



RESILIENT COUNTY OPERATIONS

ACTION

RCO-4

Adopt criteria for ensuring that all County capital projects are screened for resilience to climate change-related hazards.



DESCRIPTION OF ACTION

Integrating resilience criteria into County capital projects allows the County to build in preparedness features and resilient design for its facilities. While the County currently aligns with FEMA's 100-year criteria for infrastructure design, the County will want to consider additional resilience criteria to adjust for potential impacts informed by more recent climate change projections. This gives the County the opportunity to modify project design as needed in its earlier stages before it becomes too costly to do so later on. This minimizes the County's need for reactive "band-aid" solutions when impacts occur in the future.

LEAD DEPARTMENT

Real Property Management and Public Works

OVERALL TIMEFRAME

Medium

SHORT = Less than 1 year
MEDIUM = 1 - 3 years
LONG = 3 years or more

Planning Considerations

IMPLEMENTATION STEPS	TIMEFRAME	KEY PARTNERS
<p>1 Research resilient design best practices for a range of project types that address both the current and projected climate hazards. Use the most up-to-date climate projections from the climate vulnerability assessment (see action RCO-1) as a guide.</p>	SHORT	<ul style="list-style-type: none"> Environment & Sustainability Buildings & Fire Prevention Information Technology Regional Flood Control District Consultant
<p>2 Use the research to develop a concise, actionable resilient design toolkit to guide the development of County capital projects.</p>	MEDIUM	<ul style="list-style-type: none"> Risk Management Buildings & Fire Prevention Consultant
<p>3 Create a resiliency screening checklist that evaluates both the short-term and long-term resilience of capital projects based on the most recent climate data and resilient design research.</p>	SHORT	<ul style="list-style-type: none"> Consultant
<p>4 Make the resiliency screening a required process during the estimation phase of all capital projects.</p>	SHORT	<ul style="list-style-type: none"> Administrative Services County Manager's Office
<p>5 Host a training for County staff and developers on the resilient design toolkit and new screening protocol.</p>	SHORT	<ul style="list-style-type: none"> Administrative Services Consultant

FINANCIAL AND TECHNICAL RESOURCES

TECHNICAL

- [RELI 2.0 Rating Guidelines for Resilient Design + Construction \(2018\), U.S. Green Building Council](#)
- [Resilient Design Performance Standard for Infrastructure and Dependent Facilities \(2016\), Boulder County Collaborative](#)
- [Smart Growth Fixes for Climate Adaptation and Resilience \(2017\), EPA](#)
- [Development of a Climate Resilience Screening Index \(CRSI\): An Assessment of Resilience to Acute Meteorological Events and Selected Natural Hazards \(2017\), EPA](#)

CONSIDERATIONS FOR COLLABORATION/ OVERCOMING BARRIERS

- Pursue this action in conjunction with developing a climate vulnerability assessment (RCO-1) to help connect the dots between climate change and capital projects.
- Present the long-term cost savings to contractors and County staff to achieve buy-in.
- Emphasize the importance of acting early in the design process for maximum benefits.

MEASURING SUCCESS

OUTPUTS*

- Resilience checklists for County capital projects

OUTCOMES*

- Decrease in the number of County assets vulnerable to climate risks
- Increase in the dollar value of resilience investments (compared to the dollar value of property loss)
- Increase in percent of County capital projects meeting resilience guidelines

*An **output** describes what has been created through implementation of the action. An **outcome** is the level of performance or achievement that occurred based on what was created.