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Critical Infrastructure and Interdependency Modeling: A Survey of US and International Research

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Key Words: critical infrastructure, critical infrastructure interdependency modeling tools (CIIMT), interdependencies

Summary of Key Points, Issues, Conclusions:

America's health, wealth and security rely on the production and distribution of certain goods and services. The array of physical assets, processes and organizations across which these goods and services move are called critical infrastructures. Recent world events such as the 9-11 terrorist attacks, London bombings and gulf coast hurricanes have highlighted the importance of stable electric, gas and oil, water, transportation, banking and finance, as well as control and communication infrastructure systems. The modeling and analysis of interdependencies between critical infrastructure elements is a relatively new and very important field of study.

It is the purpose of this survey to identify and describe the current area of research and current activities in this field which are being conducted both in the US and internationally. The main objective of this study is to develop a single source reference of critical infrastructure interdependency modeling tools (CIIMT) that could be applied to allow users to objectively assess the capabilities of CIIMT.

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