

Asset Management and Natural Disaster Resilience

Asset Leadership Network Annual Conference November 8, 2021



Asset Management Framework



Source: GAO analysis of leading practices. | GAO-19-57

<u>GAO</u>

Key Characteristics of an Asset Management Framework

- Identified 6 key characteristics of an asset management framework based on:
 - 32 in-depth interviews with experts and organizations;
 - ISO 55000 series of standards on asset management;
 - leading practices such as those from the International Infrastructure Management Manual (IIMM);
 - review of asset management literature.



Key Characteristics of an Asset Management Framework



Establishing formal policies and plans



Maximizing an asset portfolio's value



Maintaining leadership support



Using quality data



Promoting a collaborative organizational culture



Evaluating and improving asset management practices

Source: GAO analysis of the ISO 55000 standards, asset management literature, and interviews with experts. | GAO-19-57



Natural Disaster Resilience

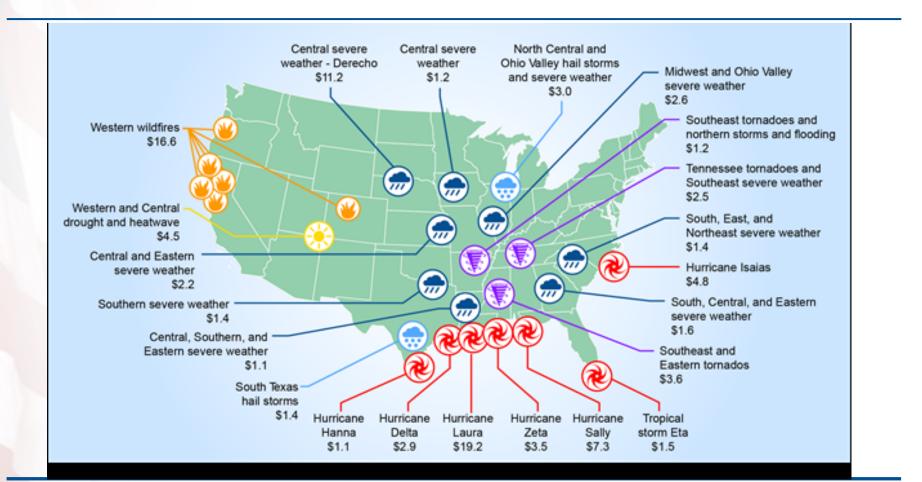
GAO defines natural disaster resilience as:

preparing for anticipated hazards, adapting to changing conditions, and withstanding and recovering rapidly from disruptions caused by natural disasters.

Source: GAO-20-100SP



22 Separate Weather and Climate Disaster Events in the United States in 2020 Costing More Than \$1 Billion in Damages (\$ in Billions) (NOAA)







Jefferson Memorial Rehabilitation Project

Incorporating resilience into individual projects by assessing risks. Jefferson Memorial roof rehabilitation project to repair water damage. (GAO-21-596)





National Park Service

Incorporating resilience into asset management by using quality data. National Mall and Memorial Parks Coastal Hazards and Climate Vulnerability Assessment of over 200 assets. (GAO-21-596)



Federal Government-wide Guidance

- OMB Capital Programming Guide directs agencies to identify project risks.
 - It does not mention risks related to climate or weather.
- January 2021 Executive Order 14008 requires agencies to develop plans describing climate vulnerabilities and steps to increase resilience to effects of climate on facilities and operations.
 - It does not require agencies to incorporate these climate vulnerabilities into investment decisions.
- Recommendation to OMB to direct agencies to do so. (GAO-21-596)

11/10/2021