

Modeling Connected Infrastructure Dynamics

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Sponsors: Integrated Assessment Research Program, DOE Office of Science;
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Description of project:

Connected Infrastructure Dynamics Models (CIDM) expand scientific capacities for assessing infrastructure adaptation as a strategy for reducing risks associated with climate change, technology change, population dynamics and their impacts on critical infrastructure. Given the possibility of future exposures to impacts, scientific approaches for considering adaptation options to increase infrastructure system resilience are needed; and CIDM offers significant potential as a tool in strengthening this aspect of the science. For a number of years, DOE's Integrated Assessment Research Program (IARP) has been supporting a three-laboratory consortium (ORNL, Sandia, and Los Alamos) to expand and improve CIDM as an asset for this and other aspects of DOE's missions, combined with other modeling approaches and data bases.

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