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Revisiting of Water, Energy and Food Nexus

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The need for Water, Energy and Food Nexus (WEFN) is based on two premises; the twin failures of either continuing to operate in a business-as-usual manner using solely the Dasgupta-Heal-Solow-Stiglitz (DHSS) economic model of sustainable growth under scarcity leading to a catastrophe or replacing it by the inapplicable Daly and Georgescu-Roegen entropic natural capital model; and the need of a holistic approach to handle water, food and energy skyrocketing demand caused by population growth. While current economic models handle these resources as independent entities and have to rely on non-state actors to provide the necessary technical changes, the WEFN guarantees the intertwined aspects of collective WEF security and equity employing a holistic approach without losing sight of the applicability. The revisiting in this article not only establishes the existence of the WEFN approach in a more concrete way but also includes proposals both for holistic and increased internal structure under a set of rules which promote the increased success of any solution which will be attempted. A final part regarding the Mediterranean Basin which is comprised by EU Countries and the countries of the South and East Mediterranean demonstrates the challenges faced by a revisiting Mediterranean WEFN that is presented in a holistic perspective.