



Adaptation Planning for *Wicked Problems*

Experiences and challenges in translating data to information to actionable knowledge

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Overview

- Adaptation planning- who? for what?
- Why and how climate information matters for adaptation
- Barriers to the effective use of climate information in adaptation planning
- Some opportunities for the road ahead...

The value of the information produced will be measured by its ability to improve a decision

The Adaptation Concerns of policy makers are
STRATEGIC

How will climate change affect our 2020 goal of increasing agricultural productivity by 20%



The Adaptation Concerns of disaster managers are
TACTICAL

How will the distribution and impacts of disasters change with climate changes? Is my master plan sufficient to address these? What more can be done?

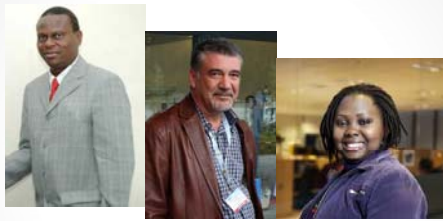


Adaptation Concerns of system managers are
OPERATIONAL

How will i need to change my operational water schedules to deal with these risks?



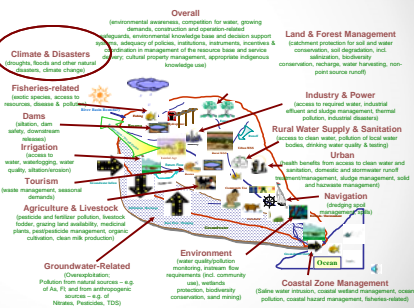
All of these questions have



- 1) A development objective and
 - 2) A climate context
- The answers require a careful consideration of the role of climate variability and change

a few words about 'Wicked' problems

- Difficult to define
- Many actors with conflicting values
- Whole system thinking
- Require flexible solutions

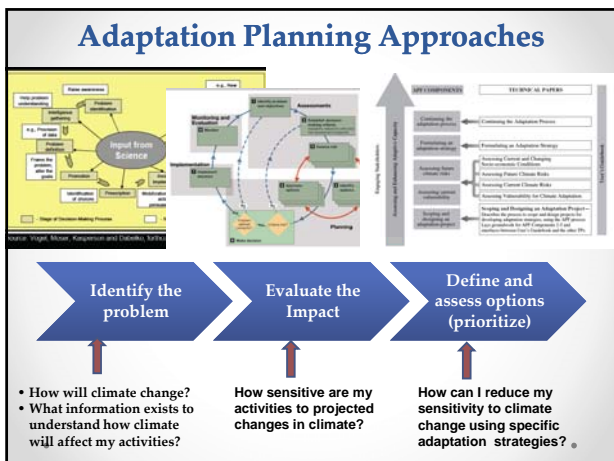


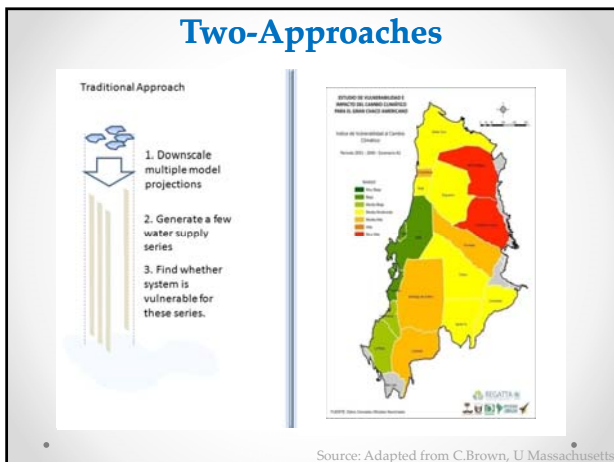
Adaptation Continuum

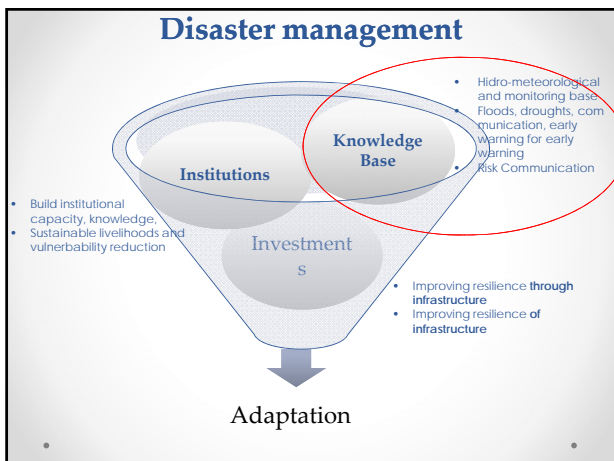


Address vulnerability	Build response capacity	Manage climate risks	Confront climate change
Analysis of climatic and other non-climatic stressors that make people vulnerable i.e. Baselines, PRA, SEA, EAs	Introduce technologies, robust systems and strengthen organisational approaches for Climate smart decisions i.e. EWS research, insurance monitoring	Implement sustainable mgt. practices -i.e water, crop, livestock, forest, rangeland, coastal, fisheries, energy, infrastructure	Mobilise/redirect resources and knowledge to deal with climate change i.e. advocacy, partnerships, policies

Adapted from McGray et al. 2011







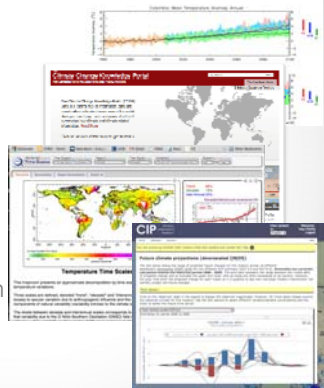
What *they* need to know..

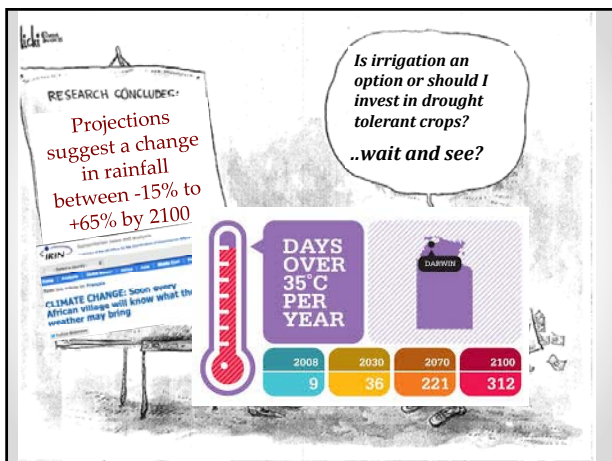
- **What** is already or changing or expected to change? [variable]
- **How** different is this change from our current experience?
- **Where** are the changes expected? [spatial scale]
- **When** are the changes expected? [temporal scale]
- **How** (un) sure are we about these changes? [confidence]

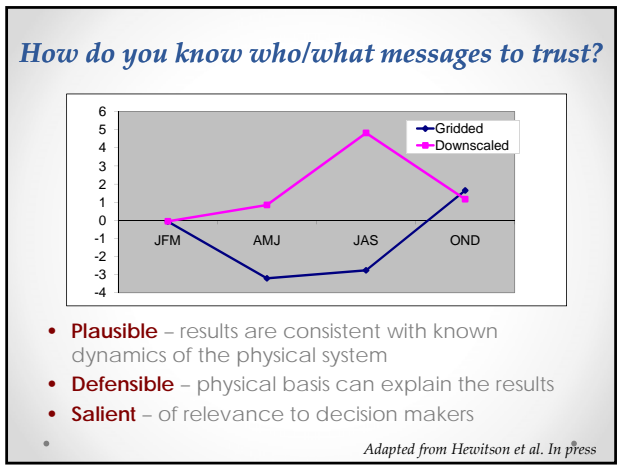
Adapted from LU 2009

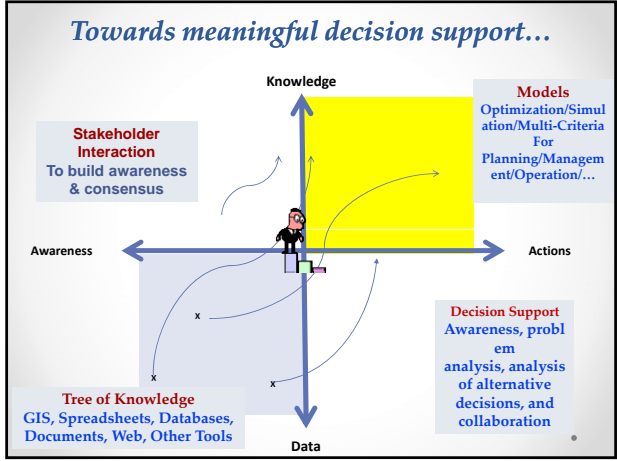
If you build it...they will come..

- Portal proliferation syndrome
 - Varying data
 - Methods
 - Spatial/temporal scales
 - Flexibility
 - Groups
- Model intercomparison project proliferation







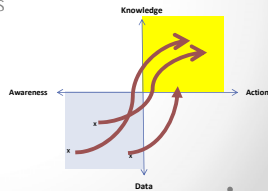


Desperately seeking signal..

- Baseline and historical variability; what is 'reality' to calibrate/validate?
- **Role Models**- What makes a projection/method of downscaling good for my place, decision/context?
- Finding the 'sweet spot' between interesting and **good enough to make a decision**
- I need to learn more..

Some suggestions for the way forward

- Building a **shared understanding** and setting expectations
- Defining and testing innovative, flexible approaches to **working across groups**
- Increase supply of translators



The Adaptation Concerns of CORDEX-LAC are

