

Building Blocks for Regional Resilience Portland, OR: Extreme Heat & Wildfire Smoke

Workshop #3

January 21, 2020



Agenda for Today

- Welcome & Recap
- Preview Final Memo
- Breakout Groups & Report Out
- Regional Actions
- Funding
- Design Assistance
- Wrap Up

RECAP: Extreme Heat

Susceptible populations

- Adults 65 years of age and older (a growing group)
- Children
- Populations with cardiovascular disease and respiratory illnesses
- Economically disadvantaged people
- People working outdoors
- Non-Hispanic blacks

Outcomes

- Deaths from heart attacks, strokes, cardiovascular disease
- Heat stroke
- Heat exhaustion
- Anxiety
- Listlessness
- Increase in interpersonal & group violence

Heat is the leading weather-related killer in the United States.

RECAP: Wildfire Smoke

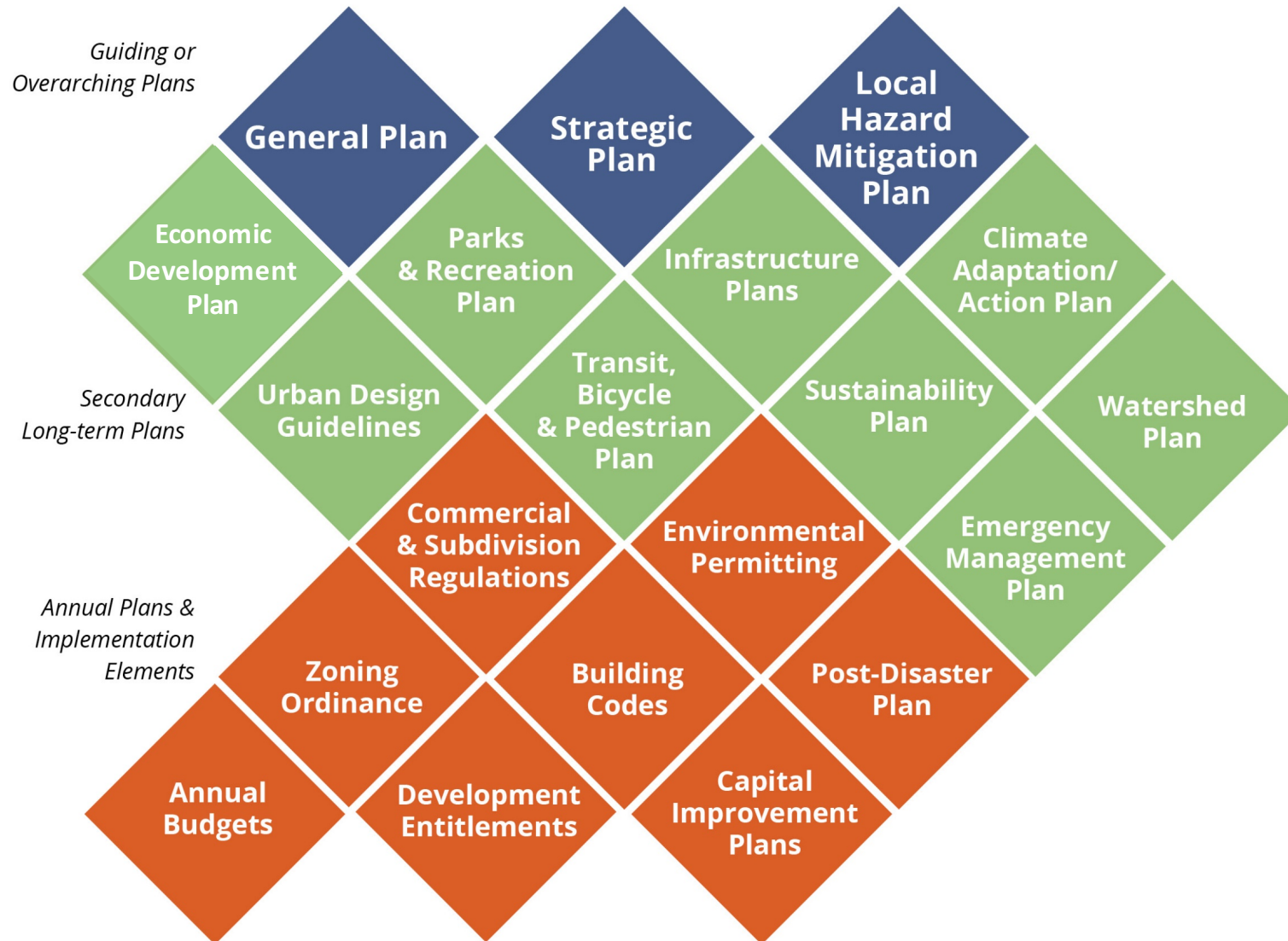
Susceptible populations

- Adults 65 years of age and older
- Pregnant women and their fetuses
- Children
- Populations with pre-existing cardiovascular and respiratory disease
- Populations with lower socio-economic status
- People working outdoors
- Populations with chronic inflammatory diseases (e.g., diabetes, obesity)

Outcomes

- All-cause mortality
- Asthma & COPD exacerbations
- Bronchitis & pneumonia
- Childhood respiratory disease
- Cardiovascular outcomes
- Adverse birth outcomes
- Anxiety
- Symptoms such as: eye irritation, sore throat, wheeze and cough

PLAN INTEGRATION



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- Community Wildfire Protection Plans
- Community Health Improvement Plans
- Tell us about others in the breakout...

Adding Extreme Heat and Wildfire Smoke to Local & Regional Plans

1. Background on Public Health Risks to the Region
2. Screening Tool
3. Initial Problem Statements
4. Mitigation Action List
5. Plan Integration
6. Funding Options

Screening Tool (in development)

- City/county-wide susceptible populations
- Neighborhood susceptible populations
- Additional social vulnerability factors
- Homeless shelters, assisted living, and affordable housing
- City/county-wide heat exposure
- Neighborhood heat exposure
- Wildfire smoke risk (pull from State Haz. Mit. Plan)
- Overall tree cover and imperviousness
- Distance from and transport to hospital emergency department
- Cooling and clean air centers

Example Problem Statement

“Five of the eight neighborhoods in this city include populations that are at high risk from impacts of both wildfire smoke and extreme heat. The city has 75% tree cover, though three neighborhoods have only 50% tree cover. Every block in the city is within a 1-mile radius of a hospital. There are no known cooling centers or clean air centers in the city.”

BREAKOUT GROUPS

1. What actions are missing?
2. Which actions should be regional?
3. What other plans should be included?
4. What other groups or agencies to engage?

3 groups on heat + 3 groups on smoke

20 minutes

Facilitator will lead you through these questions & report out



MITIGATION ACTIONS: Extreme Heat

Category	Action	FEMA Eligible?	Other Funding Sources/ Plan Integration	Regional Action?	Notes and Resources
Assessment	Improve urban heat data collection		Community engagement through vehicle traverse method of data collection		
	Evaluate impacts of extreme heat events				Collected data on hospitalizations
Comms, Outreach and Education	Public education and preparedness; media campaigns; Heat event notification and heat health alerts				Heat Response Planning examples California Standardized Emergency Response System Climate Change and Your Health (Rhode Island guide)
	Targeted outreach for different audiences and in different languages				Household checklist - could be translated as needed Creating your emergency plan (FEMA)
	Demonstrations in heat vulnerable areas				
	Contact and monitor high risk groups				Hotlines to alert public health officials about high-risk or distressed individuals Article on most vulnerable groups to heat and some basic personal mitigation measures

REPORT OUT

1. What actions are missing?
2. Regional actions
3. Additional plans
4. Other groups or agencies

(2-3 minutes for each group)



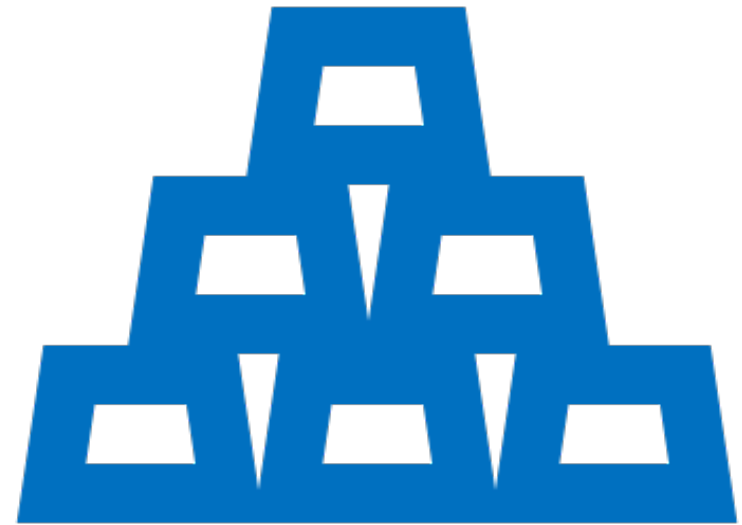
Regional Actions



- Who should be sent the final report?
- Or be briefed on this project?
- What could be included in the final memo to help you move this work forward?

FUNDING

- Learn to “sell” your projects
- Build a network of funders
- Look at a range of funding sources
 - Public-private financing
 - Philanthropic and corporate grants
 - Regional funding programs
 - Federal and state grants



EPA'S Greening America's Communities



 EPA United States Environmental Protection Agency

February 2018
www.epa.gov/smartgrowth



Greening America's Communities
Greening The Jade | Portland, Oregon



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EPA Design Assistance

- Pick a project area for conceptual design assistance
 - **Site-level project**, e.g. cooling center in a public library with green infrastructure/de-paving
 - **Neighborhood scale project**, e.g. increase tree canopy in high-imperviousness neighborhood
- Contact Laura Hanson at RDPO with ideas
Laura.Hanson@portlandoregon.gov

Next Steps

- Final memo by end of March
- Presentations to elected officials and leadership
- EPA's Greening America's Capitals design workshop in summer

