

Summary

[Title] Conceptual Framework and Toolkit for Diagnosis of STI Capacities of Developing Countries towards Global Inclusive Innovation

- **Project leader: Yongsuk Jang**
- **Project participants: Kyung-Mo Sung · Myungjin Lee · Wangdong Kim · Woosung Lee · Sueun Kim**

The purposes of this study are three-folds. First, it finds rationales for global inclusive innovation and demands on STI capacity building of developing countries by thoroughly reviewing all relevant concepts and discussions. Second, it reviews diverse studies and cases on diagnosing STI capacities of developing countries. Third, it identifies a conceptual framework for effective diagnosis of developing countries' STI capacities and drafts a toolkit for diagnosing STI capacities of developing countries.

Based on extensive review of concepts and diagnosis practices and, more importantly, insights from rich experiences with developing countries, this study proposes to focus on three dimensions of developing countries for effectively diagnosing STI capacities. They are; a) national development level or stage, consisting of most of economic indicators, industrial structure (primary industries), imports and exports, global value chain, etc., b) STI system, composed of institutional capacity, S&E human resources, R&D capacity, financial resources, and policy capacity, c) environmental infrastructure as enablers, which are composed of political leadership, administrative governance, social inclusion, educational level, cultural characteristics.

Based on this conceptual framework, this study proposes a draft toolkit for diagnosis of STI capacities of developing countries. However, it is necessary to verify its appropriateness, effectiveness and implementability through close collaboration with diverse international organizations and partners.

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