



Understanding the evolution of e-government: The influence of systems of rules on public sector dynamics[☆]

J. Ramon Gil-Garcia^{a,b,*,1}, Ignacio J. Martinez-Moyano^{c,1}

^a *Center for Technology in Government, University at Albany, SUNY, USA*

^b *National Center for Digital Government, John F. Kennedy School of Government, Harvard University, USA*

^c *Decision and Information Sciences Division, Argonne National Laboratory, USA¹*

Available online 21 July 2006

Abstract

Electronic government has been defined as the use of information and communication technologies in government settings. However, it is neither a homogeneous nor a static phenomenon. Recent empirical studies have identified two important dynamics in e-government evolution. First, e-government in general has evolved from its initial presence on the Internet to more transactional and integrated applications. Second, at the aggregate level and as a general trend, national governments have started adding technological and organizational sophistication and state and local governments have followed. Based on the study of systems of rules, this paper argues that these two dynamics in the evolution of e-government are, at least in part, the result of pressures from public managers attempting to solve problems and from citizens, businesses, and other stakeholders, attempting to control the actions of public managers. Both forces, related to performance and accountability, respectively, have promoted change in the systems of rules governing the design, implementation, and use of e-government initiatives. Specifically, they have generated a cycle that continually increases technological and organizational sophistication in e-government initiatives and have also promoted the episodic and evolving adoption of similar features across levels of government. These

[☆] A previous version of this paper was presented at the Pre-ICIS eGovernment Workshop, International Conference on Information Systems, Washington, DC, USA, December 12–15, 2004.

* Corresponding author. Center for Technology in Government, University at Albany, SUNY, USA.

E-mail address: jgil-garcia@ctg.albany.edu (J.R. Gil-Garcia).

¹ Authors' names are ordered alphabetically; their contributions were equally important.

two related evolutionary dynamics and the characterization of e-government as systems of rules and standards have some important policy implications, which are briefly discussed at the end of the paper.

© 2006 Elsevier Inc. All rights reserved.

Keywords: Government; Electronic government; Digital government; Evolution of e-government; Performance; Accountability; Systems of rules

1. Introduction

Governments are increasingly using information and communication technologies in their daily operations and businesses. As a consequence, the study of e-government has increased in recent years and researchers are developing theoretical and conceptual models to understand different aspects of e-government (see for example [Cresswell & Pardo, 2001](#); [Dawes, Pardo, & Cresswell, 2004](#); [Fountain, 2001](#); [Gil-García & Pardo, 2005](#); [Gupta & Jana, 2003](#); [Moon, 2002](#)). An important portion of the emergent literature attempts to conceptualize or characterize electronic government and these articles can be classified in three broad approaches: (1) definitional, (2) evolutionary, and (3) stakeholder-oriented ([Gil-García & Luna-Reyes, 2003](#); [Schelin, 2003](#)). This paper focuses on the evolutionary approach, which describes the stages of e-government in terms of their degree of technological and organizational sophistication ([Gil-García & Luna-Reyes, 2003](#); [Moon, 2002](#); [Schelin, 2003](#)). Within this evolutionary approach, several studies have been developed, but their scope is mainly descriptive. In order to explain how and why this evolution has taken place, more analytical research and sound theoretical frameworks are needed. This paper proposes a theory of e-government evolution as a result of important dynamics found in the way in which systems of rules interact with action in organizational settings. This theoretical framework poses a link between how public managers decide on e-government initiatives and how businesses, citizens, and other stakeholders involved in the policy process internalize those decisions and subsequently influence them over time.

In the context of e-government evolution, we use institutional theory and the study of rules as sources of change ([Feldman, 2000](#)) to reframe the well-established politics-and-administration dilemma ([Wilson, 1887](#)). Our theory explains that, at the aggregate level, e-government has been adding more technological and organizational sophistication as a result of both institutional isomorphism ([La Porte, Demchak, & Friis, 2001](#)) and pressures from businesses, citizens, politicians, interest groups, and other stakeholders ([Kuk, 2003](#); [Reddick, 2004](#); [Salem, 2003](#)). In addition, e-government initiatives are evolving from the national to the local level ([West, 2005](#)). If local governments are more responsive to citizens' needs, as some devolution scholars argue, the situation described above may imply a change from self-imposed initiatives searching for solutions (administration performance), to externally imposed requirements by businesses, citizens, and other stakeholders (politics accountability).

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات