

Chapter 3

Policy as a Bridge across the Global Digital Divide

Meena Chary

University of South Florida, USA

Stephen K. Aikins

University of South Florida, USA

ABSTRACT

This chapter assesses how public policy can be used to bridge the global digital divide, especially in developing nations. First, the chapter characterizes the Internet technologies encompassed within the digital divide according to dimensions of individual socioeconomic characteristics and service provider infrastructure characteristics. Then, the chapter develops a set of technology policy dimensions as they affect those two dimensions, using case vignettes from India to illustrate policy actions. Finally, the chapter makes policy action recommendations to bridge the digital divide, including investments in education and literacy, e-governance, intermediary services, infrastructure, and regulation.

INTRODUCTION

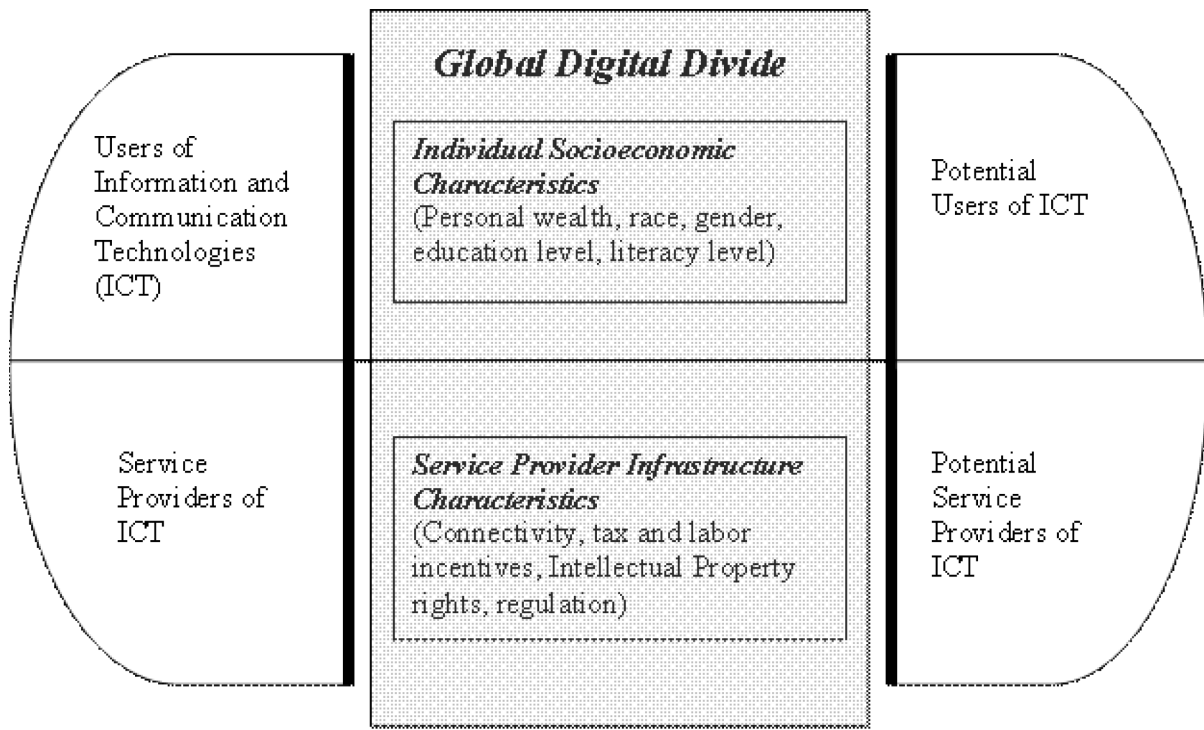
This chapter assesses how public policy can be used to bridge the global digital divide, especially in developing nations. First, the chapter summarizes current understandings of the digital divide, and then characterizes the Internet technologies encompassed within the phenomenon. These characteristics are organized according to the dimensions of individual socioeconomic characteristics and service provider infrastructure characteristics. In this, the chapter aims to contribute to the overall understanding of

the digital divide as a global phenomenon, especially by adding the dimension of service provider infrastructure to the description of the global digital divide. Second, the chapter develops set of technology policy aspects as they affect those two dimensions, using examples from India to illustrate policy actions. Thus, the chapter attempts to contribute to our overall understanding of technology policy, as well as to identify those aspects of policy that are relevant in the context of the digital divide. Finally, the chapter makes policy action recommendations to bridge the digital divide.

The global digital divide is defined here to mean the gap between those who have ability to access

DOI: 10.4018/978-1-60566-699-0.ch003

Figure 1. Characteristics of the global digital divide



and use information and communication technology (ICT) and those who do not. This definition is fundamentally consistent with numerous other definitions (Bagchi, 2005; Chinn & Fairlie, 2007; James, 2004; others). ICT can be understood to include both telephony (such as landline and mobile) and computing-based Internet technologies. In both the United States and India, telephony is distinct from Internet technology, in terms of both characteristics and relevant policy, and much has been written about telephony. This chapter devotes itself to better understanding the digital divide through characterizing the Internet technology component of ICT.

Access to ICT can have long-lasting benefits for quality of life as individuals can use ICT to develop personal interests, further education, receive job training and, ultimately, enhance their ability to enjoy their lives (Chandrasekhar, 2003). As Chandrasekhar points out, "... a widening digital divide can only widen social divisions

and tensions." (2003, p. 82). In addition, those who suffer from adverse effects of globalization (poor, illiterate, uneducated and unskilled laborers) tend to fall into the same segment of the population that is on the have-not side of the divide. As such, globalization has only served to add to the widening of the digital divide by compounding the great inequities forced on the poorer sector of the population (Chary, 2007). Thus, the implications of the digital divide on social equity can be so grave that governments simply cannot afford to ignore what may be the most important social justice issue of the day. Therefore, we hope here to achieve a more nuanced understanding of the global digital divide, which can be used by governments to take more targeted policy actions aimed at bridging the digital divide.

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