



# Resilient Boulder

# Questions for Council



- 1. Does City Council have any questions or input regarding the Phase II activities?**
- 2. Does City Council have any feedback on the initial framing of the Resilience Strategy?**

# Resilient Boulder Timeline



Phase I: Oct 2014 - May 2015

Phase II: May 2015 – Feb 2016

Phase III: March 2016 ->

Process  
Initiation

Engagements  
and Diagnostics

Preliminary  
Resilience  
Assessment

Activity  
Scoping

Phase II  
Activities &  
Strategy  
Scoping

**Resilience  
Strategy**

Study Session May 12, 2015

We are here – September 17, 2015

# Agenda



- 1. Resilience Strategy**
- 2. Phase II Activity Overview**
- 3. Resilient Boulder Updates**



**Resilience  
Strategy**

# Resilience Strategy Overview:



- **Goal:** Build an enduring culture of resilience that permeates the process of governance as well as social, economic, and cultural activities across the community
- **Objective:** To provide a roadmap for building resilience in the city. The strategy should trigger action, investment, and support within city government and from outside groups.

# Resilience Strategy Philosophy:

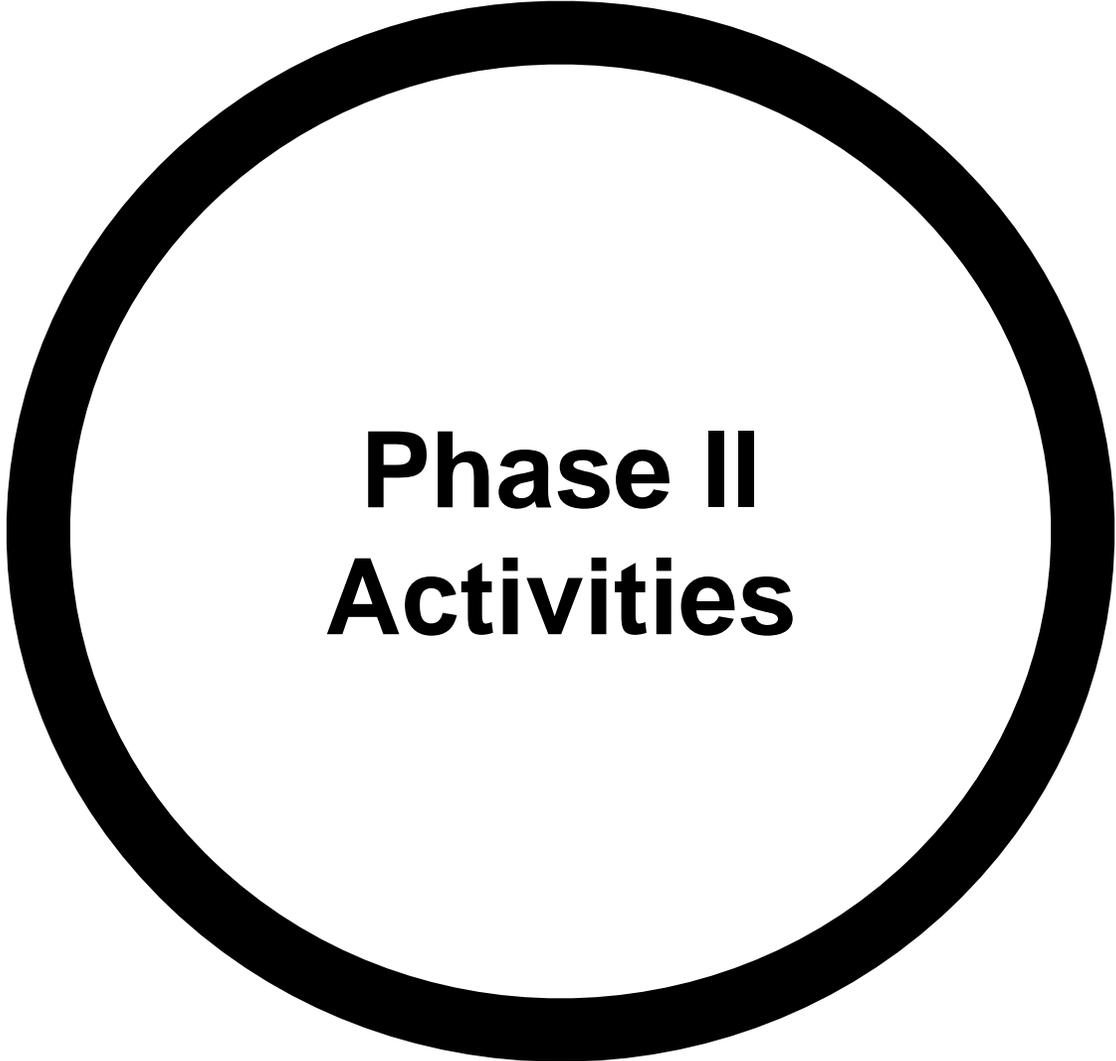


- **Integrate:** deeply embed resilience into the practical operation of city government and as a routine, natural element of community activity.
- **Align:** align with existing commitments and efforts, seeking to bring specific added value rather than creating entirely new processes, plans, or major investments.
- **Sustain:** identify mechanisms to ensure that the efforts undertaken now can be maintained, replicated, and amplified in the future.

# Proposed Strategy Pathways:

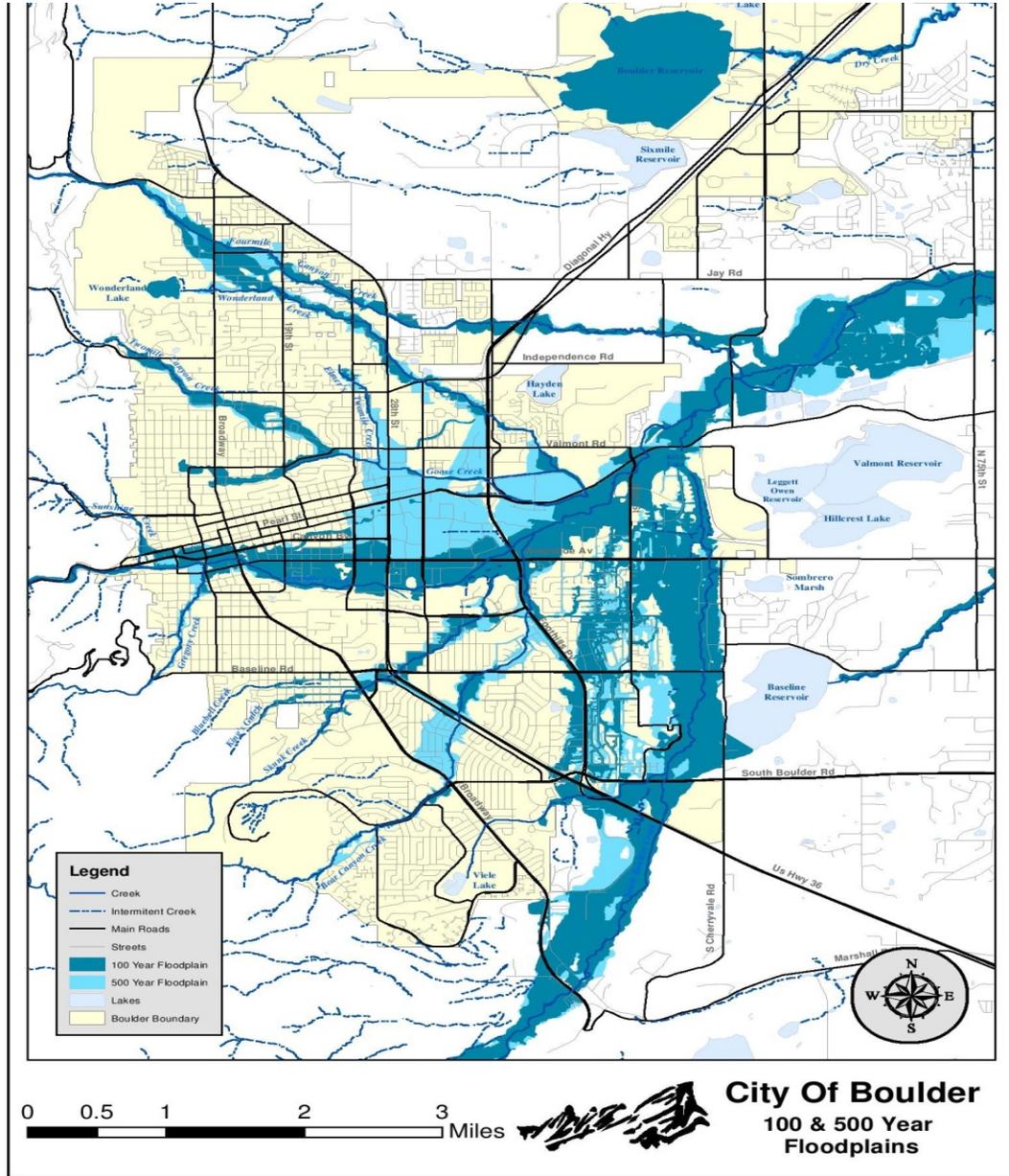


- **Pathway 1: Institutions and Infrastructure:** Integrate resilience principles into existing city efforts and priorities to ensure sustained community investment.
- **Pathway 2: Community Capacity and Adaptability:** Foster community preparedness to both long term stresses and acute shocks, while deepening and broadening public involvement in all civic processes.
- **Pathway 3: Knowledge for Informed Action:** Cultivate creative and novel solutions to emerging resilience challenges through the creation of new strategic partnerships, data architectures, and social engagement tools or methods.

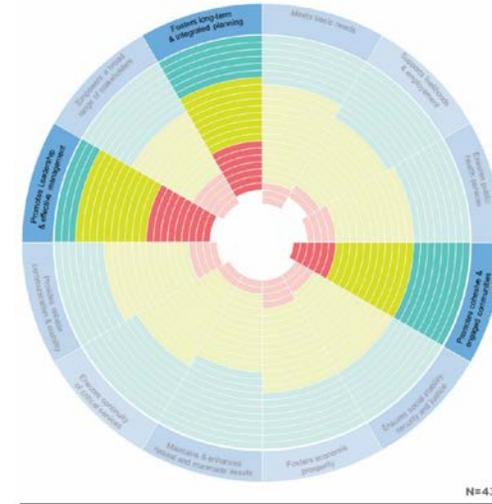


**Phase II  
Activities**

# Preliminary Resilience Assessment

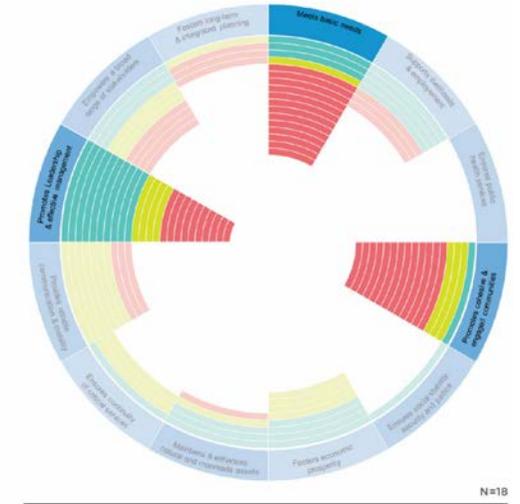


## Public survey

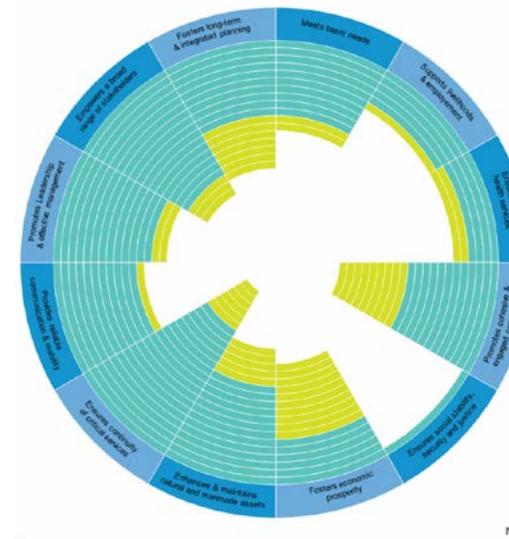


- Need to do better
- Doing well, but can improve
- Area of strength

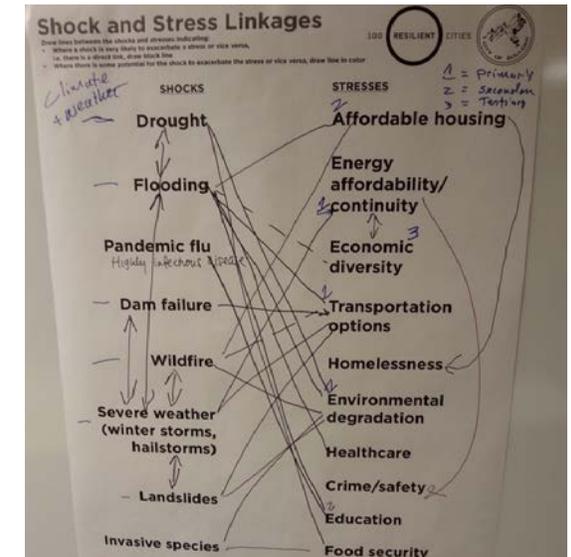
## Stakeholder workshop



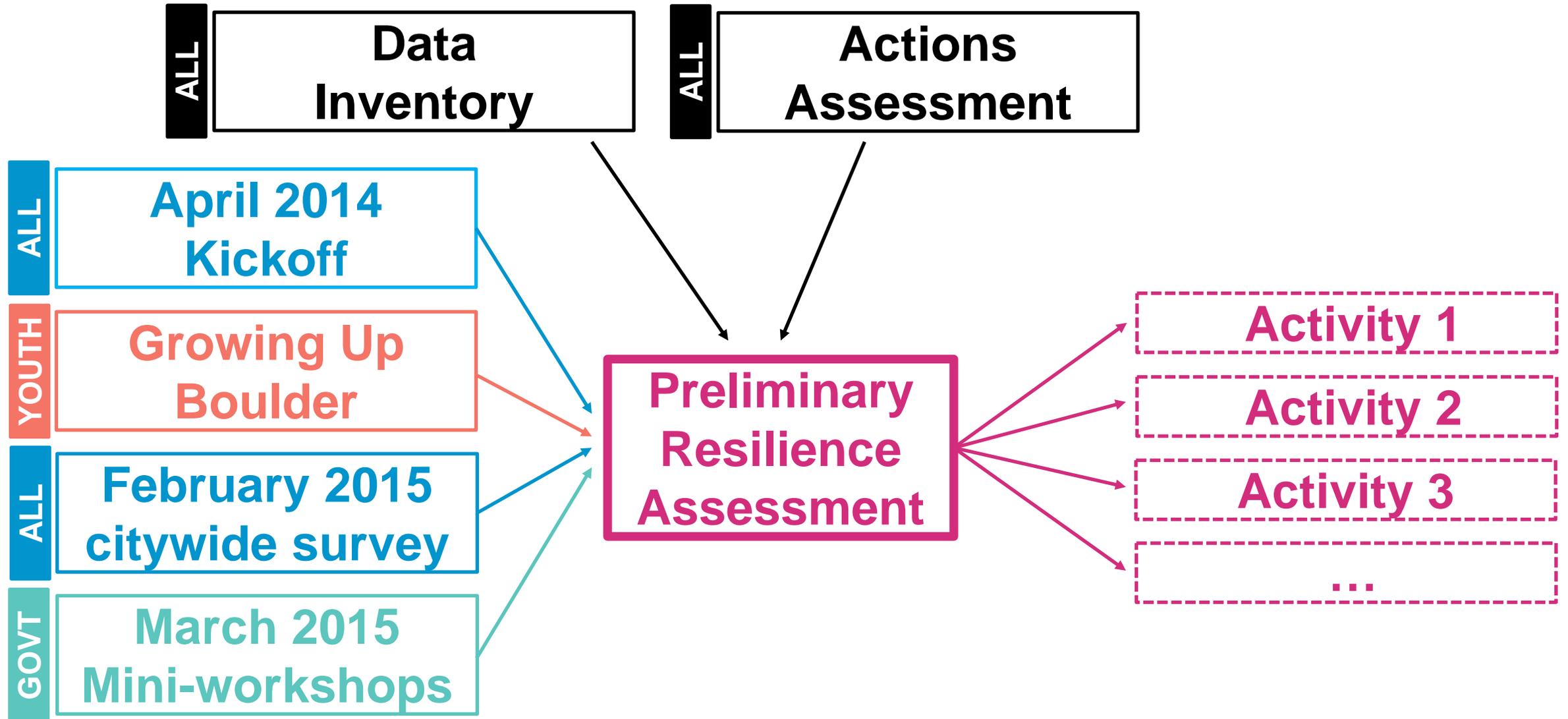
## Stakeholder workshop



- Primary objective
- Secondary objective



# Inputs and Outputs



# Phase II Activities:



- Phase II tasks are a combination of technical assessment, targeted strategic planning for new or experimental initiatives, and alignment of existing city efforts with resilience principles and activities.

**Framework & BVCP Integration**

**Using Climate Information**

**Community 'Safe Haven' Network**

**Community Capacity & Preparedness**

**Supporting Economic Resilience**

**Big Data to Support a Healthy and Thriving Community**

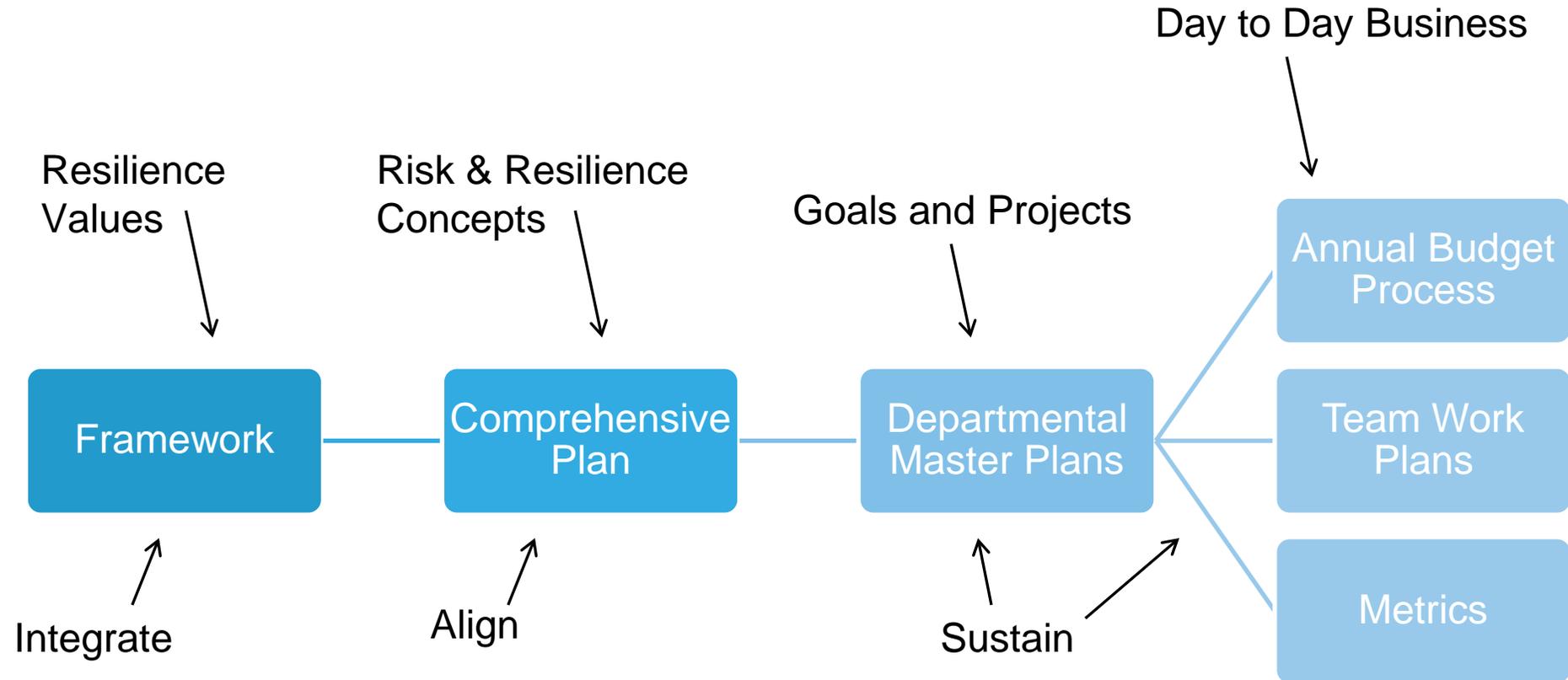
**Monitoring and Managing the Urban Forest**

# Framework and BVCP Integration



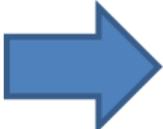
<b>Activity Identification</b>	<b>Selection Criteria</b>	<b>Phase II Tasks</b>	<b>Partners</b>
Framework & BVCP Integration	<ul style="list-style-type: none"><li>• Community priority</li><li>• Timing</li><li>• Technical resource alignment</li><li>• Staff alignment</li></ul>	<ul style="list-style-type: none"><li>• 2010 BVCP assessment and critique</li><li>• Expert facilitated integration workshop</li><li>• Recommendations</li></ul>	<ul style="list-style-type: none"><li>• HR&amp;A Advisors</li><li>• 100RC Network</li><li>• Boulder County</li></ul>

# Framework and BVCP Integration



# Informing the Strategy

Preliminary Resilience Assessment



- Climate Change Projections
- Community Capacity & Preparedness
- BVCP/Framework Integration
- ~~Grid Modernization Assessment~~
- Economic Resilience
- Big Data for Healthy Communities
- Ecological Transformation

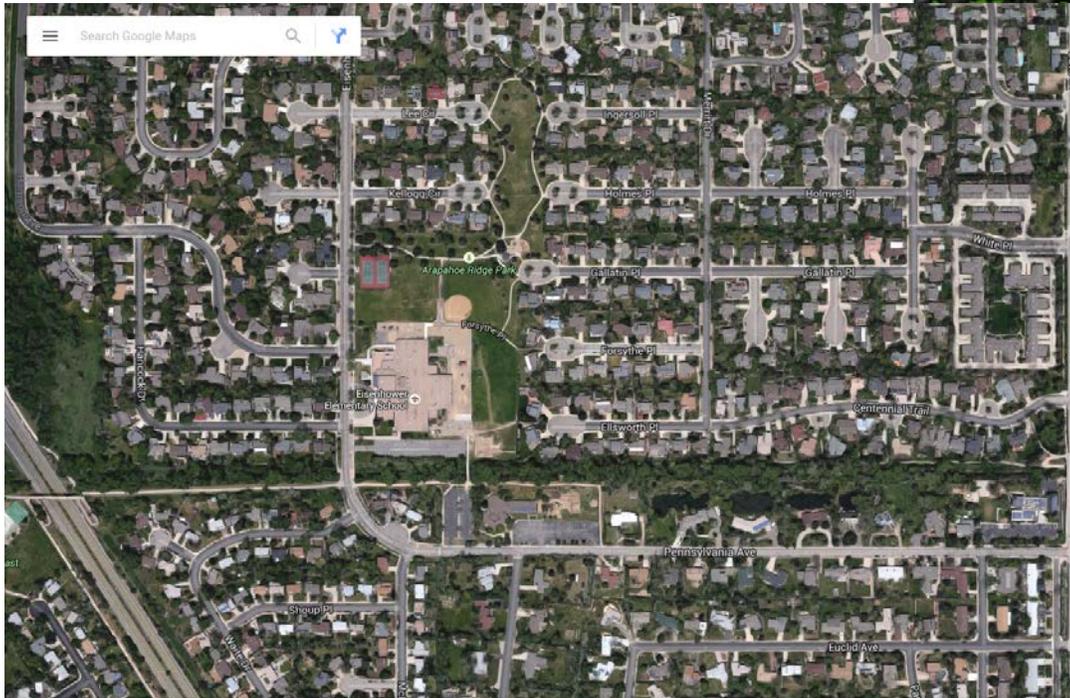
Safe Haven Design

- Integration:**
- Governance
    - Frameworks
    - BVCP
    - CIP
  - Core systems design and mgmt.
    - Energy
    - Waste water
    - Ecosystem services
- CRC sustainability

- Community Preparedness:**
- Citizen Corps
  - Business Continuity
  - Food Security Assessment
  - Drought Tolerance/Adaptability

- Knowledge for Informed Action:**
- Research network pipelines
  - Incubation & test beds
  - Micro-sensing and obs
  - Open data platform
  - Big Data architecture
  - Community Resilience Mapping

# Update: Managing the Urban Canopy

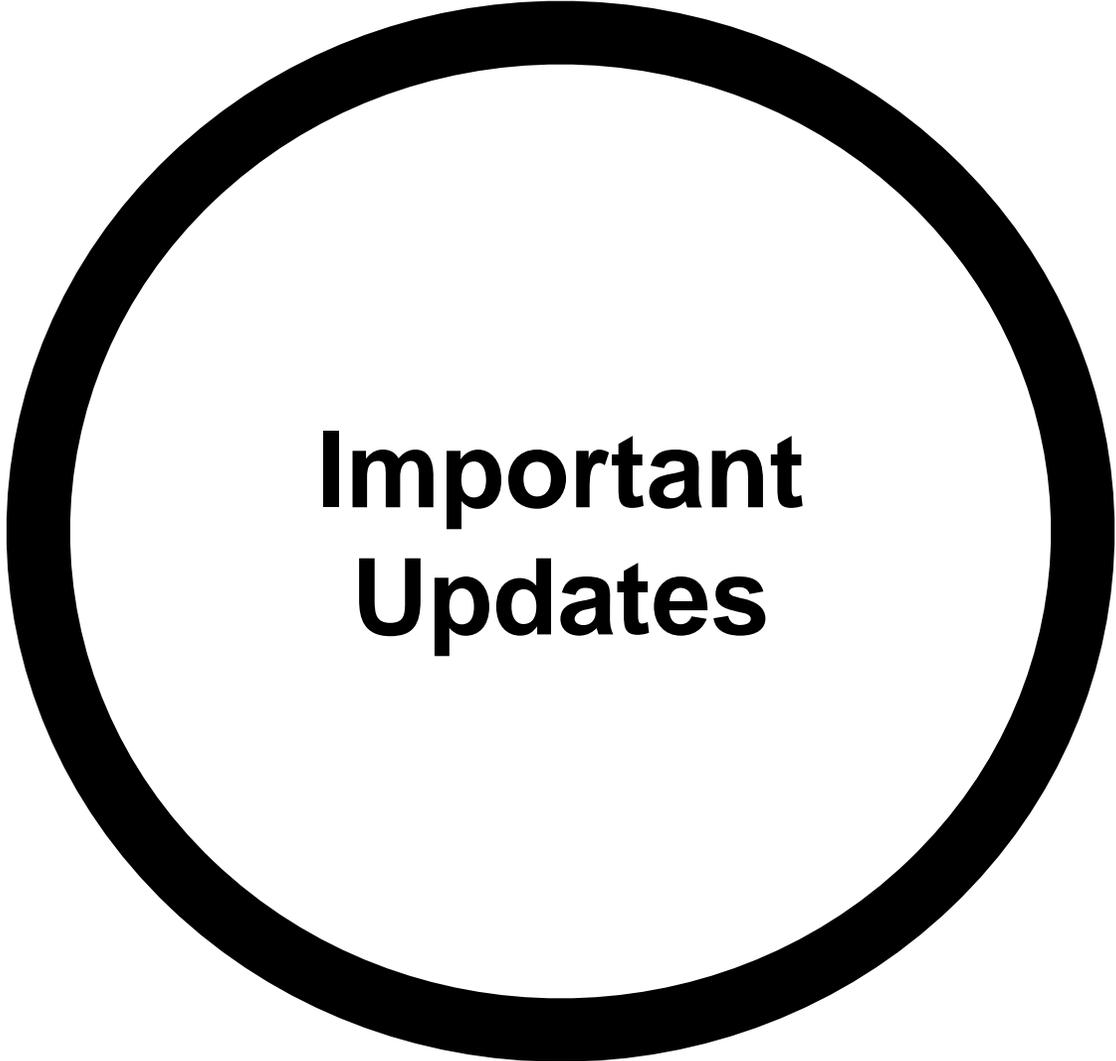


## Result Report

Class	No. of objects	Area	relative Area
unclassified	96	966.585157747663ac	62.46%
Forest	745	370.998829154311ac	23.97%
Building	355	209.908757178891ac	13.56%

## **Next Steps:**

- **Refine Approach**
- **Reorganize Teams**
- **Expand Opportunities for Community Ownership**
- **Draft Strategy – February 2016**



**Important  
Updates**

# Upcoming Events

## Resilience Summit

- September 24, Planet Bluegrass, Lyons
- Public awards and celebration 5:30-7pm
- **Chris Meschuk** nominated for Most Empowering Public Servant

## MIT Climate CoLab

- October 6, Global Launch, MIT
- “Fostering Climate Collaboration in Boulder”
- Harnessing global experience, knowledge, and innovation
- Leveraging the 100RC Network

## UR+Boulder

- October 23-25, Kittridge Hall, CU
- Develop shared understanding of the challenges we face in building long-term resilience.
- Local tech challenge Oct. 25
- Collaboration between Boulder, CU, GFDRR, and local businesses and non-profits
- Sponsorship from Matchbox, ESRI, DigitalGlobe

# National Disaster Resilience Competition

- \$1 Billion available in Community Development Block Grants – National Disaster Recovery fund (CDBG - NDR)
- Eligible applicants must have experienced a presidentially declared disaster in 2012 or 2013
- 40 eligible applicants nationally - State of Colorado is the eligible applicant – Boulder, Larimer, and El Paso counties are qualifying disaster need
- Funds are intended to address unmet needs of past disasters and reduce future risks
- 2 phase process – public comment period opens Oct.1, final applications due Oct. 27



# 100RC Update: CRO Network Exchange Program

- Foster stronger relationships among CROs and strengthen the Network as a collective force for action
- Allow CROs to share and acquire more in-depth learnings on approaches to addressing the common shocks and stresses impacting their cities by leveraging cities as living laboratories
- Serve as a distribution channel for impactful solutions



# 10% Resilience Pledge Overview

## MAIN CONCEPTS OF THE PLEDGE

- 10% Resilience Pledge – City Leaders and cities commit to investing a meaningful portion of their city’s annual resources toward resilient outcomes as appropriate.
- Cities use a resilience screen or their resilience strategy to determine eligible projects, expenses, investments.
- In return, 100 Resilient Cities will seek to make available to the city Platform Partner goods and services worth \$5 million (USD) over the next five years to support the city’s resilience building efforts – subject to the dictates of the City’s strategy and its ability to receive those funds.

## ELIGIBILITY GUIDELINES

1. 10% of the city’s financial resources will be defined differently by each city. Generally, 10% could be from following sources: discretionary funds, city expense budgets, city capital budgets, federal or central operating funds, services and products / goods, human resources and policy and regulatory funds.
2. The following may count toward the 10% budget allocation:
  - **Funding Resilience Initiatives:** Existing or planned spending that directly supports the city’s defined goals as outlined in its Resilience Strategy, as applicable. This includes new programs and pilot projects, as well as ongoing programs.
  - **Improving Resilience Value:** Leveraging and improving already funded initiatives to help achieve improved resilience. These Initiatives are not currently included in a Resilience Strategy. This could be done through the application of a “resilience screen” on capital projects, expense budget items and procurements.
  - **Enhancing Policies and Regulations:** Implementing programs that leverage/partner with the private sector or another third-party to support resilience via policy, regulations, or public-private partnerships.
3. For each city whose City Leader takes the 10% Resilience Pledge, 100RC will seek to provide the city with \$5 million US dollars’ worth of goods and services from 100RC’s Platform Partners.

# Questions for Council



- 1. Does City Council have any questions or input regarding the Phase II activities?**
- 2. Does City Council have any feedback on the initial scoping and outline of the Resilience Strategy?**



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