

The Link between Economic Development and The Green Economy

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Economic development initiatives reflect cooperation among the triple helix components of government, academia and industry. The green economy, however, needs to reflect a convergence of green products, services, technologies, and innovations that are anchored in the existence of elements of security, safety, availability and quality in the economy. This new quadruple helix of the green economy (Gouvea, Kassicieh and Montoya, 2013) has implications for all economies but most definitely ones that depend on energy, water and other natural resources for their economic wellbeing.

This paper examines this link by examining the important aspects of inputs into the economic development endeavors such as R&D, quality of life, venture funding, education, telecommunications, social networks, tax structures and incentives, transportation, creativity and entrepreneurial support and linking these activities to success in the security, safety, availability and quality aspects of the green economy. In these models, necessary and sufficient conditions will be examined and a set of models will be explored. The linkages between these models will also be explored to determine the easiest path to success.

In linking the parameters of economic development and the quadruple helix of the energy and water resources, it is important to develop a set of models that can predict accomplishments in these areas and their influence on the results. The institutional intelligence needed to build these models is discussed as the bridge to the next phases in this area.

Conclusions, examples and problems will be provided to explain these linkages.

Keywords: energy, economic development, security, safety