

論文の内容の要旨

論文題目 Comprehensive evaluation and practical improvement
 of a country's disaster resilience

(国を単位とした災害レジリエンスの総合的な評価と
その向上策に関する研究)

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Over the past decades, disasters have shed their impact all over the world. In order to capture such impact, scholars have shifted from risk-centric and vulnerability-focused approaches to resilience enhancement. However, resilience as a concept has been in a constant debate over its definition, underlying elements, and operationalization. Also, there has been a call from international arenas for a resilience measurement framework. Therefore, the key objective of this research was to develop a theoretically driven framework that can be utilized to measure national disaster resilience.

Fully aware of the inconsistency of the definition, this research embraces the contemporary evolution of disaster resilience as a building ground for its framework. It proposes the framework for understanding national disaster resilience and defines the working definition of resilience as, in short, *an inherent ability within a country that is the product of its systems*.

This research argues that a comprehensive evaluation of a country's disaster resilience should address issues of relevance to all the three resilience capacities: absorptive coping

capacity, adaptive capacity, and transformative capacity. Additionally, a practical approach to evaluate disaster resilience is to assess it in terms of systems which are categorized into four domains. The PINE structure for national disaster resilience measurement was developed, where it proposes that national disaster resilience is the product of capacities from the four domains of systems: People, Infrastructure, Nature, and Enabling Environment.

Based on the PINE structure, indicators were selected with criteria that help reduce the level of subjectivity and misleading effects. The chosen indicators were re-scaled to a comparable unit, normalized by using Z-score approach, aggregated by using average method, and validated.