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Facilitating Social Adaptation to Climate Change

by Understanding Some of the Common Causes of Vulnerability

for: the Swedish International Development Agency

Dr. Nadine Marshall



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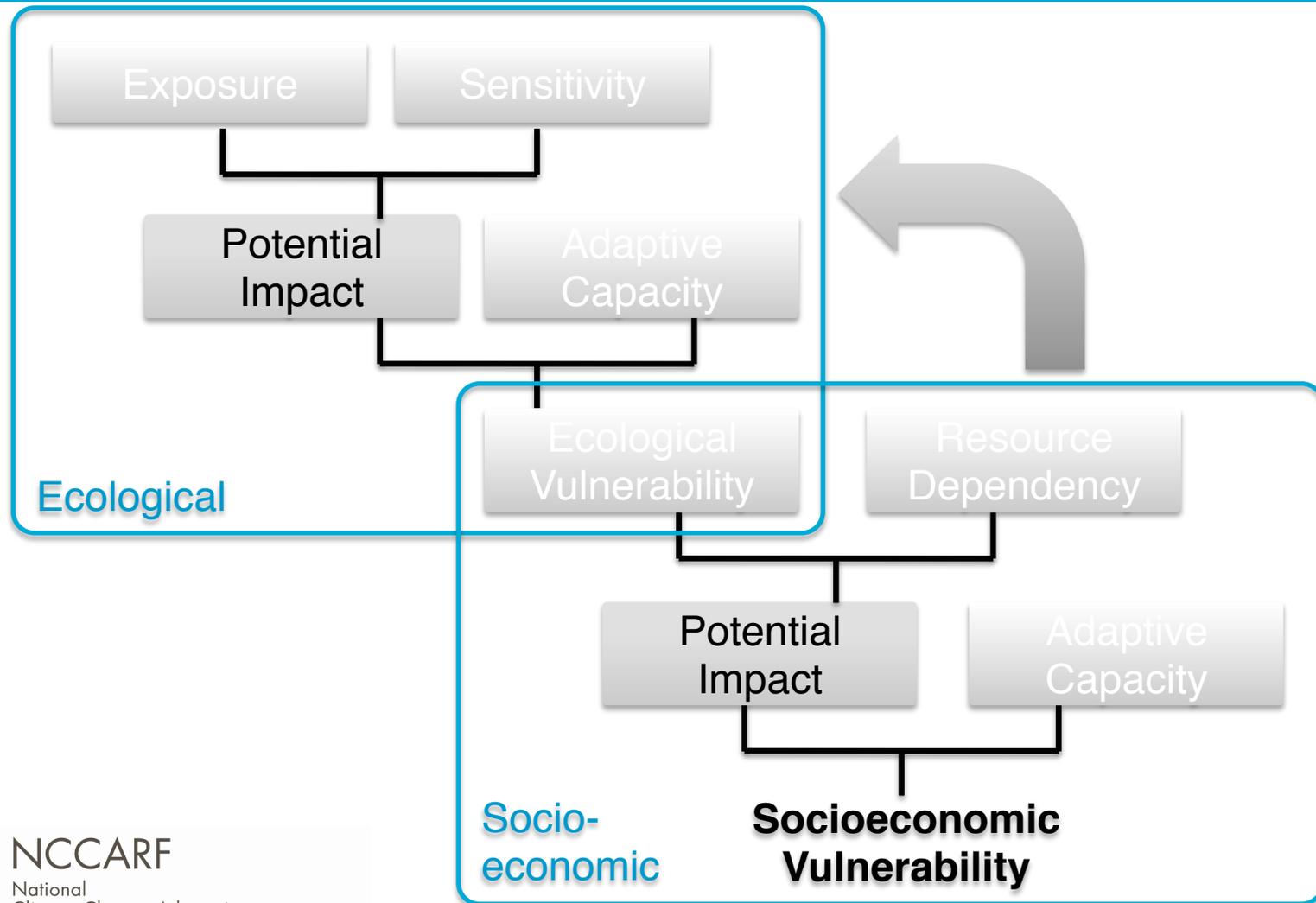
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How do we facilitate adaptation?



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Marshall et al. (2010). IUCN publication

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Measure Sensitivity

“Resource Dependency”



- Attachment to occupation
- Employability
- Place attachment
- Family characteristics
- Networks
- Business approach
- Business characteristics (\$)
- Local knowledge
- Environmental awareness



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Marshall et al. (*in press*) ‘Climatic
Change’

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Measure Adaptive Capacity

“Potential to Change”



- Risk & uncertainty
- Planning & reorganising
- Flexibility
- Interest in change



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Marshall and Marshall (2007) Ecology and Society
Marshall et al. (2010) Society and Natural Resources

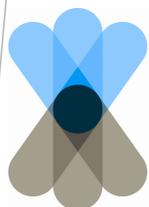
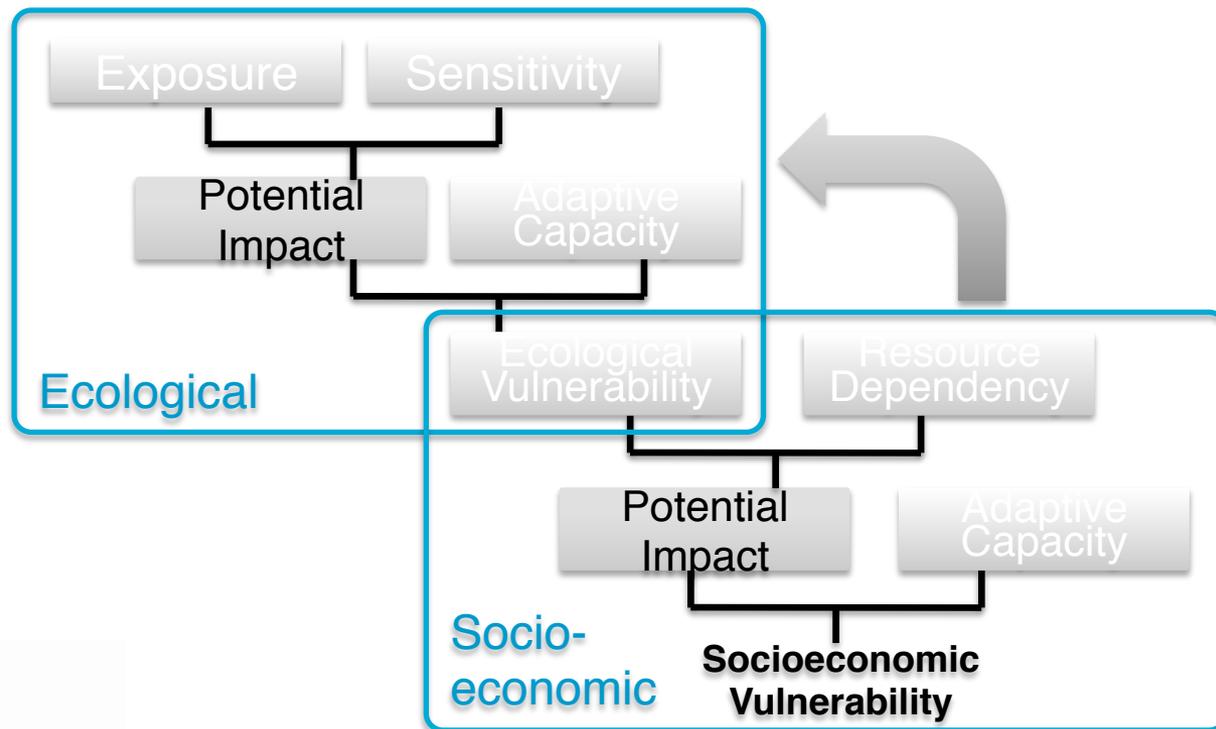
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Plan to facilitate adaptation

- Measure vulnerability and recognise HOW are people vulnerable
- Identify who will benefit the most from assistance



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Can capacity be influenced?

	Risk	Planning	Coping	Interest
Identity	*	*		
Place	*	**	*	**
Employability	**			
Dependents			*	
Size				
Approach	*	**		**
\$ Flexibility			*	*
Environment				**
Networks formal	*			
Networks informal		*		



How can adaptation be facilitated?

- Manage uncertainty
- Develop planning skills:
- Increase flexibility
- Create interest in the future



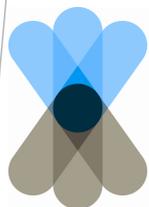
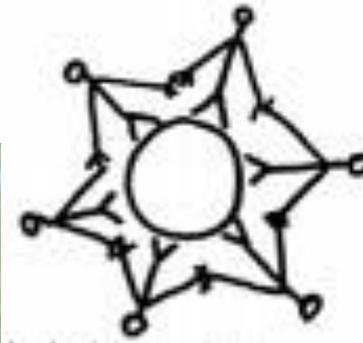
How can adaptation be facilitated?

- **Manage uncertainty**
 - Identify and support diverse and acceptable livelihood options
 - Support individuals to undertake 'risky' strategies
- **Develop planning skills:**
 - Support development of strategic skill sets (develop curricular?)
 - Encourage experimentation by offering financial incentives
 - Encourage learning by facilitating networks
- **Increase flexibility**
 - Provide financial incentives to experiment with options
 - Develop partnerships to share costs of change
- **Create interest in the future**
 - Reward early adopters
 - Monitor environmental changes and communicate to all
 - Encourage community dialogue about ways to adapt



Optimising Adaptation Outcomes

- Climate Change creates opportunities for sustainability
- Provides opportunities to identify:
 - How are people vulnerable?
 - Who needs most assistance?
 - Who will benefit the most?



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- CSIRO Social and Economic Sciences Programme
- Marine Biodiversity & Resources Research Network
- IUCN Global Marine Programme

Contact: Dr. Nadine Marshall

Email: nadine.marshall@csiro.au

Thank you



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