

ENHANCING PHILIPPINE SCIENCE AND TECHNOLOGY THRU ICT: AN OVERVIEW

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This paper discusses how information and communication technologies can become pivotal tools for advancing Philippines Science and Technology. The paper discusses how ICT impacts the processes for advancing Science and Technology, while it also discusses the importance of improving digital literacy.

The emerging Peer-to-Peer computing model is briefly reviewed and examples of its opportunities for use in advancing science and technology are provided. The paper also discusses the Careerspace initiative in Europe for wide scale improvement ICT skills to improve European Competitiveness.

Keywords: ICT, digital literacy, careerspace, peer-to-peer computing model

REIMAGING THE ROLE OF INFORMATION AND COMMUNICATION TECHNOLOGY IN PHILIPPINE EDUCATION REFORM

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This paper contrasts two approaches regarding the role of information and communication technology (ICT) in the reform of Philippine education. The "transmission" approach assumes that the appropriation of ICT will serve to improve the existing systems and processes of the educational system. In particular, ICT would enable the more efficient and effective transmission of knowledge to students. In contrast, the "transformative" approach assumes that the ICT provides opportunities for transforming the systems and processes of the educational system. For example, the use of ICT can lead to a transformation of the teaching-learning processes in ways that change the goals and the nature of the curriculum, that redefine the roles of the teacher and the student, and that