence necessary to the durability.

Efficiency studying is discovered to get a substantial harmful connection along with understanding operations (r sama dengan -0. ciento tres, $k < \text{zero. } 01$). The 3rd speculation with this research is in line with the particular results through previous studies too. For instance , Chawla plus Joshi (2011) can develop OL to enhance

government company effectiveness via KILOMETRES guidelines. Basadur plus Gelade (2006) mentioned that will KILOMETRES plus OL concepts will certainly improve efficiency overall performance if you take benefit of the particular possibilities which usually result in a better improvement associated with HUMAN RESOURCES, creativeness, interpersonal plus efficiency source.

The end result over offers offered that will, efficiency development does not have any substantial relationship along with understanding administration (r sama dengan -0.012 , $g > \text{zero. } 01$). This particular obtaining is certainly sporadic by using latest speculation with this analysis through previous studies carried out from the analysis workers Strung ainsi que approach (2010). They will reported that this humanist ways to KILOMETRES contains a considerable plus favorable impact on achievement inside technology. Additionally, Lin (2007) mentioned which the worker preparedness to be able to make contributions plus attain info assists the businesses to improve the possibility of technology.

CONCLUSION AND RECOMMENDATION

This particular Pearson Relationship Evaluation verified that will efficiency competition plus, efficiency studying possess substantial partnership along with understanding administration. Nevertheless, efficiency superiority in addition to efficiency development don't have substantial connection together with information supervision. Through Several Regression Evaluation, in line with the results over, this implies that efficiency superiority has got the greatest Beta, accompanied by understanding administration. Additionally, efficiency development and even efficiency studying have the lower Beta. Therefore, efficiency superiority is the particular most powerful predictor with this research.

Like a suggestion, authorities companies need to pay a lot more interest upon progress the particular capabilities together with practicing operating workers, by utilizing medical programs plus applications to be able to boost their amounts in various sizes. Not just staff, businesses also have to give consideration upon managing management to improve understanding of controlling through the actual method to generate even more information, sustain, and promote this among almost all personnel within the companies. Simply by swapping info among leaderships plus personnel, they can turn obtaining understanding around the most recent methods and tactics.

As well as that, businesses are suggested in order to include the particular staff members within policymaking in addition to decision-making too. This process may help these to develop their own degree of self-confidence as well as develop a good efficiency atmosphere depending on shared believe in. Workers are usually referred to as essential source of a good company, therefore they may be recommended to appear like a human being funds, however, not just like an expense associated with wages, holidays along with other solutions. Companies ought to motivate expertise administration if you take this kind of activities such as via becoming nice inside allowing bonuses and even benefits, not just simply by stating.

REFERENCES

Abubakar, A. M., Elrehail, H., Alatailat, M. A., & Elçi, A. (2019). Knowledge management, decision-making style and organisational performance. *Journal of Innovation & Knowledge*, 4(2), 104-114.

Antunes, H. and Pinheiro, P., 2020. Linking knowledge management, organizational learning and memory. *Journal of Innovation & Knowledge*, 5(2), pp.140-149.

Basadur, M. and Gelade, G. (2006) *The Role of Knowledge Management in the Innovation Process, Creativity and Innovation Management*, 15(1): 45-61.

Bishop, J.; Bouchlaghem, D.; Glass, J. and Matsumoto, I. (2008). Ensuring the effectiveness of a knowledge management initiative. *Journal of Knowledge Management*, 12(4), 16-29.

Bogner, W. and Bansal, P. (2007) Knowledge Management as the Basis of Sustained High Performance. *Journal of Management Studies*, 44(1):168-188, Jan.

Buheji, M., 2018. Knowledge Management Influence on Government Organisations Competitiveness.

Buheji, M., Al-Hasan, S., Thomas, B. and Melle, D., 2014. The Influence of Knowledge Management on the Competitiveness of Government Organisations. *Journal of Globalization and Business Management*, 2(1), pp.40-58.

Castilla, J and Ruiz, O (2008) EFQM model: knowledge governance and competitive advantage. *Journal of Intellectual Capital*, 9(1): 133-156.

Chaston, I (2012) Knowledge Management and Open Innovation in United Kingdom. Local Authorities, *International Journal of Public Administration*, 35: 248–258.

Gunjal, B. (2019). Knowledge management: why do we need it for corporates. *Malaysian Journal of Library & Information Science* (ISSN: 1394-6234).

Halawi L, Aronson J and McCarthy R (2005) Resource-Based View of Knowledge Management for Competitive Advantage, *The Electronic Journal of Knowledge Management*, 3(2): 75-86.

Hsu, I. (2008) Knowledge sharing practices as a facilitating factor for improving organizational performance through human capital: A preliminary test. *Expert Systems with Applications*, 35:1316–1326.

Hung, R.; Lien, B.; Fang, S. and McLean, G. (2010) Knowledge as a facilitator for enhancing innovation performance through total quality management, *Total Quality Management*, 21(4):425–438.

Hwang, A. (2003) Training strategies in the management of knowledge. *Journal of Knowledge Management*, 3(3):.93-104.

Joshi, H., & Chawla, D. (2019). How Knowledge Management Influences Performance? Evidences from Indian Manufacturing and Services Firms. *International Journal of Knowledge Management (IJKM)*, 15(4), 56-77.

Lee, W.; Hung, S.; Chau, P. (2011) Influence of Knowledge Management Infrastructure on Innovative Business Processes and Market-Interrelationship Performance: An Empirical Study of Hospitals in Taiwan, *Journal of Global Information Management*, 19(2):67-89.

Lin, H. (2007) Knowledge sharing and firm innovation capability: an empirical study. *International Journal of Manpower*, 28(3/4):315-332.

Lucas, L. (2010) The evolution of organizations and the development of appropriate knowledge structures. *Journal of Knowledge Management*, 14(2): 190-201

Massingham, P. and Diment, K. (2009) Organizational commitment, knowledge management interventions, and learning organization capacity. *The Learning Organization*, 16(2): 122-142

Mohajan, H., 2017. The Roles of Knowledge Management for the Development of Organizations. *Journal of scientific achievements*, 2(2), pp.1-27.

Phusavat, K., Anussornnitisarn, P., Patthanaturak, P., Kekale, T. and Helo, P., 2010. Sustaining organisational development through knowledge management in the public sector. *International Journal of Sustainable Economy*, 2(1), pp.16-31.

Raadschelders, J (2005) Government and Public Administration: Challengers to a need for connection. *Administrative Theory and Praxis*, 27(4): 602-627.

S. Islam, O., Ashi, M., M. Reda, F. and Zafar, A., 2017. Strategic Knowledge Management as a Driver for Organizational Excellence: A Case Study of Saudi Airlines. *International Journal of Modern Education and Computer Science*, 9(7), pp.38-49.

Yeh, Y., Lai, S. and Ho, C. (2006) Knowledge management enablers: a case study, *Industrial Management & Data Systems*, 106(6): 793-810.

Zheng, W.; Yang, B. and McLean, G. (2010) Linking organizational culture, structure, strategy, and organizational effectiveness: Mediating role of knowledge management, *Journal of Business Research*, 63:763–771.