

Business to Business ecommerce and role of Knowledge Management

Muh. Fahrurrozi¹, J F X Susanto Soekiman², Antonius Philipus Kurniawan Gheta³, Yayan Sudaryana⁴, T. Husain⁵

¹Universitas Hamzanwadi, Indonesia.

²Dr Soetomo University, Surabaya, Indonesia.

³Universitas Nusa Nipa Maumere, Indonesia.

⁴Faculty of Economics, Pamulang University, Indonesia.

⁵Institut of Information Management and Computer, STMIK Widuri, Indonesia.

Article Info

Volume 82

Page Number: 16347 - 16357

Publication Issue:

January-February 2020

Article History

Article Received: 18 May 2019

Revised: 14 July 2019

Accepted: 22 December 2019

Publication: 28 February 2020

Abstract:

There are sort of techniques to conceptualize the sports of an e-trade device. within the course of this paper we take into account the know-how control components of e-exchange, and boast that information control is an crucial a neighbourhood of the tool's competencies. thereafter we present an thorough speak of the way the three essential records control capabilities (introduction, switch and alertness) happen in numerous elements of the device. within the quit, we defend the Declare that statistics manage is that the lowest of adaptively in an e-change environment.

Keywords: Information management, knowledge, Meta-understanding, E-trade device, Ontologies, Adaptivity.

1. Introduction

Building (growing) e-enterprise approach is statistics technology (IT) assignment. The important goal of building a commercial enterprise strategy is to address the manner of ways net era can guide the organisation and supply competitive blessings via the configuration of its available belongings to fulfil the necessities of the market and clients, also as help the client relationship control (CRM) and supply chain control (SCM) . Organizational statistics base is one many of the vital additives for constructing a hit e-commercial enterprise method task in any company, because it incorporates information, information And a group of experience assets about the company. Consequently, the company ought to depend upon and use this deliver as an essential step to perform type of strategy obligations without problems and efficiently. Developing an e-business corporation technique based totally mostly on 4

degrees: 1) provoke, 2) diagnose, 3) breakout, and four) transition.

1.1.knowledge resource in E-business method

Organizational information base manner particular knowledge available in the corporate and tacit understanding (e.g. Managerial Expertises, stories which live inside the minds of its owners) should utilized in the ones stages if you would like to help the venture stakeholders to require element and carry out all e-business method responsibilities effectively. Formulating new e-commercial enterprise approach for any enterprise is A duty of immoderate-diploma control (government managers) To allocate the desired sources to perform the venture. Successfully assets are as follows:

- 1- Tangible resources. E.G. Mainframe.
- 2- Intangible assets. E.G. Knowledge assets.
- Three- Human sources (HR). E.G. Net fashion designer.

The most valuable required intangible beneficial resource for techniques knows. In e-commercial enterprise, knowledge is moreover the utmost strategically essential resource consisting of merchandise' specifications, emblems, manufacturing and operations manipulate Expertises, purchaser and dealer relationships information, organization life-style, policy, and popularity

1.2 An Overview of Knowledge Management in e-Business

E-commercial organization may be a extensive time period manner the usage of all its skills In company, it does not advocate pleasant shopping for and selling (ecommerce) it's commonly other industrial organization strategies like Serving customers/companies and dealing with their Relationships electronically (e-crm), managing all deliver Sports until delivering products/services to clients (escm), inner conversation among personnel and Outside collaboration with one-of-a-kind industrial business enterprise companions. Obviously, all the ones sports are Intangible assets, which mean that e-organization solutions keep in mind the control of expertise (intangible assets). E-enterprise technique supported group artwork of diverse degrees of management and enterprise departments; the shared difficulty which combine them together is know-how. For instance: customer's satisfactions feedbacks will Linkage the advertising division with the meeting department. It consequently connects the obligations amongst humans, Departments, and organizational degrees.

2. Why Knowledge Management?

Due to the fact the flood of large amount of data via the business enterprise about its business enterprise techniques, pointers, Relationships. Many institutions are tormented by the facts overload, and trying to find appropriate. Example of records (understanding) to recognize typically. In e-company strategies, there are quite a few viable opportunities additionally as dangers that want to be seriously

recognized earlier than developing the strategy. Leveraging understanding is one most of the fulfillment elements for e-business business enterprise method as a replacement monetary system. E-business method has Multi demanding situations to efficient and effective property of km.

- within the context of CRM, it offers Perceptive that means that permits the enterprise is aware of more approximately its customers, providers, and companions, and their relationships, and linkages with the agency.

- in the context of SCM, allows the organization knows what materials to be had, what is required, how the company operates those substances, the manner it gives you the products/ services (distribution channels), the manner it marketplace's and serve's the clients.

- KM links all project take holders and manipulate ranges collectively, and help The group work with the aid of sharing the reviews And expertises.

- KM strategies arrange, distribute, filter out, and keep an big quantity of agency's information, records, and knowledge in disbursed expertise base which resides in special locations. This statistics helps the choice making manner and enhance the project performance.

3. Commerce vs. E-Commerce and the Knowledge Processes

The interpretation of records control competencies from stage of alternate thereto of e-change is certainly how of explicating what's now implicit – an surrender-motive which has masses in commonplace thereto of the classical approach to which seeks to comprehensively formalize human knowledge and know-how of techniques and sincere because of reflect (or not but appear to replicate) human intelligence. the analogy to Extends similarly: one variety of the essential goals of e-alternate is to breed the (probably great) reminiscences of brick-and-mortar alternate – the beneficial earnings assistant, an easy-to-browse choice, and so on. glaringly, not all elements of alternate might want to even be replicated in e-trade. at the directly it's not

feasible to the touch the sweater or to perfume the perfumes, then e-alternate need to exercise without a doubt taken into consideration one among its most essential strategies: what can't be Replicated want to urge replaced. developing ideal substitutes for those missing testimonies is that the vital difficulty mission for e-trade, and consequently the rationale behind maximum of its "realistic" techniques. Understanding manage is that the cornerstone of these techniques, and consequently the aim of interest of our assessment.



Fig 1. E-Commerce and the Knowledge Processes

No doubt, the proper place to begin for an substantial comparison among electronic and-mortar exchange are going to be the foremost obvious one – the medium itself. But, at some point of this paper we're definitely curious about how the evaluation amongst e-exchange and traditional industrial organization affects the expertise manipulate factors Of the e-change machine, the way the ones variations introduce a widening hollow within the manner know-how is controlled within the human-primarily based definitely company versus the virtual one. Even as completely huge kind of excellent versions amongst trade and e-commerce are frequently pointed to, we concentrate our attention on citizenry that play an important function within the context of enjoy manage. We divide them into 3 groups: versions of scope, differences for the client and variations for the device.

2.1 Blessings KM equipment into e-commercial enterprise information control

KM systems are all era and assets that permit the expertise transfer, era, and codification. It does not propose that all km system are computer-based packages; expertise are frequently transferred via phone calls .

The subsequent are viable blessings of km tools for e-business statistics manage:

1 Prepare and compare clients' and suppliers' necessities and Relationships (customers-suppliers oriented developments)

Questionnaires as a device for accumulating data and facts are one a few of the common techniques to induce data. However getting information are nothing new agencies. The magnificence and evaluation processes are primarily based totally on all accumulated information from customers, carriers, and partners which include pleasure, guidelines, recommendations, and requirements. Knowledge base machine (kbs) is km tool to arrange a gaggle of statistics and compare them in such manner to be 'information'. The importance of this method is to permit the commercial business enterprise to reply and make correct selections closer to the customers' or providers' demands. That's the number one step for a agency to exchange' new approach'. As an instance: after classifying the expertise associated with customers' feedbacks, the agency determined out that, customers do now not accumulate updated information about new merchandise, costs, and offers. That could make the organisation don't forget the "new marketing" tool to beautify The selling, like e-brochures or electronic message advertising.

2. Help the choice Making method (Forecast)

KBS for contemporary clients and suppliers enables the agency to carry update their desires (declarative statistics), additionally to enjoy net technology as km tool which includes engines like google, additionally capable the agency to seize more facts approximately The marketplace competition, new clients' needs,

Customer' demographics, competitors, and plenty of others. (behavioural knowledge). Declarative and behavioural know-how will assist the selection makers (govt control) inside the Following benefits to be prepared to shape the corporation on net:

1. Stumble on suitable e-commercial business enterprise model. (initiate step for e-corporation method)

2. Appropriate e-advertising plan.

3. Expect the dimensions of competition after implementing e-organisation gadget as worldwide device for commercial enterprise.

- Organizational knowledge base.
- Knowledge mining.
- Knowledge determination.

For deciding project stakeholders' venture, there could also be additionally Massive position of km. according to km is taken into account one among three Key enablers as shown in fig.1 to regulate the connection between stakeholders. Know-how switch sticks the Stakeholders collectively and assists within the introduction of the worth Proposition. Understanding repository has all required Knowledge which allows the firm to select out the affected Customers, employees, providers, departments, public and Personal sectors within the new gadget

3 Filter out and keep All employer's understanding in information Repository- (Organizational developments)

Information repository stores the processed statistics that are captured, prepared, filtered, and evaluated and save them as records, additionally to buy all of the statistics it truly is related with different organization's techniques along with advertising and marketing approach and statistics gadget (is) technique. Information repository makes the approach smooth for employees to buy, retrieve, get admission to, and arrange all information. These three benefits prepare the primary infrastructure to Formulate e-enterprise method, and discover in which we're prepared to nearly revel in understanding in the constructing way. They show

km cost chain components start from advent to garage and distribution of understanding. Three.

The Contribution of KM in e-commercial enterprise approach stages

In step with there are numbers of famous global enterprise integrate km in e-business activities along solar Microsystems. As stated before, building e-business employer method relies mostly on 4 ranges as follows:

i. Provoke degree

Consistent with the objectives of this level are:

- a. Outline assignment scope.
- b. Perceive undertaking stakeholders.
- c. Determine assignment agenda.

Undertaking scope and schedule responsibilities address facts and records nothing tangible "no deliverables"; they will be approximately prediction and desired have a glance at. Km has extraordinarily large contribution for the ones two responsibilities because each depend on gathered records/statistics 'declarative understanding' about clients and companies, in addition to 'behavioural information' about the industrial company documents, market opposition, and prediction for Deliverables. These sorts of duties are often completed correctly By means of way of the subsequent km gadget:

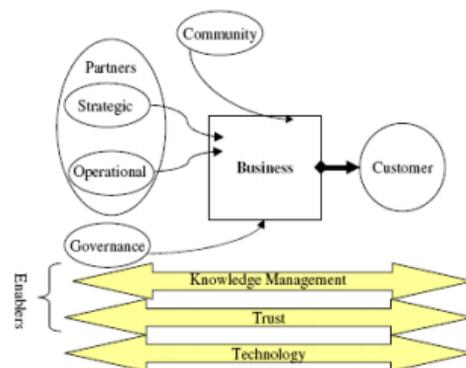


Fig 2.e-Business Stakeholder Model

ii. Diagnose Stage

The motive of this diploma is to find out strengths; Weaknesses, opportunities, and threats (swot) of the

A cutting-edge business method, which may be completed with the useful resource of: 1) analyzing the enterprise company function amongst its competition, and 2) revises the present day approach as a manner to understand the cutting-edge relationships a few of the enterprise and its suppliers and customers. To analyze and determine the cutting-edge employer feature there are some analytical equipments may be used that permit the company to evaluate its function, small-length companies can use enterprise evaluation, medium/massive-size can use supply chain assessment. For customers'- companies' relationships there may be a tool called client/provider existence cycle allow the corporations to evaluate their relationships. All duties in this stage want organizational understanding base And knowledge repository to be finished, because of they are approximately the cutting-edge state of the business enterprise because of this No need for amassing data/information and no predictions As properlyfor destiny behaviour.

iii. Breakout Stage

The goal of this stage is to derive a substitute method (ebreakout strategy) from the overall industrial corporation strategy to healthful the industrial enterprise dreams. E-commercial enterprise approach are frequently based or independent on other commercial enterprise employer's technique. This is why it's far advocated to understand the connection among the proposed e-business technique and different followed techniques earlier than creation . New ebusiness method want in an effort to form primarily based totally on (diagnose level) the evaluation of enterprise method (swot) and evaluation of its role, these both are intellectual property of the company. The derivation system of the brand new technique is obligations of venture manager for allocating workforce, doling out duties, figuring out it necessities, adding/deleting new capabilities To optimize the business enterprise typical business employer technique, fulfil Swot deficiencies . Furthermore, the responsibilities of

The venture supervisor deal right away with the human dynamics Of the organization and concerned on the desired technology. In cease, constructing e-organisation method is approximately converting the commercial enterprise company's intellectual belongings (expertise) into a sparkling roadmap of what the organization wants to try to, with the help of re-arranging the agency commercial agency approach primarily based definitely thereon infrastructure. In step with the maximum characteristic of chief facts Officer (cko) is to rework information into treasured profits by means of coping with and controlling the business enterprise's highbrow belongings. Consequently, cko can also be e-company method venture manager.

iv. Transition Stage

In this degree, the firm has got to put in force the proposed Roadmap of the clean method. Transition way that the firm will skip from modern-day United States of America to the proposed united states of america, this movement are going to be supported via new assets and capabilities. In this situation, it is advocated for firms to carry out gap evaluation which will save you from the modifications, risks, and conflicts among the modern-day and new approach to recognize and perceive the differences among them. The important thing position of km during this degree is great and valuable. Km is important to stay the company's potential for implementing the brand new approach. Understanding as intangible aid of the company comprise of agency's tradition, coverage, organization procedures, and hr stories, Will a success the corporation to gauge itself with the assist of evaluation gear (e.g. Chance or alternate readiness evaluation) to understand if the employer has the ability to cope with the changes of the brand new approach, and able to alter or now not, and seriously decide all areas of adjustments if you would like to regulate these changes. can behaviour the assessment system of the organization And diagnose chance and opportunities of the sparkling method.

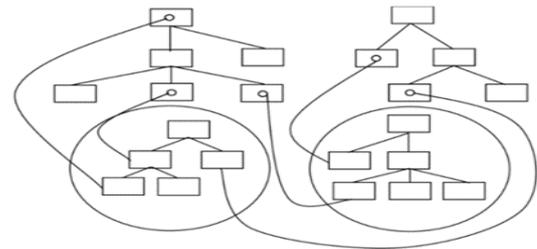


Fig3. Perspectives on low-level knowledge in the system

4. Higher-Level-Knowledge: General Considerations

At now we calculate that there exists a layer of low-degree data received from the sources described above and living within the understanding location, that's hack into deliver areas (purchaser behaviour, human professionals, records, then forth.). at an equal time as this low-degree know-how are often interesting in itself, it is not especially beneficial for e-trade. so as for the device to wish gain of experience from disparate property it got to organisation the ones Records building blocks proper right into a useful framework. in truth, there are numerous such frameworks gift within the tool on the identical time, each a selected view on a subset of the tool's records. the lifetime of a diffusion of experience frameworks cautiously parallels know-how roles in human employer, sooner or later of which nobody records bearer is responsible of all the functions of the company, and for this reason every exceptional involves a subset of the corporation's statistics. actually, beyond the small-scale it's impossible for any entity to possess greater than a subset of the entire facts. it's the union of these subsets, embodied within the type of "additives" (human, digital or different information-bearing mediums) possessing statistics that defines the corporation. actually there also can be an inherent overlap amongst expertise blocks employed via various additives. particular uses of an equivalent understanding purpose the furthermore refinement of that information, as favoured information Splits into greater specialized additives.

Sooner or later, permit us to cope with the query of meta-information. Its desired definition is "information approximately statistics." have a look initially, that anthologies can already be taken into consideration samples of meta-information, way to the very fact they prepare know-how and for this reason represent know-how about information. For the purpose that anthologies can comprise anthologies, we are managing a hierarchical form, where every higher level represents a mirrored image approximately know-how taking place on lover levels. At some stage during this way our machine doesn't manual a elegant branch of know-how into knowledge and meta-statistics, but alternatively a relational web of understanding that represents the machine's view of the very fact it's miles immersed .

5. Know-how structure: views

Thus far we've got introduced the assets and techniques of acquisition of low-degree statistics. We've additionally mentioned the concept of applying anthologies to impose beneficial relations on the constructing blocks of low-level expertise and argued that there are a few of perspectives anthologies on knowledge with a view to co-exist within the machine. Allow us to now have a study sort of the extra essential of these perspectives, divided into training: five which can be maximum applicable to human analysts, and three which can be especially beneficial for implementation of the device.

5.1 Empirical-model-state of affairs knowledge structure

This ontology considers 3 varieties of expertise in the gadget: empirical expertise, model know-how and situational records. It's supported how knowledge is implemented thru citizenry in ordinary situations. As human beings we own empirical understanding (together with the herbal legal guidelines, and additionally what is referred to as "commonplace sense" but isn't all that commonplace), that's that the muse of our fashions for viewing the world. Those models, which may be relevant to regular conditions, need to be concretized with the aid of the information of the conditions. An equivalent approach to information the utilization of experience within the e-trade system, while carefully abstracted from the precise implementation of the gadget, permits us to acknowledge the knowledge control processes from someone's mind-set, and in many situations compare and adapt the moves and reactions of human business agencies thereto of e-trade systems. Permit us to reflect consideration on every level of statistics approached from this mindset throughout a few factors.

5.1.1 Empirical know-how

Empirical facts at the extent are that the foremost favoured and most essential kind of facts and it remains relatively consistent within the course of adjusting models and situations. On the middle of this statistics are the statements, thoughts, and guidelines describing financial phenomena, which could be vital to the operation of any marketplace participant. Of route, this information is to be had to all or any or any or any game enthusiasts, albeit it's hardly ever said explicitly but is in most cases gift inside the same place cultural understanding of human corporations. Samples of empirical know-how encompass the laws of supply and contain, price curves, favourite market models and techniques, then forth. Those policies are an entire lot too elegant to form aggressive income techniques, negotiate expenses with suppliers, or in the other case refine the device, but simply permit the device to work out inside the marketplace.

5.1.2 Model knowledge

This knowledge worries the models that govern our method to commerce. those models evolve through the years, albeit in as stable a improvement as feasible given the dynamics of e-trade. Because the gadget operates and interacts with users, providers and consequently the environment the general e-trade fashions we've formulated are subtle until they're precise enough to department in to outstanding fashions, which can be applied in unique situations preserve with one-of-a-type cues. Knowledge of these cues and while observe the various consumer, supply, etc. Fashions to varied situations can be a similarly abstraction of this version know-how. Multiplicity of models outcomes from usually widespread precept that there may be no longer single version for any unmarried complex hassle (see for instance). We will take below consideration for instance model of sale technique as a way to be enriched with the assist of adding or disposing of form of its homes. Data from this degree, while lets in the machine to acquire its decided goals could also be now and again used to modify the empirical expertise (turn out to be one among the requirements guiding the system). Roughly speaking knowledge at some point of this degree refers, as an instance, to wonderful client conduct businesses in keeping with their reaction to showed commodities commercial.

5.2 Financial from this perspective

The e-alternate tools are often considered completely as a market entity. The ontology of this view describes the design of economic felony tips and theories also as practical models of company enterprise, mainly performed to the e-change area. Few different financial entities, the e-trade system has profits, fee, and income in addition to monetary techniques. This is the perspective of the economist, and may be used to research at the concern of various market gamers, traditional or virtual.

5.3 Personalization

Moreover, a patron also can have man or woman goals, which aren't satisfied with the help of a documented selection of commodities, and people got to even be taken below attention through the way of the delivery device. records of this client and his expectations are crucial to each the cs and ss subsystems – “the customer is typically right” though applies to e-alternate, and virtually it's even extra vital due to the customer's extra expectancies. subsequently, the know-how of the floor global is pertinent to every subsystem: the gadget wants to characteristic realistically (as described above) moreover as take a glance at tendencies and thought of one among a kind records which cannot constantly be mediated through the client and offer facets. an ontology for the fashions encompasses know-how from human control experts, product planners, and deliver-facet coordinators additionally as that from clients members of the circle of relatives experts. it is also know-how describing the interior strategies successful corporations, from and upon which the device may additionally furthermore adapt and expand via its continual operation inside the marketplace the know-how control strategies of an e-alternate machine and consequently the facts that they function on need to even be visible as an engine for personalization of patron content material cloth. kind of the motivations and mechanisms for engaging during this quit through the utilization of knowledge are described formerly; beforehand works we describe a couple of particular method within the course of worldwide convention on virtual change research records management in an e-alternate device 10 this. in desired the principal goal of content cloth personalization, as taken into consideration from the e-exchange attitude, is to guide the purchaser-gadget interactions and deliver a satisfying opportunity for the missing human salesclerk. especially, via personalization the machine targets at imparting how better remarkable of searching for enjoy through information and predicting needs of individual clients, improvement of delight of the buyer, advanced effectiveness of the tool (as measured via the whole amount of gadgets

offered to each patron), building of a brand reputation and a courting between clients and e-stores, because the thanks to reason client returning and making greater purchases of commodities. having the ability to right away interact with the client and tune all the interactions (see segment 2), permits the device to end in to document the customer and to regulate the provide to her expectations. further, it allows the gadget to influence her alternatives moreover to plug new merchandise. an ontology designed for personalisation combines understanding approximately merchandise and related sale strategies combined with understanding of the patron so as that you simply are getting to make relevant hints.

5.4 Organizational

In our beforehand art work reading abstractions of a actual e-exchange machine, we divided the capabilities of the device into supply aid and customer support (cs) subsystems, which engage through a channel. the knowledge manipulate of the tool could even be appeared in addition: the knowledge utilized by the supply subsystem is basically device understanding, required for the assistance of transaction control (searching for and selling) and commodity manipulate (desire, Delivery and stock). the purchaser subsystem, however, mimics the position of an individual's provider, supporting the client in searching, choosing and buying products those subsystems are in big part analogous to those located in well-established human organizations: production and development on one facet and marketing and advertising and client relations on the selection. on the identical time as expertise approximately vendors is on the whole localized inside the subsystem and expertise about Clients is within the cs subsystem, the 2 spheres are interdependent. The fulfilment of any quite exchange lies within the reconciliation of patron hobbies with corporation goals, and e-change is not any distinctive at some point of this sense. Confine mind that one of the goals of the shipping

tool is to plug the commodity it is the foremost of (so that it's getting to reduce stock) moreover to the products that's possibly maximum worthwhile. this records of merchandise got to be transferred to the cs Subsystem so as that those merchandise could even be promoted, especially to a motive base of consumers who're a ways far more likely to urge them. rather, the supply machine got to continuously have a bent remarks from the customer support machine, a exceptional thanks to healthful the shipping .

5.5 Knowledge space

This implementation-stage ontology categorizes information created from data belongings and human professionals into understanding approximately users, records about the device and knowledge approximately the environment during which the system lives. Those are spheres of know-how, know-how areas, and are closely associated with and established in line with the first assets, which the referred-to know-how is received from. Expertise made up of interactions with clients falls in to the person or woman sphere, at an equal time as information concerning the device's operation as a corporation (including supply aid) lives within the device sphere. Information derived from the out of doors global is within the environment sphere. Information about clients are fairly easy to stipulate (even though not very smooth to create up): who the users are, what they like and dislike, how they lease the system, and many of others. Know-how approximately the system is an lousy lot broader, and includes knowledge of: present day and capacity merchandise furnished with the assist of the gadget, providers of those products, the device's business company fashions and operating parameters and distinct categories associated with the e-alternate device's position within the environment. Information inside the environment is that the batch it really is outdoor to the tool, but want to nevertheless be acknowledged to it; the device does not exist during a void, and if it's miles to achieve success it need to be "aware" of what of the earth at

some stage during which it operates. This includes know-how of the theoretical (in conjunction with the elemental criminal hints of economic device) to the sensible (community outages). The know-how space Ontology divides the abilities of the e-alternate gadget and associated statistics at a truly low degree, and as a consequence it's mainly beneficial in implementation. Additives that perform within the character sphere engage with every different within the course of a commonplace domain, at the same time as additives dealing with the environment sphere can also be configured as a "wall" throughout the device. Similarly, there are links many of the spheres inside the shape of additives whose operating anthologies ask portions of a few of spheres.

6. Conclusion

This paper we've analyzed the knowledge manipulate elements of an e-trade gadget, through the blending of enjoying competencies with the realities and skill skills of e-commerce. to recognize this motive we gave mentioned the three important features of knowledge management: statistics acquisition, switch and packages and confirmed how those abilities end up the concept of e-commerce machine adaptively. we've furnished kind of views on the knowledge within the gadget, as well as a Few of possible positions from which this information are regularly administered to every tool-side and patron eventualities. Furthermore, those perspectives permit us on to reconcile the varied extremely good perspectives of e-alternate and knowledge in e-trade, at the extent of human analysis additionally as that of implementation. Pretty these perspectives are regularly explicitly codified into ontologies and implemented in manipulating the knowledge and know-how abilities within the system. These Ontology-views allow the identical low-degree expertise, gained from an expansion of assets (along with human specialists, processing and automatic getting to know) to be approached for the duration of this sort of way that the vital elements are associated during how most

useful for the mission reachable. The results of those theoretical investigations are presently being hired inside the gadget of implementing a demonstrator device for e-tour help. The proposed device should even be based totally on software program Retailers and can observe the overall decomposition proposed . The know-how control procedures defined will become the keystone of the machine. We'll record on the event of this implementation within the on the brink of future

REFERENCES

1. Burgoyne, j. and reynolds, m. (1997) managing mastering, integrating views in concept and exercise, london: sage.
2. Burrell, g. and morgan g. (1979) sociological paradigms and organisational evaluation: factors of the sociology of corporate life, london: heinemann.
3. Clarke, p. and staunton, n. (1989) innovation in generation and corporation, london: routledge. costigan, j.t. (1999) forests, timber, and internet research. in: jones, s., (ed), doing net research:
4. Essential problems and Techniques for analyzing internet, pp. xvii - xxiv london: sage
5. De kare-silver, m. (2000) e-surprise 2000, london: macmillan commercial enterprise.
6. Demerest, m. (1997) information understanding management. lengthy variety planning 30 (3): 374-384. evans, m., et al. (2001) purchaser interplay inside the digital era: a couple of qualitative insights. Qualitative
7. Sutduean, J., Singa, A., Sriyakul, T., & Jermsittiparsert, K. 2019. "Supply Chain Integration, Enterprise Resource Planning, and Organizational Performance: The Enterprise Resource Planning Implementation Approach." *Journal of Computational and Theoretical Nanoscience* 16 (7): 2975-2981.
8. Singa, A., Sriyakul, T., Sutduean, J., & Jermsittiparsert, K. 2019. "Willingness of Supply Chain Employees to Support Disability Management at Workplace: A Case of Indonesian Supply Chain Companies." *Journal of Computational and Theoretical Nanoscience* 16 (7): 2982-2989.
9. Jiao, Y., Jermsittiparsert, K., Krasnopevtsev, A., Yousif, Q., & Salmani, M. 2019. "Interaction of Thermal Cycling and Electric Current on Reliability of Solder Joints in Different Solder Balls." *Materials Research Express* 6 (10): 106302.
10. Yu, D., Ebadi, A., Jermsittiparsert, K., Jabarullah, N., Vasiljeva, M., & Nojavan, S. 2019. "Risk-constrained Stochastic Optimization of a Concentrating Solar Power Plant." *IEEE Transactions on Sustainable Energy* (In press), DOI: 10.1109/TSTE.2019.2927735.
11. Jermsittiparsert, K., Sriyakul, T., Sutduean, J., & Singa, A. 2019. "Determinants of Supply Chain Employees Safety Behaviours." *Journal of Computational and Theoretical Nanoscience* 16 (7): 2959-2966.
12. Sriyakul, T., Singa, A., Sutduean, J., & Jermsittiparsert, K. 2019. "Effect of Cultural Traits, Leadership Styles and Commitment to Change on Supply Chain Operational Excellence." *Journal of Computational and Theoretical Nanoscience* 16 (7): 2967-2974.
13. Jermsittiparsert, K. & Chankoson, T. 2019. "Behavior of Tourism Industry under the Situation of Environmental Threats and Carbon Emission: Time Series Analysis from Thailand." *International Journal of Energy Economics and Policy* 9 (6): 366-372.
14. Romprasert, S. & Jermsittiparsert, K. 2019. "Energy Risk Management and Cost of Economic Production Biodiesel Project." *International Journal of Energy Economics and Policy* 9 (6): 349-357.
15. Cao, Y., Huang, L., Li, Y., Jermsittiparsert, K., Ahmadi-Nezamabad, H., & Nojavan, S.

2020. "Optimal Scheduling of Electric Vehicles Aggregator under Market Price Uncertainty Using Robust Optimization Technique." *International Journal of Electrical Power & Energy Systems* 117: 105628.
16. Kasayanond, A., Umam, R., & Jermsittiparsert, K. 2019. "Environmental Sustainability and its Growth in Malaysia by Elaborating the Green Economy and Environmental Efficiency." *International Journal of Energy Economics and Policy* 9 (5): 465-473.
 17. Jermsittiparsert, K, Sriyakul, T., & Rodoonsong, S. 2013. "Power(lessness) of the State in the Globalization Era: Empirical Proposals on Determination of Domestic Paddy Price in Thailand." *Asian Social Science* 9 (17): 218-225.
 18. Jermsittiparsert, K, Sriyakul, T., & Pamornmast, C. 2014. "Minimum Wage and Country's Economic Competitiveness: An Empirical Discourse Analysis." *The Social Sciences* 9 (4): 244-250.
 19. Jermsittiparsert, K., Pamornmast, C., & Sriyakul, T. 2014. "An Empirical Discourse Analysis on Correlations between Exchange Rate and Industrial Product Export." *International Business Management* 8 (5): 295-300.
 20. Jermsittiparsert, K., Sriyakul, T., Pamornmast, C., Rodboonsong, S., Boonprong, W., Sangperm, N., Pakvichai, V., Vipaporn, T., & Maneechote, K. 2016. "A Comparative Study of the Administration of Primary Education between the Provincial Administration Organisation and the Office of the Basic Education Commission in Thailand." *The Social Sciences* 11 (21): 5104-5110.
 21. Jermsittiparsert, K., Trimek, J., & Vivatthanaporn, A. 2015. "Fear of Crime among People in Muang-Ake, Lak-Hok, Muang, Pathumthani." *The Social Sciences* 10 (1): 24-30.
 22. Jermsittiparsert, K. & Akahat, N. 2016. "Fear of Crime among Students of Kalasin Rajabhat University." *Research Journal of Applied Sciences* 11 (2): 54-61.
 23. Yu, D., Wang, Y., Liu, H., Jermsittiparsert, K., & Razmjoo, N. 2019. "System Identification of PEM Fuel Cells Using an Improved Elman Neural Network and a New Hybrid Optimization Algorithm." *Energy Reports* 5: 1365-1374.
 24. Tian, M., Ebadi, A., Jermsittiparsert, K., Kadyrov, M., Ponomarev, A., Javanshir, N., & Nojavan, S. 2019. "Risk-Based Stochastic Scheduling of Energy Hub System in the Presence of Heating Network and Thermal Energy Management." *Applied Thermal Engineering* 159: 113825.
 25. Yu, D., Wnag, J., Li, D., Jermsittiparsert, K., & Nojavan, S. 2019. "Risk-Averse Stochastic Operation of a Power System Integrated with Hydrogen Storage System and Wind Generation in the Presence of Demand Response Program." *International Journal of Hydrogen Energy* (In press), DOI: 10.1016/j.ijhydene.2019.09.222.
 26. Jabarullah, N., Jermsittiparsert, K., Melnikov, P., Maselena, A., Hosseinian, A., & Vessally, E. 2019. "Methods for the Direct Synthesis of Thioesters from Aldehydes: A Focus Review." *Journal of Sulfur Chemistry* (In press), DOI: 10.1080/17415993.2019.1658764.
 27. Marketplace research: a world magazine four (three): 100 and fifty-159.
 28. Gioia d. and pitre e. (1990) multiparadigm perspectives on theory building. *academy of management evaluation* 15 (four):584-602.
 29. Glaser, b. and strauss, a.l. (1967) the invention of grounded principle: strategies for qualitative studies, chicago: aldine.
 30. Hayashi, a.m. (1996) is corporate the us equipped for e-commerce? *datamation* 42 (october): quoted in holsapple and singh

2000