

Guarding Our Critical Infrastructure

Prepared for the Whole of State Critical Infrastructure Sub – Committee meeting



Introduction Slide



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Situational Awareness

Cyberattack forces Wheat Ridge to close city hall

Many city services are unavailable, but the city said it has no reason to believe any personal employee, resident or business ...

9NEWS · 23h



CI Prompt:

With the Russian invasion of Ukraine and their subsequent attacks on Ukrainian Critical Infrastructure multiple agencies reached out in February, 2022, requesting an update on state critical infrastructure, and resources templated to provide security for it.

A meeting between CONG, DHSEM, CISA, and the CIAC identified significant gaps in Critical Infrastructure awareness and response plans that led to an initial working group.

Describing Our Problem

Current State:

- Lack of shared understanding of what is CI
- FSLT maintain multiple discrete systems for tracking CI
- Lack of easily accessible, consolidated list enabling FSLT to secure CI
- Lack of Whole of State method of tying incidents to nearby Critical Infrastructure
- Lack of shared understanding of Response Plans across public and private agencies

Problem Statement

The State of Colorado does not possess a comprehensive (Federal, State, Local, Tribal) Critical Infrastructure protection plan that effectively identifies systems and assets, whether physical or virtual, to support cohesive interagency efforts toward programmatic strategy, resource allocation, nor informed emergency response.

Absent a comprehensive plan, FSLT CI protection programs are fragmented; scarce grants and security resources are allocated without the benefit of understanding dependencies and supply chain impacts; and criticality and significance of critical systems and assets are not available to emergency managers during a disaster.

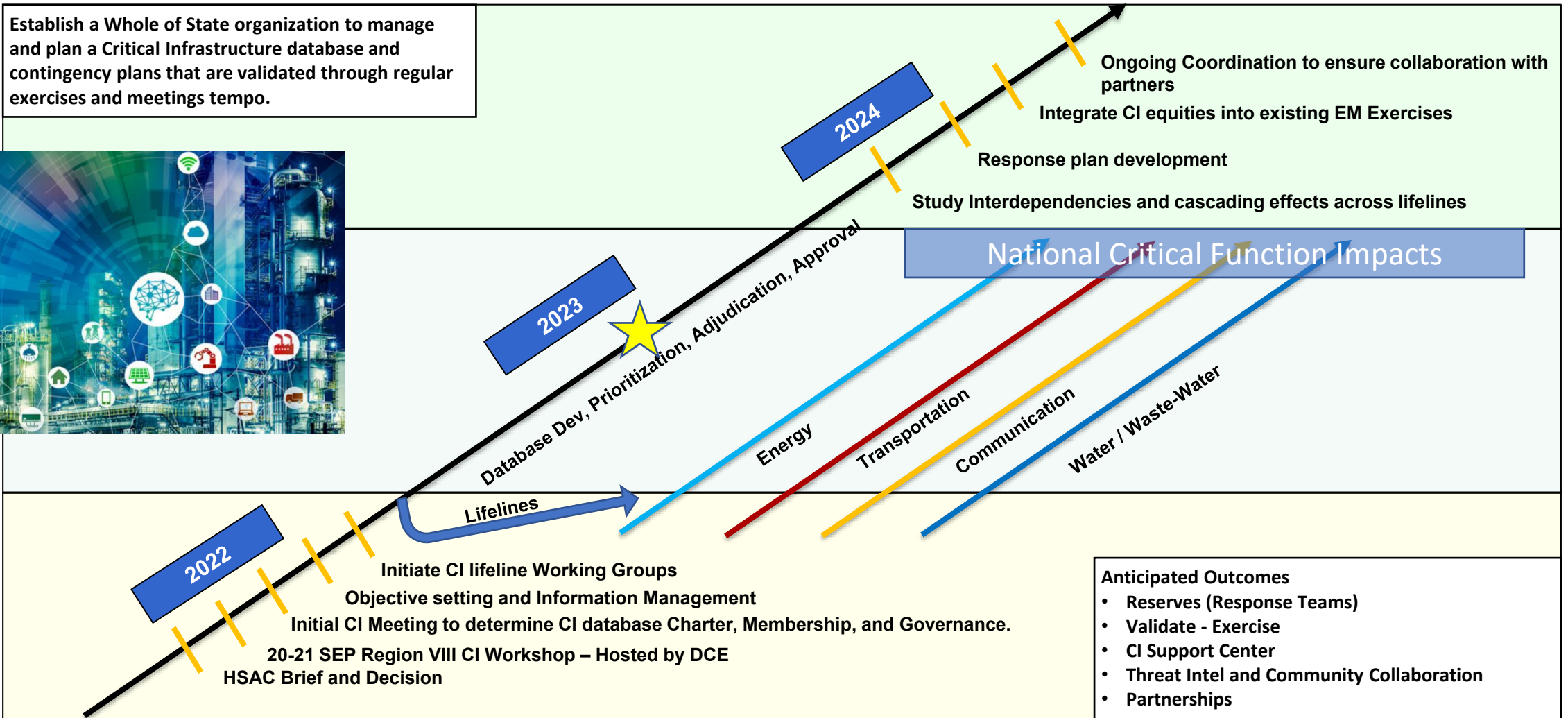


Desired State:

An enduring Whole of State Critical Infrastructure Protection Plan that establishes a comprehensive database of both public and private infrastructure which is critical to the physical and economic security of Colorado; **identifies** the ways and means to protect critical infrastructure from disasters; and **codifies** the plan in a funded statewide program.

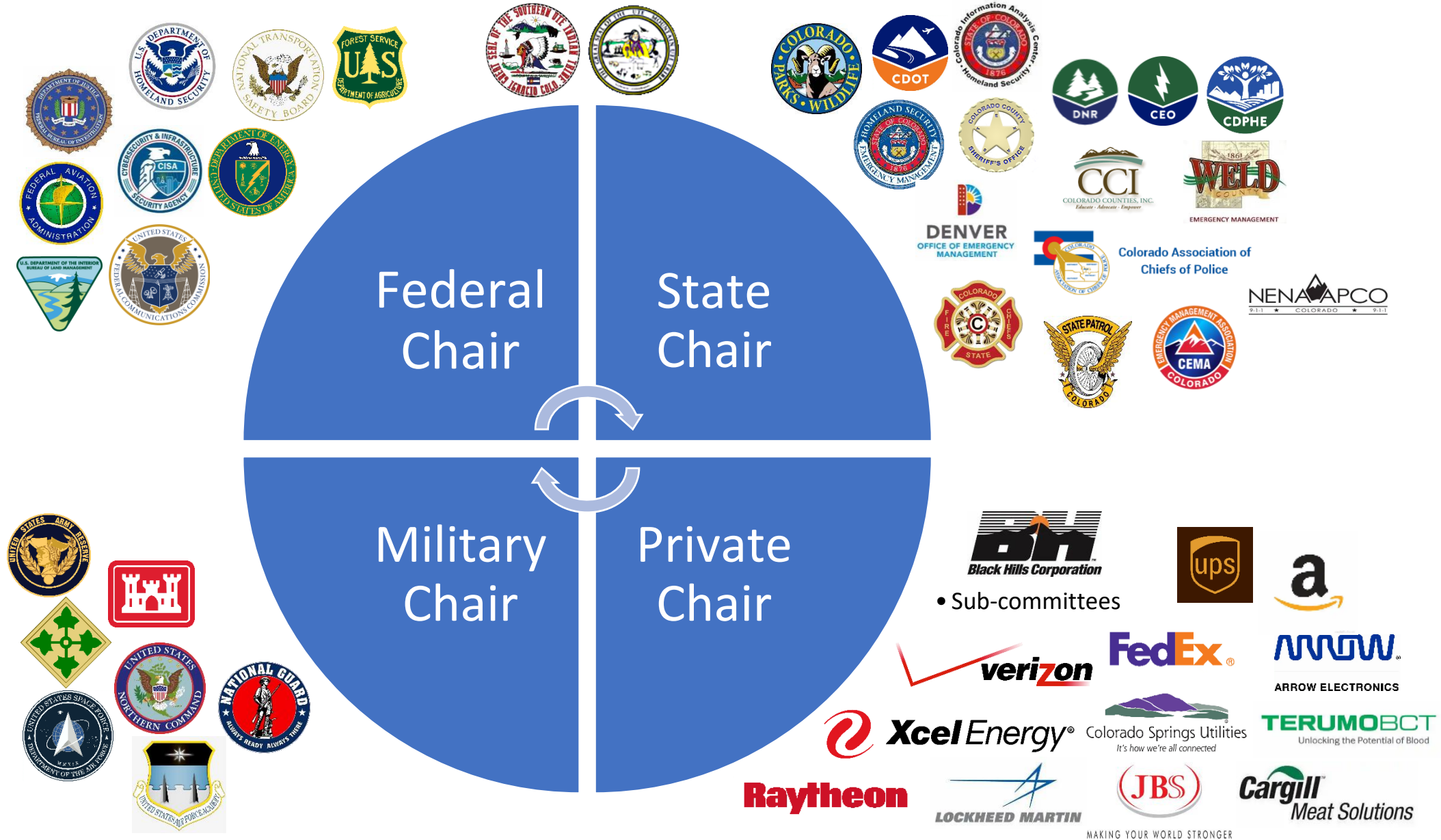
Critical Infrastructure Working Group Glidepath

Establish a Whole of State organization to manage and plan a Critical Infrastructure database and contingency plans that are validated through regular exercises and meetings tempo.



* Coordination across all stakeholders is anticipated to require a monthly meeting to maintain progress, assessments during establishment and existing products may reduce this requirement.

Core Group and Partnerships

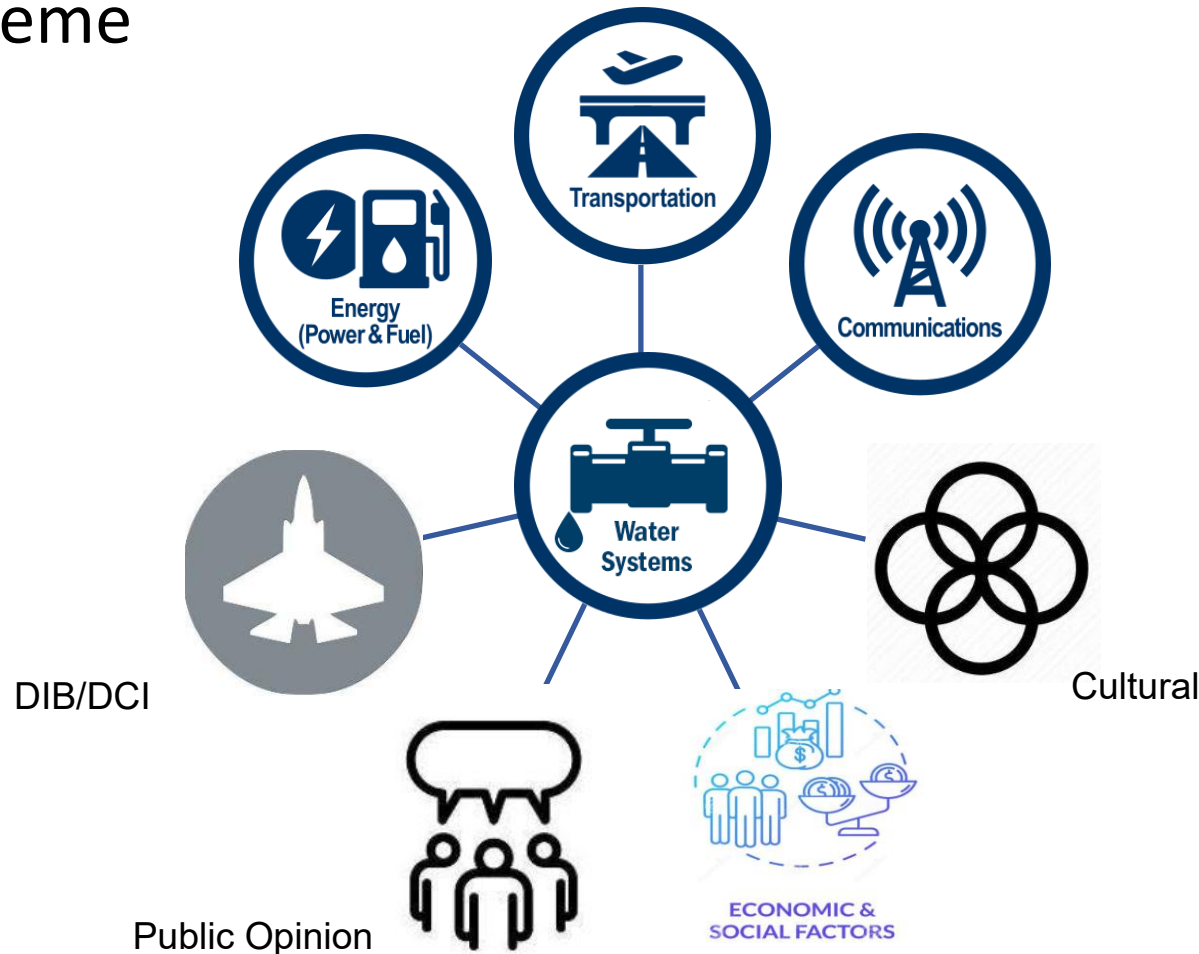


Academia Practitioner Partnership



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Systems Theory: Understanding how different components of a system interact and affect the whole scheme



Representation of adaptation and interdependent failure

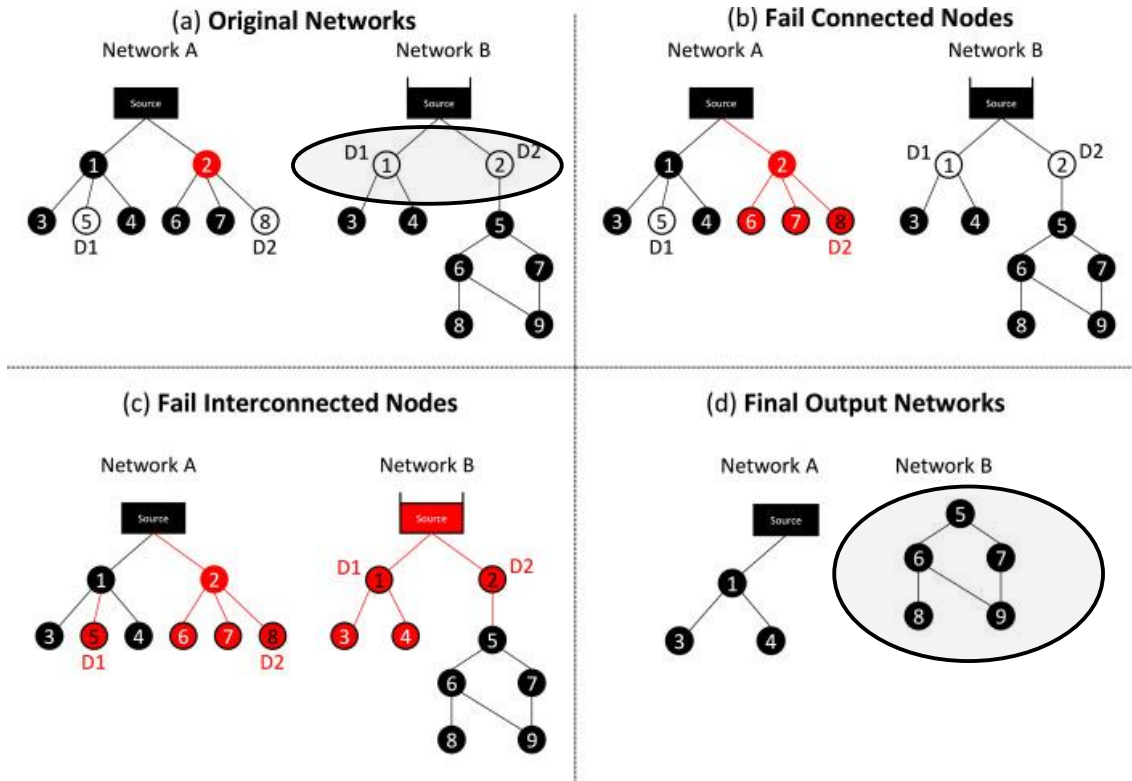


Fig. 1. An example of cascading failure in interdependent simplified infrastructure networks using a percolation theory approach

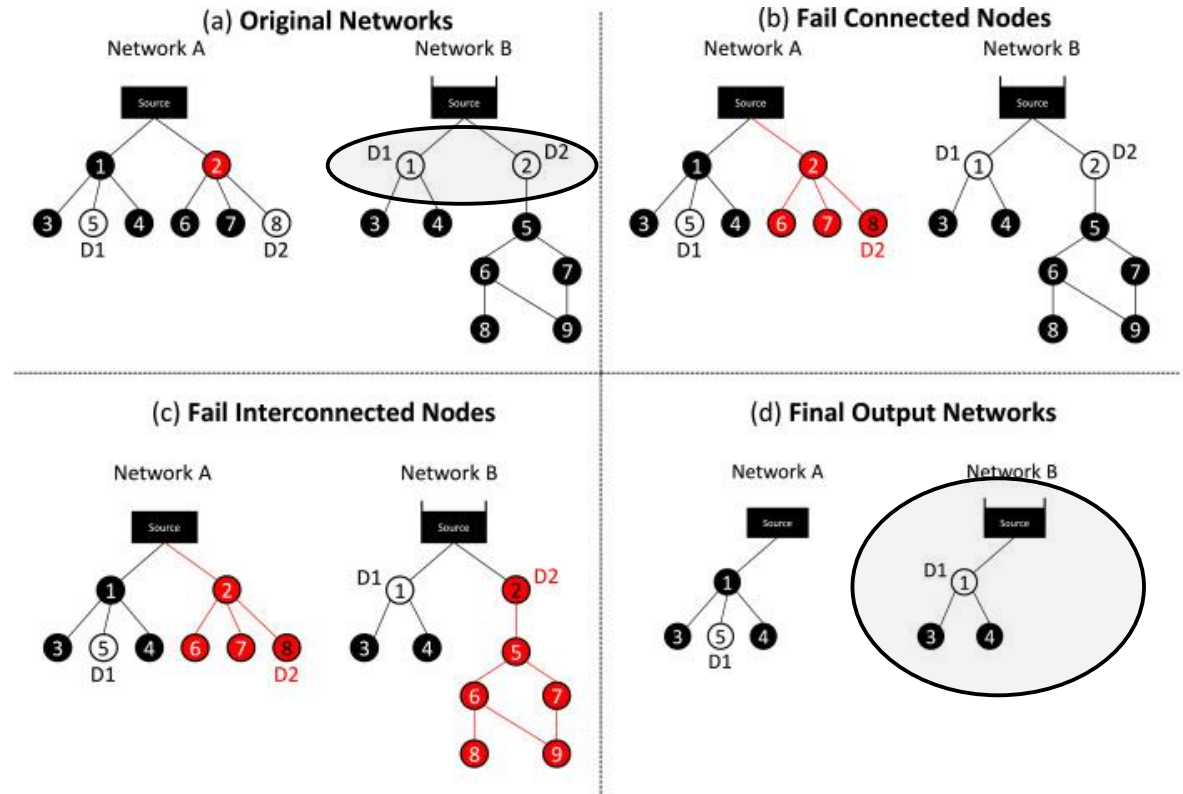


Fig. 3. An example of cascading failure in interdependent networks using our developed hierarchical theory approach

Questions?

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