

Smart Cities in Asia and the Deployment of Big Data: Privacy and Security Challenges

APrIGF, Macao, July 3, 2015, 9-10:30 AM

Panelists

Nir Kshetri, *Professor, University of North Carolina—Greensboro*

Laura O. Lemire: Attorney. Microsoft Corporation

The session started at 9:00 AM. There were about 20 people present and about 40% were females.

Nir Kshetri focused mainly on the macro aspects of smart cities from the Big Data, privacy and security standpoint. He identified and analyzed the unique challenges faced by smart cities from the privacy and cybersecurity standpoint. Since Big Data is a key component of smart city, he elaborated how various characteristics of Big Data are linked to privacy and cybersecurity *in the context of smart cities*. He also compared cyberattacks targeting smart cities and other forms of cyberattacks in terms of various parameters. He reviewed how privacy issues in smart cities are shaped by enduring cultural models of privacy protection and political discourses around this issue. Also discussed are implications for policy makers, developers of smart city technologies and consumers.

Ms. Laura Lemire focused mainly on the macro aspects of smart cities from the Big Data, privacy and security standpoint. She discussed trends driving the movement of smart cities, security risks related to unique threats and challenges for Smart Cities and privacy concerns associated with growing worries about ubiquitous data collection. She proposed some mechanisms to protect smart cities such as securing the Internet of Things with the protection for a web of devices and continuous streams of data, managing threats and vulnerabilities by dealing with the new risks and old problems for Smart Cities and preparing for all types of incidents considering the fact that smart Cities must anticipate physical and virtual threats. Regarding privacy concerns she focused on the key challenges to Fair Information Principles related to modern privacy protections for Smart Cities, Big Data possibilities, unintended consequences of ubiquitous data collection, and fear of Trade-offs. She argued that new technologies must respect timeless values.

Questions and comments by the audience included issues related to certification and re-certification of industrial control system (ICS) by manufacturers, which mainly look the issue from the engineering perspective but do not give adequate consideration to security. A member in the audience commented that businesses are interested in big data initiatives but there is no real focus on security. Another member argued that most people provide consents to the terms and conditions for their use of social media and other application although they do not want to share data. It is thus more like a forced consent rather than a real consent.

The session ended at 10:31 AM.