

Flagstaff Climate Action and Adaptation Plan

Annual Update

November 26, 2019



Goals

Discussion

- Transparency
- Communicate progress
- Maintain momentum

- Progress in 2019
 - Implementation Strategy
 - Focus Areas
- What's next in 2020
 - Accelerating Action





CAAP
Foundations
*Implementation
Strategy*

2019

IMPLEMENTATION STRATEGY

Kickstarting Implementation & Leadership

- ▶ Identified CAAP implementation as a City Council priority.
- ▶ Joined the Global Covenant of Mayors.
- ▶ Included climate in FY19-20 budget considerations.
- ▶ Implementation blueprints for all 150 action items.



IMPLEMENTATION STRATEGY

Organizational Capacity & Priorities

- ▶ Building internal capacity.
 - ▶ Holding meetings with each division director and section manager.
 - ▶ Presenting to teams.
 - ▶ Developing shared language.
- ▶ Sponsoring cross-division staff in climate-related training and capacity building.
- ▶ Hiring 1.5 new climate positions in FY19-20.



IMPLEMENTATION STRATEGY

Community Capacity

- ▶ Trained 72 community Climate Ambassadors.
- ▶ Launched the Climate Leaders course.
- ▶ Held the Climate Action Challenge and the Youth Climate Summit.
- ▶ Created many new NAU partnerships.



IMPLEMENTATION STRATEGY

Operationalizing Equity

- ▶ Equity leadership training in the Sustainability Section.
- ▶ Equity checklist pilot.
- ▶ Equity-focused communications.



IMPLEMENTATION STRATEGY

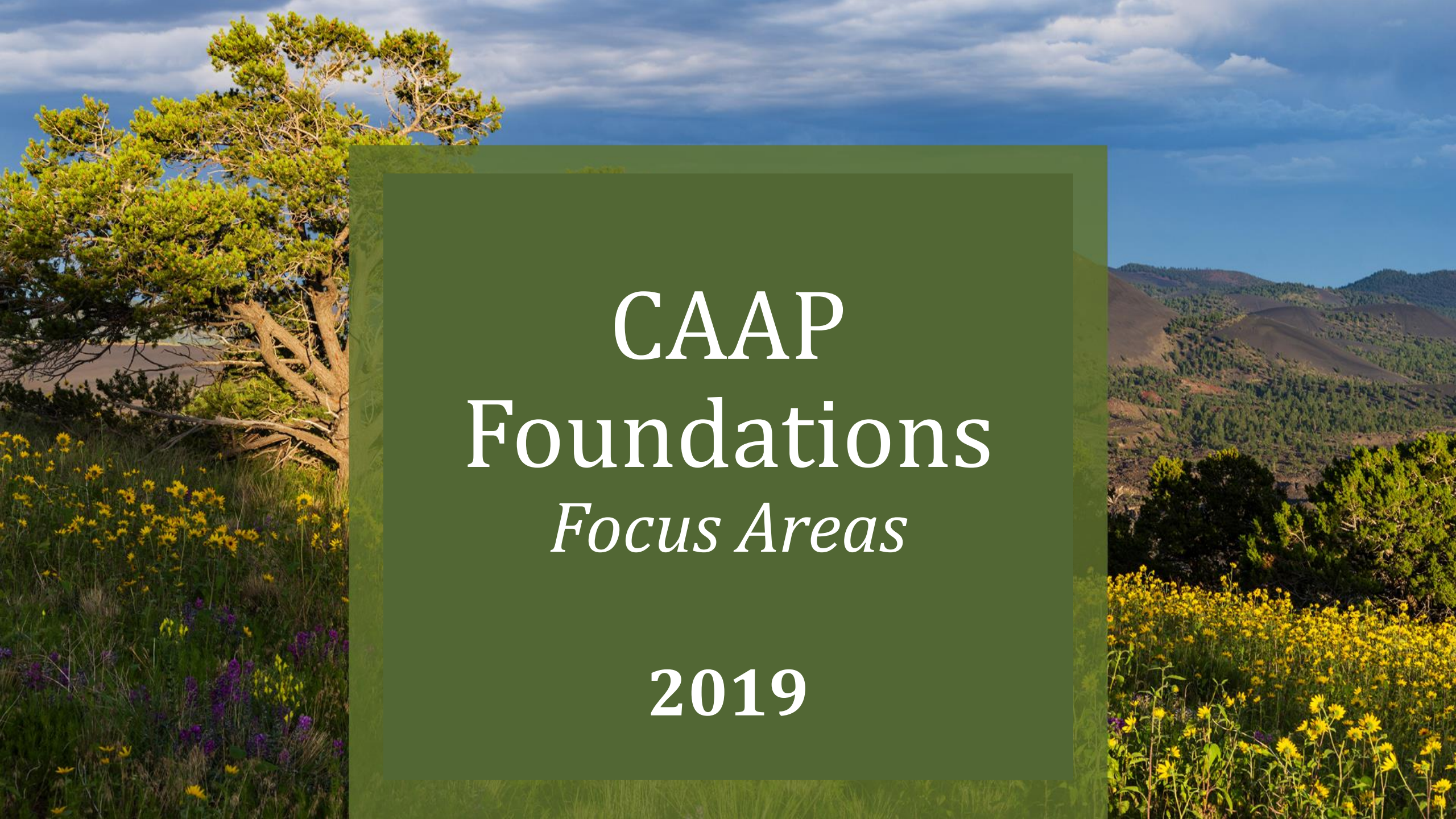
Accountability & Reporting

- ▶ Built an online CAAP platform to report on progress.
- ▶ Currently Developing:
 - ▶ CAAP website.
 - ▶ CAAP 2019 Annual Report.



Flagstaff Climate Action and Adaptation Plan Progress Dashboard

FOCUS AREA	STRATEGY	ACTION ID	DESCRIPTION	STATUS
	STRATEGY 9. Support community leadership on climate action.	IM-9-A	Develop Climate Ambassadors and climate leadership training programs.	COMPLETE
		IM-9-B	Strengthen efforts to support youth climate education and action.	IN PROGRESS
		IM-9-C	Create community working groups as needed to tackle challenging implementation topics or undertake work where greater community collaboration is needed.	IN PROGRESS
	STRATEGY 10. Integrate equity		Establish a climate and equity working group to	



CAAP
Foundations
Focus Areas

2019



Natural Areas

- ▶ Drafted the McMillan Mesa Management Plan.
- ▶ NAU piloted an innovative new chip and ship partnership.

Water Conservation

- ▶ Developed the Water Conservation Strategic Plan.
- ▶ Launched the City Hall native landscaping pilot project.



Energy

- ▶ Updated the building code to increase efficiency, reducing energy costs in new homes.
- ▶ Launching a new rental housing sustainability initiative.

Transportation & Land Use

- ▶ Furthered electric vehicle adoption: fleet, codes, EV charging.
- ▶ Community Development launched the Housing Commission.
- ▶ Increased Community Development and Sustainability collaboration.



Waste & Consumption

- ▶ Launched a composting pilot with NAU.
- ▶ Initiating our food waste prevention programming with a new food waste calculator tool.

Public Health & Emergency Services

- ▶ Developed a new K-12 in-school climate curriculum.
- ▶ Attended the Pew Charitable Trust symposium on the intersection of health, climate change and equity.



Economic Prosperity & Recreation

- ▶ Launched the Innovate Waste Challenge to support new waste-focused businesses.
- ▶ Upcoming installation of smart irrigation water systems at many Parks.
- ▶ Partnered with APS on City Hall EV Chargers, which will support downtown visitors.



Accelerating Action

2020



2020 Approach

- ▶ Organizational integration.
- ▶ Mitigation – adaptation – equity nexus.
- ▶ Operationalizing equity.
- ▶ Community resiliency programming.
- ▶ Data-driven decisions.
- ▶ 2030 goals.



Organizational Integration

- ▶ City Manager's Roundtable.
- ▶ Climate Action Committee.
- ▶ Working Groups.
- ▶ Climate mitigation & adaptation analysis as part of the FY20-21 budget process.



Community Resiliency

- ▶ Neighborhood Resilience Groups.
- ▶ Regional collaboration on resiliency.
- ▶ Sustainability Leaders course.
- ▶ Clean air hub pilot.



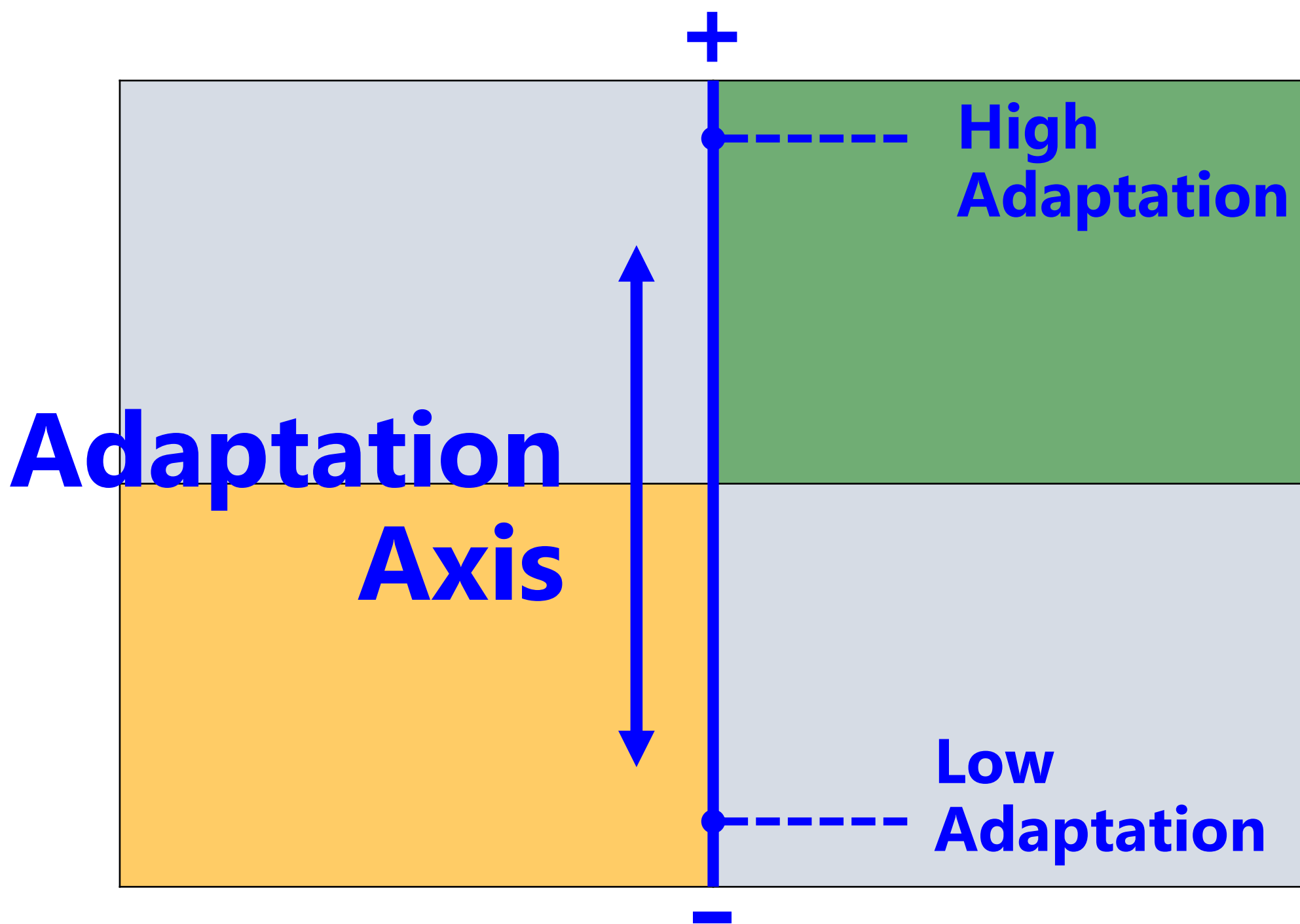
Operationalizing Equity

- ▶ Equity checklist incorporation across the organization.
- ▶ Equity trainings for more staff.



Mitigation-Adaptation-Equity Nexus

- ▶ Identification of opportunities to take climate action through existing operations.
- ▶ A climate lens can be used to analyze current and new programs across the organization.
- ▶ Three considerations, in line with CAAP goals:
 - **Mitigation:** reducing emissions - how we contribute to climate change.
 - **Adaptation:** increasing resiliency to shocks & preparedness for change.
 - **Equity:** considering the most vulnerable & distribution of benefits.



Mitigation Axis

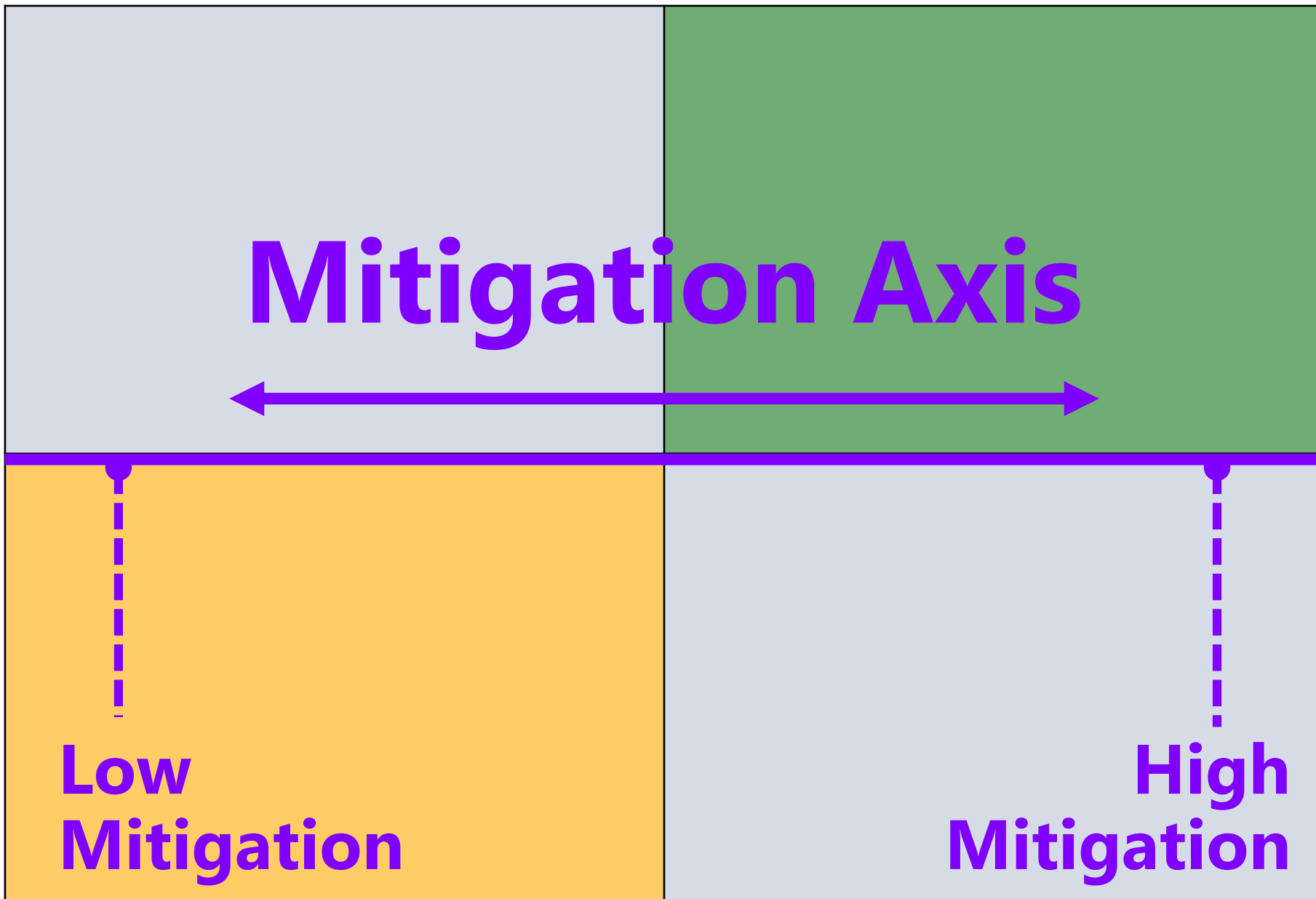


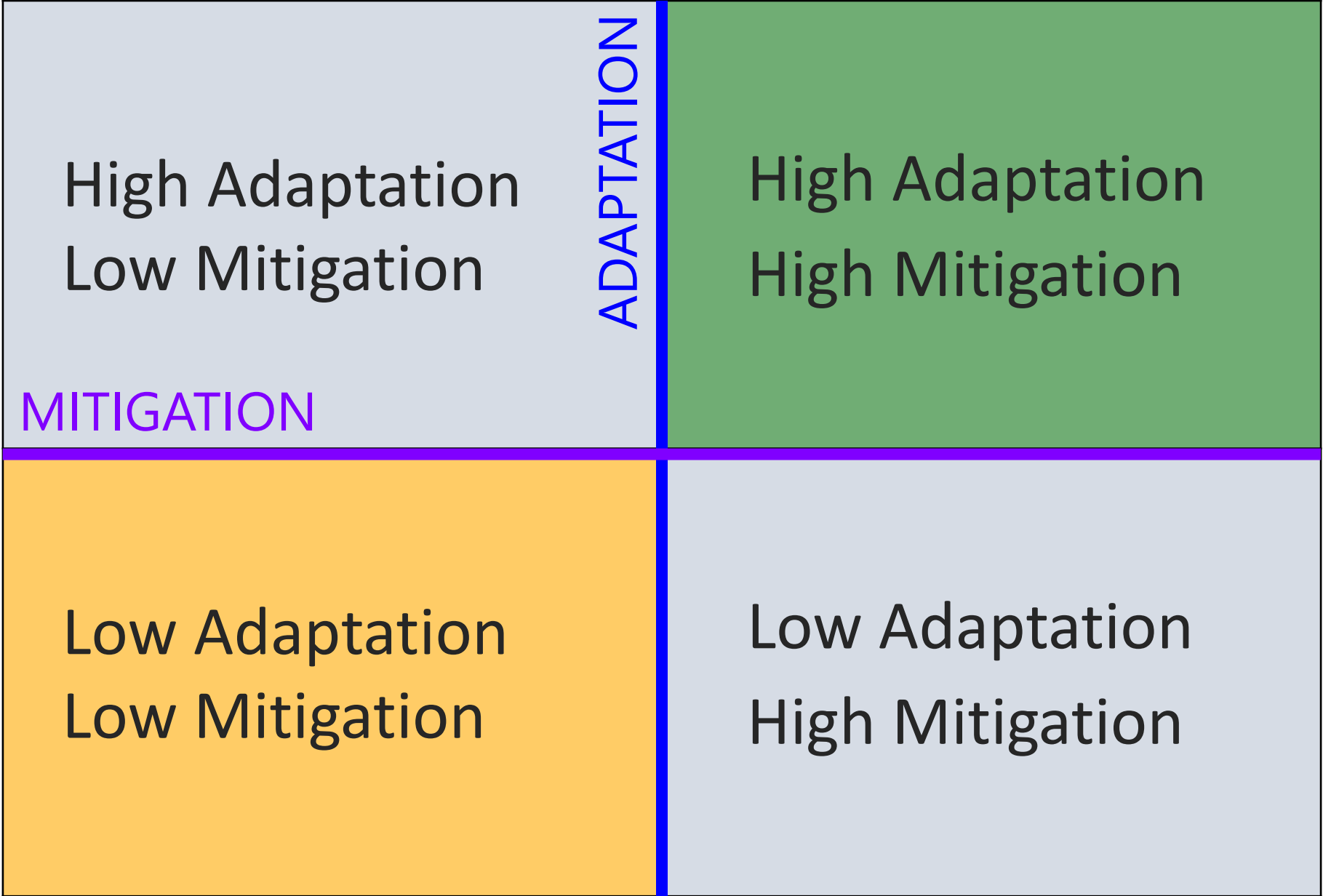
-

+

Low
Mitigation

High
Mitigation





High Adaptation
Low Mitigation

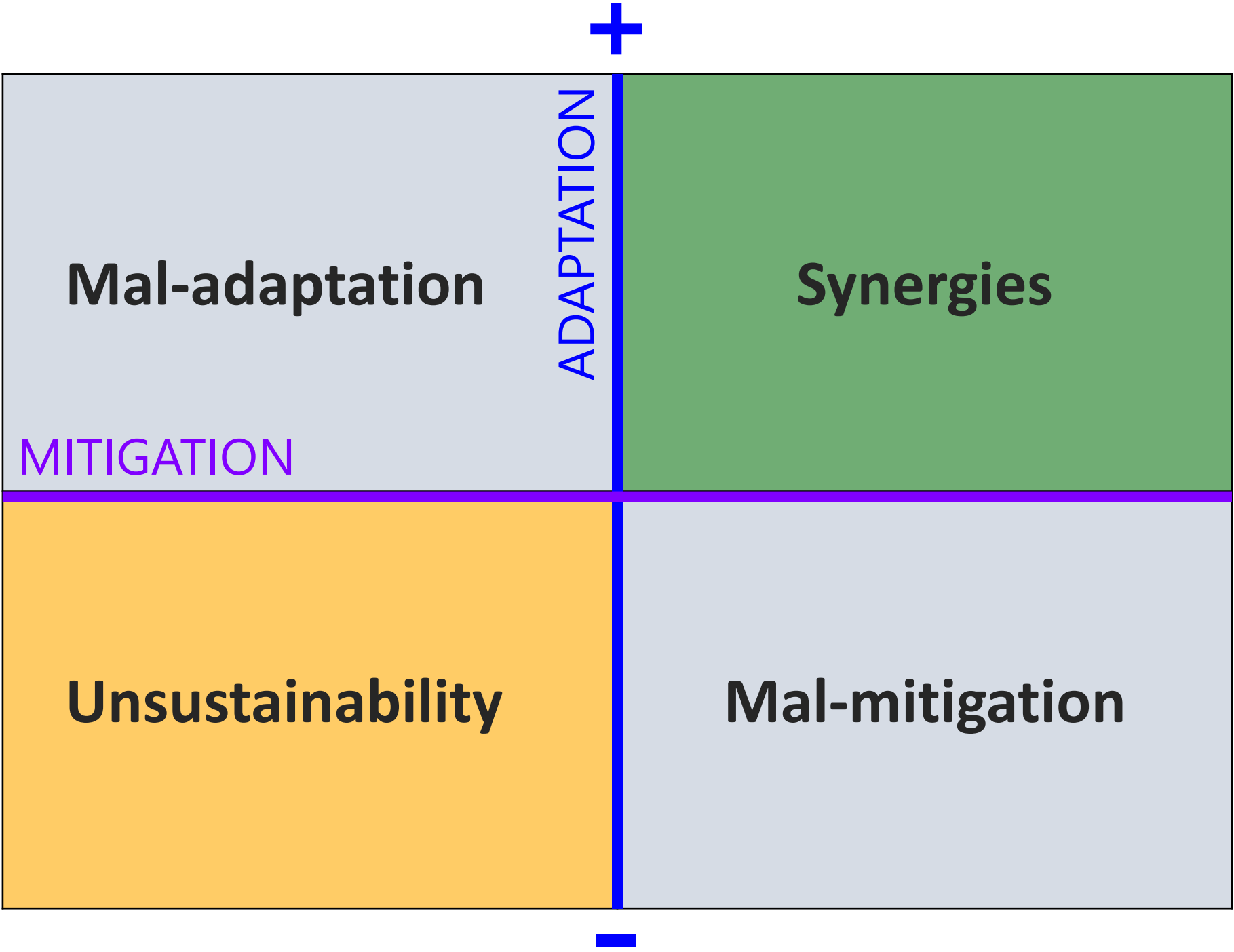
High Adaptation
High Mitigation

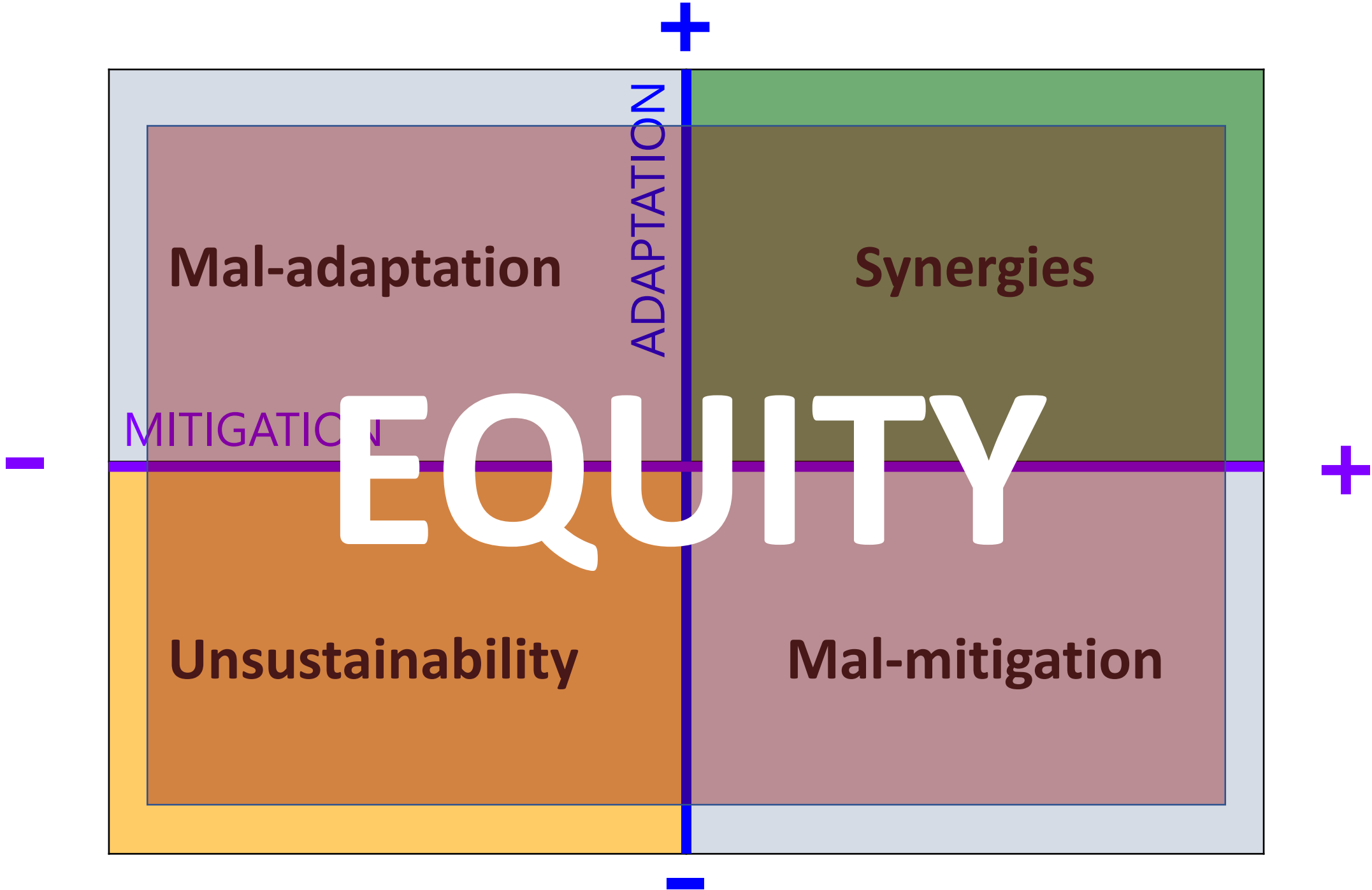
MITIGATION

Low Adaptation
Low Mitigation

Low Adaptation
High Mitigation

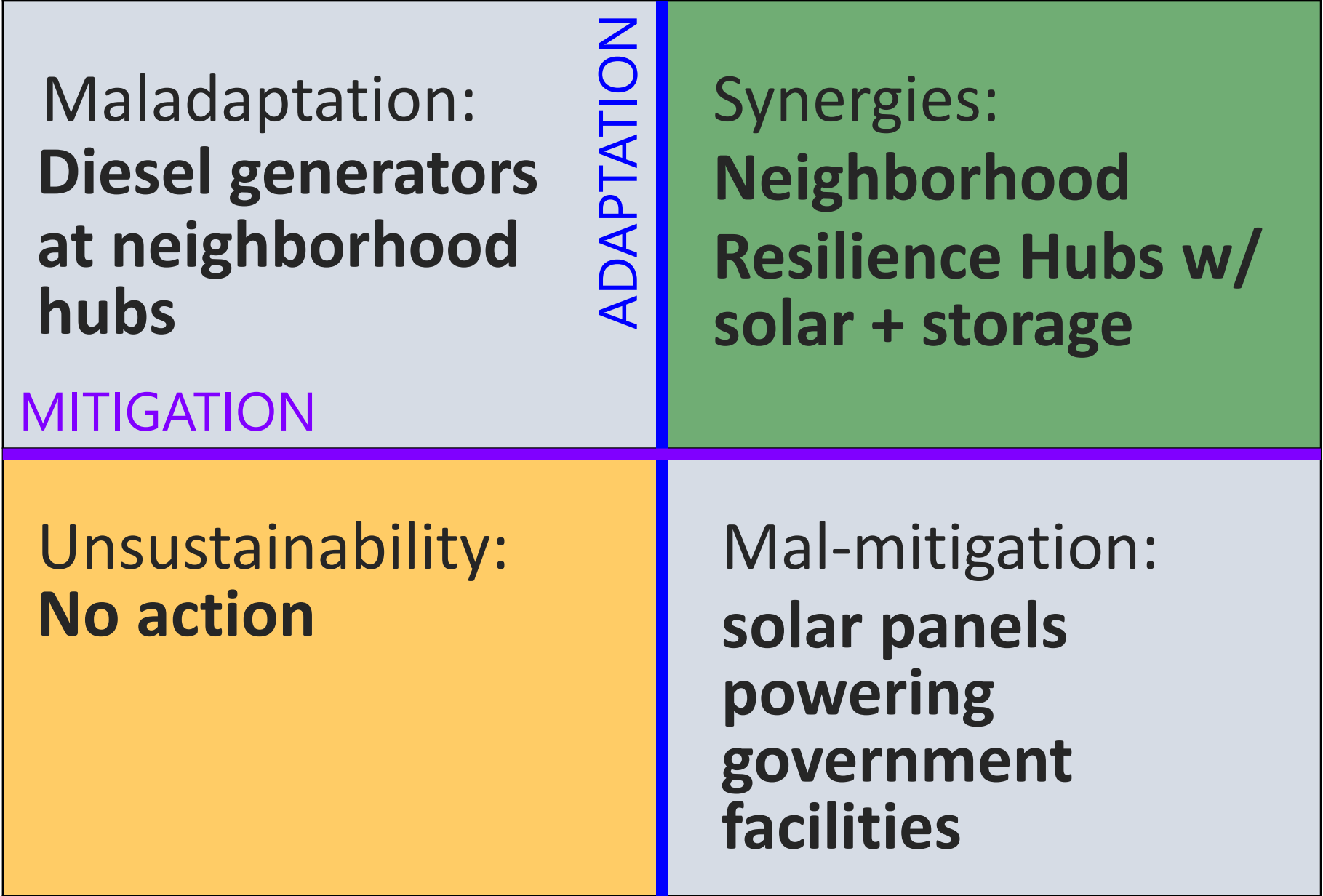
ADAPTATION

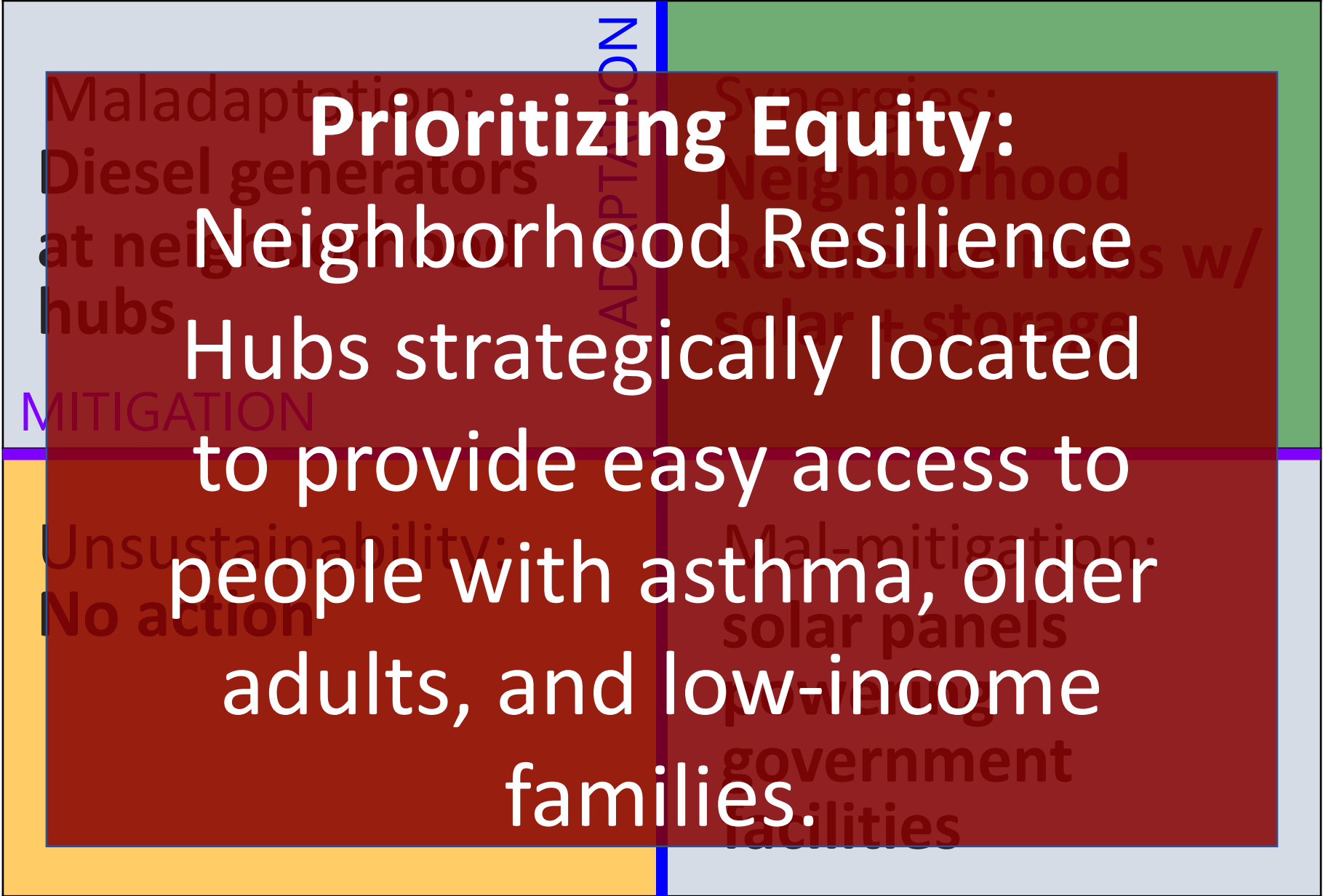




**Demonstration
example:**

**Increased frequency
of power outages**





Prioritizing Equity:
Neighborhood Resilience
Hubs strategically located
to provide easy access to
people with asthma, older
adults, and low-income
families.

Maladaptation:
Diesel generators
at neighborhood
hubs

Synergies:
Neighborhood
Resilience Hubs w/
solar + storage

Unsustainability:
No action

Mal-mitigation:
solar panels
powering
government
facilities

MITIGATION

ADAPTATION



Data-driven approach

- ▶ More informed decisions can be made through better data about climate impacts and costs.
- ▶ Data improvements include more detailed greenhouse gas impact information and specific vulnerabilities.
- ▶ Will aid identification of both the lowest-hanging fruit and our greatest challenges.



IPCC 1.5 Degree Report

- ▶ In October 2018, the Intergovernmental Panel on Climate Change (IPCC) clarified the need to hold warming at an average global temperature increase of 1.5 degrees Celsius.
- ▶ The CAAP mitigation goal (80x50) supports holding temperature change to 2 degrees Celsius.
 - ▶ The IPCC reports that 2 degrees Celsius will be catastrophic, and urges governments to set targets for 2030.
- ▶ Greater action and revised targets are needed.

Questions?

Thank You!

**Jenny Niemann
Climate and Energy Specialist**

**JNiemann@FlagstaffAZ.gov
928-213-2150**