

Barriers to Socio-economic Opportunities in Africa: An e-Government Perspective

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ABSTRACT

Various barriers to socio-economic opportunities in Africa are explored through e-Government as a lens of study. Using grounded theory methodology, scholarly literature on e-Government in Africa has been analyzed to model various barriers. The research is expected to serve as a scholarly reference for decision-makers in the private and the public sector organizations, as well as policymakers, for making decisions about design, development and execution of e-Government initiatives in Africa.

Categories and Subject Descriptors

K.4.1-3 [Computing Milieux]: COMPUTERS AND SOCIETY

public policy, social issues, organizational impacts

General Terms

Economics, Human Factors, Legal Aspects

Keywords

e-Government in Africa, Socio-economic Opportunities

1. INTRODUCTION

Since the year 2001, e-Government has emerged as a *programmatic* tool for executing government operations with a key focus on offering government services to citizens [1, 2, 3, 4, 5, 6, 7]. e-Government initiatives which encourage citizens' participation in government activities act as *participatory* tools through which citizens can contribute actively in government thereby bolstering the core notion of democracy.

UN defines e-Government as "...use of ICTs and its application by the government for provision of information and public services to the people [8]." United Nations has championed deployment of information and communication technologies (ICTs), an indispensable construct for building e-Government initiatives [2]. Various UN e-Government readiness assessment

surveys measuring "willingness" and "capacity" of more than 178 member states of UN infer e-Government to be a gateway to socio-economic opportunities which eventually lead to a creation of a knowledge-based society in respective member states [3,4,6]. Hence, various factors influencing the successful implementation of e-Government initiatives also affect socio-economic opportunities experienced by citizens. e-Government being one of the gateways to socio-economic opportunities for citizens, barriers to e-Government initiatives essentially act as barriers to potential socio-economic opportunities. Past studies reveal that impacts of e-Government implementations are comparatively more visible in the context of developing nations including Africa, than the rest of the developed world [9,10]. This research will identify a set of barriers to socio-economic opportunities in Africa, which in turn influence the success of e-Government initiatives in Africa. Our research will also carve out inter-relationships among barriers to socio-economic opportunities in Africa.

2. RESEARCH METHODOLOGY

Grounded theory research methodology analyzes secondary data in the form of scholarly literature on e-Government initiatives in Africa, published after the year 2001, a milestone year in the e-Government area. According to UN e-Government Readiness Assessment Surveys, in 2001, e-Government was a new trend then and not a regular practice for governments to offer their services [2]. Hence, secondary data analysis under grounded theory research methodology focuses on scholarly literature published after the year 2001, which elaborates on barriers to socio-economic opportunities in Africa. When compared to other fields related to governance, the research on e-Government seems to be in embryonic stage. There are not many theoretical models which are derived from empirical evidences in the area of e-Government (Ridley 2008).

In the context of e-Government initiatives undertaken by U.N. member states in Africa, this research paper identifies a number of barriers to providing socio-economic opportunities to citizens via e-Government initiatives. In the first round of grounded theory research methodology, codes are identified from a vast body of literature on e-Government initiatives deployed by various member states in Africa (See Table 1). In the second round of axial coding, codes identified in the first round are labeled according to their coherence and proximity in terms of their meanings. In the third round, axial coding in the form of various

labels are grouped and key categories for barriers to socio-economic opportunities in Africa are surfaced.

Table 1. Grounded Theory Research Methodology: A Process of Deriving Categories of Barriers to Socio-economic Opportunities in Africa

	First Round of Coding	Second Round of Axial Coding	Third Round Surfacing Possible Categories of Barriers to Socio-economic Opportunities in Africa
1	Software, hardware, technological infrastructure, sophisticated IT mobile cellular telephony	Technology Related	Myriad of attributes related to Information and Communication Technologies (ICTs)
	Who owns what information?	Information Management Issues	
	Trained workforce, IT human capital	Human Factor in IT Deployment	
2	Local and foreign investment, network economy, cost of accessing internet	Financial Status	Economic Status of Member States
	Knowledge economy, information economy,	Economic Impacts	
	Supply and Demand, e-Commerce, e-Business	Market Force	
3	Lack of peace, unstable government, government structure	Political Phenomena	Political context
	Developed legal system to facilitate effective regulatory policies	Legal System	
	Lack of establishing and setting up appropriate policies to identify research areas	Policy	
4	Education level of citizens, gender inequalities (eg. Women account for	Social Issues	Social Environment in Nations deploying

just 4% of ICTs users in the Arab world)		e-Government
Food, drinking water, shelter	Basic Needs of Citizens	

Source: All the findings in the above table are resulted from the secondary data analysis of literature covered in references 12 – 23.

So far, our secondary data analysis has identified four possible broad categories of barriers to socio-economic opportunities in Africa, which are as follows: political context of member states, social environment in nations running e-Government activities, myriad of attributes related to information and communication technologies (ICTs), and economic status of member states.

3. FUTURE RESEARCH AND APPLICATIONS

As mentioned earlier, the research also aims to capture inter-relationships among various codes identified in the first round of coding. The set of inter-relationships will be incorporated with the above mentioned key categories which are surfaced in the third round. As a result of this research, a new model including key categories of barriers to socio-economic opportunities in Africa along with inter-relationships among them will be proposed. The resultant model is expected to inform policies and strategies for strengthening e-Government movement, a *gateway* to offer better socio-economic opportunities in Africa. This model of *barriers to socio-economic opportunities in Africa* could serve as a rich and quick reference for decision-makers in private and public sector organizations as well as policymakers while making decisions about design, development and execution of e-Government initiatives in Africa.

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