

# Vulnerability and Capacity Assessment (VCA): An Integrated Approach for Local Stakeholders

Jonathan Shott

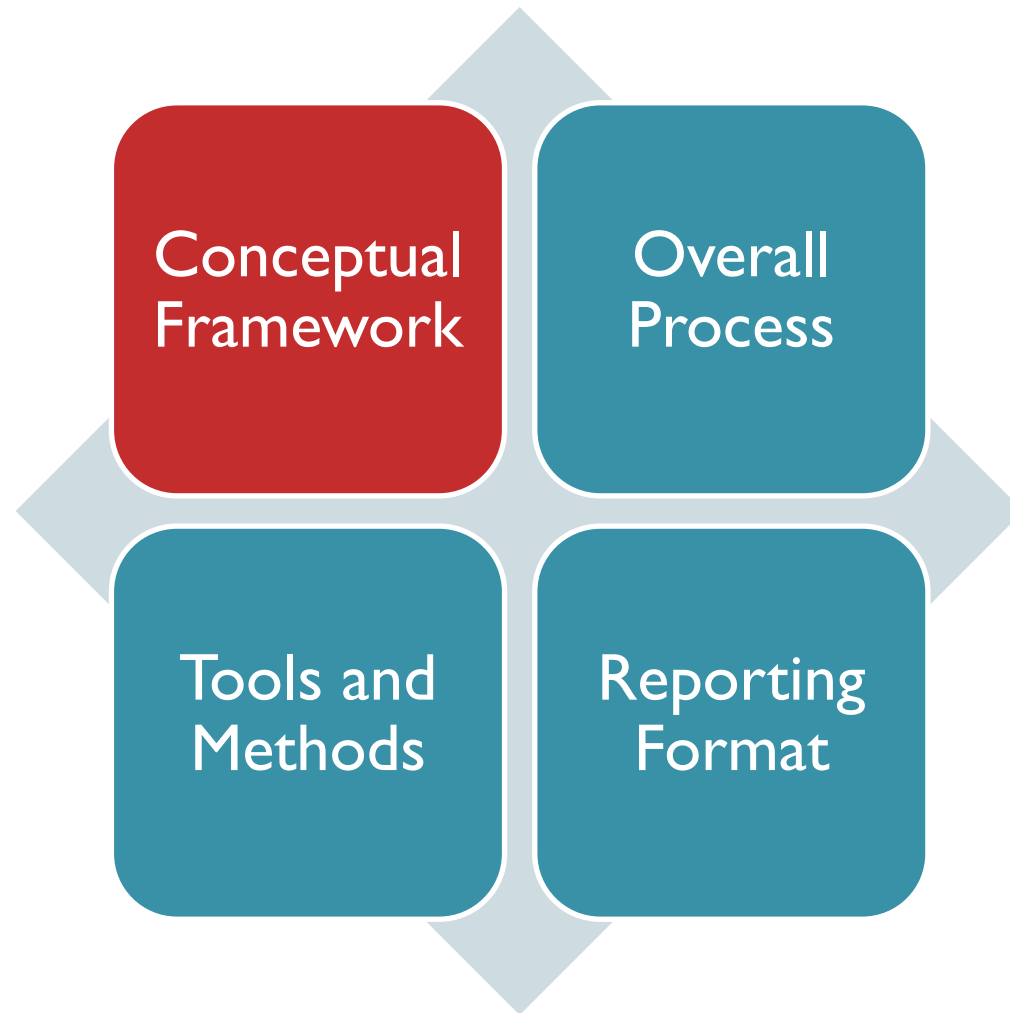
Project Manager and Disaster Management Consultant  
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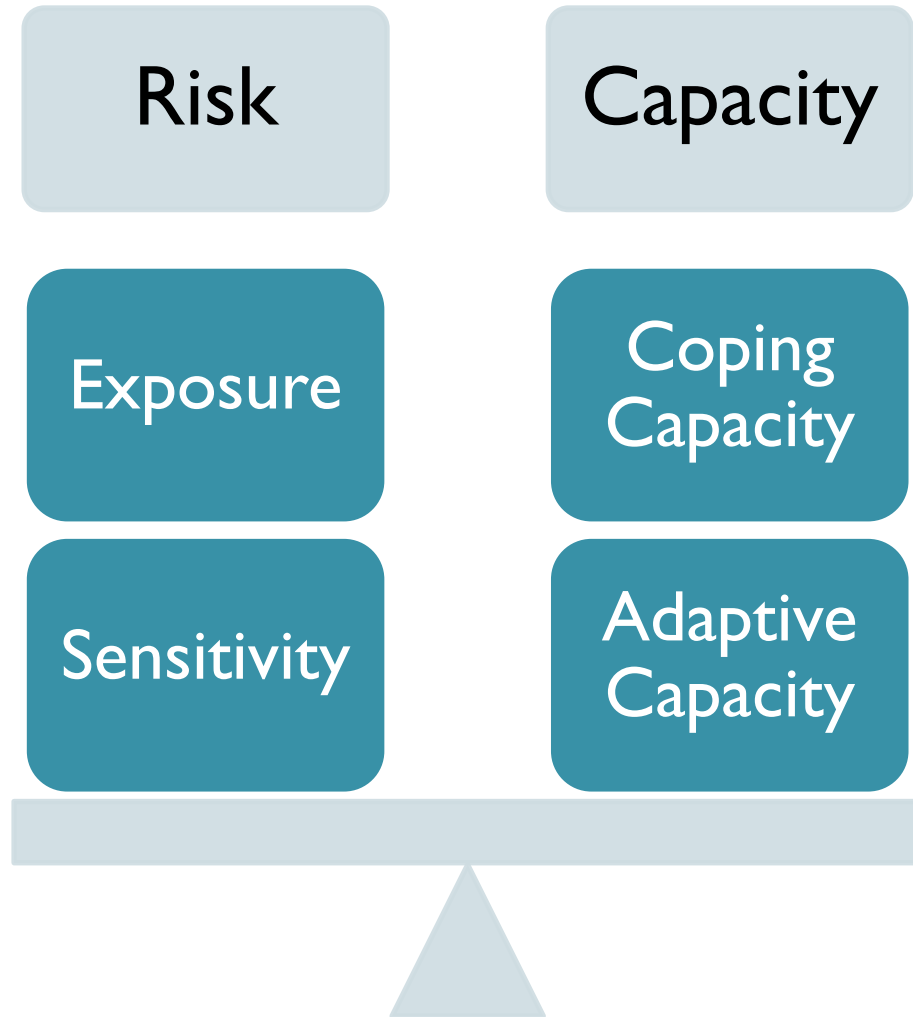
# What is VCA?



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# Components of Vulnerability and Capacity



# Vulnerability Analysis and Assessment

Exposure

Climate  
Factors

Non-climate  
Factors

Sensitivity

Ways-of-life  
and  
Livelihoods

Natural  
Resources and  
Ecosystems

Land Use,  
Infrastructure  
and Utilities

# Vulnerability Analysis and Assessment: Exposure

## Climate Factors

- Temperature and Seasons
- Rain
- Wind
- Surface of the Sea
- Body of the Sea
- Extreme Weather Events
- Natural Disasters

## Non-climate Factors

- Society and Culture
- Local Development
- Politics, Government and Administration
- Policy and Law
- Economies and Markets
- Science and Technology

# Vulnerability Analysis and Assessment: Sensitivity

## Ways-of-life and Livelihoods

- Ways-of-life
- Livelihoods
- Dependence Upon Natural Resources
- Income and Expenditure
- Debt
- Security
- Sustainability
- Diversity

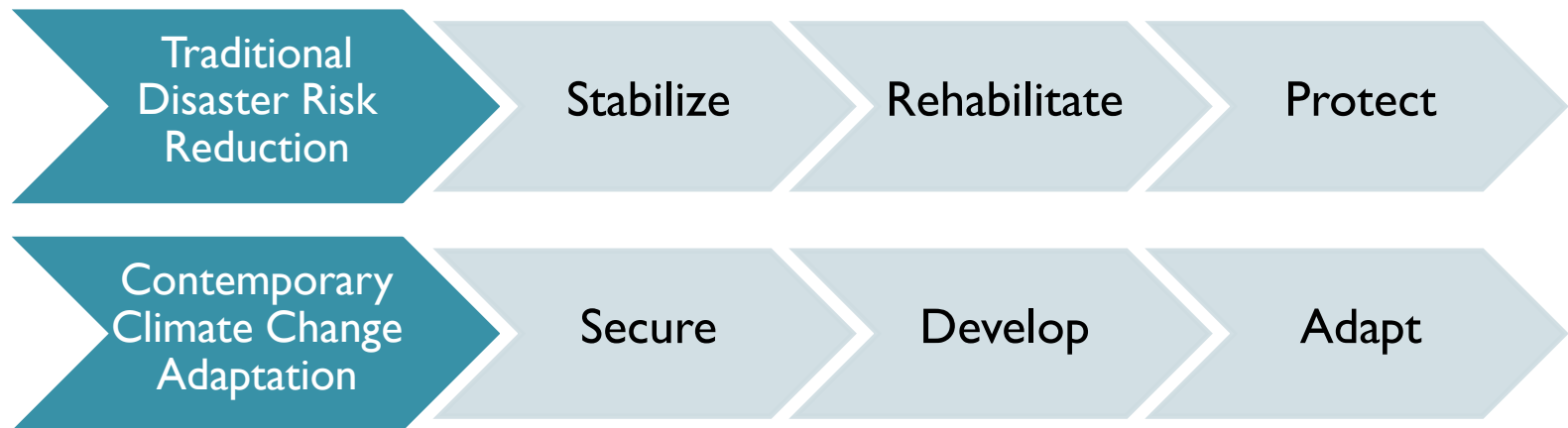
## Natural Resources and Ecosystems

- Plants
- Animals
- Habitats
- Ecosystems
- Degradation and Change
- Use
- Management
- Conservation
- Rehabilitation

## Land Use, Infrastructure and Utilities

- Land Use, Planning and Management
- Rights and Tenure
- Housing and Settlement
- Water and Electricity
- Wastewater Management and Garbage Disposal
- Transportation and Communication
- Schools, Clinics and Other Local Services

# From Coping Capacity Towards Adaptive Capacity





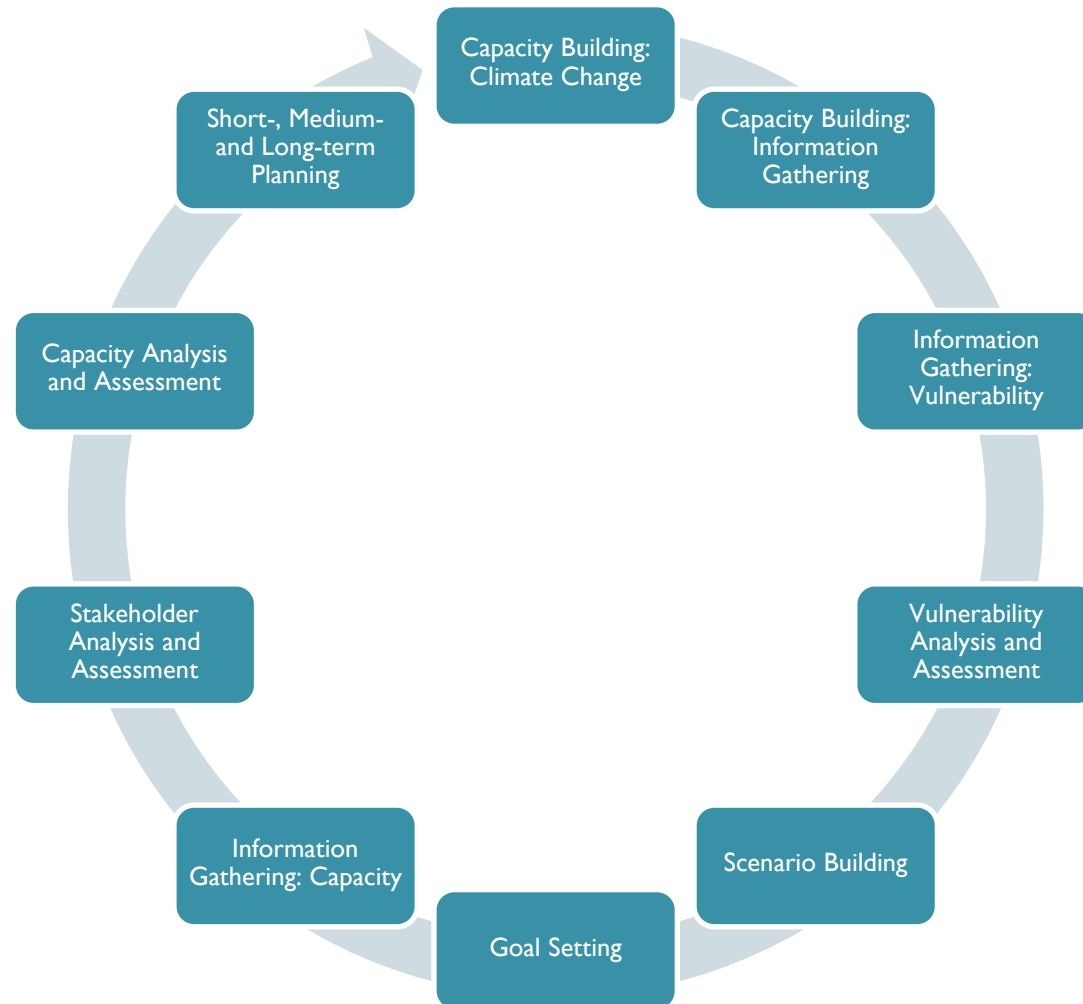
# From Risk Reduction to Climate Proofing



# What is VCA?



# Overall Process for Conducting VCA



# Capacity Building: Climate Change

## Climate Change Phenomenon

Characteristics

Causes

Impacts: Global and Local

Impacts: Immediate and Eventual

Climate Trends and Climate Variability

## Climate Change Adaptation

Responses: Mitigation, Adaptation and Geo-engineering

Definition

Coping Versus Adaptation

Characteristics

Types: Autonomous, Anticipatory and Mal- adaptation

# Capacity Building: Information Gathering

## Sourcing and Verifying

Sources of Information

Sampling and Strata

Key Informants and Focus Groups

## Questioning and Recording

Obtaining Details: '6W2H' Technique

Understanding Issues: 'So What?' Technique

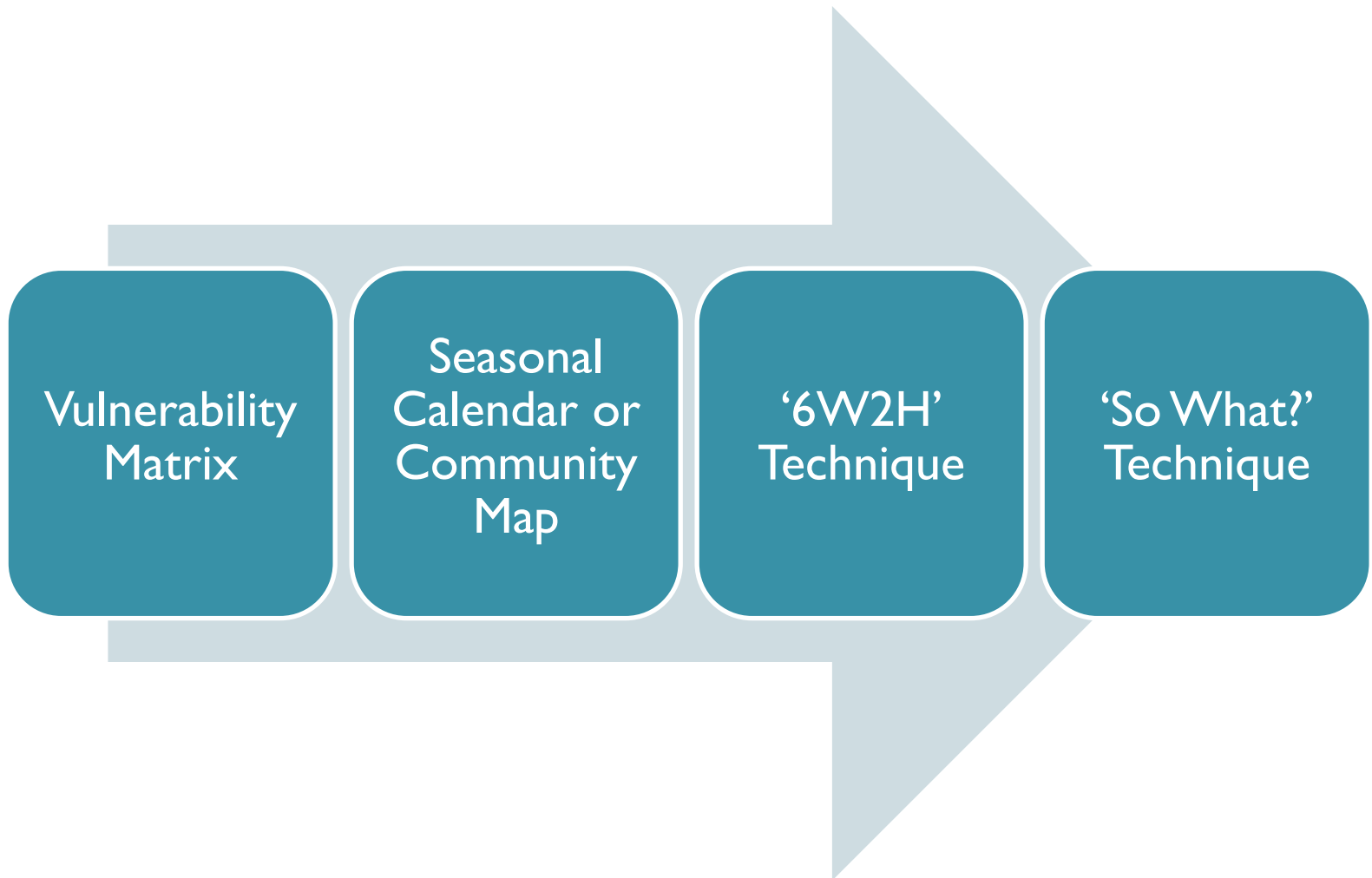
Open and Closed Questions

Qualitative and Quantitative Information

# What is VCA?



# Vulnerability Analysis and Assessment



# Vulnerability Analysis and Assessment: Vulnerability Matrix

	Exposure (Climate, Non-climate)					
Sensitivity (Livelihoods, Natural Resources, Land Use)	Priority	1.	2.	3.	4.	5.
	1.					
	2.					
	3.					
	4.					
	5.					



# Vulnerability Analysis and Assessment: '6W2H' Technique

Issue	What?	Who?	When?	Where?	Why?	Which?	How?	How Much?

# Capacity Analysis and Assessment: SWOT Analysis

Internal Strengths	Issue	Internal Weaknesses										
<b>Information, Knowledge and Understanding</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Skills and Capacities</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Individuals, Groups, Organizations and Agencies</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Financial Resources and Other Resources</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Policies, Plans and Processes</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Collaboration, Integration and Networking</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>	<div>Ways-of-life and Livelihoods</div> <table border="1"> <tr> <td>1 = Very Bad</td> <td>2 = Bad</td> <td>3 = Moderate</td> <td>4 = Good</td> <td>5 = Very Good</td> </tr> <tr> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> <td><input type="radio"/></td> </tr> </table> <div>Declining      Improving</div> <div><input type="radio"/>      <input type="radio"/></div>	1 = Very Bad	2 = Bad	3 = Moderate	4 = Good	5 = Very Good	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<b>Information, Knowledge and Understanding</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Skills and Capacities</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Individuals, Groups, Organizations and Agencies</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Financial Resources and Other Resources</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Policies, Plans and Processes</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul> <b>Collaboration, Integration and Networking</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>
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# Capacity Analysis and Assessment: SWOT Analysis

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# Capacity Analysis and Assessment: SWOT Analysis

External Opportunities	Suggestions and Recommendations	External Threats
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# What is VCA?



# Reporting Format: Documenting Vulnerability and Capacity Assessments

## Introduction

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Study Methods

Information Sources

## Background

General Background  
Information

Expected Future  
Change

Different Socio-  
economic Groups

# Reporting Format: Documenting Vulnerability and Capacity Assessments

## Analysis and Options

Vulnerability Analysis

Potential Adaptation  
Options

Capacity Analysis

## Way Forward

Overall Vulnerability and  
Capacity Assessment

Conclusions

Recommendations

# VCA in Action





# VCA in Action



# VCA in Action



# VCA in Action





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# VCA in Action



# VCA in Action











# Thank you.

Questions or comments are welcome.

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