A Model of Disaster Impacts*

Pre-impact conditions

Hazard exposure

Physical vulnerability

Social vulnerability

Pre-impact hazard management actions Hazard Emergency Recovery mitigation preparedness preparedness practices practices practices Physical Societal impacts impacts Hazardous **Improvised Improvised** incident emergency disaster characteristics response recovery

Event-specific conditions

* Modified from Lindell, Prater, and Perry, 2007

Physical Impacts

- Casualties
 - Deaths
 - Injuries
 - Illnesses
- Property destruction
 - Buildings
 - · Contents (furniture, equipment, supplies)
 - Infrastructure (water/sewer, power/fuel, telecommunications, transportation)
 - Animals and crops
- Environmental degradation / habitat loss

Societal Impacts

Social Impacts:

- Psychological impacts
 - PTSD, Anxiety, Depression, Substance Abuse, etc.
- · Health impacts
 - mortality, disease, long-term physical recovery,
- Demographic impacts
 - Population displacement, dislocation, and loss, etc.
- Economic impacts
 - Business loss, interruption, market instability, etc.
- Political impacts
 - Leadership loss & change, violence, instability, etc
- Resiliency Outcomes:
 - Recovery (speed and quality) & Adaptation

Pre-impact Conditions

A critical element guiding Mitigation Planning should be a convergence or overlay of these three:

· Hazard exposure

Physical vulnerability

Social Vulnerability

These overlap represent modeling and forecast opportunities:

Issues:

