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Title: Analysis of relationship between sustainability, climate change and innovation in Colombia: An empirical approach

Innovation is a key element to determine new solutions to control contamination, generate new clean process, prevent and mitigate effects of pollution, maintain or increase economic growth and development and guarantee welfare and quality of life. For this reason, the measurement of innovation and relationship with sustainability and climate change is important topic especially in emerging economies that require new strategies to promote innovation to control environmental problems and competitiveness. In this context, this study evaluates through empirical analysis the relationship between innovation, climate change and sustainability in Colombia using different econometric techniques and data base that allow to understand how innovation play an important role in sustainability development and economic growth in countries as Colombia that is characterized by its environmental wealth, biodiversity and vulnerability to climate change. Results of this study suggests the importance of innovation in the generation of clean process and environmentally friendly goods and services and prevention and mitigation of climate change, higher innovation should achieve lower pollution, CO₂ emissions, and environmental problems, and higher competitiveness and economic growth, where it is important to develop political instruments to promote innovation process with environmental criteria that allow through innovation to generate a sustainable development, responsible use of natural resources and activities to control and prevent climate change. Findings of this study are an important input to design and apply policies that integrate innovation and environment as key element of economic growth, development and sustainability in countries as Colombia.