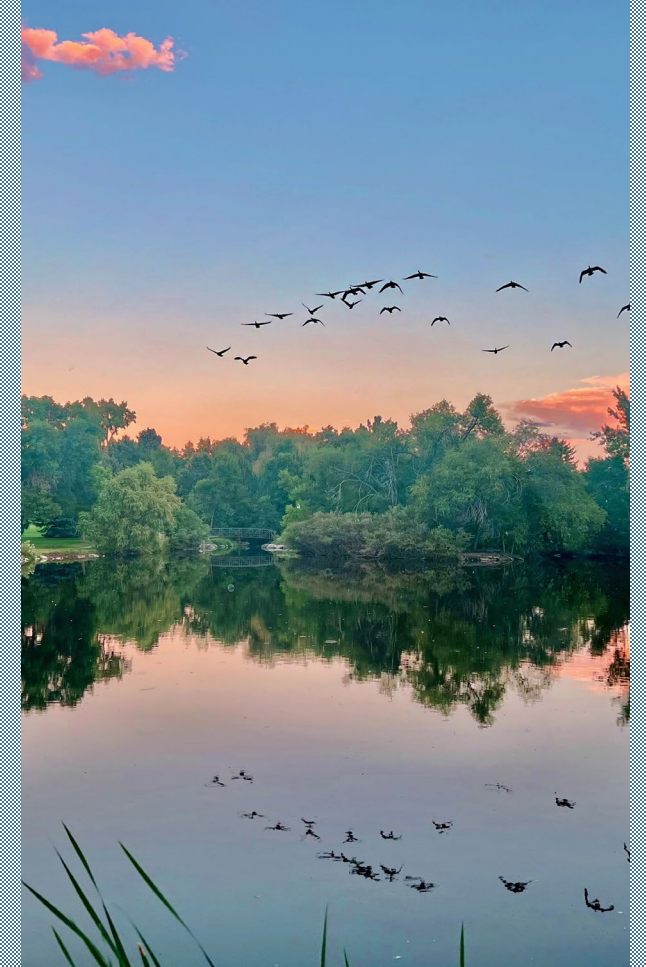


LITTLETON CITY COUNCIL STUDY SESSION

Climate Risk & Vulnerability
Assessment (CRVA)

MAY 26, 2026



TODAY'S AGENDA

Time (min)	Topic
5 min	CRVA Project Overview
10 min	CRVA Approach
10 min	CRVA Progress
5 min	Next Steps and Questions



CRVA PROJECT OVERVIEW



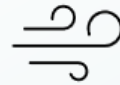
ABOUT CLIMATE RESILIENCE

What is Climate Resilience?

“Climate resilience is the ability of a social, economic, and environmental systems to prepare for, withstand, adapt to, and recover from the impacts of climate change.”

- [What is Climate Resilience, and Why Does it Matter? - Center for Climate and Energy Solutions](#)

Local Climate Risk Headlines



Xcel likely to shut off power to many Front Range communities Wednesday due to dry conditions and high winds. Here's what you can do
-Dec 16, 2025



Colorado is bracing for dangerous record heat wave Wednesday
-Jul 9, 2025



Denver Water Issues Stage 1 Drought Response
-Mar 25, 2026

WHAT IS A CLIMATE RISK AND VULNERABILITY ASSESSMENT (CRVA)?

An important early step in climate resilience to inform future plan/strategy development



Adapted from the [Training & Workforce Development – Climate Smart Communities Initiative](#).

Project Schedule

	2026										2027							
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
Task 2: Research and Data Collection																		
Task 3: External Planning		TWG #1	CC Pres	TWG #2 & ESB Pres														
Task 4: Community Engagement			SC #1	Surv Open	Pub Event x3	Surv Close	SC #2											
Task 5: Hazard Analysis Summarization																		
Task 6: CRVA Development and Drafting									TWG #3								TWG + SC WS	
Task 7: Final CRVA and Presentations													ESB Pres	CC Pres			Final CRVA	Close Out



TWG – Technical Working Group
SC- Stakeholder Committee
ESB – Environmental Stewardship Board
CC – City Council
Surv – Community Pulse Survey

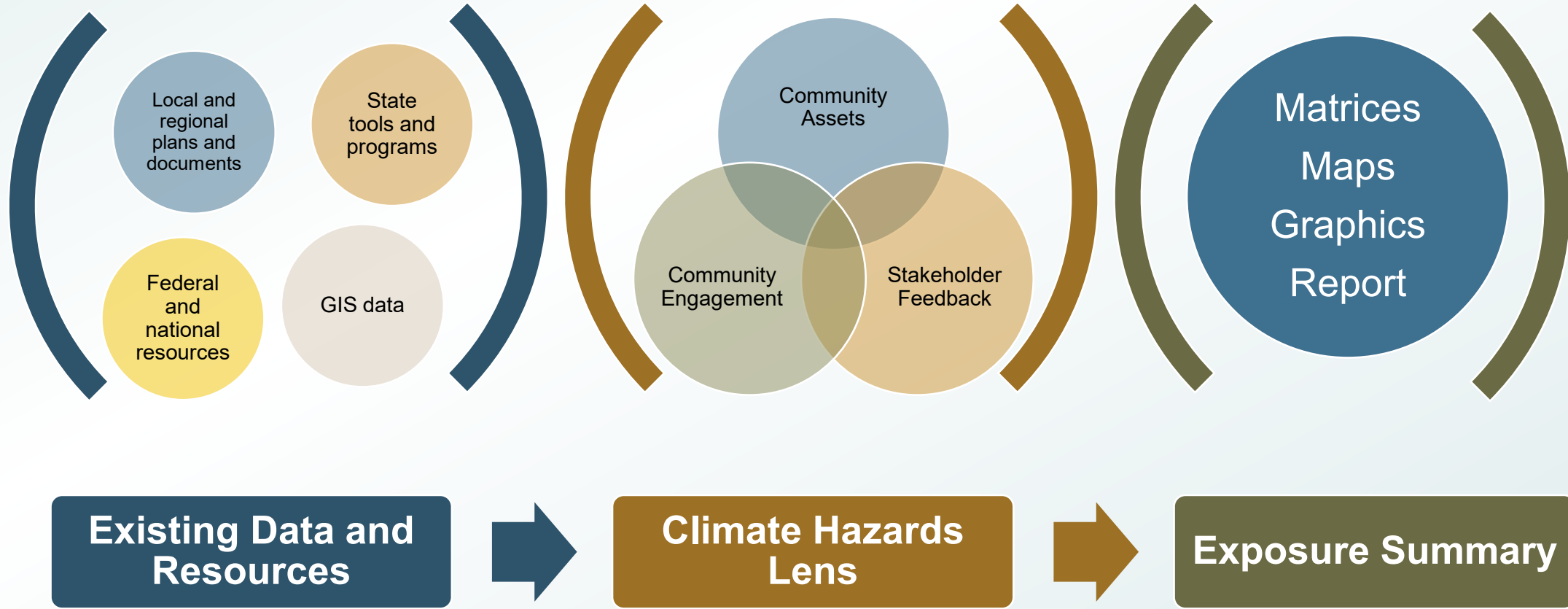




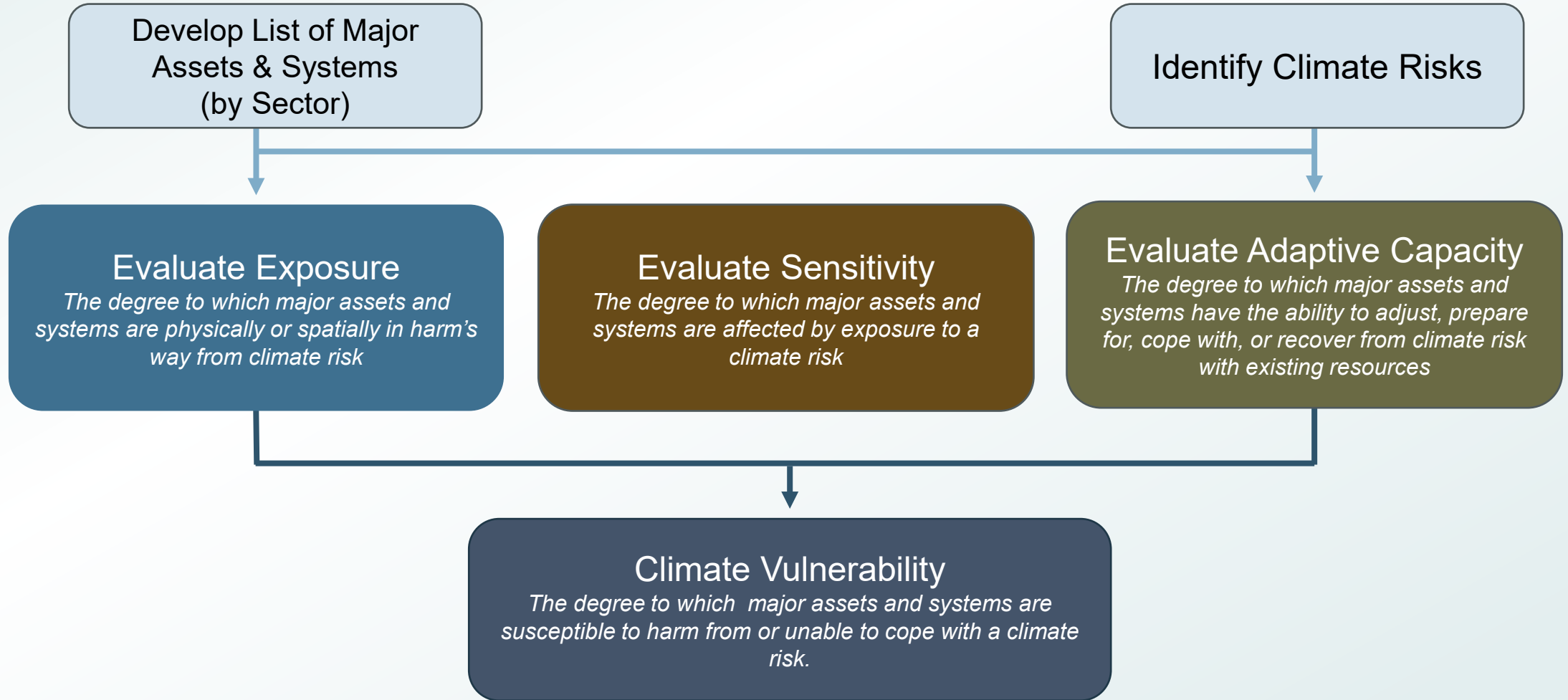
CRVA APPROACH



RESEARCH & DATA COLLECTION PROCESS

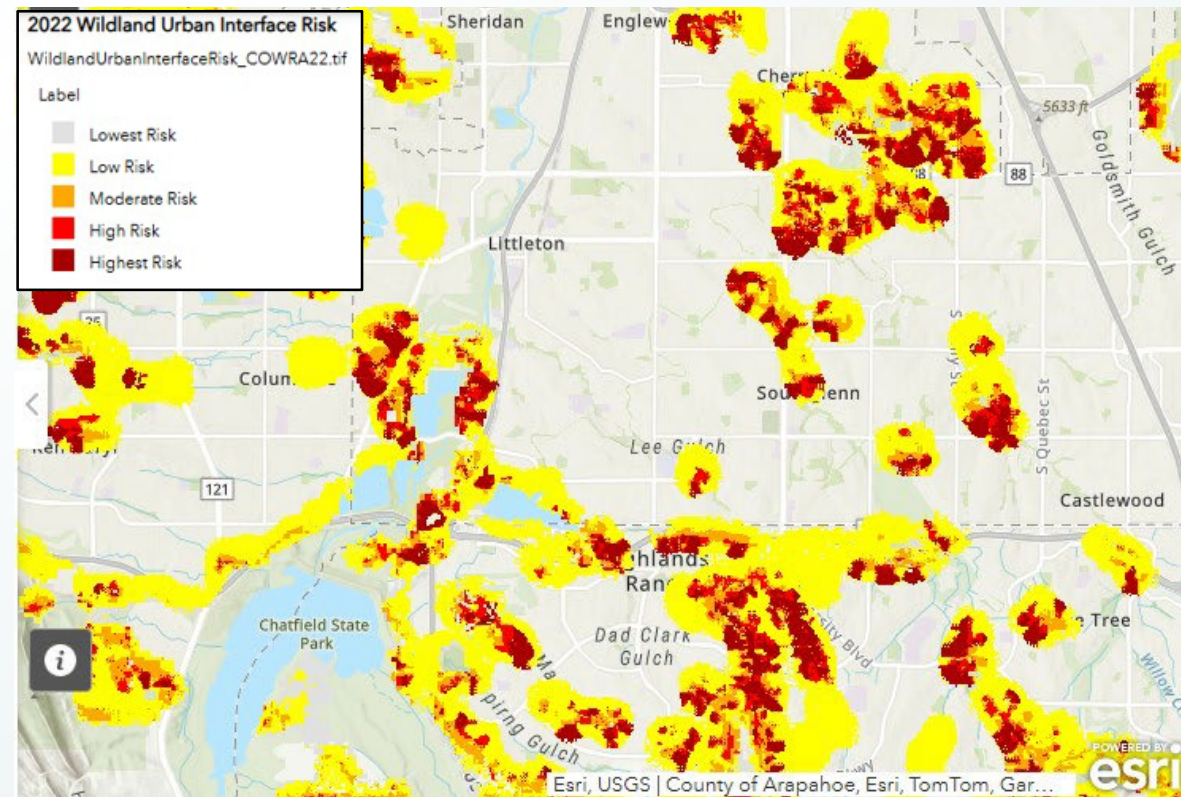


CRVA METHODOLOGY



IDENTIFYING MAJOR ASSETS & SYSTEMS

- Reviewed existing documents to identify
 - Data availability
 - Preliminary risks and vulnerabilities
- Collected GIS data
 - Basemap layers
 - Climate risks & hazards
 - Major assets & systems
- Drafted Initial Maps for TWG Feedback
 - Additional data for major assets & systems
 - Boundary for analysis
 - City limits
 - 1.5-mile buffer
 - 3-mile buffer



TECHNICAL WORKING GROUP

- **Role:** Provide technical expertise and feedback on the project approach, methodology, and deliverables
- Four workshops:
 1. Review initial risks and vulnerabilities
 2. Review sensitivity and adaptive capacity. Prep for community engagement
 3. Review updated risks and vulnerabilities
 4. Review draft deliverables
- Will also serve as committee for DOLA Infrastructure and Facility Prioritization
- First workshop was 4/23



STAKEHOLDER COMMITTEE

- **Role:** Provide community-informed input to validate risks and vulnerabilities while ensuring comprehensive community outreach
- Three workshops:
 1. Review initial risks and community engagement plan
 2. Review community event takeaways and summarize themes
 3. Review drafted CRVA to ensure community input is reflected
- Workshop #1 was today!

COMMUNITY ENGAGEMENT (DRAFT)



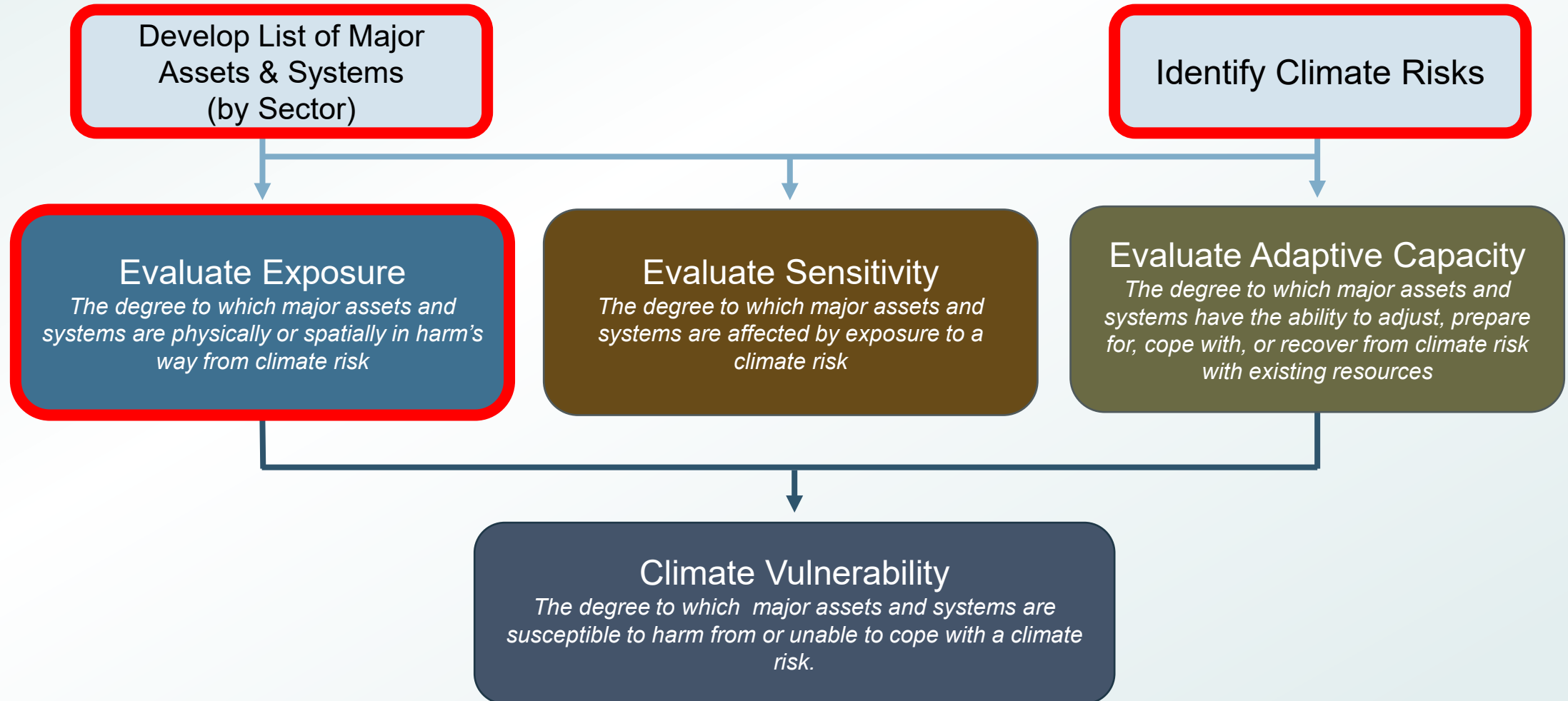
- 4 focused community conversations
 - Businesses
 - Residents/community-based orgs (English and Spanish)
 - Senior living residents
 - Students
- Littleton summer events
 - Meet, Greet, & Eat
 - Community open house
- Community pulse survey



CRVA PROGRESS



CRVA METHODOLOGY: EVALUATING EXPOSURE



CLIMATE RISKS



Wildfire Risk: Low-Moderate

Littleton has not historically experienced wildfires

Trailmark area is adjacent to wildland urban interface (WUI) and has higher exposure¹



Extreme Heat Risk: Moderate

Over 30 years, average of 34 days per year over 90°F²



Drought Risk: Moderate

From 2000 to 2025 Arapahoe County has experienced 20 years with some level of drought³



Flooding Risk: Moderate

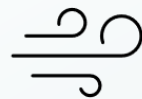
FEMA: 1.3 occurrences per year in Littleton Census Block Groups⁴



Extreme Storm Risk: Moderate

Winter weather and winter storm events occur every year in Arapahoe County⁵

Hail is responsible for a majority of “catastrophic disasters” in Colorado since 1984⁶



Extreme Wind and Tornadoes Risk: Moderate

Severe wind events are common, with an average of 4 per year in Arapahoe County⁵

Sources:

¹ Colorado State Wildfire Risk Viewer

² The Climate Explorer

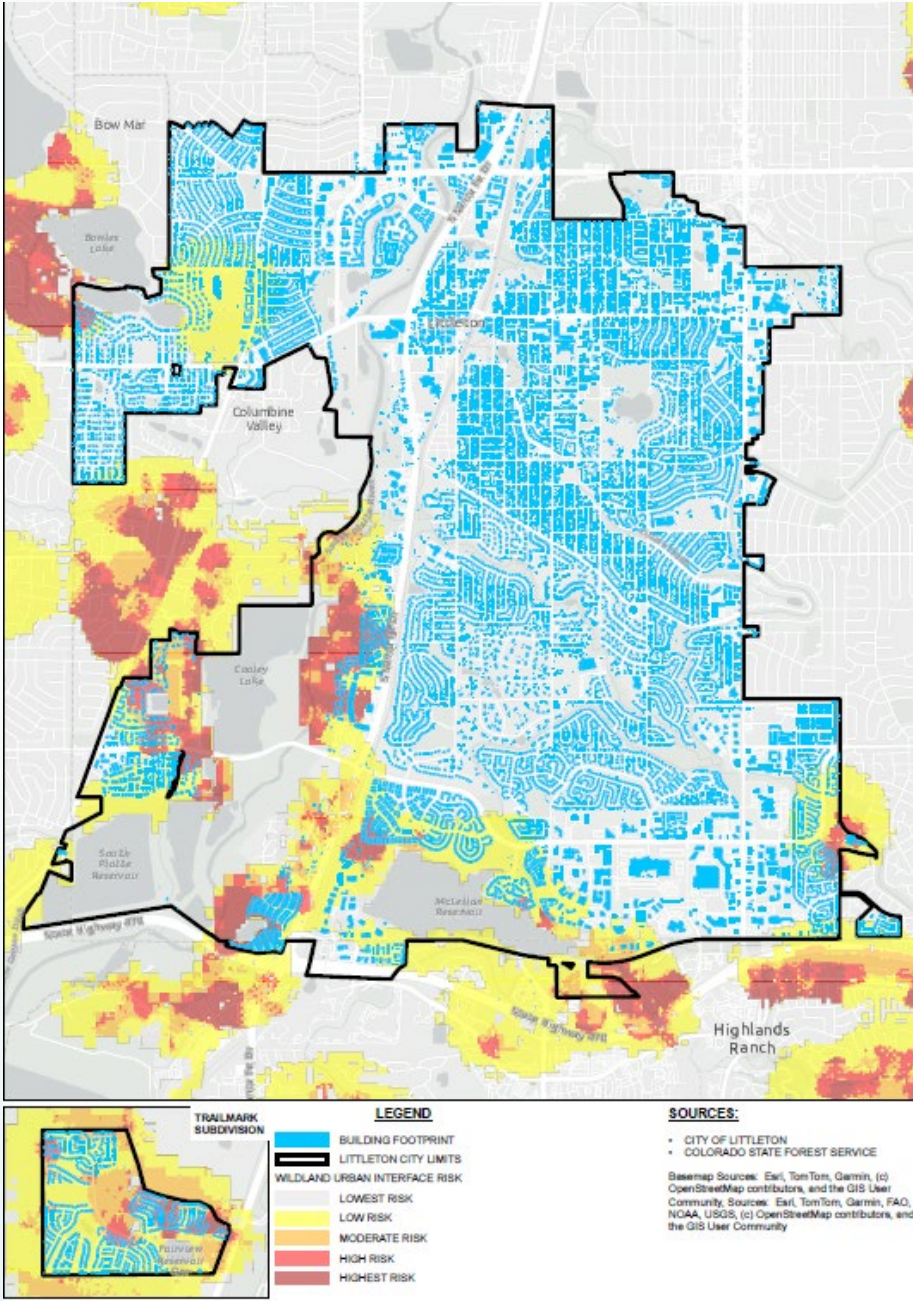
³ US Drought Monitor

⁴ FEMA Nation Risk Index

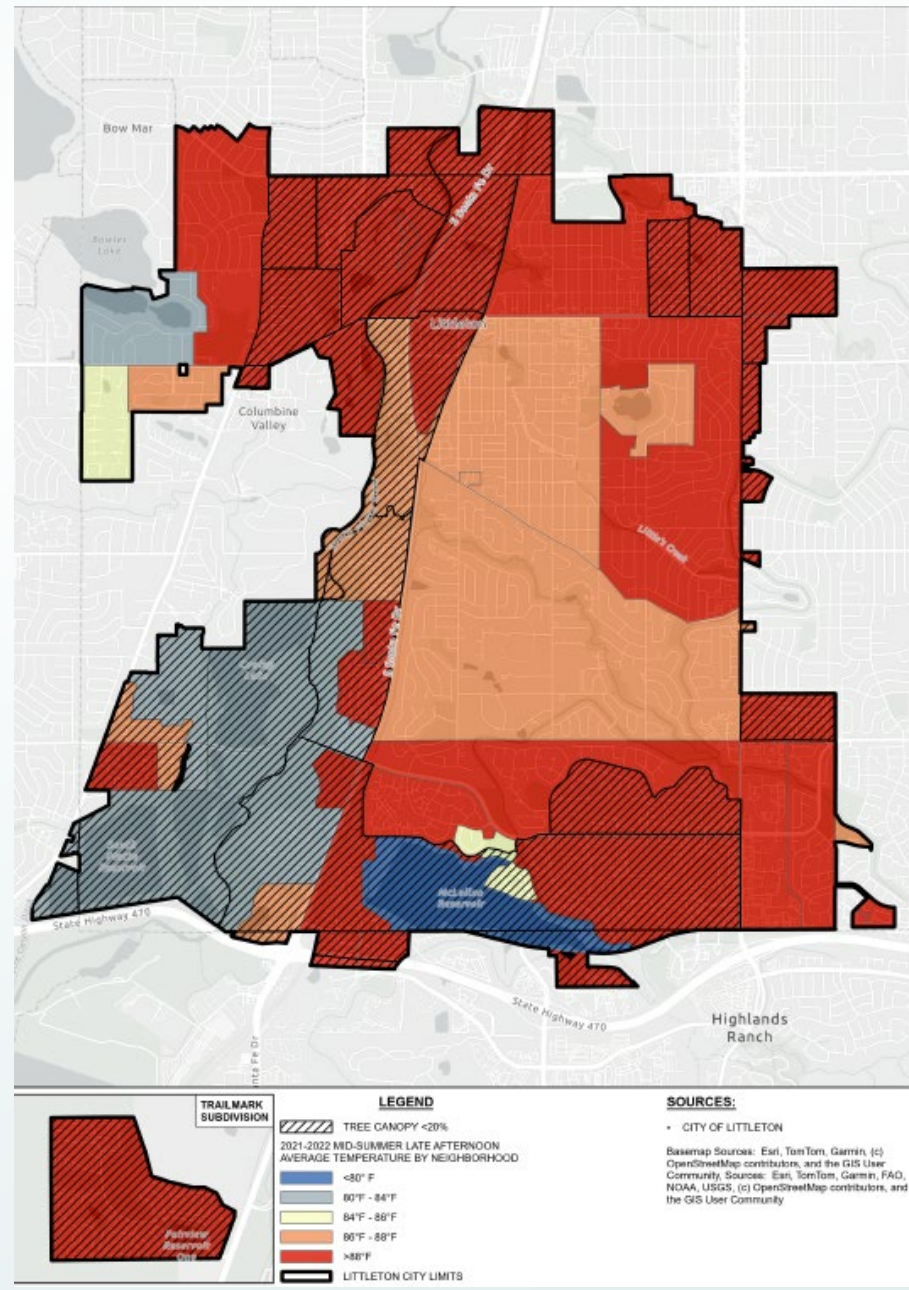
⁵ Arapahoe County Hazard Mitigation Plan

⁶ Colorado Enhanced State Hazard Mitigation Plan

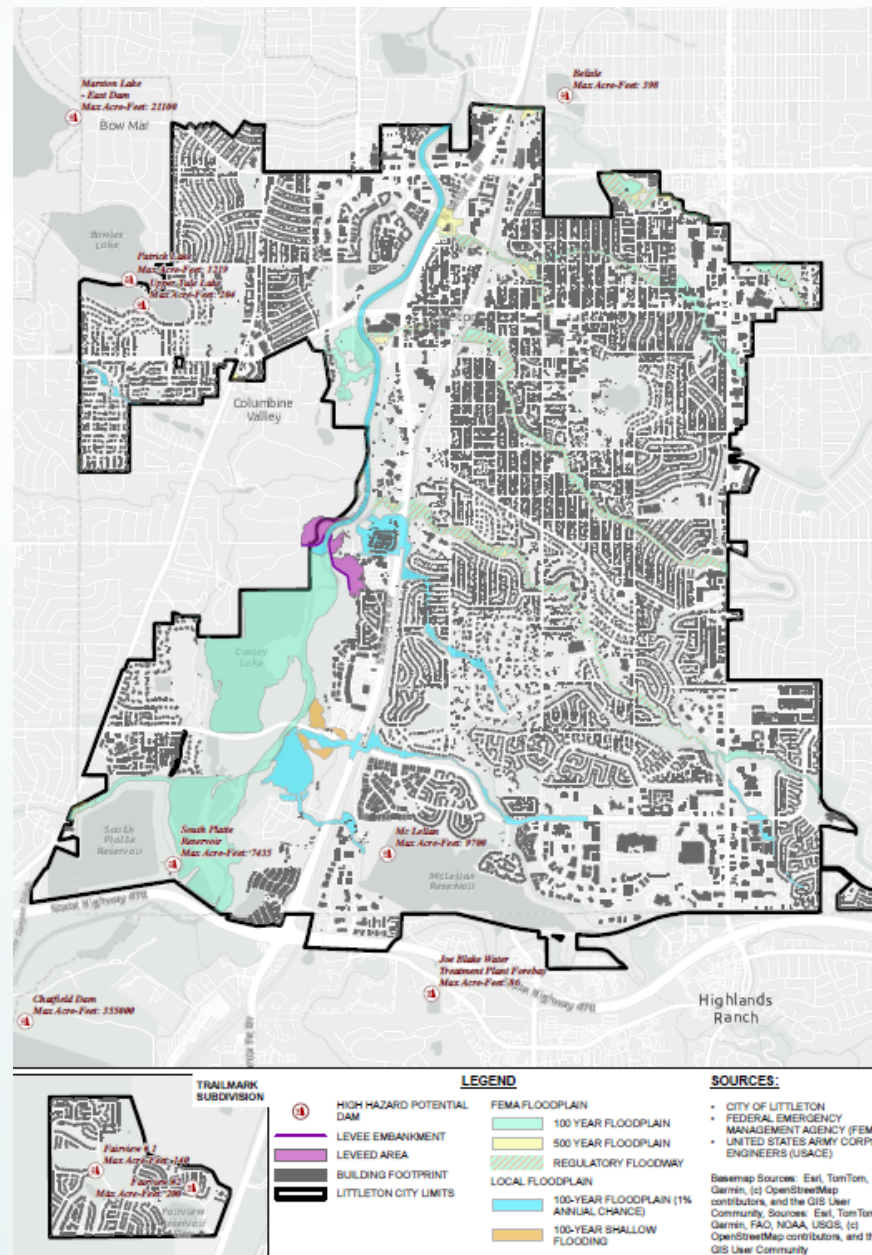
CLIMATE RISK MAP: WILDFIRE



CLIMATE RISK MAP: EXTREME HEAT

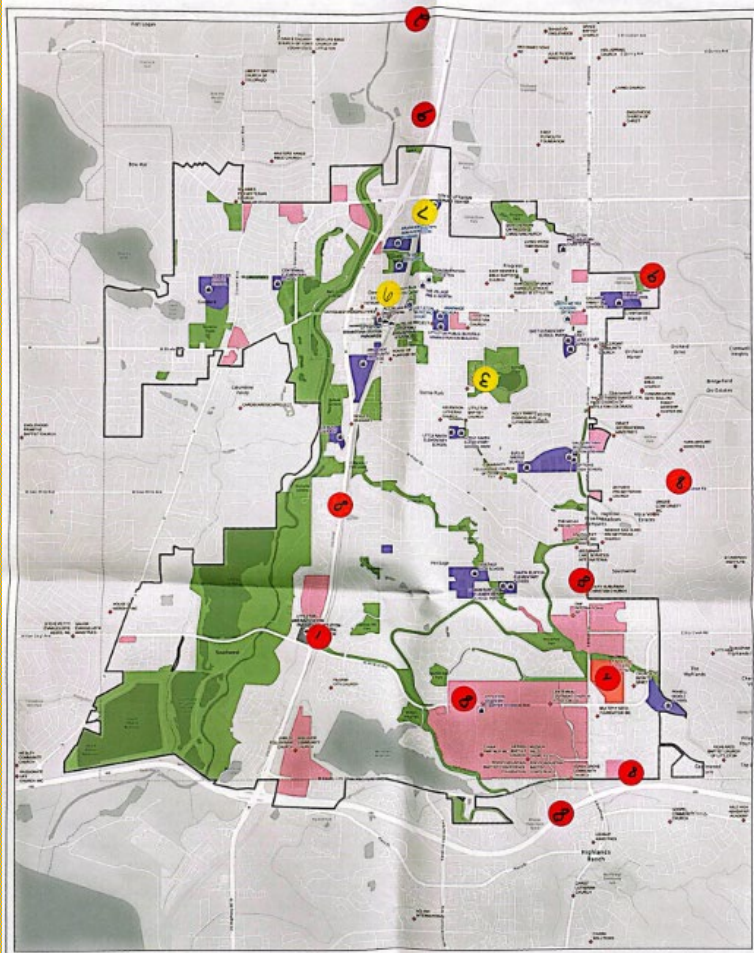


CLIMATE RISK MAP: FLOODING



TECHNICAL WORKING GROUP WORKSHOP #1 TAKEAWAYS

1. Community service providers are engaged and at the table
2. Littleton city limits as primary boundary for analysis, while also evaluating “dependencies”
3. Wildfire is a key concern (especially in Trailmark neighborhood), along with related air quality and evaluation concerns
4. Flooding risk is another key concern (especially dam failures), and relates to evacuation route concerns
5. Cascading impacts/events and impacts on infrastructure need to be considered

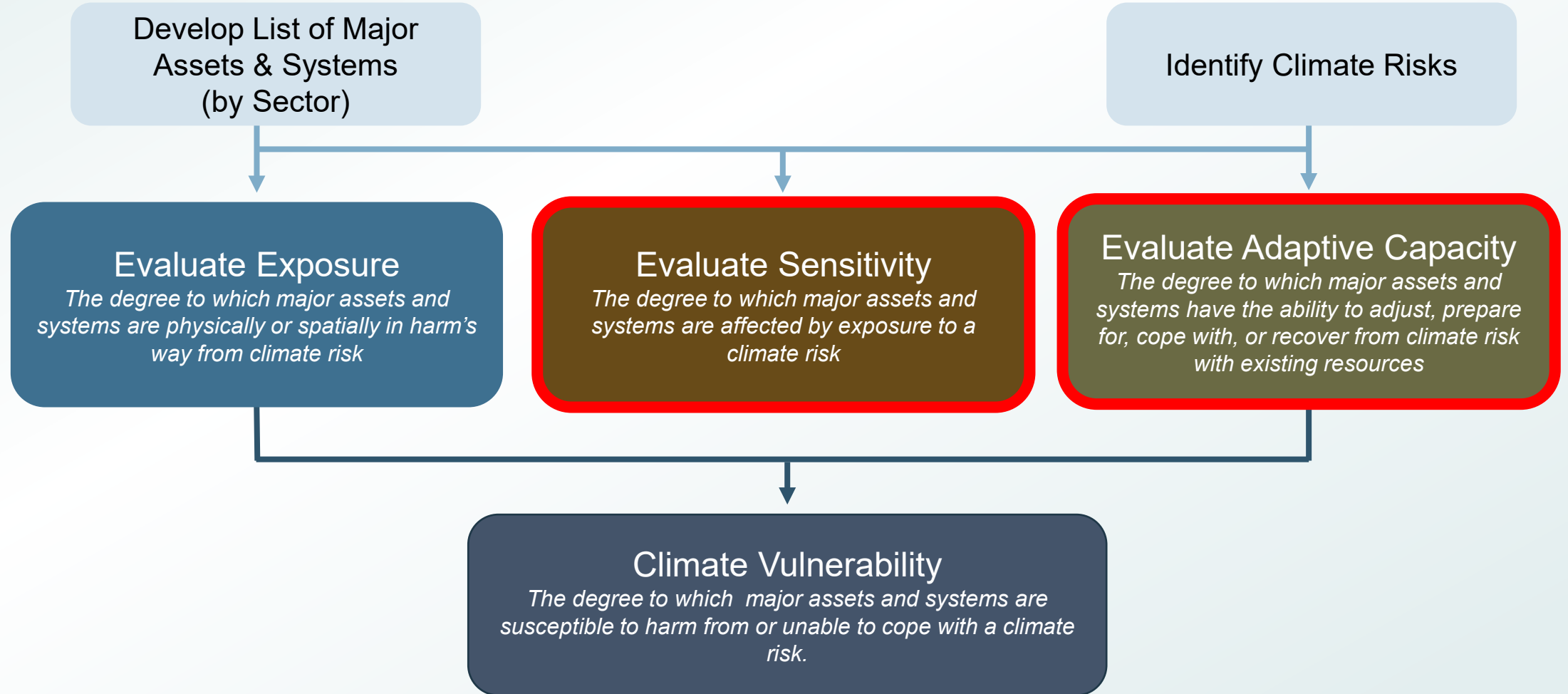




NEXT STEPS



CRVA METHODOLOGY: NEXT STEPS



CRVA PROJECT NEXT STEPS

CRVA Development

- ❑ Evaluate sensitivity and adaptive capacity
 - Finalize GIS layers
 - Review approach with TWG
 - Conduct GIS analysis
- ❑ Analyze and summarize community feedback
 - Finalize community survey
 - Finalize community conversation appr
 - Review with Stakeholder Committee
- ❑ Outline and draft CRVA

Upcoming Events

- **ESB Study Session – 6/3**
- **Community Pulse Survey Opens – Early June**
- **TWG Workshop #2 – 6/24**
- **Community Conversations – July - August**
- **Community Pulse Survey Closes – Late August**