

CITY OF FLAGSTAFF RESILIENCY AND PREPAREDNESS INITIATIVE





MILLION DOLLAR QUESTION

How can the City of Flagstaff reduce its vulnerability and build local resilience to climate variability and climate related disasters?





CITY RESILIENCY AND PREPAREDNESS STUDY

- How vulnerable is the City's operating efficiency, infrastructure and economic competitiveness?
- Where does the City lack sufficient capacity to adapt?
- What are the risks if we do not act?





VULNERABILITY ASSESSMENT

What/who could be impacted by climate?

How does the climate currently impact the City's operations?

What non-climate factors impact the City's operations?

What are the potential impacts to the City's operations?

How prepared is the City for the impacts?



Vulnerability = Exposure + Adaptive Capacity



RISK ASSESSMENT

What is the function within City operations?

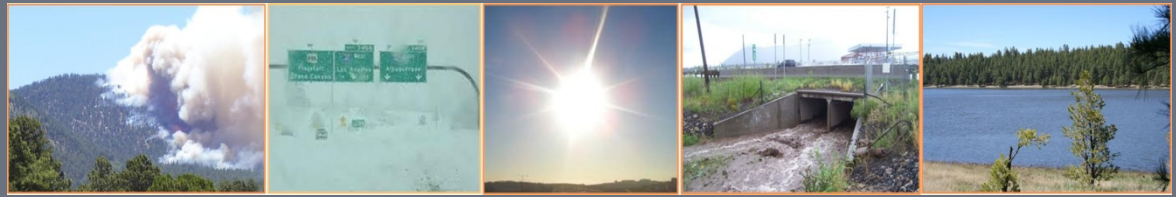
What is the degree of impacts? (Size of the population affected, life threatening, estimated costs)

What is the likelihood that the impacts will occur?



Risk = Critical Function + Degree + Probability

Primary System	Key Planning Areas
Emergency Services	Police and Fire Services, EMS, Disaster Response, Public Works
Energy	Energy Delivery and Assurance, Energy Demand and Cost
Forest Health	Forest Management, Wildlife and Vegetation, Public Infrastructure
Public Health	Public Health Infrastructure, People, Public Services
Stormwater	Buildings, Infrastructure
Transportation	Public Transportation, Transportation Infrastructure, Public Access, Rail, Airport
Water	Water Treatment Quality, Water Resources, Water Infrastructure



POTENTIAL IMPACTS TO CITY OPERATIONS

- Impact to infrastructure by drought and flood.
- Increased severity and frequency of wildfires.
- Reduction of surface water resources.
- Increased stay and impact of forest dwellers.
- Reduced highway and road accessibility.
- Increased cost to produce and treat water.





POTENTIAL IMPACTS TO CITY OPERATIONS

- Increased need for back-up generators.
- Increased use at public facilities.
- Increased frequency and demand for City fleet.
- Change in occurrence of the 100 year flood.
- Reduction in pavement and culvert integrity.
- Increased flight cancelations and delays.





COUNCIL ADOPTED POLICY

- Build, sustain and leverage partnerships.
- Identify vulnerable populations.
- Institutionalize resiliency into City decisions.
- Incorporate into infrastructure development needs.
- Prioritize proactive education.
- Develop criteria for City planning efforts.
- Allocate municipal resources necessary to adapt.





LESSONS LEARNED

- The power of leadership
- Follow a team approach with broad representation.
- The benefits of not creating a plan.
- Focus internally on things you can control first.
- Adapt the process as you go along.



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