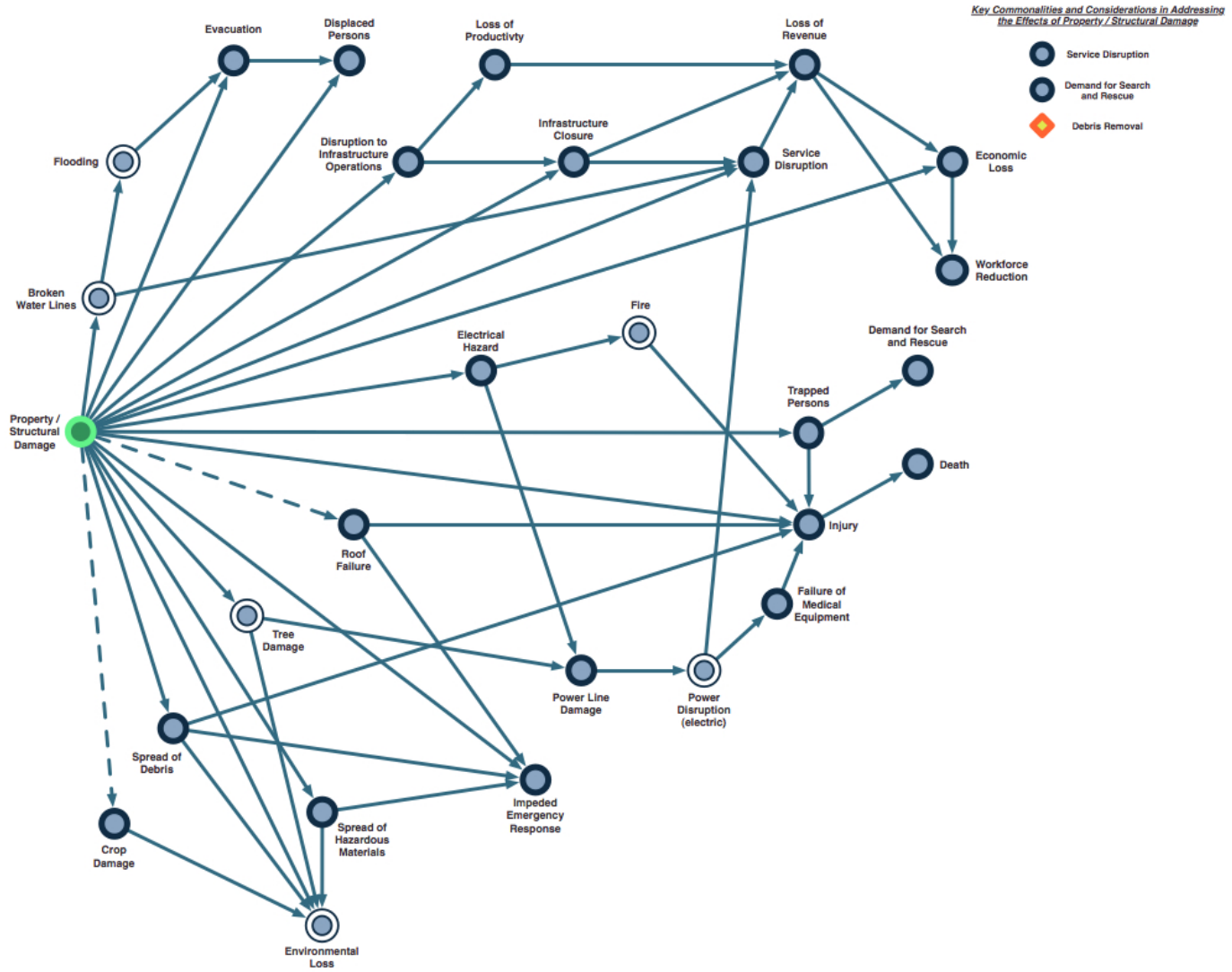
FEMA | The Full-Spectrum Risk Knowledgebase

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Property/Structural Damage Hazard Network

From The Full-Spectrum Risk Knowledgebase



NOTE: As with all hazard network slices included in The Knowledgebase, the above slice is a working draft and may be updated.

Included in the upper right corner of the hazard network are key commonalities and considerations that users should keep in mind when looking at the network. This list is not exhaustive, but highlights issues of importance as related to the effects of property and/or structural damage.

For added reference, a version of the Property/Structural Damage Hazard Network that offers color-coding to indicate causal relationships that may impact Public Health and Safety (including loss of life) and Mission Disruption is available for viewing.

Examples of historical events related to property/structural damage and the downstream hazards above may be found in the Historical Events section of The Knowledgebase and in individual event/hazard descriptions.



Narrative Description of the Hazard Network

Below is a list of the hazards and outcomes caused by property and/or structural damage as depicted in the above network slice. Complementing this narrative description is a list of all Linkages pages found on the Property/Structural Damage Hazard Network.

- Broken Water Lines (which may cause) *(see also the Broken Water Lines Hazard Network)*
  - Flooding (which may lead to) *(see also the Flooding Hazard Network)*
    - Evacuation (which may result in)
      - Displaced Persons
  - Service Disruption (which may lead to)
    - Loss of Revenue (which may result in)
      - Economic Loss (which may cause)
        - Workforce Reduction
      - Workforce Reduction

- Evacuation (which may cause)
  - Displaced Persons

- Displaced Persons

- Disruption to Infrastructure Operations (which may cause)
  - Loss of Productivity (which may lead to)
    - Loss of Revenue (which may result in hazards as previously listed, including Economic Loss and Workforce Reduction)
  - Infrastructure Closure (which may lead to)
    - Loss of Revenue (which may result in hazards as previously listed, including Economic Loss and Workforce Reduction)
    - Service Disruption (which may result in hazards as previously listed, including Loss of Revenue, among others)

- Infrastructure Closure (which may cause hazards as previously listed, including Loss of Revenue, Economic Loss, Workforce Reduction, and Service Disruption)

- Service Disruption (which may cause hazards as previously listed, including Loss of Revenue, Economic Loss, and Workforce Reduction)

- Economic Loss (which may cause hazards as previously listed, including Workforce Reduction)

- Electrical Hazard (which may cause)
  - Fire (which may lead to) *(see also the Fire Hazard Network)*
    - Injury (which may result in) *(see also the Injury Hazard Network)*
      - Death
  - Power Line Damage (which may lead to)
    - Power Disruption (Electric), a type of Service Disruption (which may result in) *(see also the Power Disruption Hazard Network)*
      - Service Disruption (which may cause hazards as previously listed, including Loss of Revenue, among others)
      - Failure of Medical Equipment (which may cause)
        - Injury (which may lead to hazards as previously listed, including Death)

- Trapped Persons (which may cause)
  - Demand for Search and Rescue
  - Injury (which may lead to hazards as previously listed, including Death)

- Injury (which may cause hazards as previously listed, including Death) *(see also the Injury Hazard Network)*

- Roof Failure, a type of Property/Structural Damage (which may cause)
  - Injury (which may lead to hazards as previously listed, including Death)

    - Impeded Emergency Response

- Impeded Emergency Response

- Tree Damage (which may cause) *(see also the Tree Damage Hazard Network)*
    - Power Line Damage (which may lead to hazards as previously listed, including Power Disruption (Electric), among others)
    - Environmental Loss *(see also the Environmental Loss Hazard Network)*

- Spread of Hazardous Materials (which may cause) *(see also the Spread of Hazardous Materials Hazard Network)*
    - Impeded Emergency Response
    - Environmental Loss *(see also the Environmental Loss Hazard Network)*

- Environmental Loss *(see also the Environmental Loss Hazard Network)*

- Spread of Debris (which may cause)
    - Injury (which may lead to hazards as previously listed, including Death) *(see also the Injury Hazard Network)*
    - Impeded Emergency Response
    - Environmental Loss *(see also the Environmental Loss Hazard Network)*

- Crop Damage, a type of Property/Structural Damage (which may cause)
    - Environmental Loss *(see also the Environmental Loss Hazard Network)*

Key Commonalities and Considerations

As noted above, included in the upper right corner of the hazard network are key commonalities and considerations that users should keep in mind when looking at the network. This list is not exhaustive, but highlights issues of importance as related to the effects of property and/or structural damage. These issues include:

Downstream Hazards

- Service Disruption
- Demand for Search and Rescue

Mitigation/Countermeasures

- Debris Removal

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