

2011 Publications (16)

Reports (4)

Does Mobility Make a Difference? A Cumulative Study of the Impact of Mobile Technology in New York State Child Protective Services

Jan 2012

Over the past six years, the New York State (NYS) Office of Children and Family Services (OCFS) has invested in a mobile technology strategy to support child protective services (CPS) work. This report presents results from a multi-year assessment on how the use of mobility technology has affected CPS casework. Findings suggest that laptop use has transformed on-call work processes, provided caseworkers with access to critical information while away from the office, and enabled an immersive community experience for caseworkers. These results have also led to modest, but meaningful improvements in productivity. The report also outlines elements of supportive mobile environments and offers recommendations for improving OCFS' mobile technology strategy.

Information, Technology, and Governance: A Grand Challenges Research Agenda Workshop Summary Activity Report

Nov 2011

In February 2010, a group of leading social and information scientists and government practitioners came together to develop a new understanding of the way technology and social forces shape the workings of government. The workshop—Information, Technology, and Governance: A Grand Challenges Research Agenda—was sponsored by the National Science Foundation, with additional support from the National Association of Chief Information Officers (NASCIO). The Center for Technology in Government (CTG) at the University at Albany led the organizing effort of this two-day workshop with over 40 participants from across the country. This document presents a non-attribution account of the contributions made at the workshop as well as a brief analysis of the discussions and findings. The information presented in this report begins to shed light on complexities of identifying and addressing grand challenges in information, technology, and governance.

An Open Government Research and Development Agenda Setting Workshop: A Summary Activity Report

Jun 2011

The Open Government Research and Development Agenda Setting Workshop was sponsored and conducted by a collaborative team from the Center for Technology in Government (CTG) at the University at Albany, the Tetherless World Constellation (TWC) at Rensselaer Polytechnic Institute, the Institute for Law and Policy (IILP) at New York Law School, and Civic Commons was organized to outline a research agenda focused on opening up, federating, and using data to improve the lives of citizens. This activity report is an account of the contributions made at the workshop. Following the release of this activity report, we will focus on the analysis of the results working toward a set of recommendations and action steps.

Broadband Internet Service Adoption and Use in New York State Households

May 2011

Broadband access for households has become an important resource for individuals and communities. A high speed connection to the internet provides opportunities for a great many economic, social and cultural benefits. This study was done to explore the extent to which those opportunities and benefits are currently available to households in New York State. With the support of the NY State Office of Cyber Security, and the New York State Broadband Development and Deployment Council, the Center for Technology in Government partnered with Stony Brook University to conduct the study. We surveyed 3044 New York households to discover the extent of availability and adoption of broadband services and how they are used. We also asked about the social and economic characteristics of the households to explore how those factors affect broadband adoption and use. The

results presented here cover 1002 surveys covering the state as a whole and an oversample of 2042 surveys in low income counties.

Journal Articles and Conference Papers (8)

I-Choose: Consumer Choice, Digital Government, and Sustainability in North America

Presented at APPAM Fall Conference 2011, Nov 2011

In this paper, we address the challenges and opportunities that the new development in ICT poses for governments, and begin to outline some potential solutions. Governments in North America have set explicit goals to increase the environmental sustainability of their infrastructure, promote sustainable local economic development, protect consumer health, promote nutrition, or establish greener, more efficient supply chains. These commitments are real, and substantial, but the information problems found in real markets have, until now, made many of those goals more elusive. This paper presents observations from research sponsored by the National Science Foundation (through its Community-based Interoperable Data Networks Program), the Consejo Nacional de Ciencia y Tecnología (CONACYT-Mexico), and the Canadian and COMEXUS Fulbright Commissions. Our interdisciplinary and multinational research team blends approaches from digital government research, public policy analysis, and system science to investigate new ways of combining traditional regulatory tools with crowd-sourced information from stakeholder networks.

Cultivating the Next Generation of International Digital Government Researchers: A Community-Building Experiment

5th International Conference on Theory and Practice of Electronic Governance (ICEGOV2011), Sep 2011

Over the last two decades universities and post-secondary education policies have addressed globalization trends by internationalizing curricula and articulating global concern in their missions. This paper presents an evaluation of an international training program for early-career digital government researchers, designed to develop their interest and skill in cross-cultural, multidisciplinary, and practice-oriented research. The program overall appears to stimulate participants' individual creativity, scholarly productivity, and professional networks, while broadening their appreciation for work that investigates internationally important topics and involves not only multidisciplinary but multicultural teams. The survey results also suggest that a short-term (one-week), intensive, immersive, and relatively inexpensive program can have strong and lasting effects on early-career scholars.

Smart City as Urban Innovation: Focusing on Management, Policy, and Context

5th International Conference on Theory and Practice of Electronic Governance (ICEGOV2011) , Sep 2011

This paper sees a smart city not as a status of how smart a city is but as a city's effort to make itself smart. The connotation of a smart city represents city innovation in management and policy as well as technology. Since the unique context of each city shapes the technological, organizational and policy aspects of that city, a smart city can be considered a contextualized interplay among technological innovation, managerial and organizational innovation, and policy innovation. However, only little research discusses innovation in management and policy while the literature of technology innovation is abundant. This paper aims to fill the research gap by building a comprehensive framework to view the smart city movement as innovation comprised of technology, management and policy. We also discuss inevitable risks from innovation, strategies to innovate while avoiding risks, and contexts underlying innovation and risks.

Computing and Information Technology Challenges for 21st Century Financial Market Regulators

Proceedings of IFIP International Federation for Information Processing 2011 , Sep 2011

This paper reports on a research effort designed to begin to systematically identify the most critical computing and information technology-related challenges facing financial market regulation activities. Computing and information technology adaptation in financial markets create a paradox. Information technology is needed for effective governing of financial markets, yet advances in information technology and the increasingly complex

adaptations of that technology make it more difficult for regulators to have a clear picture of what is actually happening. Drawing on in-depth interviews with professionals from the financial market community, this paper outlines three primary challenges facing regulation efforts: 1) information sharing and integration, 2) mediating interrelationship among financial market constituents, 3) data-driven decision making. The paper concludes with recommendations for future research about the challenges.

Conceptualizing Smart City with Dimensions of Technology, People, and Institutions

Proceedings of the 12th Annual International Conference on Digital Government Research (dg.o 2011), Jun 2011

This conceptual paper discusses how we can consider a particular city as a smart one, drawing on recent practices to make cities smart. A set of the common multidimensional components underlying the smart city concept and the core factors for a successful smart city initiative is identified by exploring current working definitions of smart city and a diversity of various conceptual relatives similar to smart city. The paper offers strategic principles aligning to the three main dimensions (technology, people, and institutions) of smart city: integration of infrastructures and technology-mediated services, social learning for strengthening human infrastructure, and governance for institutional improvement and citizen engagement.

Open Government and E-Government: Democratic Challenges from a Public Value Perspective

Proceedings of the 12th Annual International Conference on Digital Government Research (dg.o 2011), Jun 2011

This paper considers open government (OG) within the context of e-government and its broader implications for the future of public administration. It argues that the current US Administration's Open Government Initiative blurs traditional distinctions between e-democracy and e-government by incorporating historically democratic practices, now enabled by emerging technology, within administrative agencies. The paper considers how transparency, participation, and collaboration function as democratic practices in administrative agencies, suggesting that these processes are instrumental attributes of administrative action and decision making, rather than the objective of administrative action, as they appear to be currently treated. It proposes alternatively that planning and assessing OG be addressed within a "public value" framework.

Promoting International Digital Government Research Collaboration: An Experiment in Community Building

Proceedings of the 12th Annual International Conference on Digital Government Research (dg.o 2011), Jun 2011

Global issues present many opportunities for digital government (DG) researchers to form long-lasting relationships that lead to shared research agendas focused on questions of international importance. The practical feasibility of international DG research partnerships is of interest for both investigators and funders. This paper reports the evaluation of an experiment to create sustainable international digital government research collaborations by providing legitimacy and modest funding within a minimal set of structural and management requirements. Participants rated the experience as highly positive, contributing substantially to their research productivity, community building, international awareness, and professional growth. While the working group strategy is not a substitute for direct research support, it is a readily replicable method to build international research communities, and to stimulate and enhance their scholarly work.

Knowledge and Information Sharing in Transnational Knowledge Networks: A Contextual Perspective

Proceedings of the 44th Hawaii International Conference on System Sciences - 2011, Feb 2011

As government agencies increasingly collaborate with international counterparts on critical global issues, transnational knowledge and information sharing grow in importance. This paper explores the nature of Transnational Knowledge Networks (TKNs) and identifies critical contextual factors that hinder or enhance their performance. We explore a set of contextual distances that separate the participating organizations and discuss their potential influence on the success of TKNs. The paper concludes with a conceptual framework and a set of testable hypotheses to guide the next phase of our research in understanding knowledge and information sharing across national and cultural boundaries.

Issue Briefs (4)

Building Transnational Knowledge Networks to Tackle Global Problems

Fri, 12 Aug 2011

Sharing knowledge, information, technology and practices across cultural and national boundaries has become a means to address critical global problems. As governments strive to improve public health and safety, protect the environment, respond to disasters, or promote international commerce, they are engaging in new kinds of knowledge sharing networks as mechanisms for regional and global collaboration.

Delivering Public Value Through Open Government

Fri, 12 Aug 2011

The Obama Administration's Open Government Directive raised to prominence the principles of transparency, participation, and collaboration as "the cornerstone of an open government." What lies at the heart of the open government vision is broader access to government data and creating new opportunity for citizens to contribute expertise and perspectives to government decision making. What is not yet clear is what types of value can be delivered and to whom through transparency, participation, and collaboration focused initiatives. While these three open government principles resonate in familiar and positive ways, it is not obvious how government agencies can best create new systems and services organized around them and ultimately deliver desired and measurable benefits to government and non-government stakeholders.

Government Accountability Through Spending Transparency

Fri, 12 Aug 2011

Governments of the world are facing both national and global demands for greater levels of transparency that allow not only citizens but other nations to hold them accountable for their actions. These internal and external pressures and government responses have been fueled in part by innovations in information and communication technologies (ICTs) and the expanding capabilities of governments to use technology effectively.

Government in a Mobile World

Fri, 12 Aug 2011

Government services, staff, and development efforts will be increasingly mobile in coming years as devices and applications continue to proliferate at an astounding rate. Industry experts stress how quickly the change is coming. The usual concerns that come with any technology innovation also accompany the mobile world: security, accessibility, privacy, development, deployment. As with any technology, mobile brings its own unique characteristics to these concerns. While critical for government, the single most important fact is that developments in the mobile world will directly impact nearly every aspect of government operations including delivery of services, citizen engagement, allocation of IT resources, staff support, and training.