The Role of Information Technology in Enabling Global Sustainability

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Abstract

In this work, we present a survey of the areas of impact of information technology on sustainability on a global scale. We examine several obstacles to global sustainability including lack of timely and pertinent information for farmers, supply-chain inefficiencies in agrarian economies, cottage handicraft industries' producer-customer sales channels, and large-project co-ordination costs in countries with less mature legal and communication systems. For each obstacle, we analyze the current state of information technology support and propose solutions that are information technology based to reduce these obstacles and enhance sustainability.
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