



# Resilient Boulder

# Questions for Council



- 1. Does City Council have any questions or input regarding the Resilience Strategy outline?**
- 2. Does City Council have any feedback on the proposed community engagement method?**

# Agenda



- 1. Resilience Strategy Outline – 45 minutes**
- 2. Piloting the “The Big Sort” Community Engagement Exercise - 45 minutes**



**Resilience  
Strategy**

# Resilience Strategy Overview:



- **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.
- **Goal:** Build an enduring culture of resilience that permeates the process of governance as well as social, economic, and cultural activities across the community

## What is the 100RC Resilience Strategy?

**PHASE I:  
2-3 MONTHS**

**RAPID DIAGNOSTIC &  
STAKEHOLDER  
ENGAGEMENT**

**PHASE II:  
4-6 MONTHS**

**DEEP & FOCUSED DIAGNOSTIC  
RESULTING IN ACTIONABLE INITIATIVES**

**IMPLEMENTATION**

**6-9 MONTHS**

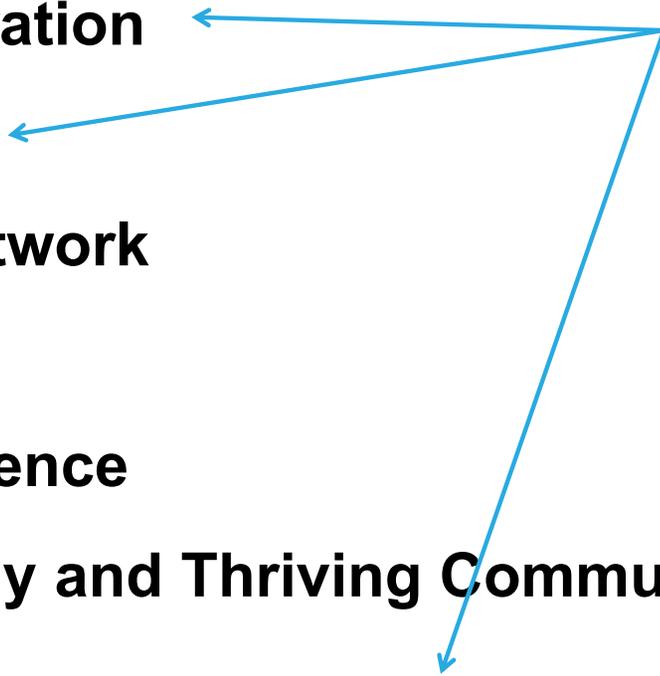
The 100RC Resilience Strategy Process is a 6-9 month effort led by the CRO to develop a roadmap to resilience for the city. It is a deliberate process to engage a broad range of stakeholders, leverage existing plans and actions, identify cities' unique resilience priorities, and generate an actionable set of initiatives.

# Phase II Activities



1. **Framework and BVCP Integration**
2. **Using Climate Information**
3. **Community 'Safe Haven' Network**
4. **Community Preparedness**
5. **Supporting Economic Resilience**
6. **Big Data to Support a Healthy and Thriving Community**
7. **Monitoring and Managing the Urban Forest**

**Project updates in  
your packet**



Phase II Activity	Strategy Input
<b>Using Climate Information</b>	A program for systematizing the use of climate change projections across city departments and a staff capacity building initiative to support their use.
<b>Community Capacity and Preparedness</b>	An imperative for action, program goals, initial level of staffing for program design via Resilience Americorps
<b>BVCP and Integrated Framework</b>	An integrated framework for community action. A methodology for analyzing resilience in the comprehensive plan and a roadmap for action in the 2015 BVCP update
<b>Community 'Safe Haven' Network</b>	Refined concept for future planning and analysis, initial alignment of resources and partners
<b>Supporting Economic Resilience</b>	Refined scope of work and articulation of economic challenges, priority areas for further analysis or action
<b>Big Data to Support Healthy and Socially Thriving Community</b>	Refined scope of work for future action, resource and partner alignment
<b>Ecological Transformation (Urban Canopy Project)</b>	Baseline data, new staff and technology capacity, successful partnership and process example



## Strategy in 3 Parts:

- 1. Context:** Introduces the city's long, progressive history of resilience and situates the current effort within that trajectory.
- 2. Goals, Strategies, Actions:** The proposed actions are not comprehensive to all resilience challenges or needs but are intended to be responsive to existing city priorities, have current resource alignment and opportunity, be achievable within a near term timeframe, and add high value to the larger resilience building initiative.
- 3. Processes:** Elements that will form the core of a constant and iterative program of resilience building activity.

# Part 1 - Context



## **Boulder's Vision:**

- Community forum on February 22
- Facilitated by CU
- Deliberative discussion synthesizing the city's community input from multiple programs (housing, BVCP, climate, etc.)

## **Legacy Highlights:**

- Floodplain management
- Affordable Housing program
- Economic vitality

## Part 2 – Goals, Strategies, Actions



- **Goal 1:** Prepare all segments of the community for uncertainty and disruption
- **Goal 2:** Integrate resilience into city operations and systems
- **Goal 3:** Inform decisions with data and knowledge
- **Frontiers – NEW!**

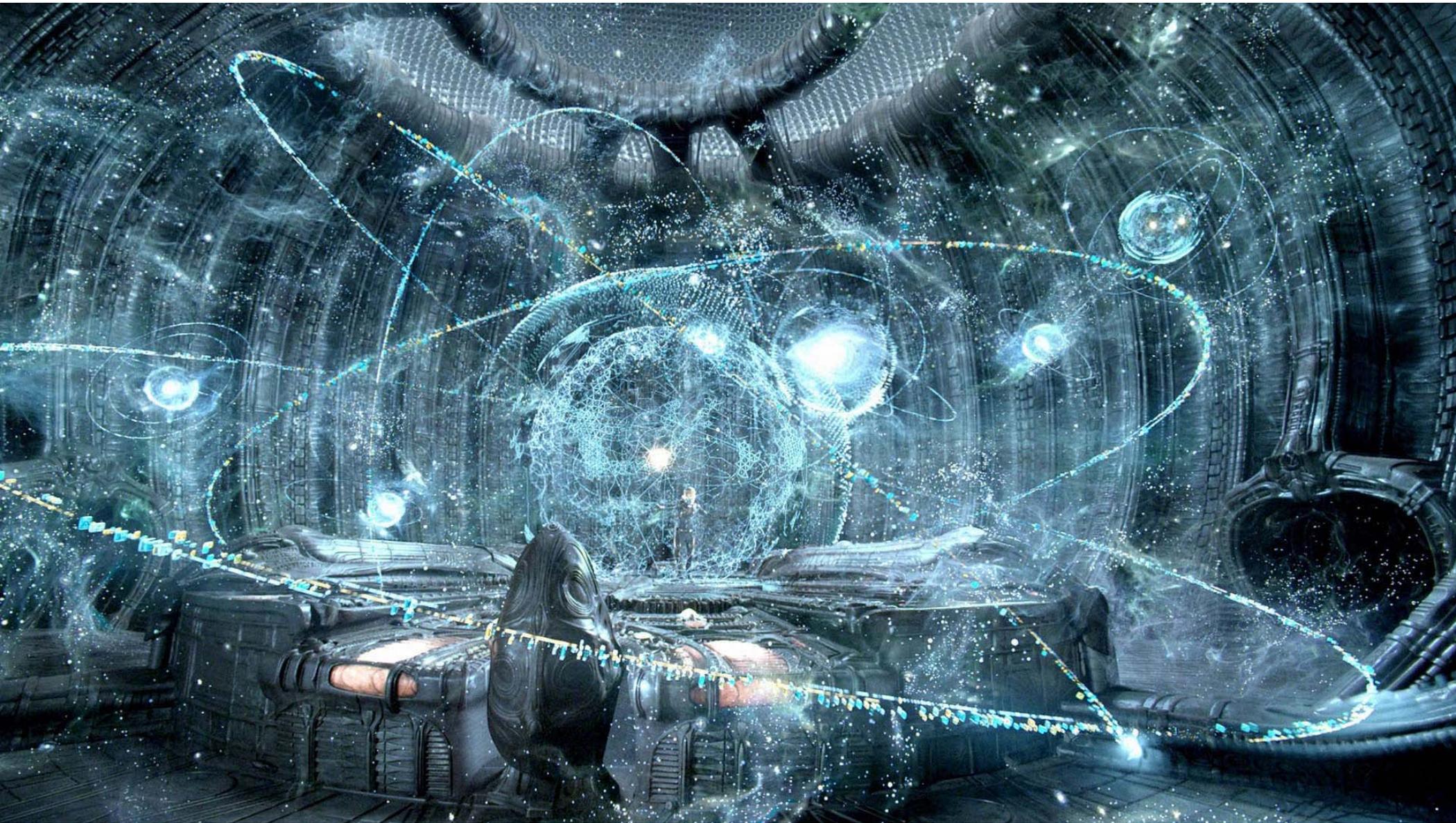
# Resilience Retrofit Program Project Charter



Date modified: 6 November 2015

Objectives	Incentive property owners to invest in risk reduction	Prioritization Ranking	
Aspiration	Households and business owners have access to the resources, capacity, and expertise required to adapt to their changing environment and future threats.	Resilience Value	Create readiness at the community level that will spur economic development, lower individual liability, and reduce the burden on public funds for disaster recovery.
Lead agency	NORA	Funder / Sponsor	PACE Bond financing
Internal project lead	David Lessinger	External point person	James Vergara, DB, Richard Cortizas, JW, LLP
Core people	Jerry Graves, Melissa Lee, Seth Knutsen	External Partners	Deutsche Bank—AllianceNRG; Jones Walker, LLP; Jefferson Parish?; Advocacy Groups, i.e. A4AE, WaterWise
Internal partners	CFO/Tax Collection	Additional support needed	Marketing and supplier identification
Outputs within scope	Retrofits and upgrades completed on homes and businesses to enhance storm resilience and reduce burden on drainage and other systems	Outputs out of scope	Awareness building among communities, promotion through other programs
Impact	<ul style="list-style-type: none"> <li>Neighborhood flood risk is reduced; households and businesses avoid disaster losses</li> </ul>		
Timeline and key activities	<ul style="list-style-type: none"> <li>Dec 2015 – Legislative action – bond approval, changes to authorize water management</li> <li>Jan 2016 – Legal agreements (CEA) enacted and authorized</li> <li>Program design with DB</li> <li>May 2016 – Design standards completed</li> <li>July 2016 – Launch PACE</li> <li>July 2017 – Review progress and early impact measurements</li> </ul>		
Metrics	Number of participating property owners Amount of capital provided Low-income households served	Goals	Demonstrating success through a participation and reduced risk by May 2018
Related actions	Neighborhood Resilience Program, Small Business Preparedness Program, NDRC		
Risks	Regulatory and policy changes required at state level; unfamiliarity with property-assessed model limits participation; lack of participation among poor and vulnerable communities		
Project success	<ul style="list-style-type: none"> <li>Target number of businesses participate</li> <li>Public awareness is built through media coverage regarding the importance of property owner retrofits and preparedness</li> <li>Future actions / projects identified through the implementation process (future rounds of program, etc.)</li> </ul>		





# Part 3 – Processes of Resilience



## Resilience Assessment 2.0

- New analytics, robust analysis
- Infrastructure interdependency analysis
- Social assets and capacity
- Ecosystem service assessment

## Valuing Resilience – 100RC 10% Pledge

## Metrics

## Scenario-based planning and risk assessment

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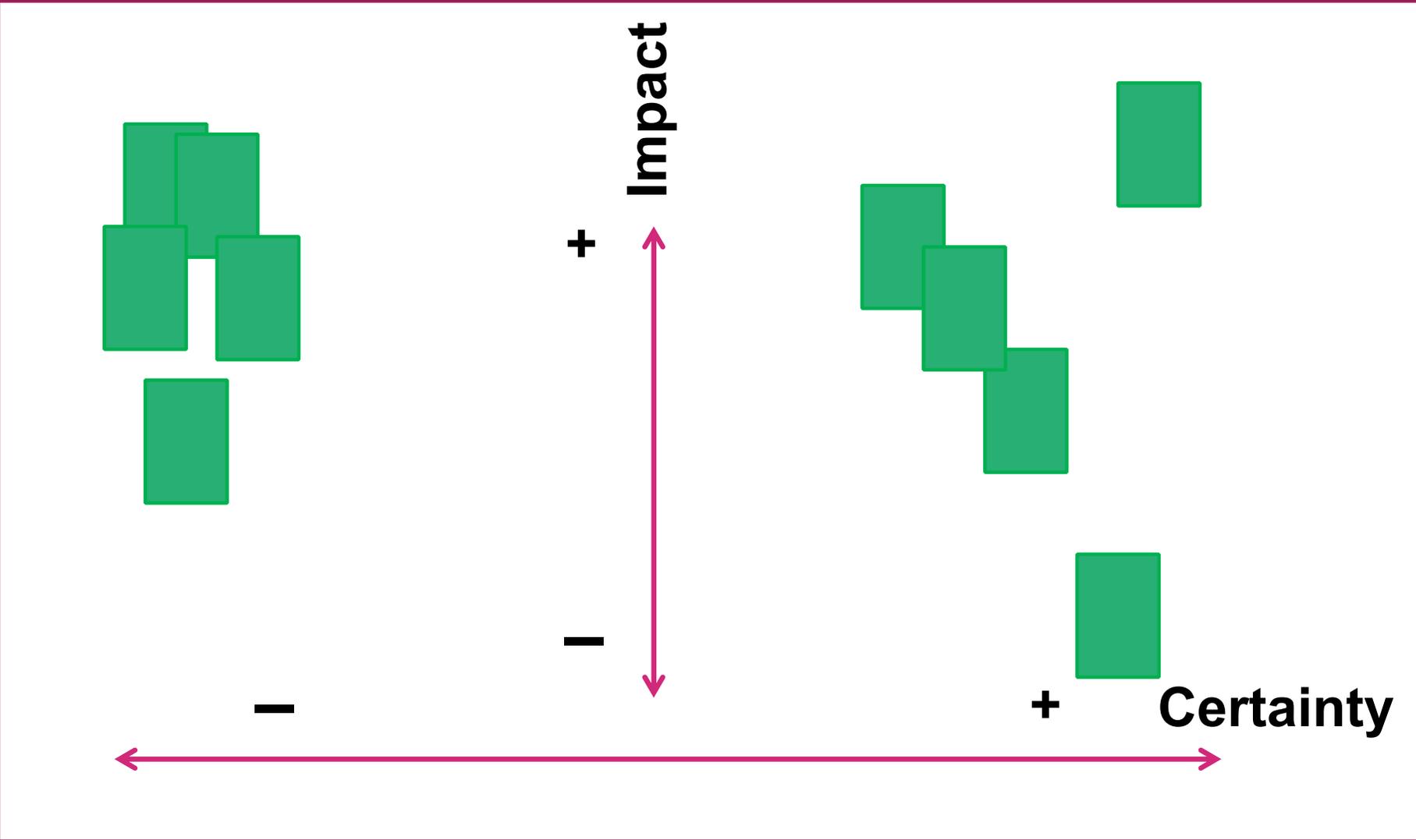
**Community  
Engagement  
Exercise**

# Big Sort Instructions

1. Read the trend definitions on your cards
  - Example: **Transportation Automation**: *Self-driving cars and automated, high-speed mass transit replace traditional driver-operated vehicles in Boulder*
2. Think about the potential impact of each trend: **How much could this trend affect the Boulder community over the next 20 years?**
3. Think about the certainty of each trend: **How certain are you that this will be a trend over the next 20 years?**

## **Big Sort Instructions**

4. Place your cards where you believe they belong on the appropriate graphs (there are no wrong answers). Each graph and each trend card is labeled with one of the four dimensions of the City Resilience Framework:
  - **Leadership & Strategy (red cards)**
  - **Health & Wellbeing (blue cards)**
  - **Infrastructure & Environment (purple cards)**
  - **Economy & Society (green cards)**



## Big Sort Instructions

5. Facilitator will ask you to: Discuss the following questions
  - In cases where participants did not come to agreement about where a trend card should go on a particular graph, *what was the source of the disagreement?*
  - In cases where participants placed trend cards in far corners of the graph, *why did the participants decide to place the trend cards there?*
  - What trends were missing from the deck of trend cards that should have been included?

## *Big Sort* Instructions

**GO!**

# Big Sort Instructions

Discuss the following questions:

- In cases where participants did not come to agreement about where a trend card should go on a particular graph, *what was the source of the disagreement?*
- In cases where participants placed trend cards in far corners of the graph, *why did the participants decide to place the trend cards there?*
- What trends were missing from the deck of trend cards that should have been included?

## *Big Sort* Instructions

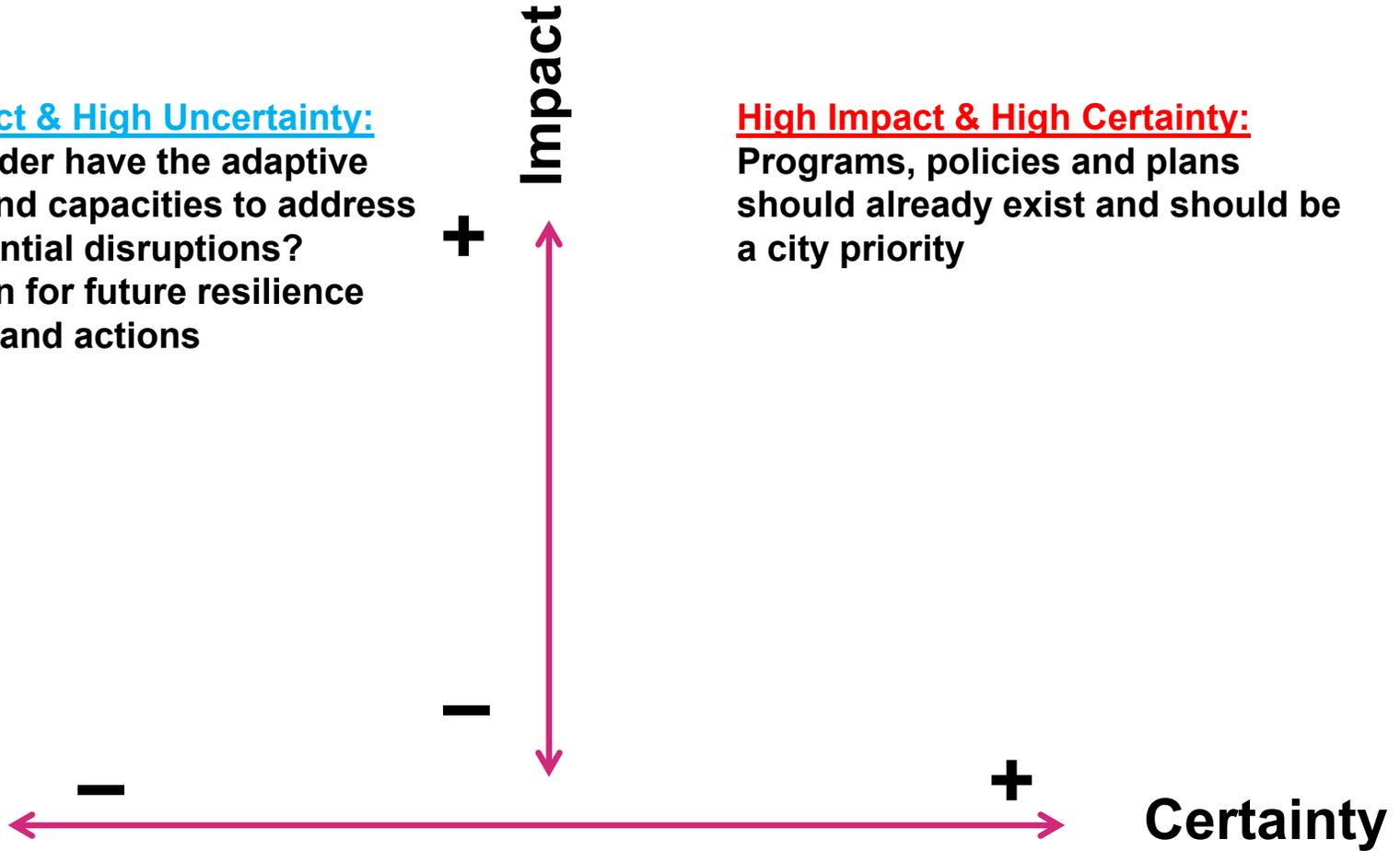
**End of the Exercise**

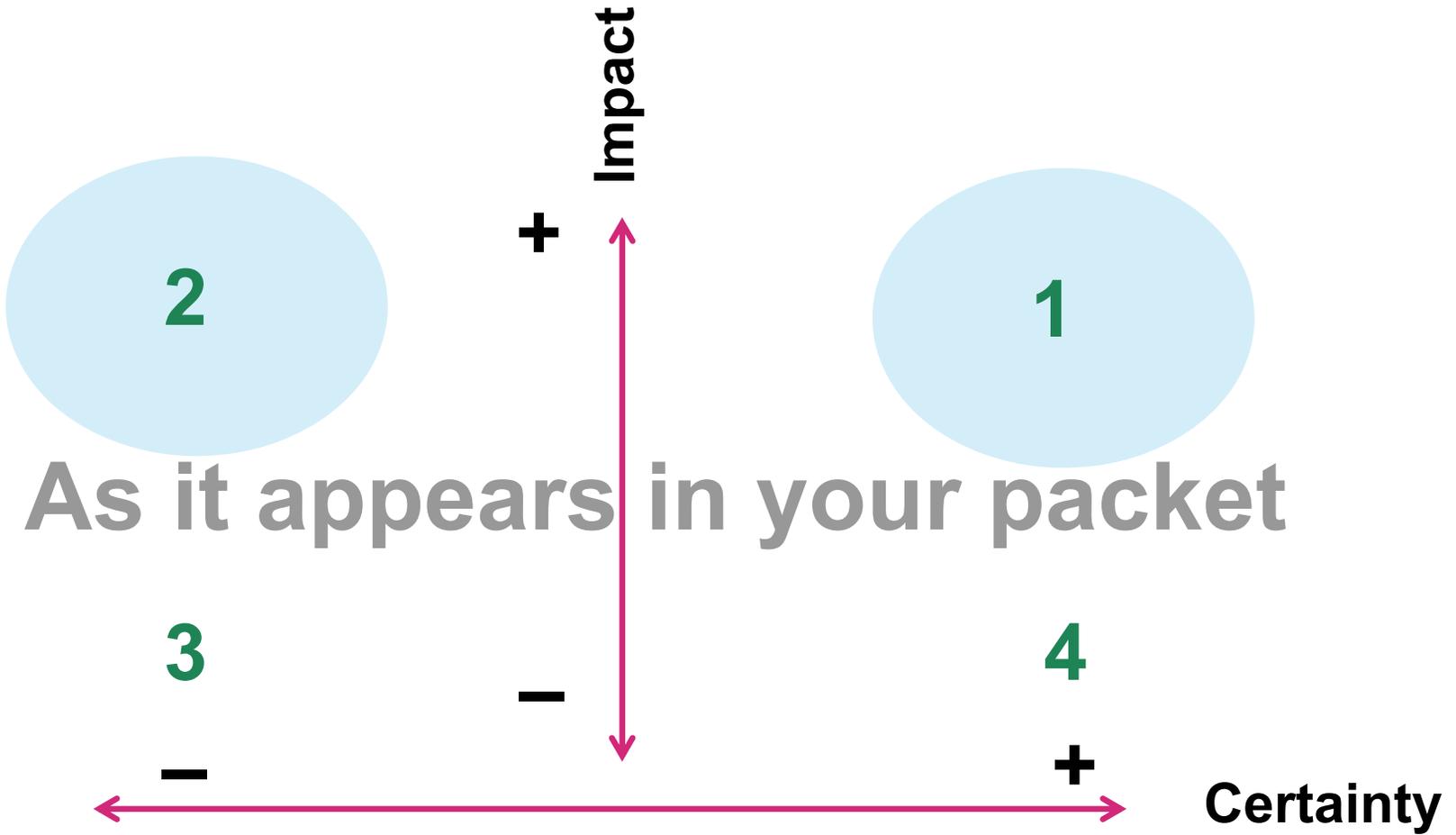
High Impact & High Uncertainty:

Does Boulder have the adaptive systems and capacities to address these potential disruptions?  
Foundation for future resilience strategies and actions

High Impact & High Certainty:

Programs, policies and plans should already exist and should be a city priority





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