



Application of the Information and Communication

Technologies in Agriculture

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Food security turned into one of the most important global concern of the world. According to UN's Food and Agriculture Organization (FAO), food security "exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life." The major concern about food security arose as a result of climate change, rapid increase in food prices around the globe, policy enforced in the field of energetics, as well as the widespread use of agricultural lands for biofuel production. Extreme climatic events (droughts, floods etc.) directly influence the food supply and plantings are subjected to pest and disease attacks due to the changing climate norms. On the other hand, food deficiency is seen as a result of population growth in the world, growing consumer demands in developed countries, and the reduction of arable lands as a result of housing and industrial development. Currently, the application of innovations hold a special place in all economic sectors- including the vital agricultural sector- in order to ensure sustainable development. The importance of information and communication technologies (ICT) for food security has already been approved at the high level World Summit on the Information Society held in 2003-2005, as well as in a decision made on giving particular attention to the application of electronic technology in agriculture. FAO and other organizations developed the www.e-agriculture.org web portal in 2006 in order to direct efforts at ensuring sustainable agricultural development and food security via applying information and communication technologies.

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