

Evaluating PPGIS in community development by actor-network

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Abstract

PPGIS has been implemented to achieve consensus of public decision-making in local communities in Taiwan. However, assessment of PPGIS effectiveness is still in developing. The actor-network theory (ANT) is a social-technical approach to investigate social construction of science and technology. It has gained great interest by IT researchers. This paper uses ANT to delineate and evaluate the social and technical interactions of a PPGIS project in Meinung community.

The purpose of the Meinung PPGIS project is to draw a common vision of community development by empowering stakeholders whose original views were in great variety. This study traces actor-network interactions through people, organization, institution, and PPGIS technology. The actors and their networks before and after PPGIS implementation are compared.

Keywords: *Public participation Geographic information system, PPGIS, Actor-network theory, ANT*