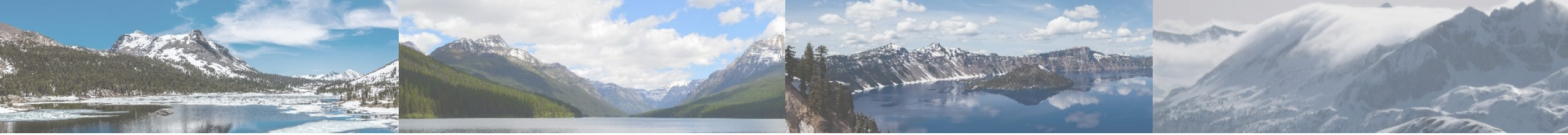
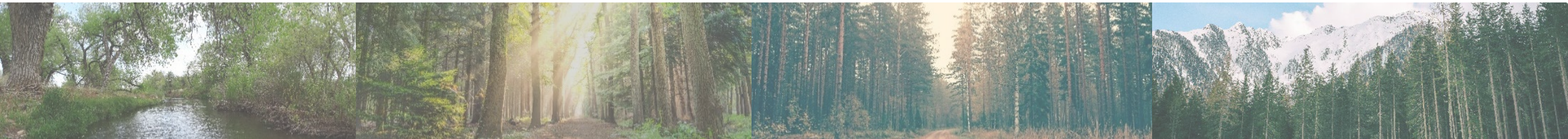

City Introductions

- Jeff: Introductions
- Ember: project & team introduction



Wildfire Hazard and Risk Assessment of Louisville Public Lands

Public Open House
February 6, 2023



Agenda

- Introductions
- Project objectives and goals
- Wildfire risk approach
- Deliverables
- Schedule
- Meetings
- Q&A

Project Team



Bill Szafranski, MS
Project Manager,
Wildfire Risk



Nayoung Hur, MS
Geospatial
Analysis, Modeler



Rachel Bash, MEM
Project Scientist,
Modeler



Meg Matonis, PhD
Project Manager,
Wildfire Specialist



Kenzie Hartt
Program
Coordinator

Project Objective

Develop a comprehensive Wildfire Hazard and Risk Assessment, including identification of hazards and risks and development of mitigation opportunities for Louisville's public lands to be more resilient against future events

- Communicate results and recommendations to the public
- Identify future funding opportunities

Project Outcomes

- Evaluation of 1) wildfire hazard and 2) wildfire risk to public lands
- Mitigation recommendations for public lands
- Mitigation actions that can be applied immediately & long term
- Final report to serve as tool for City public lands
- Story Map to serve as public summary of project
- Wildfire resources for the public

Project Expectations

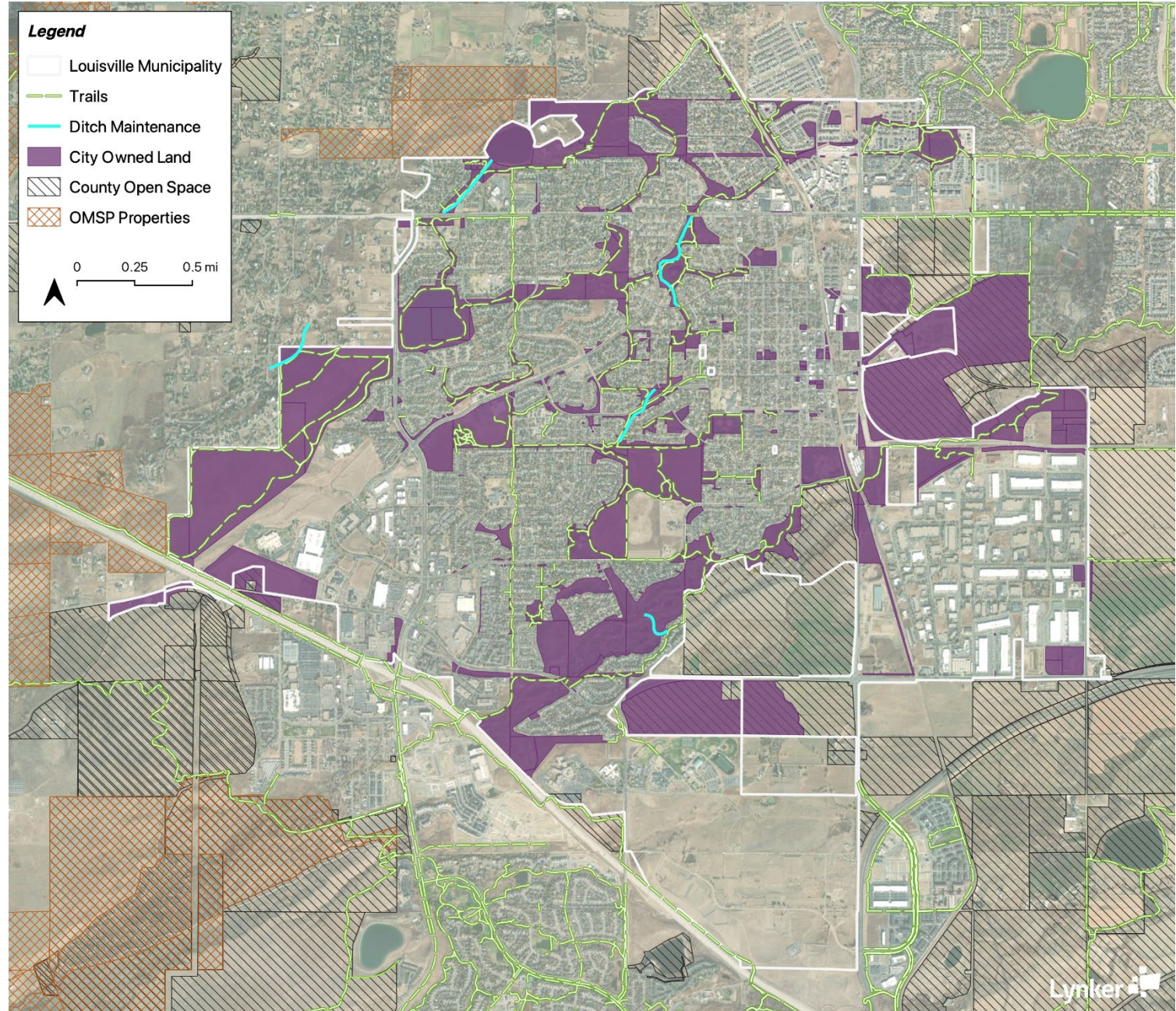
- Risk assessment of public lands not a private property analysis
 - Focus on public lands and their adjacent areas
- Mitigation recommendations for Louisville public lands
 - Mitigation is a layered approach
- For many fires, mitigation and planning can reduce the likelihood of damage and spread from fires originating in public lands

Project Approach

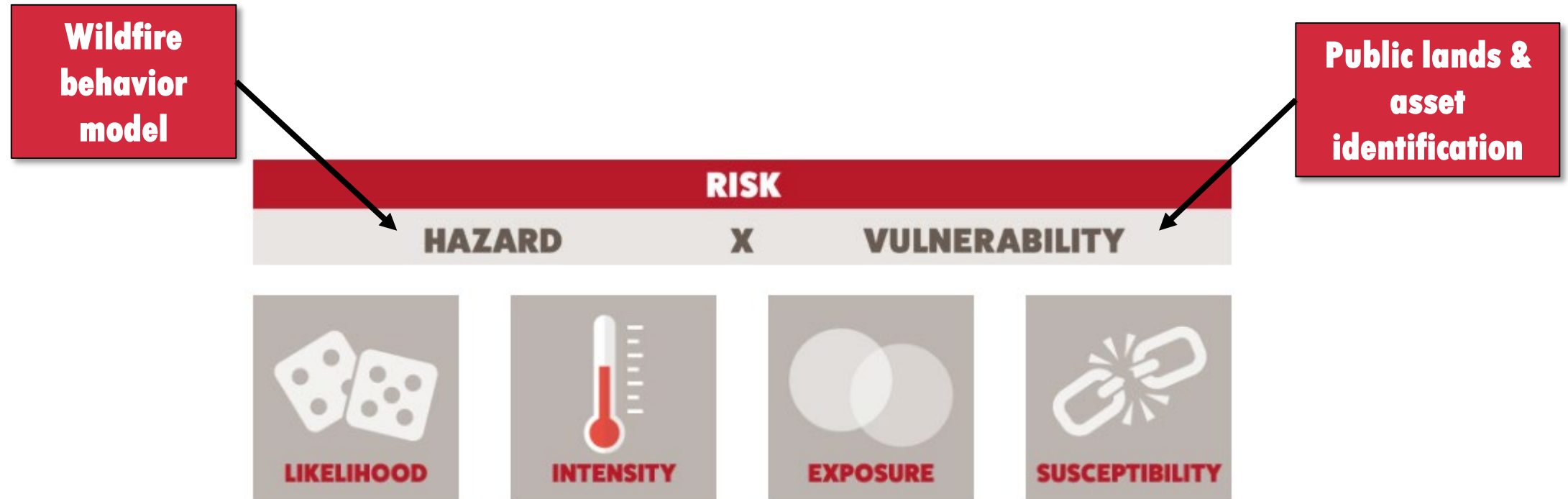
- Identify public lands
- Identify wildfire hazard
- Conduct wildfire risk assessment
- Identify mitigation opportunities
- Develop project report

Project Extent

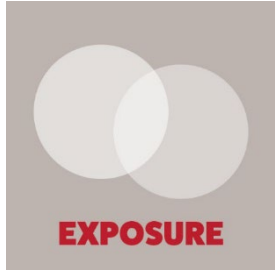
- City of Louisville
- Public lands
- Trails
- Ditches
- Other municipal lands



Wildfire Risk



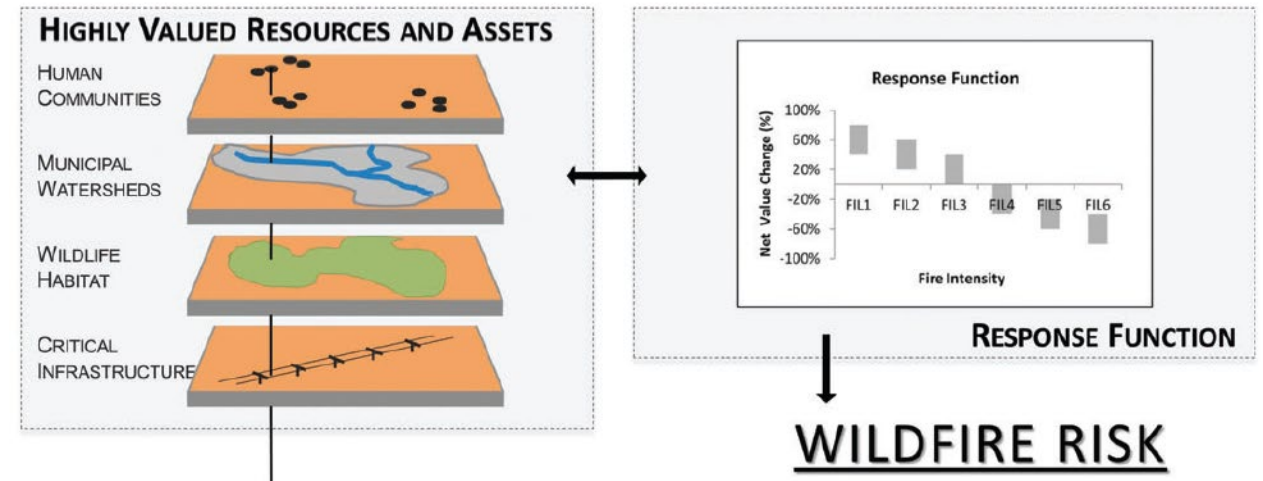
Vulnerability Analysis of Public Lands



- Collect location data
 - City public lands, building grounds
 - Adjacent areas



- Develop relative importance ranking
- Response function



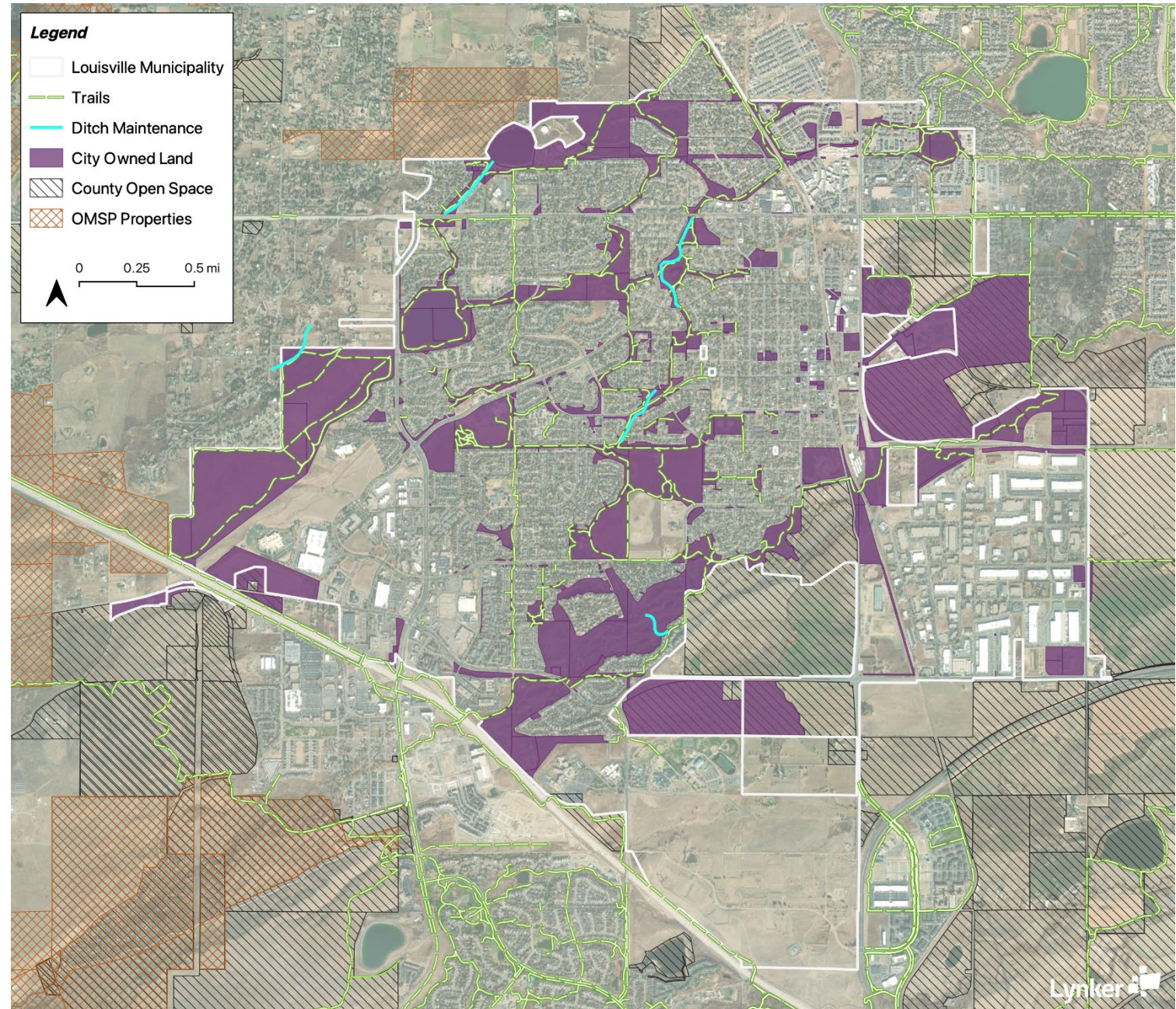
Public Lands Identification

- Open Space properties
- Parks properties (Medians, ROW, irrigated, and non-irrigated lands)
- Coal Creek Golf Course
- City Services Building grounds
- Louisville Police Department grounds
- Louisville Recreation Center grounds
- Louisville's North and South Water Treatment Plants grounds
- Louisville Wastewater Plant grounds
- Any significant landscapes or landscape features on or connected to Louisville public lands

Vulnerability

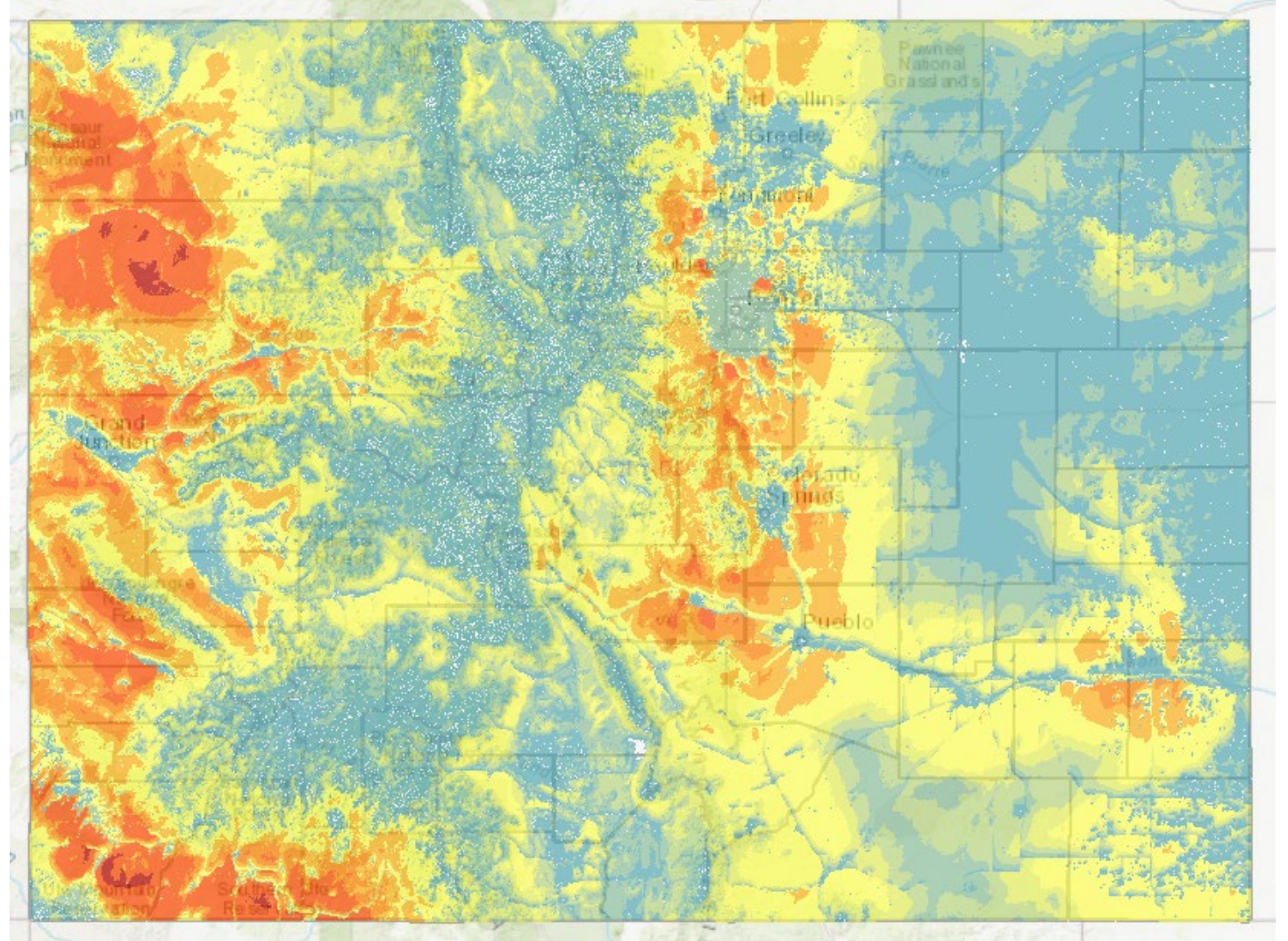
Public lands

City public lands,
building grounds



Wildfire Hazard

Wildfire Behavior Model



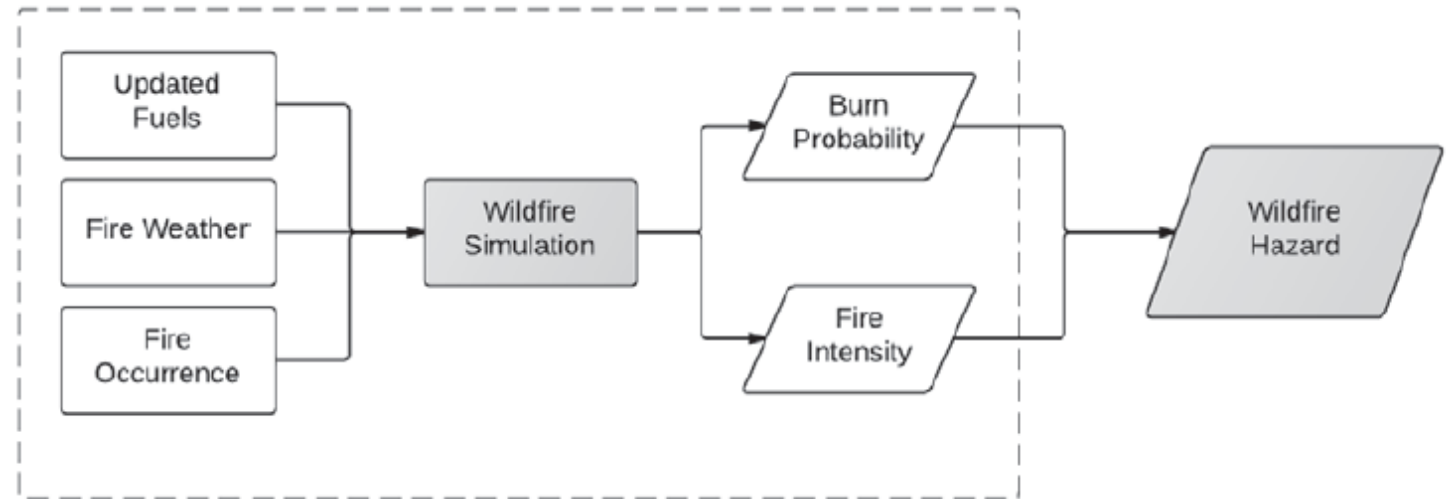
Colorado Wildfire Risk Public Viewer

<https://coloradoforestatlas.org/>

Wildfire Hazard

Wildfire Behavior Model

- Model Inputs
 - Climatic data
 - Topographic data
 - Vegetation (fuels)
- Model Outputs
 - Burn probability
 - Flame length

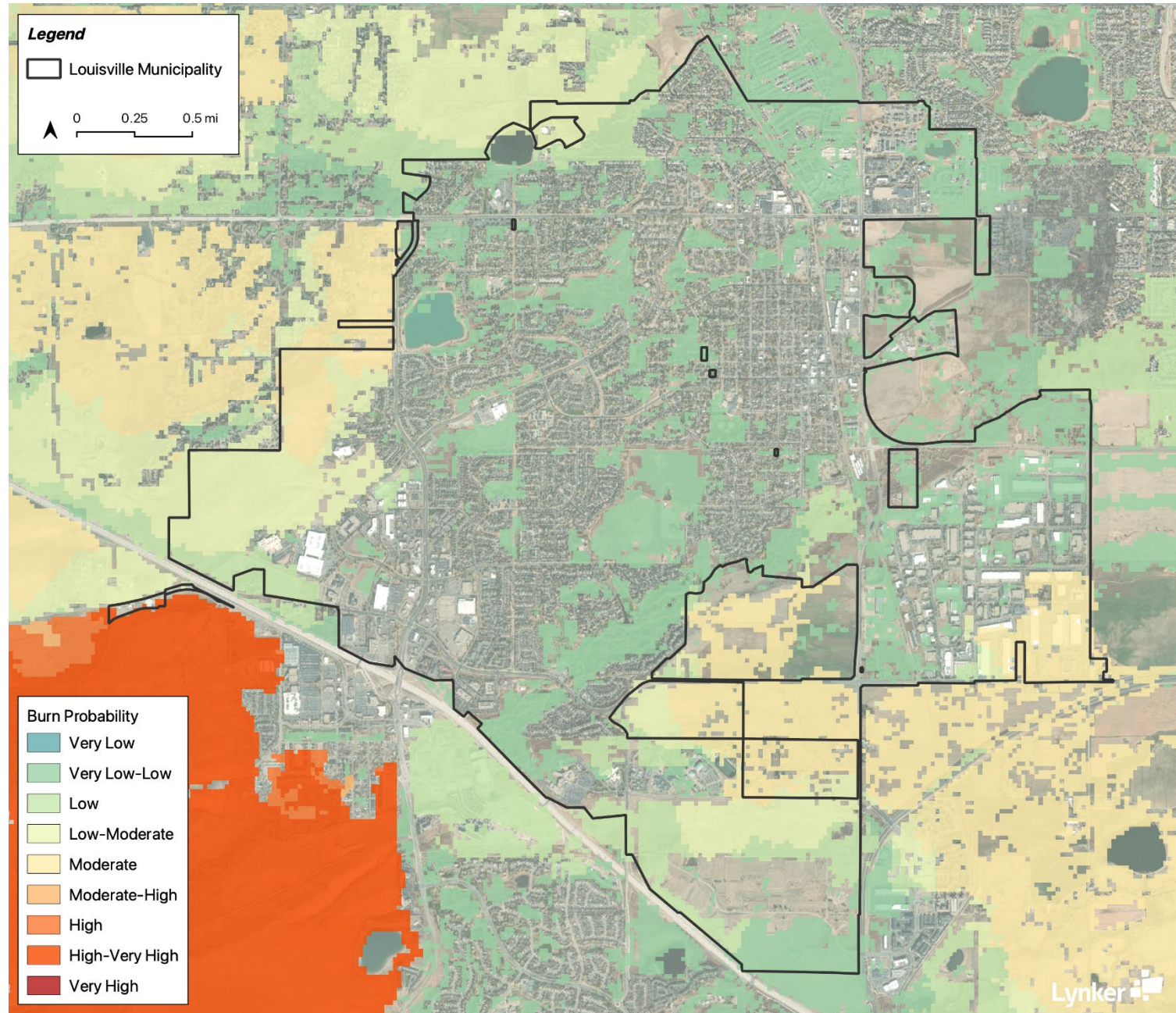


Hazard

Burn Probability

- Annual probability that any location will burn due to a wildfire

A measure of the likelihood that wildfire will occur

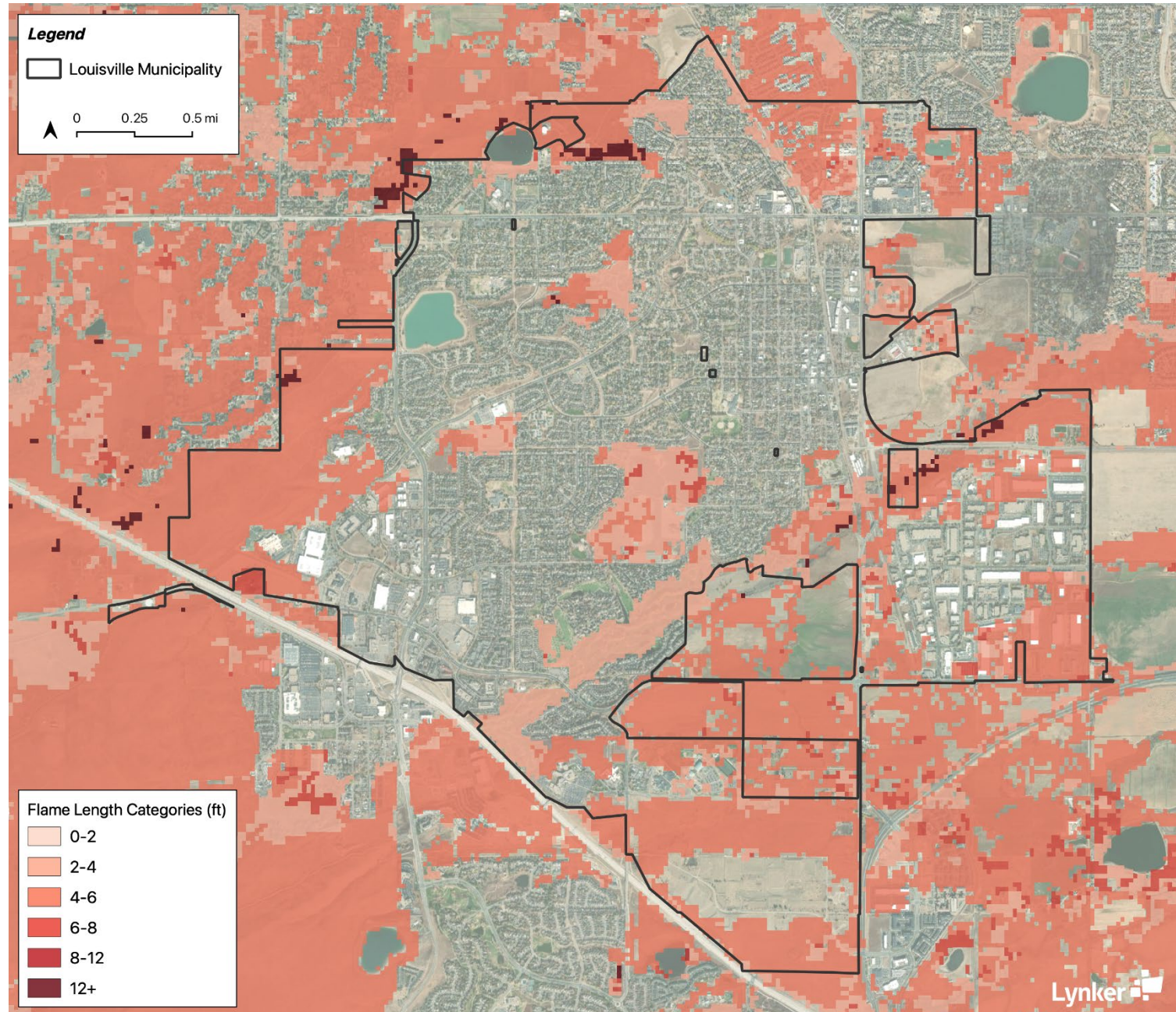


Hazard

Flame Length

- A measure of the height of the flame from its base to the flame tip

A measure of fire intensity

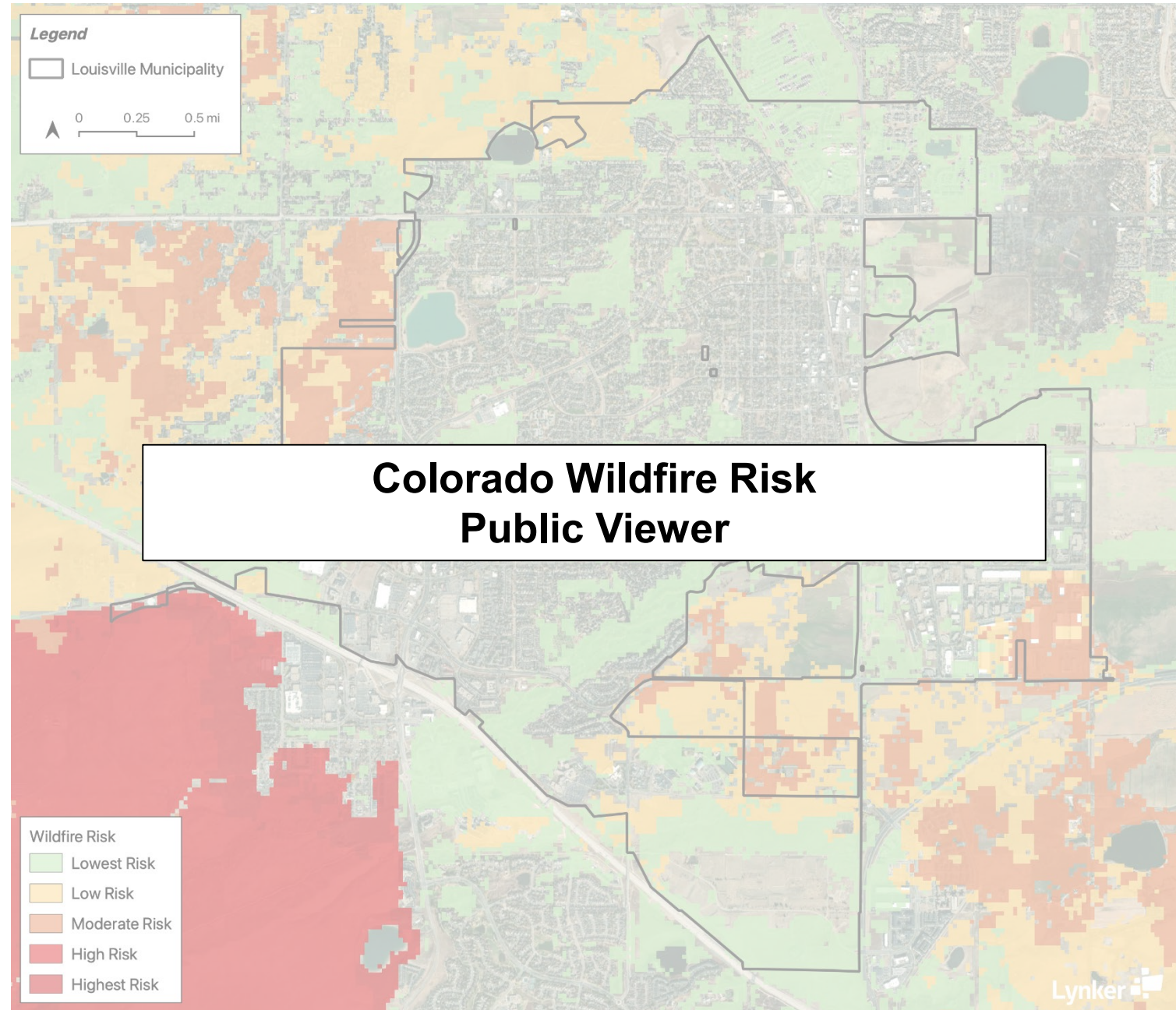


Wildfire Risk

Risk =

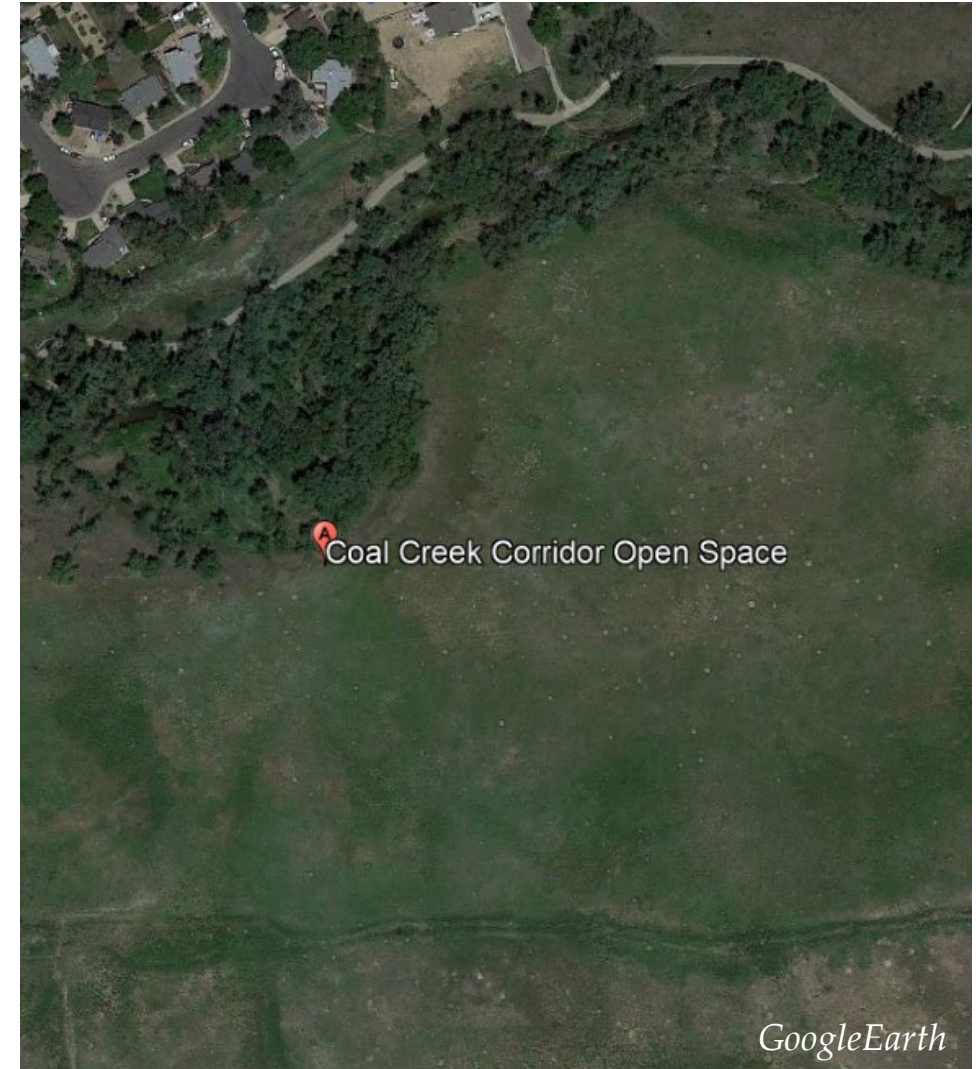
Hazard * Vulnerability

- Burn probability
- Flame length probability
- Public lands susceptibility



Identification of Mitigation Opportunities

- Mitigation assessment will incorporate
 - Output of the risk assessment
 - Fire behavior modeling
 - On-the ground assessments of the defined values at risk
 - Predictions of treatment feasibility, treatment cost, tradeoffs, and relative risk reduction



Identification of Mitigation Opportunities

On-the-Ground Assessment

- NFPA Certified Wildfire Mitigation Specialist will visit priority public lands
- Assess vegetation, defensible space, and building construction
- Produce relative risk ratings for public lands
- Determine feasible mitigation actions using observations, best practices, and local values



Examples of Mitigation Practices

- Replacement of highly flammable vegetation with fire-wise landscaping
- Removal of low limbs and brush under trees
- Mowing along trails and fence lines
- Burning vegetation in ditches
- Non-burnable barriers around structures
- Assess vegetation, defensible space, and building construction



UC Master Gardener Program of Sonoma County

Deliverables

- Final Report
 - Wildfire hazard analysis
 - City asset identification
 - Risk assessment
 - Mitigation recommendations
 - Maps
- Public Meetings
- Community Resources
 - Compiled list of community wildfire resources

Deliverables

- Story Map
 - Interactive, map-based
 - Public lands, building grounds
 - Risk assessment
 - Mitigation opportunities
 - Wildfire resources

FACE:Hazards Risk

cwcb.colorado.gov/FACE

Poudre River Master Plan

<https://arcg.is/1ye8T4>



Project Schedule

February				March					April				May					June				July							
30-Jan	6-Feb	13-Feb	20-Feb	27-Feb	6-Mar	13-Mar	20-Mar	27-Mar	3-Apr	10-Apr	17-Apr	24-Apr	1-May	8-May	15-May	22-May	29-May	5-Jun	12-Jun	19-Jun	26-Jun	3-Jul	10-Jul	17-Jul	24-Jul	31-Jul			
Public Open House 2/6															Public Open House week of May 22														
													Advisory board meeting 5/10								Advisory board meeting 7/12								
																		City Council Meeting 6/20					City Council Meeting 7/25						
Risk Assessment, Hazard Identification, & Modeling																													
									Mitigation Opportunities																				
													Draft Report					Final Report											
													Story Map																

Meeting Schedule

- Public Open House #1: **Monday February 6**
- Public Open House #2: **(Week of May 22)**
- Open Space Advisory Board Meeting: **May 10**
- City Council Meeting: **June 20**
- Open Space Advisory Board Meeting: **July 12**
- City Council Meeting: **July 25**

2023 Disaster Education & Outreach Series

Community Wildfire Protection Plan

January 30, 6-8 PM

Louisville Recreation & Senior Center
(900 W Via Appia Way, Louisville, CO) or
[virtually via Zoom](#)

Learn about Community Wildfire Protection Plans, their purpose, vision and goals and the 2023 update process for Boulder County's CWPP and opportunities for public input.

Wildfire Risk Assessment Open House

February 6, 6-7 PM

Louisville Recreation & Senior Center
(900 W Via Appia Way, Louisville, CO) [or](#)
[virtually via zoom](#)

Learn about Louisville's Wildfire Risk Assessment, which seeks to identify hazards and risks and the development of mitigation opportunities for public lands, and share your feedback.

Emergency Preparedness & Notifications

February 13, 6-8 PM

Louisville Recreation & Senior Center
(900 W Via Appia Way, Louisville, CO) or
[virtually via Zoom](#)

Hear from experts on how to prepare for future emergencies and learn about Boulder County's emergency notification systems and what recommendations from the Marshall Fire After-Action Report are in process.

<https://www.louisvilleco.gov/living-in-louisville/residents/louisville-rebuilds-marshall-fire-recovery>

Reducing Your Risk at Home

February 27, 6-8 PM

Louisville Recreation & Senior Center
(900 W Via Appia Way, Louisville, CO) or
[virtually via Zoom](#)

Hear from experts on what homeowners can do to reduce risk on their property and the greater community from wildland fire, including improving building performance, home hardening, landscaping and available resources.

Lessons Learned from the Marshall Fire

Date and location TBD

Hear from experts on the Marshall Fire Facilitated Learning Analysis and lessons learned related to weather/atmospheric conditions, fire behavior, agency coordination and communication, evacuations and mobilization of resources.

Wildfire Risk Assessment Next Steps

July 2023

Date and location TBD

Learn about Louisville's Wildfire Risk Assessment, which seeks to identify hazards and risks and the development of mitigation opportunities for public lands, and state/regional/local plans for next steps.

Questions

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Meg Matonis, PhD

The Ember Alliance

megan@emberalliance.org



THE
Ember
Alliance