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Prepared by:
Adel Hammas
242001104

Literary Criticism 1



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E-government impact on developing smart cities initiative in Saudi Arabia: Opportunities & challenges

Hasan Hashim

Department of Information Systems, College of Computer Science and Engineering, Taibah University, Yanbu, Saudi Arabia

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ABSTRACT

Information and communication technologies (ICT) have a recent impact on governance and public administration. Electronic government (e-government) services were created to streamline administrative processes and enhance citizen engagement on the one hand, and to build new governance models that would empower individuals, involve them in the decision-making process, and increase transparency on the other. Many individuals are doubtful about smart city projects because of the security issues that arise in such environments. In essence, Internet of things gadgets are security flaws. Concerns about the proliferation of IoT sensors and the tighter coupling of infrastructure sites in cities are well-founded. The major objective of the study is to identify the influencing factors of smart cities on e-government in Saudi Arabia. Additionally, this research explores the definition of e-government, and its supporting technologies like smart cities, IoT, big data, cloud computing and other digital government platforms. After exploring the detailed definitions, the study identifies the challenging scenarios of e-government in Saudi Arabia, and discusses the different opportunities. This study also concentrates on the good practices to be followed to overcome the challenges. Furthermore, this study can be used in future research for solving real time challenges of e-government.

1. Introduction

Smart cities have tremendously advanced and significantly increased its prospects in current history. In actuality, recent developments in the Internet of Things have opened up fresh opportunities, serving as a set of essential technological solutions for smart cities and enabling the creation and automating of reducing services and intelligent systems for the numerous city stakeholders [1]. In the modern day, e-government is essential for all nations, developed and developing alike. The transition to e-government has brought about many benefits and possibilities, but it is still seen as a challenging process [2–4]. This research has largely focused on the worldwide complications of implementing E-government along with regional and global E-government leaders considering the research and information on e-government questionnaires by the United Nations that are now accessible [5,6]. Since a sizeable segment of Saudi Arabia's population lacks access to computers and the internet, many individuals (especially younger residents) view their mobile phones as their main internet device and point of contact with the outside world.

For Saudi citizens, wireless and mobile technologies may be tremendously important in every aspect of life. Such methods have the potential to go beyond the current idea of whenever and wherever functional comfortability to an innovative configuration that will concentrate on changing methodologies and providing services such as through smartphone and information exchange technologies in order to significantly raise Saudi Arabia's standard of living [7,8].

This study includes the overview of smart cities, applications of smart cities, digital government platforms and e-government platforms, the opportunities, and the challenges of e-government in Saudi Arabia. The study also highlights the current situation of visions, plans, implementations, and practices when constructing a robust design for successful and sustainable smart cities projects in Saudi Arabia. In addition, the rise of data centers and developing technologies such as artificial intelligence, and IoT are giving better insights of dimensioning and understanding more smart cities design [9–13], implementations, and practices and would lead in the future to discover more issues updating to develop smart cities in Saudi Arabia.

E-mail address: hhashim@taibahu.edu.sa.

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الورقة البحثية

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E-government impact on developing smart cities initiative in Saudi Arabia: Opportunities & challenges.

أهداف البحث

عنوان الورقة البحثية : أثر الحكومة الالكترونية على مبادرة تطوير المدن الذكية في المملكة العربية السعودية، الفرص والتحديات.

مفهوم أهداف البحث:

أهداف البحث هي عبارة عن النتائج التي سيتوصل لها البحث في النهاية، إلا أنه يتم صياغة تلك النتائج في صورة أهداف توضع كجزء من خطة البحث ويتم في النهاية ربطها بالنتائج.

أهداف البحث

الموضوع

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Fig. 2. E-governance Components in Saudi Arabia.

قام الباحث بتحديد أهمية البحث من خلال توضيح أهمية الحكومات الالكترونية في العصر الحالي في حوكمة وتطوير المدن الذكية. حيث تعتمد الحكومات الالكترونية على عناصر مهمة مثل المدن الذكية وإنترنت الأشياء والبيانات الكبيرة والخدمات السحابية. وقام الباحث من خلال هذه الأهمية بوضع هدف رئيسي للبحث وتدرج تحته عدة أهداف فرعية حيث أن الهدف الرئيسي للبحث هو دراسة تأثير الحكومة الالكترونية على تطوير المدن الذكية في المملكة العربية السعودية، بينما الأهداف الفرعية هي التعريف بحوكمة الحكومة الالكترونية وملحقاتها التقنية مثل المدن والمجتمعات الذكية، وتقييم الفرص والتحديات للحكومة الالكترونية في المملكة.

- تطرق الباحث لأهداف البحث من خلال فقرة المستخلص والمقدمة والمنهجية. ولكن لم يقوم الباحث بوضع قسم منفصل لذكر الأهداف الرئيسية والفرعية بشكل أوضح ومفصل.
- افتقرت أهداف البحث إلى الجوانب الكمية وبالتالي ربطها بالمخرجات القابلة للقياس.
- اتسمت الأهداف بكونها أهداف نظرية فقط وافتقدت الجوانب العملية والتفصيل اللازم لجعل الأهداف واضحة للقارئ.



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Thank You

