



Community Resilience Update

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AGENDA

Introduction

Resiliency

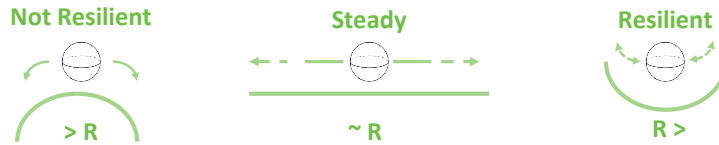
Market

Projects

Questions

RESILIENCE WRIT LARGE

- ▶ “Resilience” describes a state of being



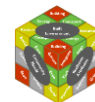
- ▶ The growing body of best practices

- > [100 Resilient Cities](#)
- > [United Nations International Strategy for Disaster Reduction](#)
- > [National Disaster Resilience Competition](#)



THE RESILIENCE CHALLENGE

- ▶ The challenges are clear
 - > How do we translate knowledge into action?
 - > How do we scale our approach?
 - > How do we connect capital with projects?
- ▶ At the local level, the need is to
 - > Assess strengths and vulnerabilities
 - > Align actions with priorities
 - > Obtain timely funding
 - > Complete improvement projects



Assess



Align



Fund



Improve

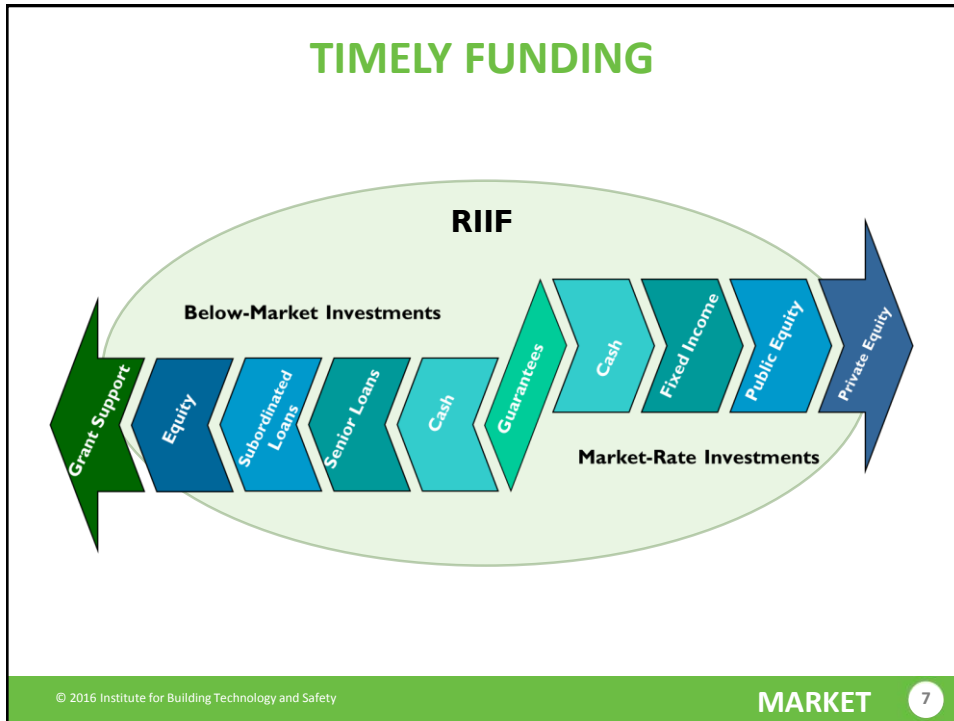
EXISTING RESILIENCE TOOLS

- ▶ Self Help
 - Online questionnaires
 - Pre-Packaged tools
 - Databases
- ▶ Tool Kits
 - Educational material
 - Checklists
 - Reporting templates
- ▶ Consultant Assistance
 - Tailored focus
 - Open source techniques



ALIGNMENT WITH PRIORITIES


Resilience Contribution	SOCIAL RESILIENCE				ECONOMIC RESILIENCE				RESILIENT GOVERNANCE				Social Resilience	Economic Resilience	Resilient Governance		
	Acknowledge Stress	Function Under Adversity	Isolate Significant Trauma	Social Supports	Stress Stimulates Growth	Required Technology	Logistical Infrastructure	Financial Resources	Human Resources	Physical Resources	Strategic Planning	Integration Of Functions				Inter-Government Relations	Align With External Plans
Baseline	Yellow	Yellow	Pink	Green	Yellow	Green	Pink	Pink	Pink	Green	Green	Yellow	Green	Green	6.6	4.2	10.7
Part "A"	Yellow	Yellow	Pink	Green	Yellow	Green	Pink	Pink	Pink	Green	Green	Yellow	Green	Green	7.0	5.6	11.3
Part "B"	Yellow	Yellow	Pink	Green	Yellow	Green	Pink	Yellow	Pink	Green	Green	Yellow	Green	Green	6.4	6.0	11.4
Part "C"	Green	Yellow	Pink	Green	Yellow	Green	Pink	Yellow	Pink	Green	Green	Yellow	Green	Green	7.6	5.1	10.7



RESILIENCE PROJECT EXAMPLE 1

- ▶ Carroll Creek Park (Frederick, MD)
 - 1.3 Miles of mixed-use urban park
 - Frederick County Board of Education Campus
 - Visitor Welcome Center
- ▶ Cost
 - \$ 1.856 M Design
 - \$ 2.342 M Specifications
 - \$25.307 M Construction
- ▶ Funding

<ul style="list-style-type: none"> ➢ 59% City (\$17.515 M) ➢ 3% County (\$1 M) 	<ul style="list-style-type: none"> ➢ 33% Grants (\$9.791 M) ➢ 4% Donations (\$1.2 M)
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PROJECT 8

RESILIENCE PROJECT EXAMPLE 2

- ▶ Green City, Clean Waters Program (Philadelphia)
 - > Green stormwater infrastructure on public and private land
 - > Street tree program
 - > Water access and improved recreational opportunities
 - > Preserved open space and converted open space
 - > Restored streams
- ▶ Cost = \$2,400 M
- ▶ Funding
 - > 42% Fees (\$1,000 M)
 - > 42% Grants (\$1,000 M)
 - > 6% Stormwater Credits (\$400 M)



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MARKET

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EXAMPLE OF A TARGET PROJECT

Chitin Reprocessing Facility – Bayou La Batre, AL

Cash Inflow	Amount	Cash Outflow	Amount	Use
Investor	\$4.00MM			
		Fund Management	\$0.08MM	G&A, OH
		Building Contracts	\$3.14MM	Chitin Facility
		Contingency	\$0.78MM	Project Reserve
Repayment, Grants	\$1.96MM			
Repayment, Bonds	\$0.98MM			
Repayment, Loans	\$0.59MM			
Repayment, Cash	\$0.20MM			
Equity Stake	\$0.19MM			
Contingency	\$0.78MM			
Project Subtotal:	\$4.70MM	Fund Advisor	\$0.14MM	Incentive
Project Net:	\$4.56MM	(14% ROI, 12 mos.; 7% ROI, 24 mos.)		

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PROJECT

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QUESTIONS?

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