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TITLE: MEASUREMENT OF INNOVATION IN INPUT-OUTPUT FRAMEWORK

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ABSTRACT:

Facing global challenges, there is a growing recognition that science and technology-based innovation, and innovation in social systems, is likely to be the ultimate driving force to achieve sustained conservation of energy resources and ecosystem integrity, as well as sustained economic growth, simultaneously. Therefore, many countries have sought ways to promote science, technology and innovation policies both effectively and efficiently. While navigating "innovation" properly within the realm of significant political issues, it is much needed that policy makings and evaluations are based on evidences. Input-output analysis has many advantages as a empirical tool to provide evidences regarding mechanisms of innovation, through description of sectoral linkages of technologies via product and process innovation. Further, with much detailed technology information such as technology roadmaps developed by many countries, Input-output tables can be extended to analyze future possibilities of innovation. An analytical framework which maps science to innovation, using input-output table structure, is examined and introduced in the paper.