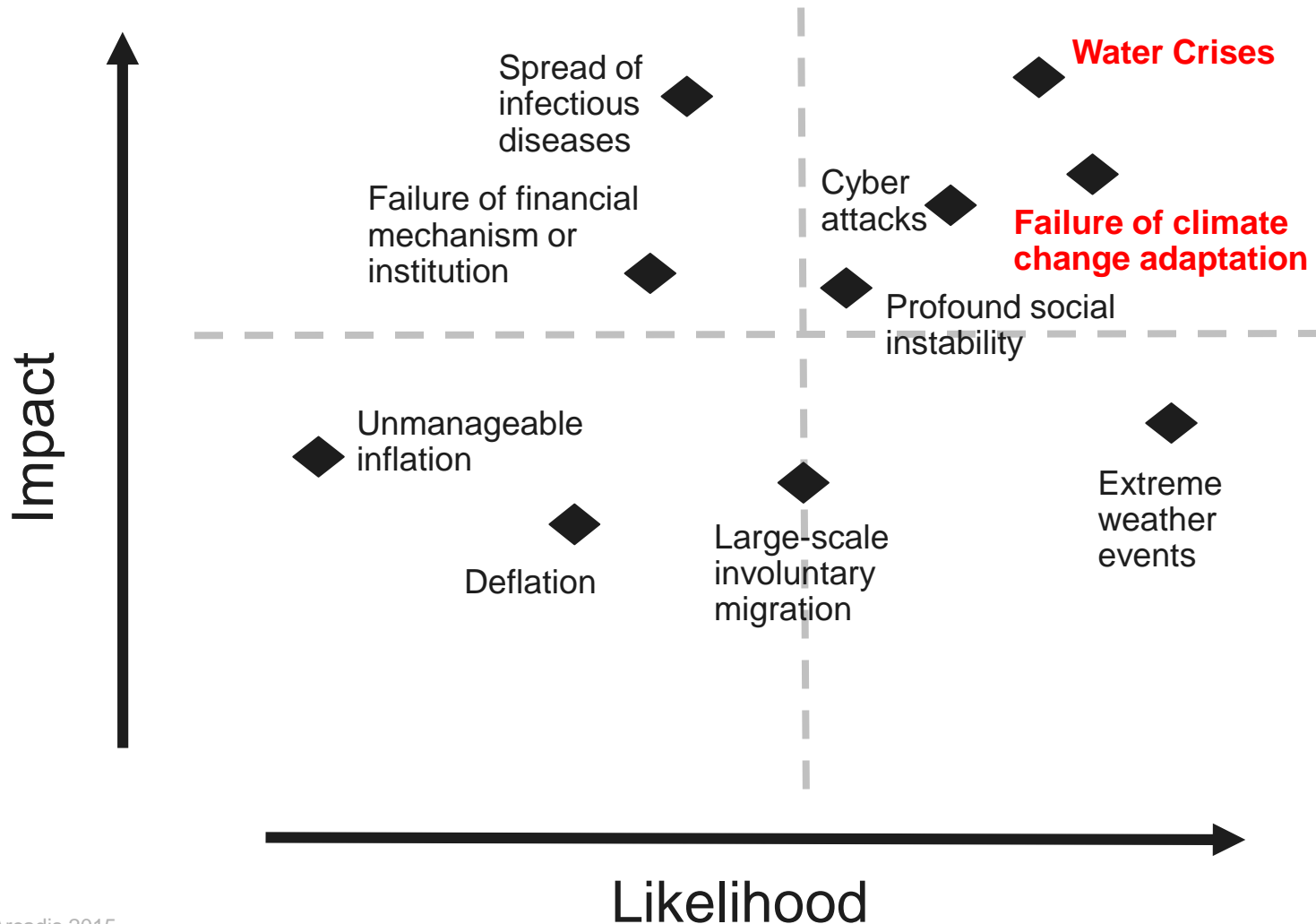


DROUGHT

Carly A. Foster, AICP, CFM



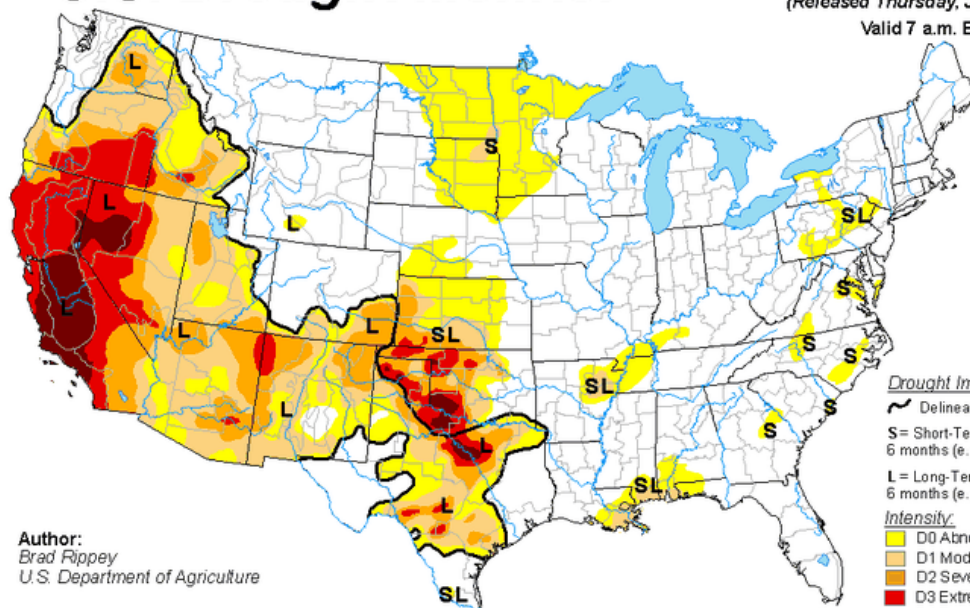
Global Risk Landscape



A National Problem

U.S. Drought Monitor

January 6, 2015
(Released Thursday, Jan. 8, 2015)
Valid 7 a.m. EST



Author:
Brad Rippey
U.S. Department of Agriculture

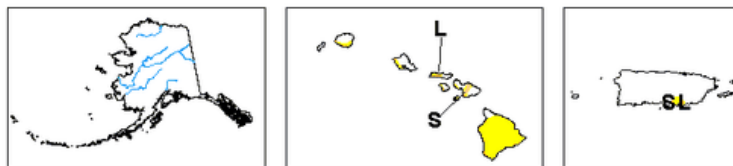
Drought Impact Types:

~ Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

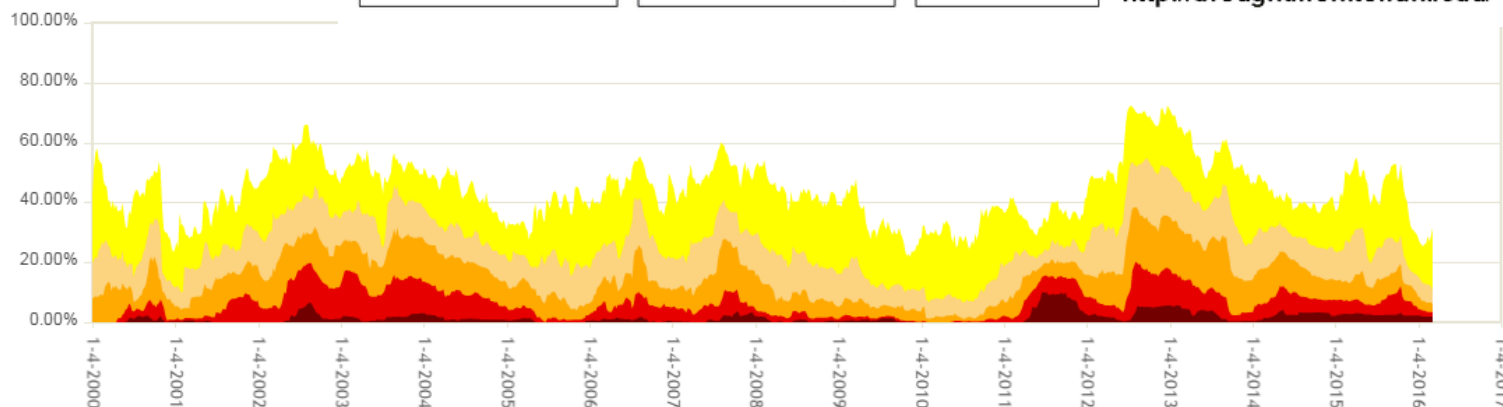
Intensity:

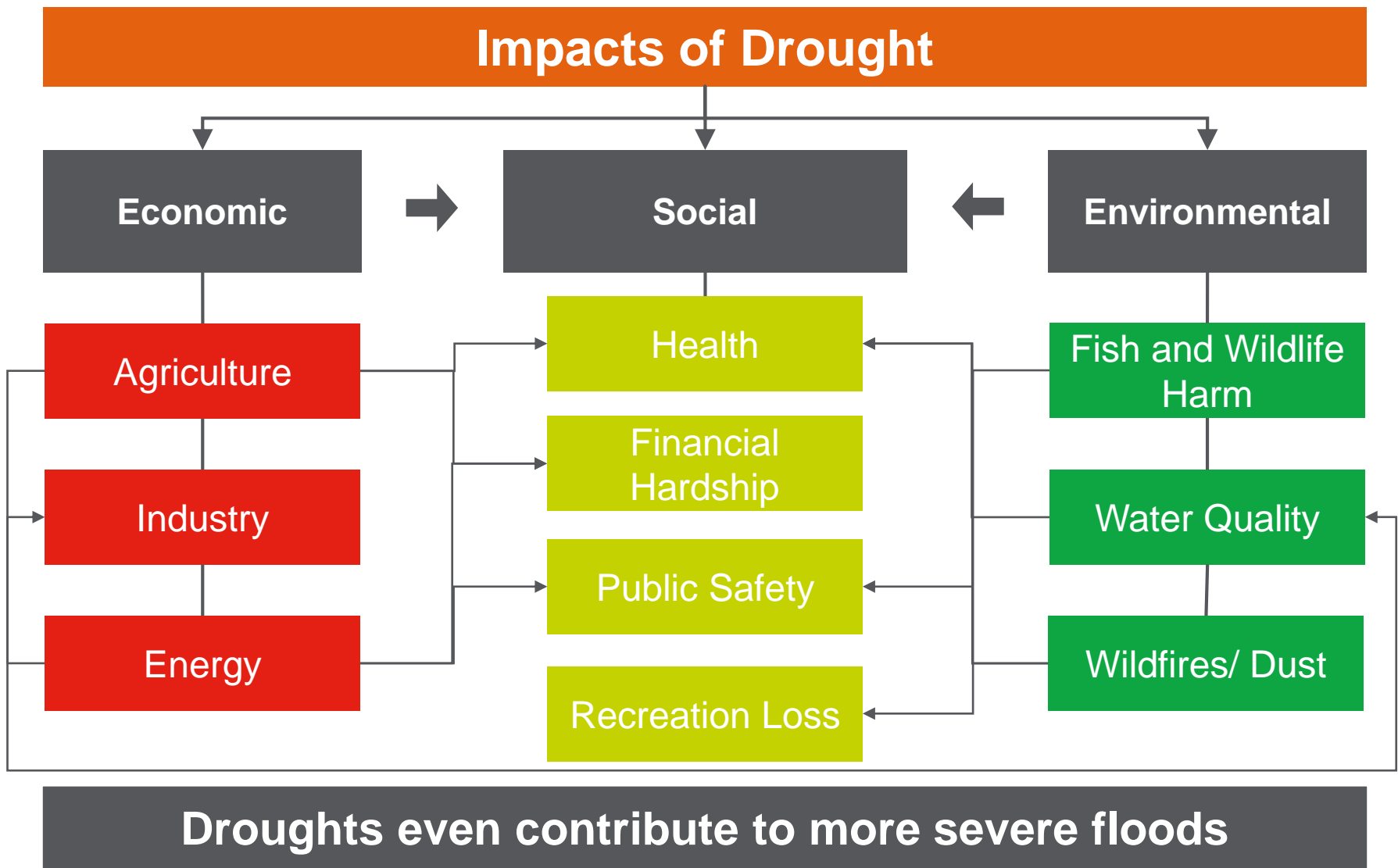
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>





Solution Strategies



Diversification and Re-use should be emphasized

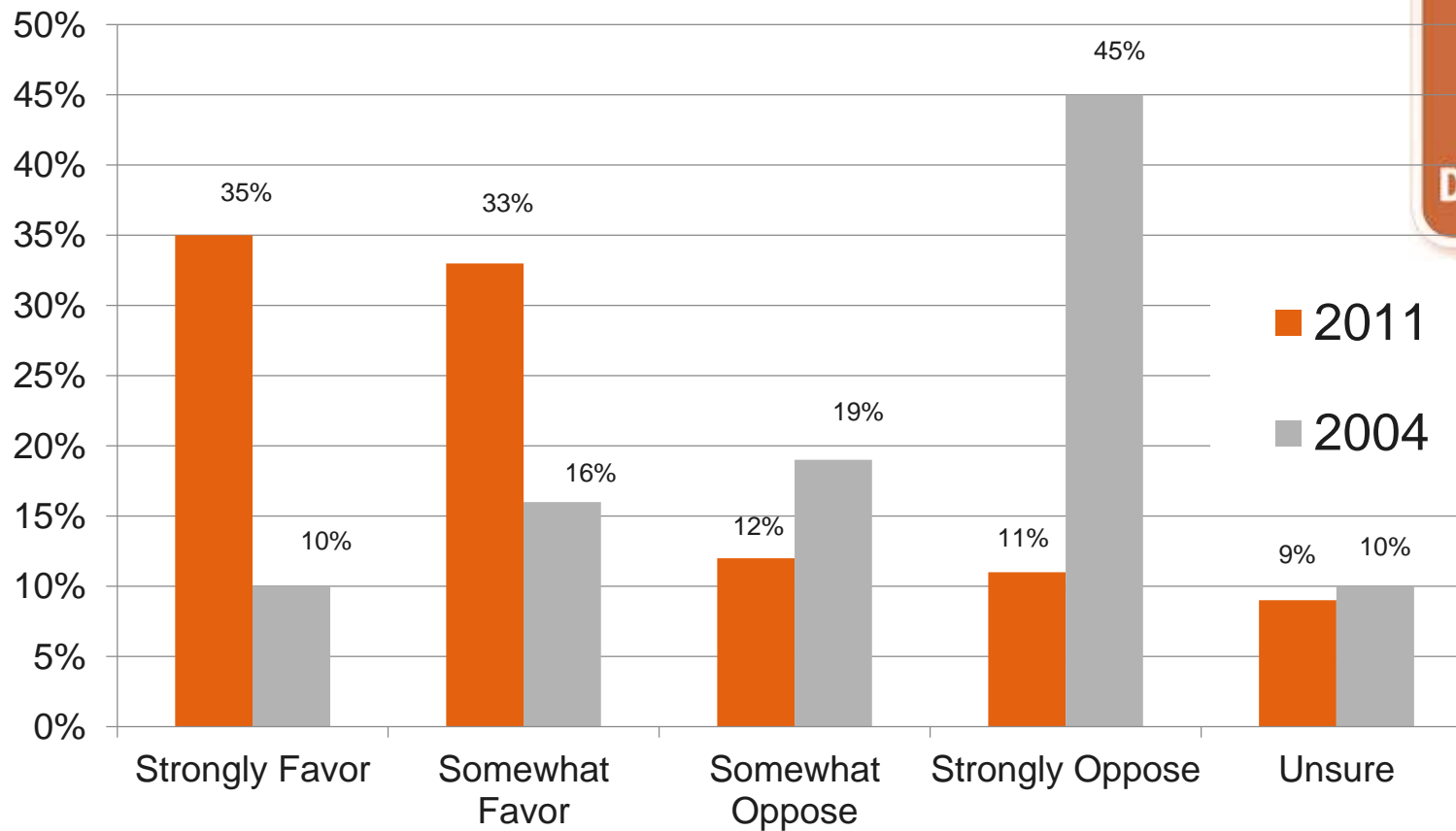
Potable Reuse is Happening Worldwide



It's a sustainable practice with locally controlled, renewable water supplies

Public Perception is Changing

2011 San Diego Public Opinion Poll – Using Full Advanced Treatment of Recycled Water



Policy

- Urban areas are using risk-based approaches to improve resilience and improve competitiveness
- Urban water independence requires diversified portfolio for resilience
- Current regulatory structure may not always be aligned with urban resiliency drivers
- Drought resilience can be incorporated into other projects

Wastewater is governed by the Clean Water Act (CWA) and drinking water by the Safe Drinking Water Act (SDWA)

We should incentivize innovation and collaboration

Policy

- **Federal, state and local investment in water reuse and storage**
- Regional integrated water management
- Facilitate the distribution of federal cost shares for local projects
- Investment towards information systems
- Facilitate Water trading



Upgrading water supply utilities may be a more cost effective alternative over the long term

THANK YOU!

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