

Impact Factors of Smart Technology in Small and Medium Enterprises

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Abstract- *Technology nowadays is the main source for knowledge because it easy to use and cheap to buy and it is available everywhere on other hand it don't need physical power. Also, the smart technology is the main technique for communication as they use to transfer of data and information from one place to other place , by smart technology the communication and connecting between people became very easy because the information and data are transferring to other place where it is far away from the sender to the receiver and the massages take apart of seconds to transfer.*

Indexed Terms- *Smart technology, Factors, SME, effectively, Enterprises.*

I. INTRODUCTION

a) Smart technology definition:

Smart houses and smart devices which help us effectively now everywhere. smart technology mean: sensors, databases and wireless are working together to help the users to get many services easily. Smart technology help users to get and insert information's, photos, videos and other data also smart technology allow users to exchange the data and information's with other users who are in other places. Smart technology can get the users orders and in minutes will finish their works us the reboots do. Smart technology help users to send and receive messages to make conversations with other people who are away from them .Also help user to search about any things they need while they are sitting in the home and that happen in seconds only Also, smart technology by using the sensors help the users to make their environment more safe for example the fire alarm which sense for smoke , camera to see their home while they are away from home ,and the devices which are working by sunlight energy to safe the electricity power .(Mann.2015).

b) Smart technology in business:

The business before using smart technology was very difficult and it was very hard and it need a lot of body power so it was excused. for the begging of business, they write the advertisement and print them and distributed them among many people in different places and that was very hard and take along of time and need many workers but now they send the advertisement among social media and that done during some second Also, nowadays no need to have a shop, supermarket or office to start your business. You can do it by using your account in the social media. And your follower and see and buy anything while you and they are sitting in the home. Smart technology makes the business very easy and any one can work and get money (Chaskar. 2010).

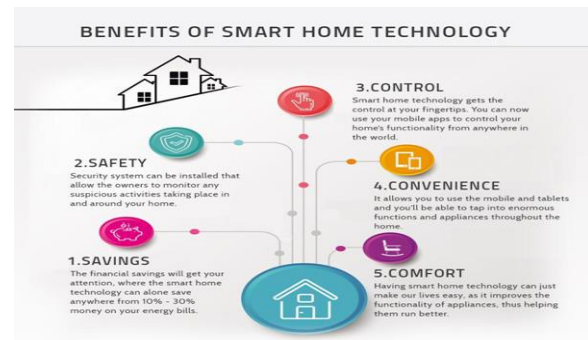


Figure 1.1 The Benefits of Smart Home Technology.

II. BACKGROUND

a) Advantages and disadvantages of smart technology

Everything in the life has positive and negative side also the smart technology has advents and disadvantages.

Advantages of smart technology

- Help students and teachers for searching and studying.

- Allow people to connect with anyone in any place and that happens in a part of a second.
- Help people to use internet for enjoyment and fun.
- Help people to improve knowledge and experience through online learning.
- Let's people to be aware about every things happen in the world and around them.
- Finish work during less time with less physical power.
- Improve the medical, economy and education side.
- People be aware about the newly evidence base practice which help to improve the life style and be more healthy.

Disadvantages of smart technology

- Wasting time and electronic power.
- Wasting money.
- Affecting on the health because the smart technology people become less active which cause obesity, diabetes and heart disease also the smart technology cause a lot of light and that affecting the eyes.
- Smart technology can cause addiction for user who use this technology for long time.
- Smart technology decreases the face-to-face meeting which can lead to increase misunderstanding because the conversation will be without body language and sense. (Weyer.2016)

b) Smart technology in developing the countries
 Nowadays Smart technology help developing the countries quickly because many reasons. the first reason is: smart technology improves all specialties which lead to increase the quality of services which population receive daily so the improve the life, for example in the medical field all the medical team are a warring about the all-evidence base practice and they have more knowledge and experience because they update their information daily or when the new study has been done. Also, it improves education field because the teaches can use many teaching techniques which help student to understand and get the information. (Mann.2015)

III. DISCUSSION

a) business environment before and after implementation of smart technology tools:

Today's technology has facilitated communication between businesses managers and customers , and social network is playing an important role for the government institutions because they are using it to present the company's news and achievements, and to communicate with citizens or customers to tell them about their needs and develop the services of the institution .Also, it is true that the existence of accounts for these institutions in the social media have been used to display news which are important for people and that is better and more easier because to need to be present . Secondly: Electronic commerce: which is the processes involved in the procurement of goods, services and services for the goods or services through the Internet, the computer network, the Internet, the intranet and the internet to support each step of global trade. Also, E-Government: it is an idea raised by the US administration to link its citizens to government agencies as well as to accomplish the various activities of the government based on communication networks. It can be defined as "effective integrated use of all information and communication technologies to facilitate the administrative processes of sectors this idea is based on: Gathering all activities and services in the official government website on networks. (Weyer.2016).

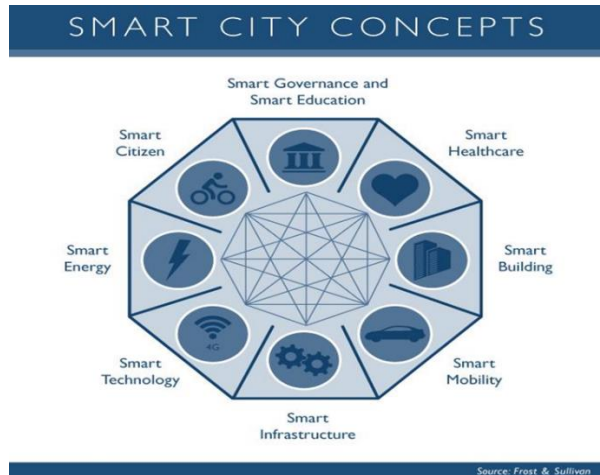


Figure 1.2 of Smart City Concepts.

b) software applications

Software: Software is an electronic and non-tangible application for example: controlling programmers for example Windows programmers and Android and other systems. for example, programs and computer games and these systems are not tangible and within the smart technology programs. Also, it is mean Programming applications that everything is built on programs which are designed through Operating systems. (Mann.2015)

c) Hardware

It is mean as computer hardware, which is all the physical devices connected with the computer, and they are touched manually, for example electronic circuits, mouse, motherboard and others. The hardware is made to distinguish between computer components, there are a number of key of an important components that can be summed up in the hardware arena: Mother Motherboard, holder of various computer parts, and the Control Processing Unit, Random Access Memory and expansion slots. Energy supply. Video storage. Television tuner card. Computer unit's controllers. There are many types of computer storage devices from hard disk, flex, floppy disk and floppy disk sensors. DVD sensors. Input units of different forms. Computer networks. Sound speakers, network and Output units. (Mann.2015).

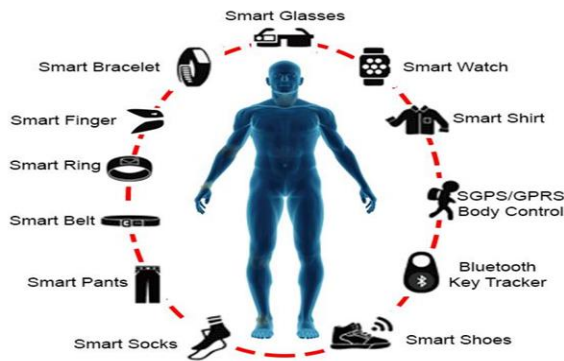


Figure of 1.3 of smart technology wears.

IV. RECOMMENDATIONS

Technological developments have replaced old technology with a new smart technology for example: set of programmable robots, a technology that now allows robots to connect with the assembly line, in

order to do assembly tasks with efficiencies, and these reports are very fast, so this development of these technology lead to improving the quality of work at a faster rate of production

a) Security of data and information by using the smart technology

Using the smart technology lead to facilitate to access and insert the information's and data that a person needs, at any time, and anywhere, where the Internet is available so the users can get a lot of data online on many sites. People can protect their data and information by using smart technology because to open any application need to insert the user name and password which lead to increase the security and Also most smart technology can be protect by using fingerprint and a blink of an eye so it is not easy to anyone to access to user data and information's and all of these protection technique lead to mitigates cyber security threats. . (Van Belrlo, 2012)

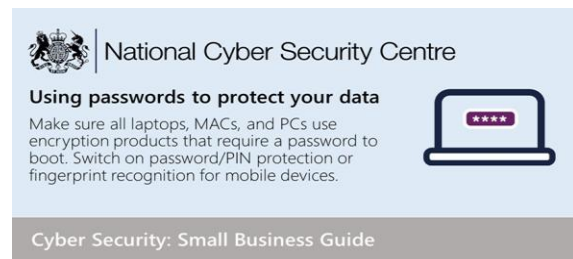


Figure 1.5 of National Cyber Security Centre

b) smart technology for enhancing customers business

smart technology enhance the customers' business and improve the quality of work in their business and companies .because nowadays the needs of companies are different according to their task and their work, and can automate operations and redirect financial and labor resources, It works on many different fields Such as: keeping in connect with users, or observing mileage take by transports drivers. Many companies also transfer an important training programs for the employees by using the web-based automated programs and corporate learning centers help, to make it more easier for workers to read , learn and understand new data and information's and improve their experience and skills.(Van Belrlo,2012)

c) IT Operations

There are many works for IT (information technology), IT is used for systems, Wi-Fi Management, Computer Engineering, Network improvement and technological Support and help desk as well as many other professions related to technology and communications. The fields of information technology are development with the use of hardware and software systems to transfer, store, protect, process, etc data. The term IT is usually used in all technical institutions because it includes both computer technology. (Van Belrlo 2012)

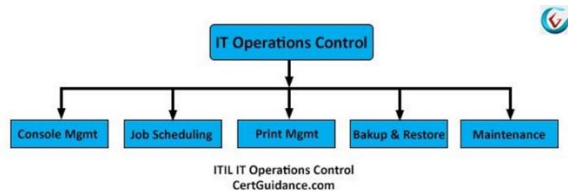


Figure 1.4 of IT Operations Control

V. DISCUSSION

a) Smart technology tools in developing the economy of Oman

Machineries which are the mobile, internet, databases, Wi-Fi access, and sensors all of these smart technology tools are used to develop the economy of Oman: and the definition of economy is: The economy is the human activities which includes the production and built, distribution the goods, exchange between the customers and consumption of services and goods. Economic is the main and basic objectives behind which governments activities and aspire to the people in order to growth and develop the country, because it represents the material conclusion of the economic and non-economic works in community. It is one of the conditions important to development the living standard of societies. Economic growth is linked to a number of essential factors in society is the appropriate environment for its improvement as a factor in the provision of high-efficiency institutions, scientific research, education, health. And the wireless is the most effective smart technology for developing that economy because Information and communications. (Weyer 2016).

Employment opportunities: -Most jobs and works use smart technology for a different task, but being

specialized in smart technology can increased up the chances for technical works for example as software programmer, smart technology technicians in different companies, and server analyst. As modern workplaces, all of it task is mainly depend on computers, they need specialists to make sure that there is no error in computers or the network and all device are working very well. Also, electronic communication ways, including many media sites, and smart email systems, are essential for most organizations, and staff with knowledge and experience of computer technology can prepare them. (Weyer.2016).

b) Today in Omani society

In the Sultanate of Oman, smart technologies have affected many people in different age and personality, Omanis use smart technologies in a wide and rapid manner. Also, omanis daily are using Email and the Email is the most common Internet application, as it achieves a way for less cost, and whether a message is sent to the US or China, or to any other user, the user pays only the cost of connecting to the network, as well as the ability to send messages 24 hours a day. Also, in Oman there are Theological education by using the smart technology: is one of the modern educational technique, characterized by using of the smart technology tools and technical techniques and ways to teach for learners, all of these methods aim to access the information to the recipient with the least effort and shortest time, and by connecting with the Internet networks, computer and multimedia of video, image, written information, and sound in and out. Educate the teachers to evaluate the students immediately account the number of discussions, tests and questionnaires. E-learning is one of the most successful techniques that contribute significantly to make the learning process much easier to explain and receiving information to learn and improve the skills and experience. (Tao.2011). the use of technology has contributed greatly to the scientific movement in schools and universities. It has encouraged and helped students to create a lot of mental and dynamic creativity and they remove the old and traditional technique in learning and teaching because it does not useful for these generations. (Weyer.2016).

CONCLUSION

Smart technology help people to achieve better outcomes, and improve students studying, learning and researching. Also, it makes users more productive. Smart technology help students to connect with other students and teachers to exchange experience to increase the learning outcome. (Tao.2011) the smart technology is an important part of daily life for the population. It is playing an important role in communicating, exchanging information, and making social decisions for countries and people nowadays mainly use smart technology in developing the countries and for improving the quality of work by using the application of smart technology. (Chaskar.2010). this report mentions the definition of smart technology the using of smart technology advantages and disadvantage and busing the smart technology in Oman and in developing country

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