

Turning Resilience Metrics into Resilience \$\$\$

Resilience Workshop

April 7, 2021



CONVERGE
STRATEGIES



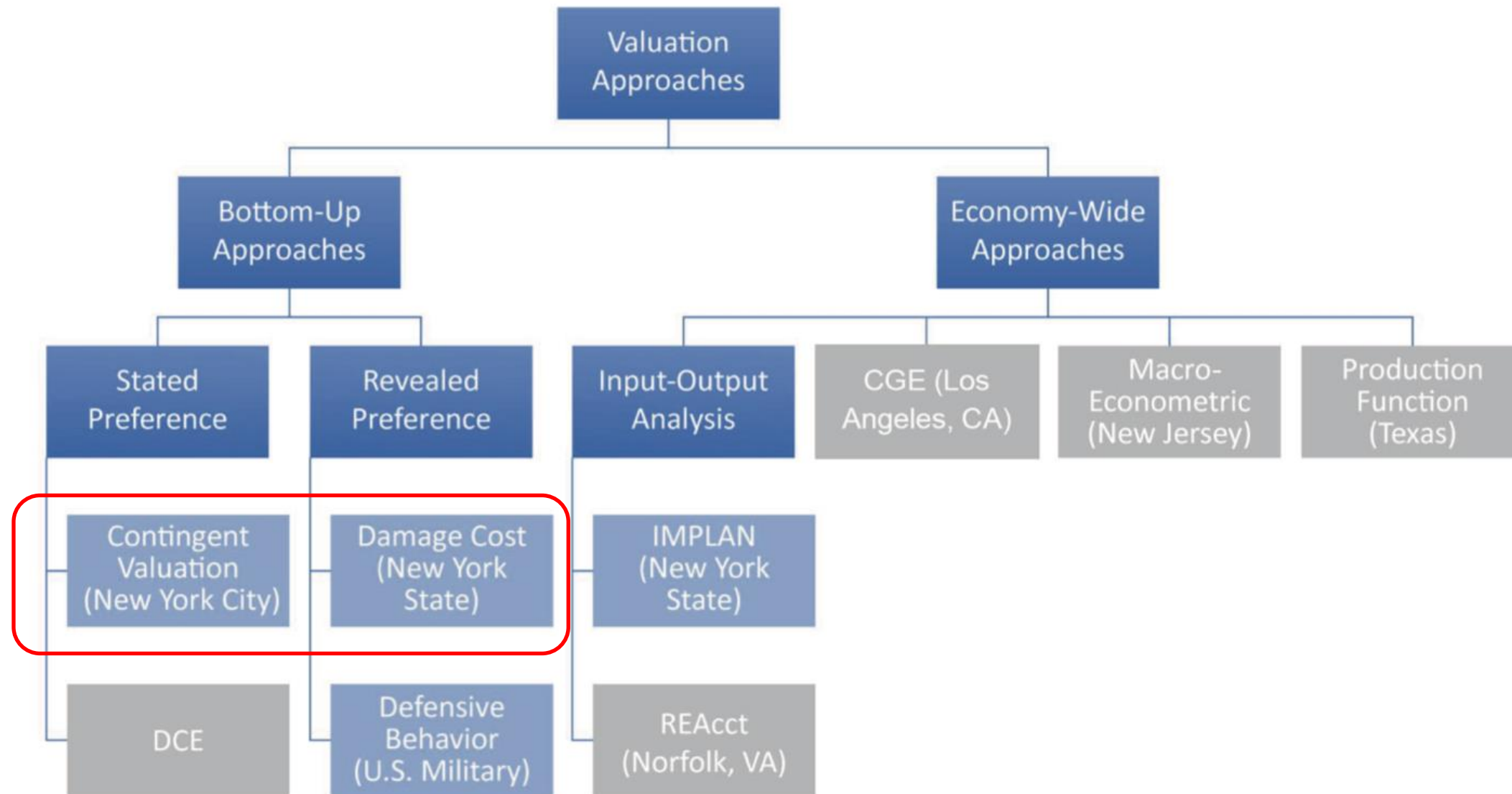
Four Resilience \$ Questions

1. Resilience for what?
2. What is resilience worth?
3. Who has money?
4. Does a value of resilience help with \$ decisions?


Resilience for What?



What is Resilience Worth?




Source: NARUC




NARUC
National Association of Regulatory Utility Commissioners

The Value of Resilience for Distributed Energy Resources: An Overview of Current Analytical Practices



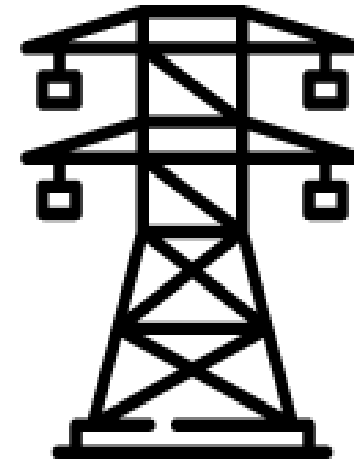
Prepared for The National Association of Regulatory Utility Commissioners
Prepared by Converge Strategies, LLC
April 2019



Who Has Money?



Local Government?








Utilities?



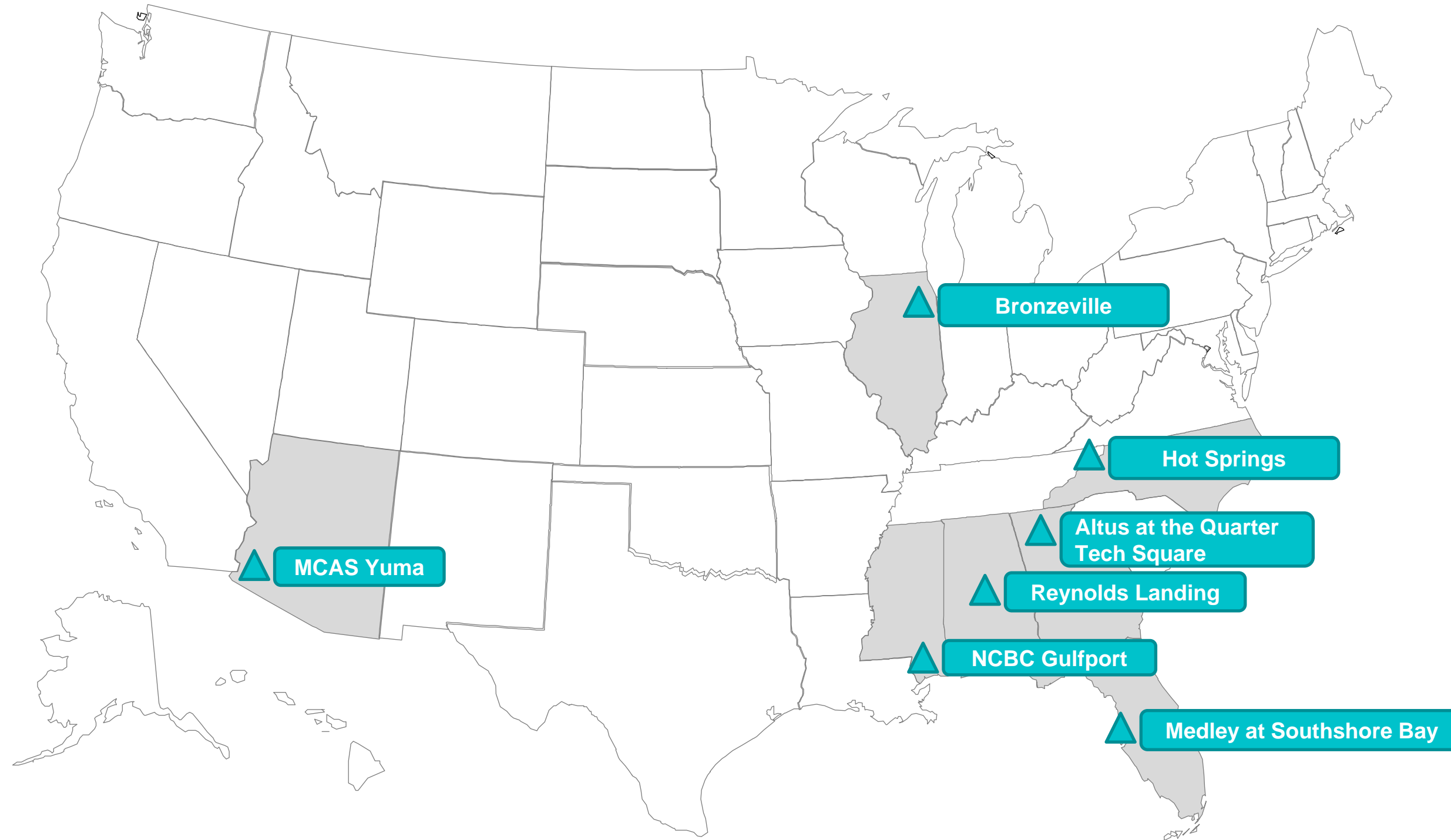
Emergency Preparedness Agencies?

Is a Value of Resilience being Used by Commissions?

Commission	Microgrid Proceeding(s)	
		 Your life. Plugged In.™
	 An Exelon Company	



Microgrid Proceedings Hinge on Co-Benefits or “Pilots”



Is a Value of Resilience Helpful for FEMA \$?



FEMA

**Total Available BRIC FUNDING
\$500 Million**

Uses of Assistance	33.6 M State/Territory Allocations	\$20M Tribal Set-Aside	\$446.4M National Competition for Mitigation Projects
Management Costs.	✓	✓	✓
Capability and Capacity Building Activities.	✓	✓	✓
Mitigation Projects.	✓	✓	✓

Benefit Cost Analysis 4.5.5.0

Home (Ctrl+H) Projects (Ctrl+P) Structures (Ctrl+S) Import/Export (Ctrl+I) Backup/Restore (Ctrl+B) About (Ctrl+A)

PROJECT: DFA Case Study #1, STRUCTURE: Raising Floor-DFA
MITIGATION TYPE: Damage-Frequency Assessment - Other flood proofing measures

Save and Go Back

BUILDINGS

Facility Type *

Fire Station Hospital Police Station Other

Fire Station

How many people are served by this fire station? *

Indicate the type of area served by this fire station *

What is the distance in miles between this fire station and the fire station that would provide fire protection for the geographical area normally served by this fire station? *

Does the fire station provide Emergency Medical Services (EMS)? Yes No

Fire Station with EMS *

What is the distance in miles between this fire station and the fire station that would provide EMS for the geographical area normally served by this fire station?

Show Total (\$/day)

Future Policy? Resilience Guidance vs. Mandates

Category	CT Residents	U.S. Air Force	Hospitals	FL Nursing Homes
Requirement	\$25 per day and \$250 for food and medicine to customers after 96-hour outage	7 days of power for critical missions	96 Hours of Fuel Supply and Critical Loads on Dedicated Circuits	96 Hours of temperature control 48-72 hours of fuel supply
Policy	<u>H.B. 7006</u>	<u>Air Force Policy Directive 90-17</u>	<u>NFPA 99 Health Care Facilities Code</u>	<u>Rule 59A-4.1265</u>