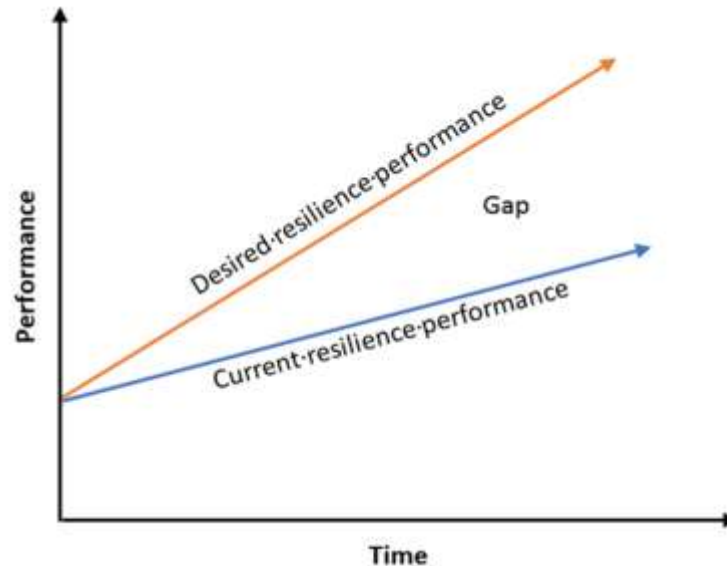


Resilience Tools and Services

Gap Analysis



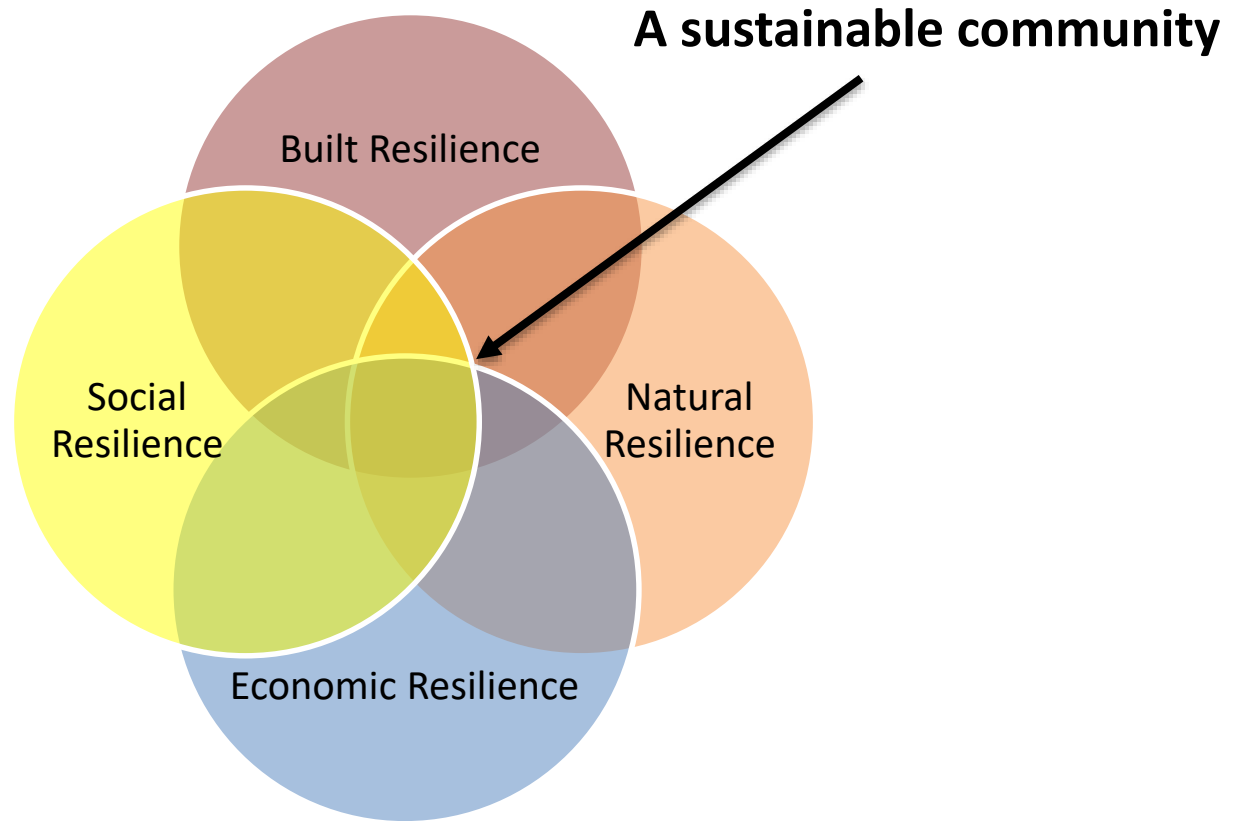
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Resilience as an organizing concept



Rationale

- NOAA Regional Coastal Resilience Grant
 - A Systematic and Integrated Approach to Creating More Resilient Communities in the Gulf of Mexico Region
- **3 years and \$867,700**
- **Key objectives**
 - Resilience tools and services
 - Gap analysis
 - Roadmap
 - Community grant program (10 coastal communities)
 - A Resilience Community of Practice will be formed

What is a Gap Analysis?

- In management literature, **gap analysis** involves the comparison of actual performance with potential or desired performance.
- If an organization does not make the best use of current resources, or forgoes investment in capital or technology, it may produce or perform below its potential.
- Similarly, coastal professionals must make the same use of resources to serve its communities.

Approach for Gap Analysis

Online survey using a mix of multiple-choice and open-ended questions and

Observed elements, such as:

- Natural environment
- Built environment
- Economic impact
- Geographic scale/relevance
- Accessibility

Tool Name	Gap/Need Addressed					
	Natural Environment	Built Environment	Economic Considerations	Relevant at Community Level	Relevant at State Level	Relevant at Regional Level
EESLR	Red	Red	Green	Red	Green	Green
SLAMM	Green	Yellow	Red	Red	Green	Green
USGS/LCC Marsh Migration Study	Green	Yellow	Green	Yellow	Red	Red
Homeowner Handbooks	Yellow	Red	Green	Green	Yellow	Yellow
Coastal Community Resilience Index (CCRI)	Yellow	Red	Green	Green	Red	Red

Green	Gap fully addressed
Yellow	Gap partially addressed
Red	Gap not addressed

Informed by Survey and PI Consensus

Web Survey

1. What tools are you using now?
2. How do you use them?
3. What do you value about them?
4. Of those tools you use, what improvements would you like to see?
5. What do you need that is not available?
6. What services (technical assistance) would be helpful to you?

PI Consensus

1. Survey was quantitative in nature, but critical decisions were made
2. PIs are vetting survey data and will make final determination of full/partial/no gap in order to proceed with community engagement

How do you use the following GOMA tools?

Answer Options	Coastal Community Resilience Index	Homeowners Handbook	StormSmart Coast	Count
Information for yourself or as part of your job	36	24	19	49
Networking with others working on coastal resilience	24	7	14	34
Planning tool for yourself or your job	19	13	9	31
Teaching tool for others	17	17	5	27
Technical information for funding	12	3	5	15
Resource for storm preparation	10	22	7	28

What actions have you taken based on information from these tools?

Answer Options	CRI	HH	SSC	Count
Used in community outreach	21	18	9	31
Used in comprehensive planning	20	3	3	20
Used in long-term strategic planning	20	4	4	22
Used to support grant applications	16	7	4	18
Used in hazard mitigation planning	13	4	3	14
Used in Community Rating System	12	4	2	13
Used in my business	11	7	6	14
Used to take action to strengthen my home or community structures	2	10	3	12
Used in family planning	0	16	0	16

What limitations have you found using this tool?

Answer Options	CRI	HH	SSC	Count
Tool lacks depth	8	2	5	11
Lack of expertise in using the tool	7	3	2	8
Lack of expertise in interpreting the results generated	6	2	2	7
Not appropriate for my location	3	0	1	3
Not user-friendly	2	2	0	4
Credibility issues with the tool	1	0	0	1
Cost of tool	0	0	0	0
Cannot access the tool	0	1	0	1

Have you ever used resilience services provided by any of the following?

Answer Options	Percent	Count
Sea Grant outreach	52.8%	66
NOAA Office for Coastal Management	48.0%	60
The Nature Conservancy	44.0%	55
State Resource Agencies	36.0%	45
Coastal Zone Management Program	32.8%	41
Regional planning organizations	28.0%	35
National Estuarine Research Reserve's Coastal Training Program	24.8%	31
EPA National Estuary Programs	24.8%	31
Gulf of Mexico Alliance Priority Issue Teams	23.2%	29
Local, regional or national planning associations	23.2%	29
State Floodplain Managers associations	17.6%	22
Gulf of Mexico Climate Community of Practice	16.8%	21
University led sustainable design studios	15.2%	19
Land Grant Extension	13.6%	17
Community Rating System user groups	12.0%	15
Gulf State Marine Fisheries Commission	10.4%	13
Gulf of Mexico Fisheries Management Council	10.4%	13

What types of services do you need to improve your ability to use coastal resilience tools?

Answer Options	Response Percent	Response Count
Training workshops	54.0%	75
Instructional web sites	44.6%	62
Webinars	43.9%	61
Demonstrations	41.7%	58
Instructional videos (including Youtube)	36.7%	51
Printed instructional materials	27.3%	38
One-on-one technical support	19.4%	27
Topical working groups	18.0%	25
Phone App	13.7%	19
Leadership academy experience	11.5%	16
Other (please specify)	11.5%	16
Technical support hotline	10.1%	14
Podcasts	8.6%	12

Tools

Coastal Resilience 2.0
Fortified Homes Program
MyCoast
SLAMM
LCC Gulf Coast Vulnerability Assessment
Coastal Community Resilience Index
LSU Ag Center Mapping Portal
Coastal Flood Exposure Mapper
Community Rating System
CHARM
CPRA Coastal Resiliency Viewer
Homeowner Handbook
Surgin Seas
Sea Level Rise and Coastal Flooding Impacts Viewer

Coastal Community Resilience Index
Sea Level Rise and Coastal Flooding Impacts Viewer
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Coastal Resilience 2.0
Homeowner Handbook
Storm Smart Coast

Interviews

- **Interviewed 10 survey respondents**
 - 6 questions
 - 30 minutes
- **Helpful in further refining gaps in tools and services**
 - Tools submitted
 - HH, SSC and CRI
 - Coordination among service providers
- **Input on how to create effective Roadmap**

Preliminary Assertions

- **Need a comprehensive tool inventory**
 - Name, description and purpose of tool
 - What the tool can and cannot do
 - Who to contact for assistance in using tool
- **Few tools named in the economic and social domains**

Preliminary Assertions

- plenty of tools already
- need to know how to use existing tools
- need more information on interpreting results
- existing tools need finer resolution
- better inform funding agencies about the validity and reliability of tools

Preliminary Assertions

- **Roadmap**

- Needs to be a decision-based roadmap where user is walked through a series of questions (i.e. online income tax program)

- **Services**

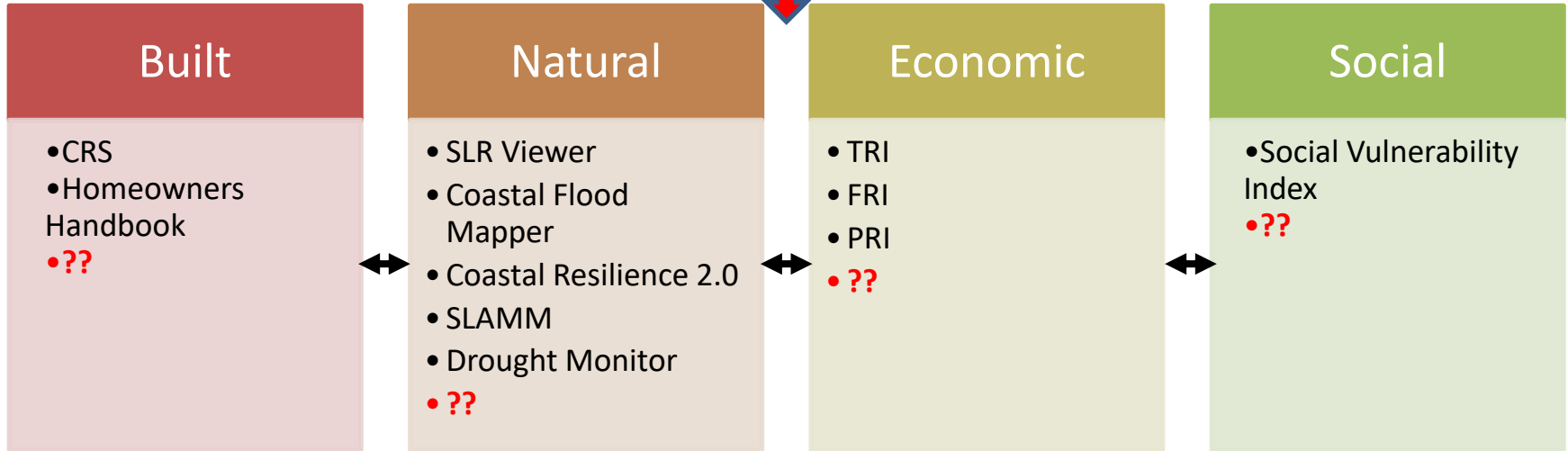
- A large number of service providers are used.
- Could be more in-reach among service providers to learn when to recommend the use tools from a different service provider

Roadmap: a schedule as part of a lengthy or complex program.

Resilience Roadmap

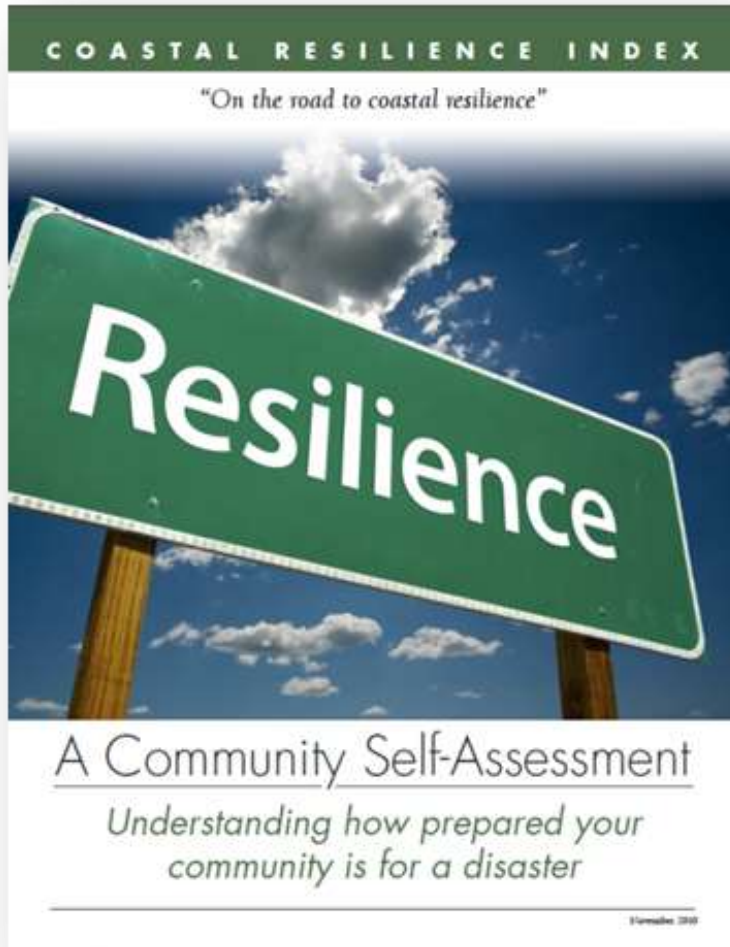
Coastal Community Resilience Index

Charm-like tool →



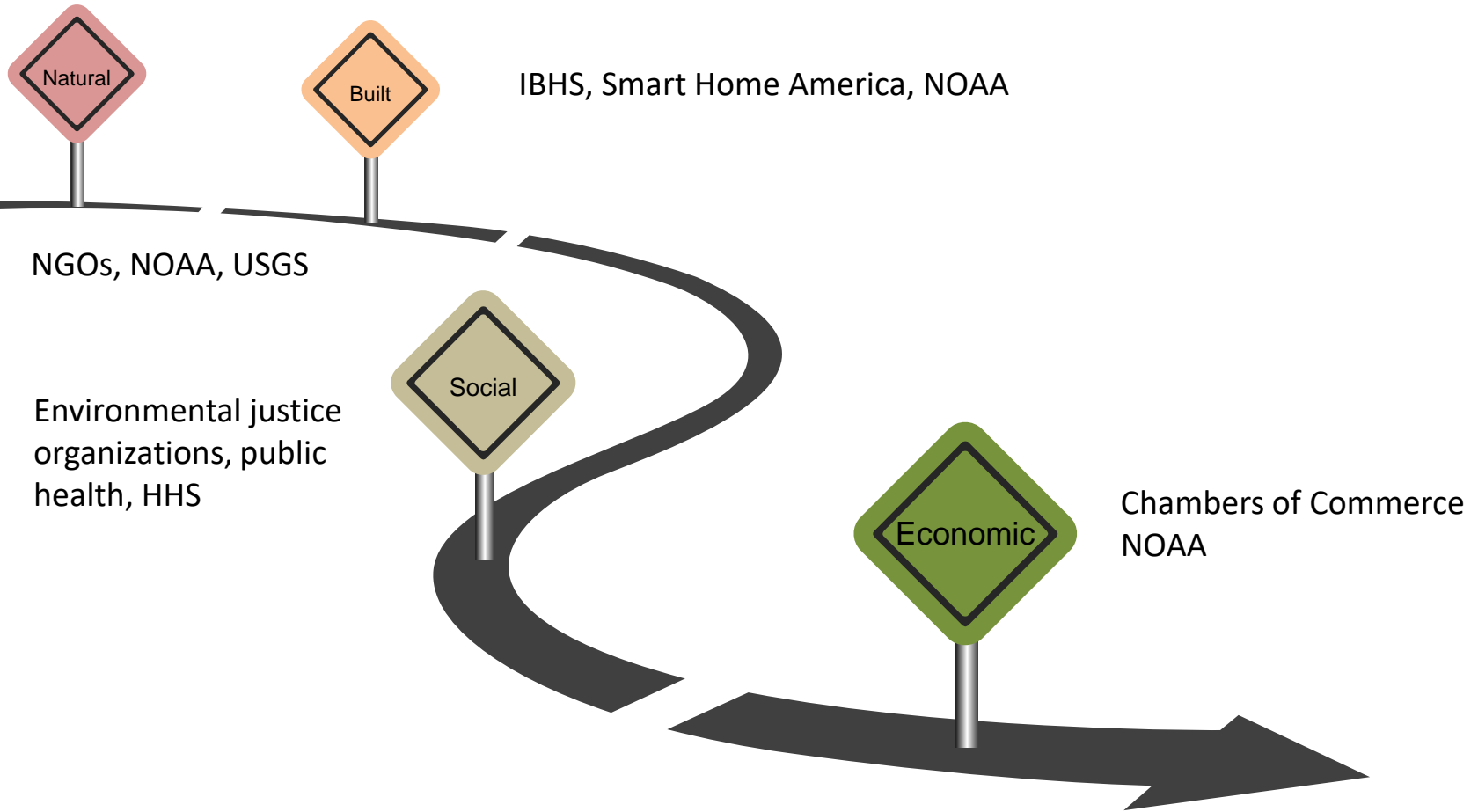
Coastal Community Resilience Index

Coastal Community Resilience Index



- Facilitated Process
- Uses information that is readily available
- Indicators
 - 6 categories
 - 57 indicators
- Tabular form
- Primarily Yes or No questions
- Complete in less than three hours

Services Roadmap



Thank You

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