The Fundamentals of Resilient & Climate Adaptive Design

Designing for resilience and adaptation means designing buildings and spaces to be durable, flexible, and responsive in the face of natural and human-caused disasters, and other hazards and risks. At the start of every project, use this infographic to explore eight design principles to minimize risk and create buildings that readily recover from disruptions and adapt to the future.

PLACE BASED
Understand and communicate the project’s local hazard and climate risks as well as social, environmental and economic challenges and opportunities.

RISK PREPARED
Incorporate a project’s hazard and climate risk, or building vulnerability assessment, when developing a strategy to avoid, mitigate, or reduce damage over the building’s service life. Explore the potential for maladaptation that may unintentionally increase vulnerability.

READY
Plan for disruptions. Support the operation and occupants of the building, including its role in the community during an emergency, outage, or other disruption. Consider emergency preparations, safe shelter, physical protection, and mental well-being.

PRECAUTIONARY
Select durable, low-maintenance building systems and materials that reduce negative consequences such as the release of toxins or wind/waterborne debris if the building or site is damaged.

SYSTEM CENTRIC
Recognize that buildings are part of a community system with inherent interdependencies, opportunities, and potential for unintended consequences. Explore the impacts of the project at the building and community scale and harmonize solutions.

EQUITABLE
Consider all populations to be serviced by the project. Remove barriers to access and service while promoting inclusive social, environmental, and economic benefits for the community.

SERVICE-LIFE FOCUSED
Ensure design choices support building performance throughout the project’s intended lifecycle, balancing first costs and long-term value.

ADAPTIVE
Design the project to accommodate and adapt to changing social, economic, and environmental conditions throughout its anticipated service life.
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