

Call for Papers

Track 10. Sustainability in ICT4D

Track chairs/associate editors

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Overview of the research area

Sustainability can be considered from different perspectives, e.g. economic, institutional, social, political and environmental, as well as in terms of short, medium or long term views (Marais, 2015). The ultimate economic system question is: how many earths are required to sustain the rate of resource consumption inherent in most of the current development trajectories of the world's economies. Other views grapple with the notion of what development is and therefore what sustainable development would be, e.g. the definition of development as freedom of choice by Sen (1999). The recent adoption of the sustainable development goals (SDGs) has raised a host of issues as to how implementable they are and the role of ICT needs to be explored.

ICTs can play an important role in decoupling economic development from the use of natural resources, so that resource use does not increase with economic development, giving rise to so-called Green IT initiatives (Giljum et al. 2005; Murugesan, 2008). At the other end of the spectrum a many different development initiatives, including ICT-enabled development initiatives struggle to be sustainable, and therefore the question is how these initiatives can become sustainable in the long term, in order to contribute to the sustainability of developmental strategies at country or global level. A study of more than 280 ICT4D projects that focused on mobile services and business models for the Base of the Pyramid was found that successful projects focused on the "ability and willingness of their customers to pay, rather than on identified social needs and supposed demand" (De Carvalho et al. 2012, p. 200). This is an example of an 'exogenous' model for development that assume that an external cause such as an ICT4D intervention can achieve development outcomes framed mostly as economic growth (Mansell 2011). There are also **socially-led** strategies that are 'endogenous' and focus on **internal causes** where ICT4D intervention strategies are developed with the intended beneficiaries (ibid.; Heeks, 2008).

In considering the **sustainability of ICT4D initiatives**, researchers are confronted with a number of issues that may or may not be coupled to the concept of sustainable development. A key issue is to identify the intended benefits of the project, and to determine the extent to which benefits should be sustained. At a project level, researchers, participants, existing system owners (e.g. an education department), and implementers are then confronted with the question of how to design and develop projects in such a way that the benefits created by the project are sustainable over an appropriate period of time, and in a specific (resource constrained) environment (Meyer and Marais, 2015). This calls for an understanding of the dynamics of the system within which the intervention is deployed, as well as an understanding of the nature and extent of change that needs to be facilitated and sustained. Some approaches have focused on linking project management practices to dimensions of sustainability (Pade-Khene et al, 2011), while others are focusing on supporting role players in making decisions in support of sustaining benefits (Meyer and Marais, 2014).

We welcome any paper that deal with sustainability issues from a diversity of perspectives (social, economic, cultural, developmental aims, empowerment, etc.), at one or many of the different levels in development (micro- to macro-level) and specifically the role of IS or ICT4D initiatives:

Firstly, papers should embrace a sustainability philosophy overall, such as being concerned with development for sustainability pathways, long term versus short term views on sustainability, society or project views, bottom up participant perspectives, NGO, donor, government, or technical perspectives.

Secondly, papers should use a clearly described approach to development and sustainability or sustained benefit, and motivate its relevance in the research, implementation and societal context being discussed.



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Suggested list of areas

- Implications of sustainable development schools of thought on the role of ICT4D
- ICT4D as part of larger development strategies
- ICT4D Project approaches in support of sustained benefit
- Decision making for sustained benefit at strategy level
- Decision making for sustained benefit at initiative level

For paper format and submission guidelines please refer to the main conference website.

In order to provide some indication of relevant work a few references are provided.

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Important dates

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Conference: May 22-24, 2017

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