

Austin City Council

Policy Workshop on Resiliency

April 27, 2015



Lucia Athens

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City of Austin Chief Innovation Officer

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**Capital Area Metropolitan Planning Organization (CAMPO)
Planning & Environmental Program Manager**

Justice Jones

Austin Fire Department Wildfire Division Manager

Ann Beeson

**Executive Director,
Center for Public Policy Priorities**

Speakers

Resilience

is the ability to overcome challenges of all kinds and bounce back stronger and wiser.

(FEMA definition)



Acute Shocks



wildfire

flooding

earthquake

extreme heat

terrorism

toxic spill

disease outbreak

riot/civil unrest

infrastructure or
building failure

Chronic Stresses



extended drought

**high
unemployment**

homelessness

poverty

**affordable
housing shortage**

food insecurity

poor air quality

aging

infrastructure

traffic congestion



Harvard Business Review
World Bank
Fast Company
FEMA

WHO IS TALKING ABOUT RESILIENCE?

United Nations
Alliance for Innovation
Intl. City Managers Assoc.
Federal Highway Admin.
Rockefeller Foundation

ECONOMISTS/FINANCIAL ANALYSTS

DOW JONES INDUSTRIAL AVERAGE INDEX - [Add to Portfolio](#) - [Discuss DJI](#)

10,609.66

-449.36 (-4.06%)

Sep 17 - Close

Open: 11,056.58

High: 11,057.31

Low: 10,595.90

Vol: 460.78M

Mkt Cap: -

52Wk High: 14,279.96

52Wk Low: 10,595.90

Avg Vol: 205.20M

P/E: -

F P/E: -

Beta: -

EPS: -

Dividend: -

Yield: -

Shares: -

Inst. Own: -

Compare

Settings

[Historical Prices](#)

[Link to chart](#)

Enter ticker here

Add

Zoom: [1d](#) [5d](#) [1m](#) [3m](#) [6m](#) [YTD](#) [1y](#) [5y](#) [10y](#) [Max](#)

Sep 12, 2008 - Sep 17, 2008 -760.63 (-6.69%)



Photo credit: Creative Commons, YoTuT "Dow down another 450 points" on Flickr

ORGANIZATIONS

8



Photo credit: Creative Commons, U.S. Army REDCOM on Flickr

Photo credit: Creative Commons, Intel Free Press on Flickr



EMERGENCY RESPONDERS

9



Photo credit: Creative Commons, U.S. Navy on Flickr

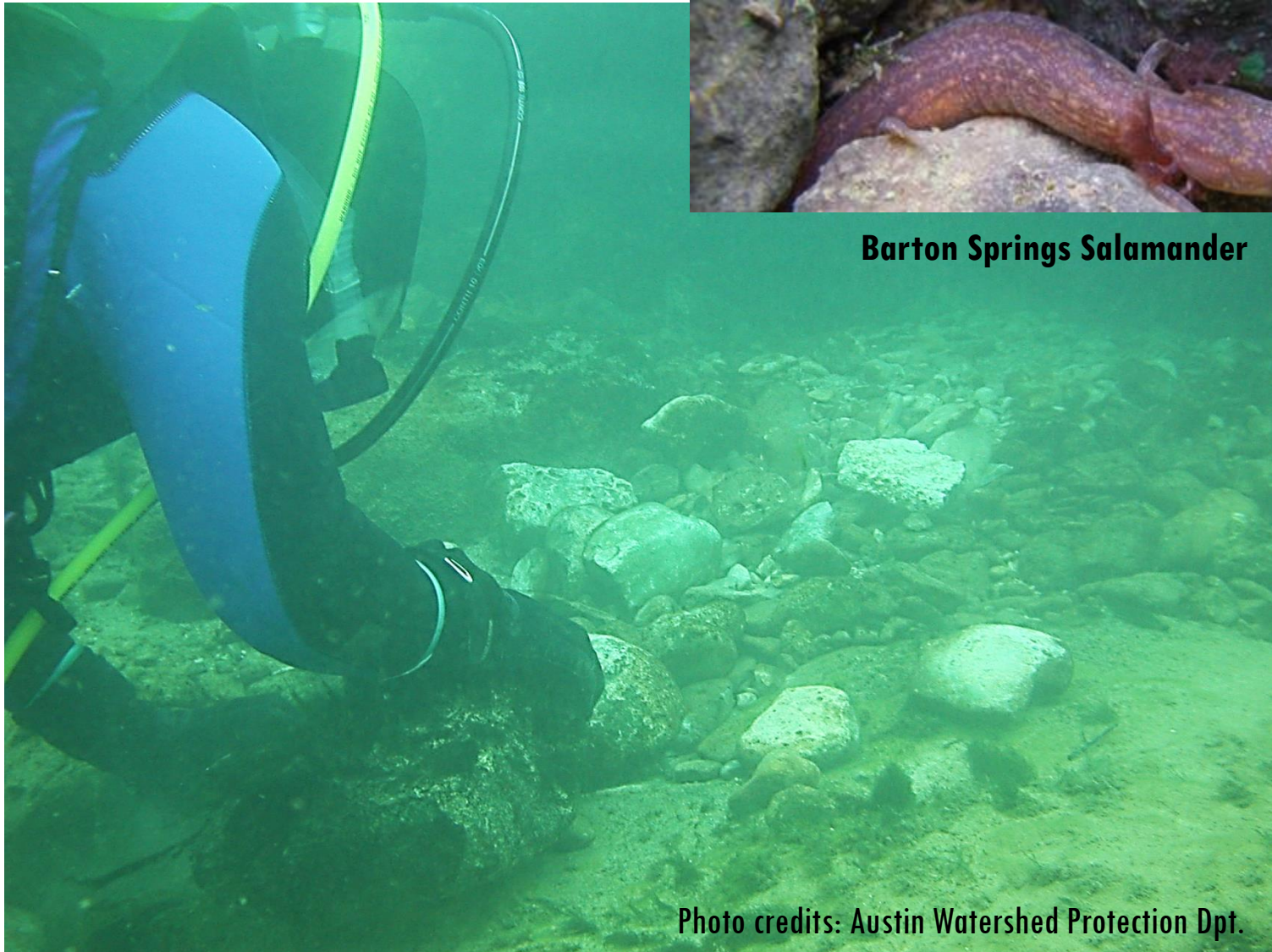
ENGINEERS

10



Photo credit: Creative Commons Highways England Co Ltd on Flickr

ECOLOGISTS



Barton Springs Salamander

Photo credits: Austin Watershed Protection Dpt.

City Biologist at Barton Springs performing salamander habitat assessment



WHAT DOES A RESILIENT CITY MEAN?

Resilience for *cities*

the capacity of individuals, communities, institutions, businesses and systems within a city to *survive, adapt* and *thrive* no matter what kinds of **chronic stresses** and **acute shocks** they experience.

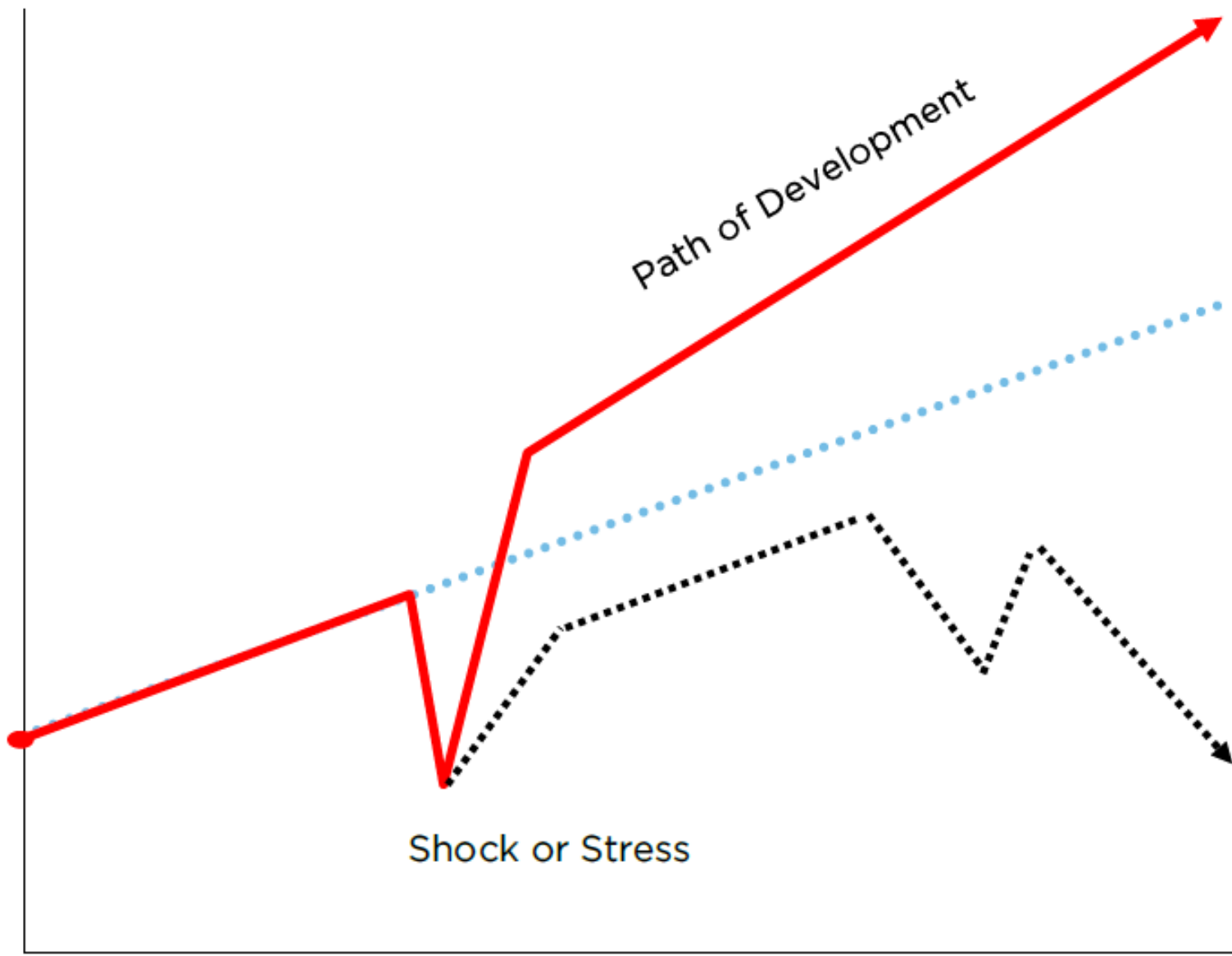
**Sudden shocks or accumulating stresses
can lead to social & health challenges,
environmental & infrastructure disruption, or
economic decline.**





Our ability to innovate – the **process and **practice** of **learning, creating, and applying** – contributes to our ability to survive, adapt, and thrive in the face of adversity.**





BIG DATA & TECHNOLOGY

Smart Traffic Signals ATD Advanced Transportation Management System

- MetroRapid buses
- Transit Signal Priority
- Signals to extend green time



Photo credit: Austin Transportation Dpt.

BIG DATA & TECHNOLOGY



Smart Thermostats Austin Energy Demand Response Program

- Voluntary load reduction
- Wireless data thermostats
- Peak Demand events June-Sept.
- Customers enroll to participate in “Rush Hour Rewards”



Photo credit: Austin Energy

RECOVERY ASSETS



Photo credit: Austin Convention Center Katrina Relief



Photo credit: American Red Cross Katrina Relief

REACTION HOUSING

HOW HURRICANE KATRINA INSPIRED A REVOLUTIONARY NEW DISASTER SHELTER

The crisis that followed Hurricane Katrina eight years ago inspired Michael McDaniel to create EXO. The innovative



INFRASTRUCTURE ADAPTATION

22



Photo credit: thathartfordguy



Photo credit:kottke.org

INFRASTRUCTURE ADAPTATION

23



NYC design for elevated subway vents

Photo credit: Waerth/Wikimedia Commons/Citylab

Photo credit: New York MTA/Citylab

Bangkok Elevated
Subway Entry



INFRASTRUCTURE ADAPTATION

24

9/18/2013



9/26/2013



Jennifer Broome shared **Estes Park News, Inc.**'s [photo](#).
September 26, 2013 · 🌐

Porta Potty decorating contest - well that's one way to turn lemons into lemonade in Estes Park! EP is open for business. Heading there tomorrow!



Estes Park News, Inc.

Okay EP! You asked for it, you've got it!!

The 1st Annual (and hopefully last annual) DECORATE YOUR PORTA POTTY CONTEST IS ON!
So here are some rules.

First, you must email me that you are joining the contest by Saturday Sept 28th with address and name of persons using the porta potty to shookr2@yahoo.com or you can call me at 577-1010.

2. Judging will take place on Tuesday Oct. 1 via in person if we can traverse via zip line to your house or the boring way by driving there or at the very least a picture of your porta potty all decked out. A panel of 3 judges will be assembled. 1st, 2nd and 3rd place prizes will be awarded.

NEIGHBORHOOD STRENGTH

Super Storm Sandy Responses

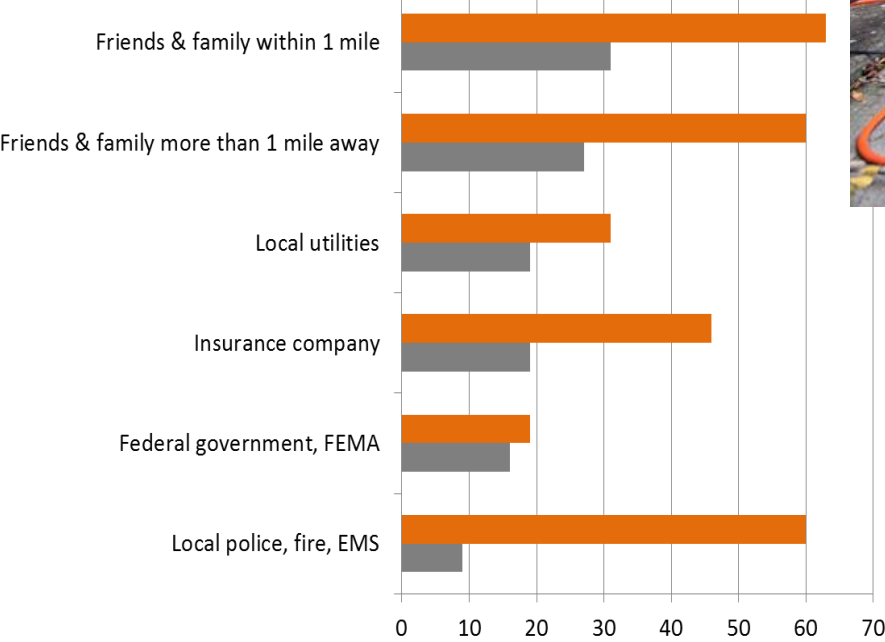
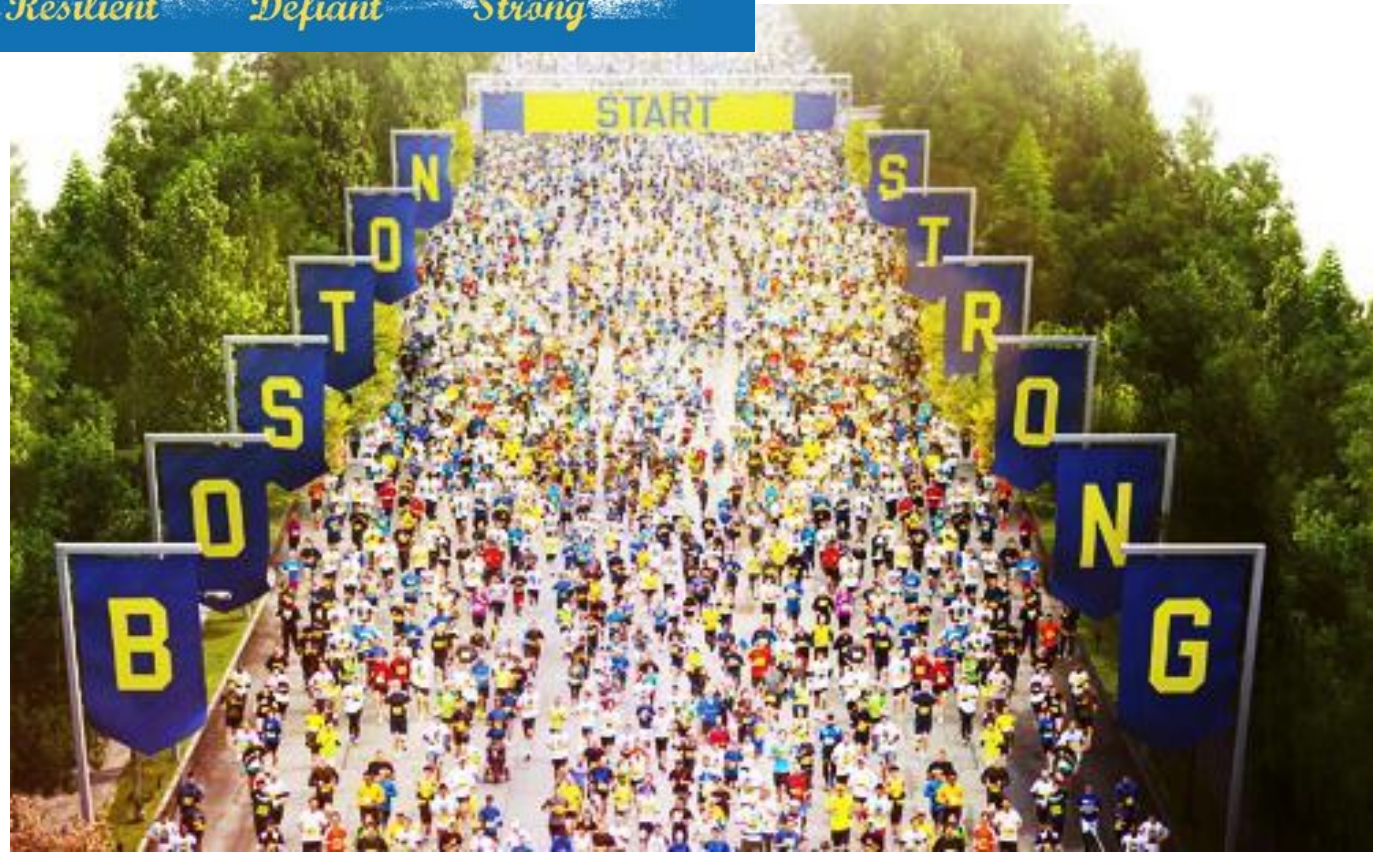


Photo credit: Amal Chen, The Epoch Times

■ % receiving help
■ % seeking help

COMING BACK STRONGER

26





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124 NEIGHBORS · 1613 NEARBY NEIGHBORHS



Post a message, event, poll, or urgent alert to neighbors

Zilker East

Zilker East + 9 Nearby Neighborhoods

[Email settings](#)**Welcome back to Nextdoor, Lucia!**

Hide

You have 2 more things to do to get the most out of Nextdoor.

☒ ~~Verify you live in the neighborhood~~☐ **Invite your neighbors and friends**☐ **Add your profile photo****INVITE NEIGHBORS**

You have 0 accepted invitations.
Invite neighbors to become a top inviter.

**Lucia Athens joined Zilker East**

1m ago

Kinney Ave

Shared with Zilker East

REPLY

**Quick Reminder! In-District Office - Councilmember Ann Kitchen - District 5 - 10:30 am-Noon - Saturday, April 25, 2015**

1h ago

[David King](#) from Zilker West

FYI

HOW ARE CITIES THINKING ABOUT RESILIENCE?

- Neighborhood Strength
- Adapting Existing Assets
- Big Data, Technology & Tools

WHAT DOES THE FUTURE HOLD?

