

Measuring Science and Technology Innovation Capacity in Developing Countries: From a National Innovation System

Authors : Haeng A. Seo, Changseok Oh, Seung Jun Yoo

Abstract : This study attempts to examine the disparities in S&T innovation capacity from 14 developing countries to discuss how to support specific features in national innovation systems. It includes East-Asian, Middle-Asian, Central American and African countries. Here, we particularly focus on five dimensions- resources, activities, network, environment and performance- with 37 indicators. They were derived as structuring components of the relevant diagnostic model, which encompasses the whole process of S&T innovation from the input of resources to the output of economically valuable results. For many developing nations, economic industries remain weaker than actual S&T capabilities, and relevant regulatory authorities may not exist. This paper will be helpful to provide basic evidence and to set directions for better national S&T Innovation capacities and toward national competitiveness.

Keywords : developing countries, measurement, NIS, S&T innovation capacity

Conference Title : ICEMBIT 2016 : International Conference on Economics, Management of Business, Innovation and Technology

Conference Location : Paris, France

Conference Dates : October 24-25, 2016