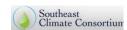


### Making sense of climate change adaptation

**Climate Adaptation National Research Flagship** 

Tim Lynam, CSIRO January 2012















### The Captain of the Concordia:

## Was a rascal and should have gone down with the ship?

OR

Did the very best he could under the circumstances?



### Outline

- Background to "sensemaking"
- Data collection and analysis processes
- Making sense of the survey
- Insights, blind spots and implications











### Sensemaking

- Reduce complexity and create order
- Orients us to the world and to action
- Gives rise to frames and framing
- Social and interactive process
- Precursor to action

Captain of the Concordia



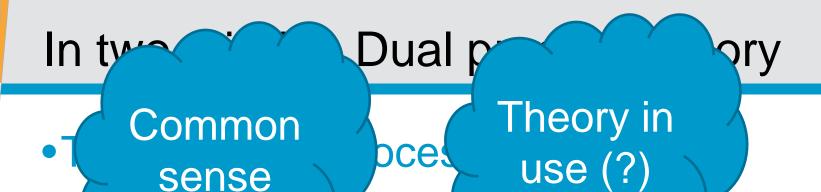












 One fast, frugal and subconscious to a high degree

Logical discourse

s, rational

man 2011 Thinking fast and slow

Espoused theory (?)



## Social change requires coordinated collective action

- Markets
- Regulations
- Beliefs / Culture



### Cynefin framework

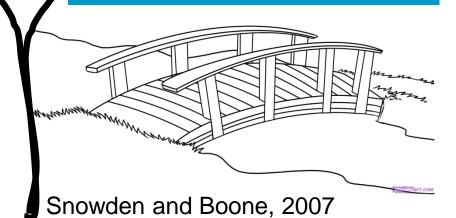
Requires a multiple perspectives approach



UNORDERED





















### The survey

 A familiar social setting (discussion in a lift)



Respondent role	Count	%
Scientist / Academic	182	20%
Government	258	28%
Public	351	38%
Other	137	15%
TOTAL	928	100%













### Instrument overview

1. Free listing	Word associations, social representations
2. Narrative setting	Narrative, what they said
3. Moderators	Respondent interpretation, meaning
4. General research questions	Associated relationships
5. Socio-demographics	Associated relationships













## The data – Level 1 Different perspectives

The speaker

Who?
Where?
What do they do?

Age Gender Location

What they said

Word association

Narrative

Deeply held beliefs Every day discourse

Their meaning

Emotion
Roles and players
Interpretations

How were you feeling?
What was important?
Who was doing it?



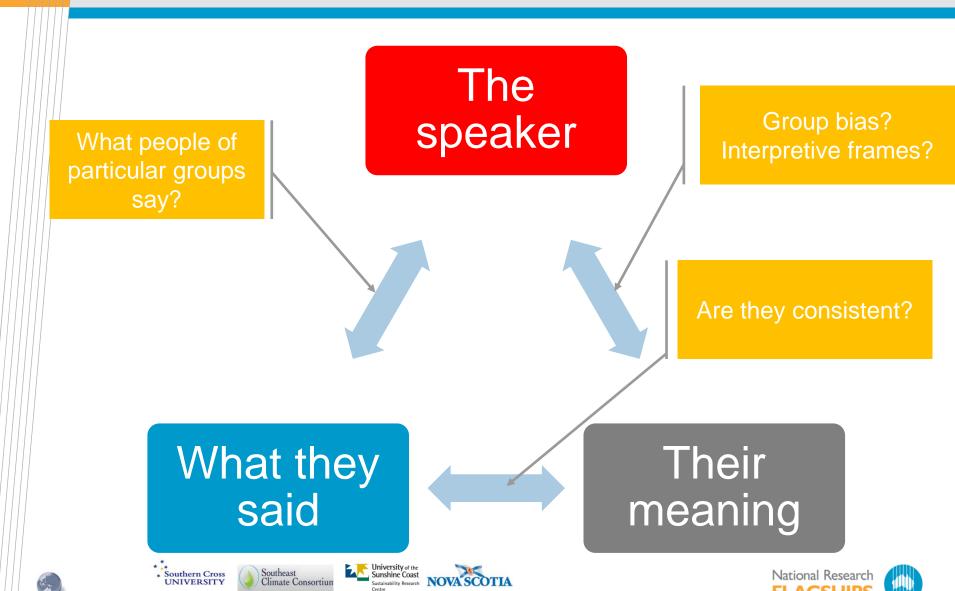








## The data – Level 2 Interactions



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### What they said

## The speaker









Their meaning













### Naïve analysis

## How people were defining and contextualizing climate change?

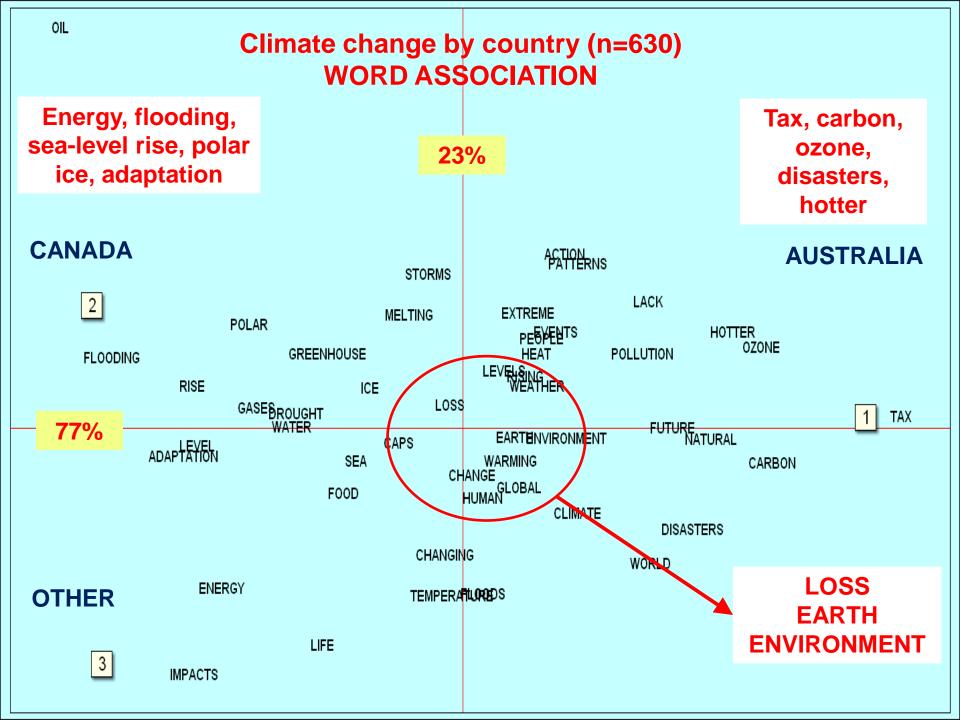


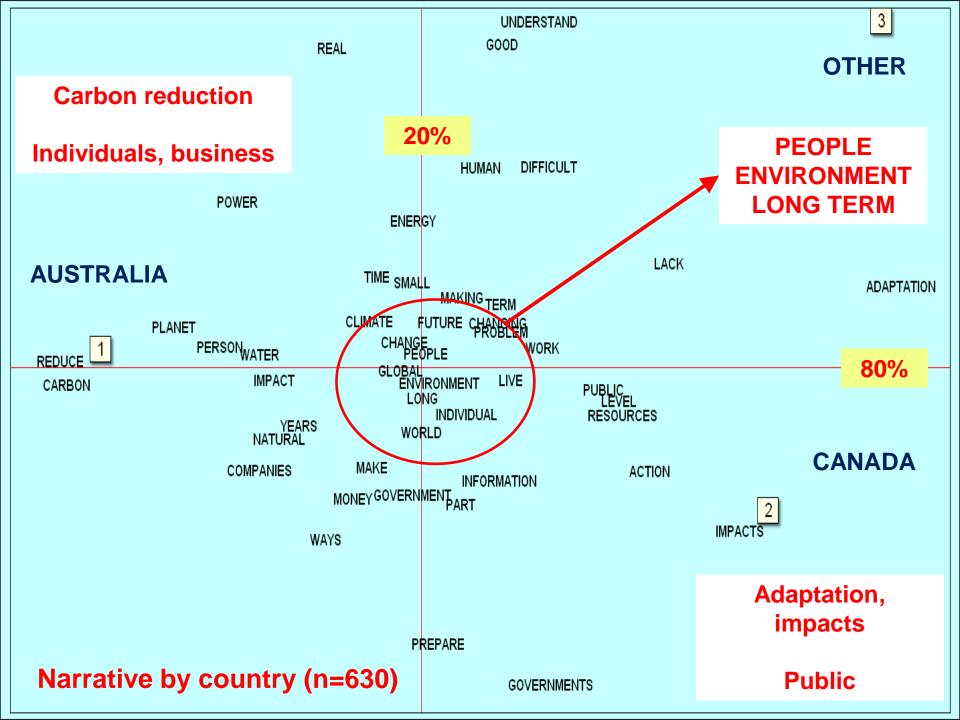


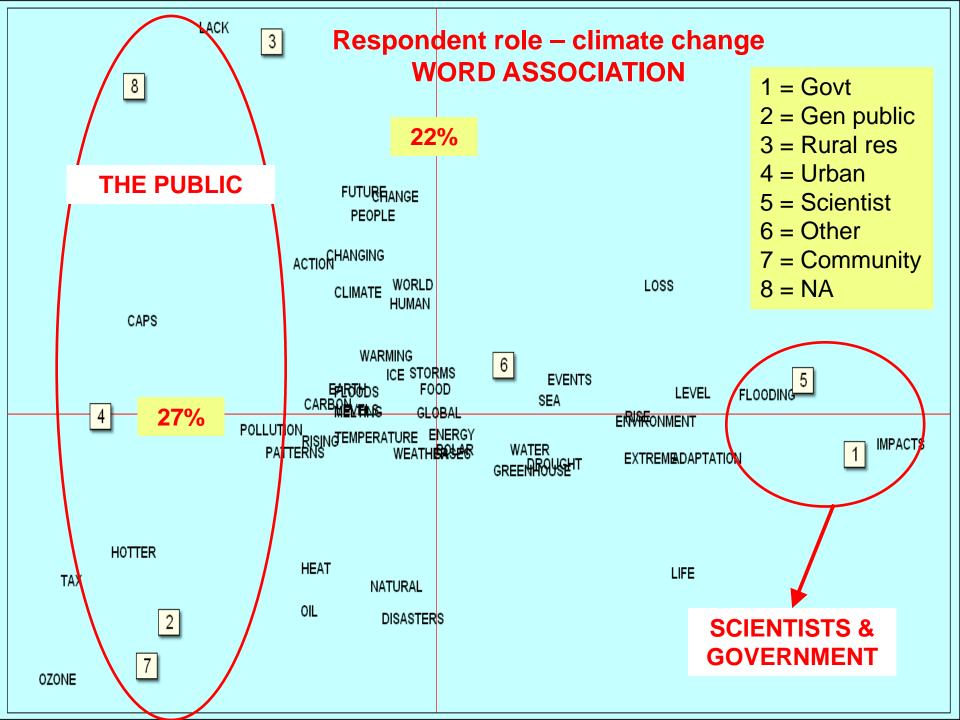












### Naïve analysis

What practitioners or the public think are the main barriers and enablers of climate adaptation?

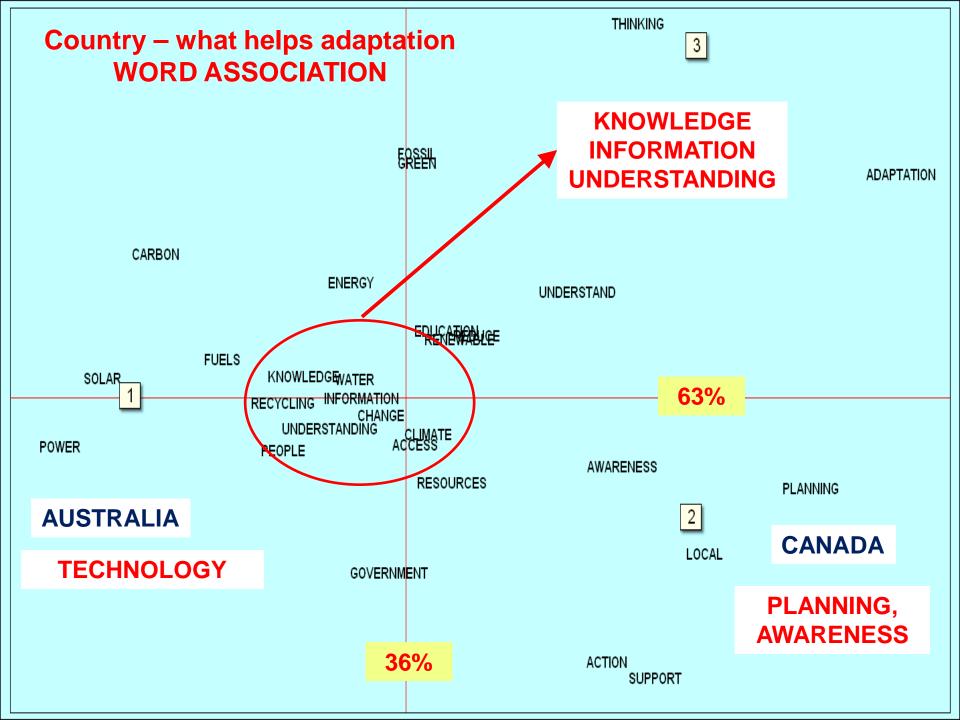


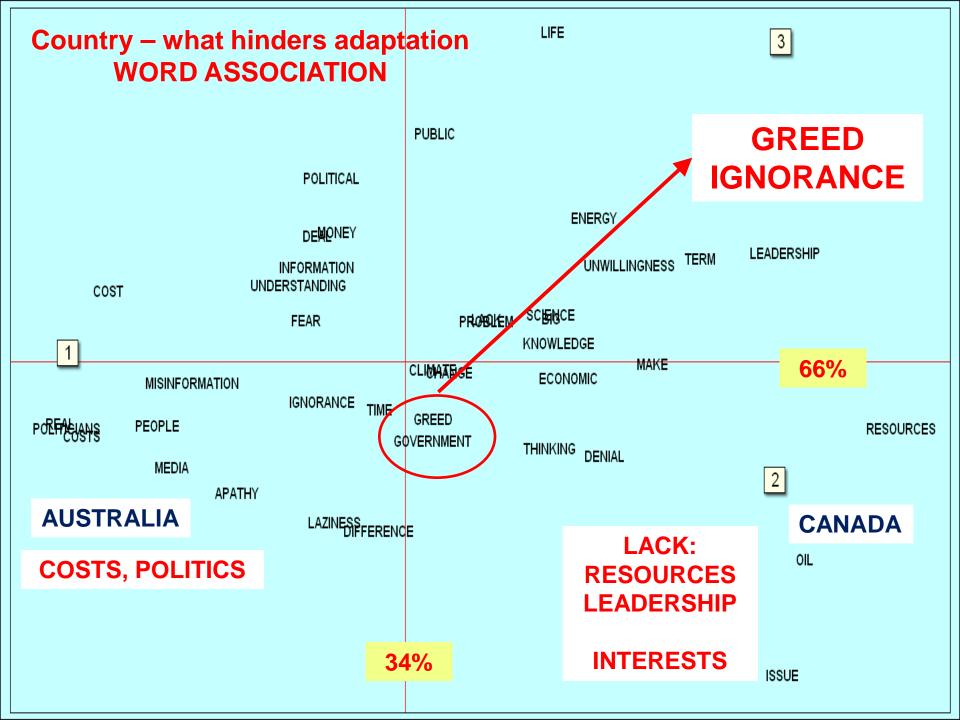


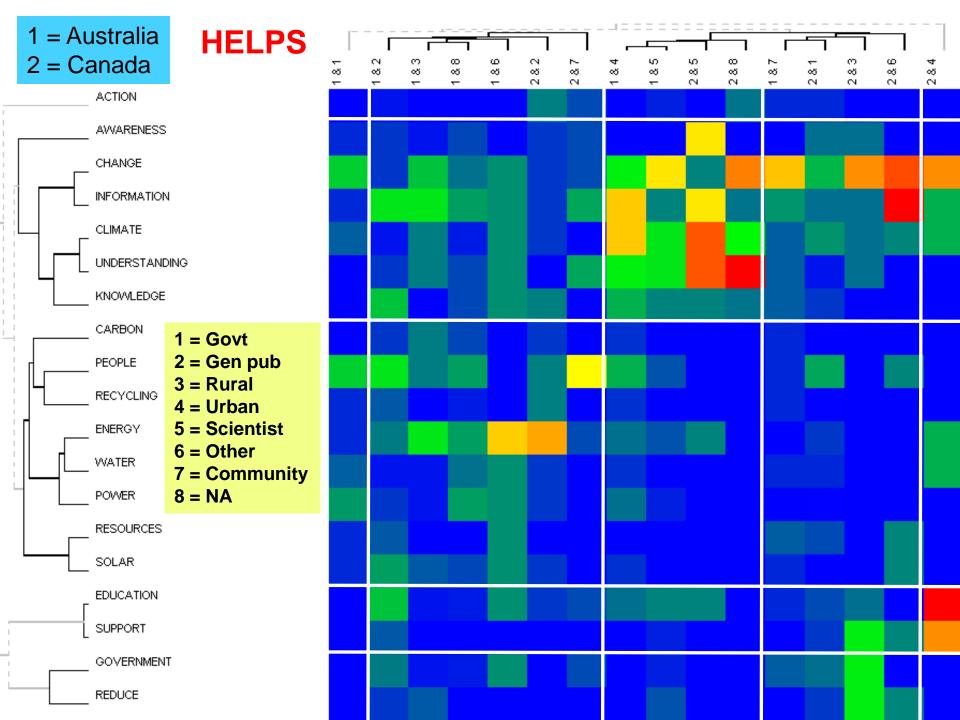














#### The data

The speaker





What they said



Their meaning













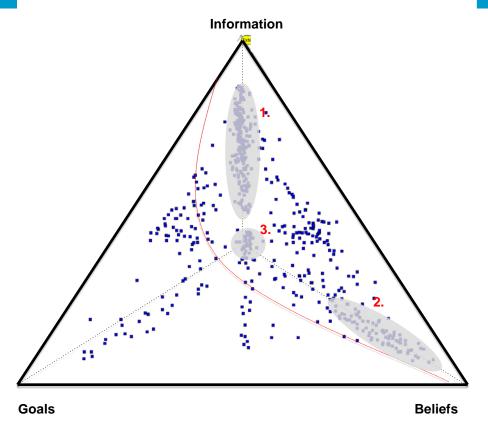
### Polarity impact dashboard



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### In your response to what extent did the following play a role



#### Clusters:

- 1 Information dominated
- 2 Beliefs dominated
- 3 All factors important

All respondents

n = 587

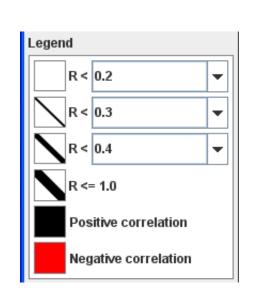


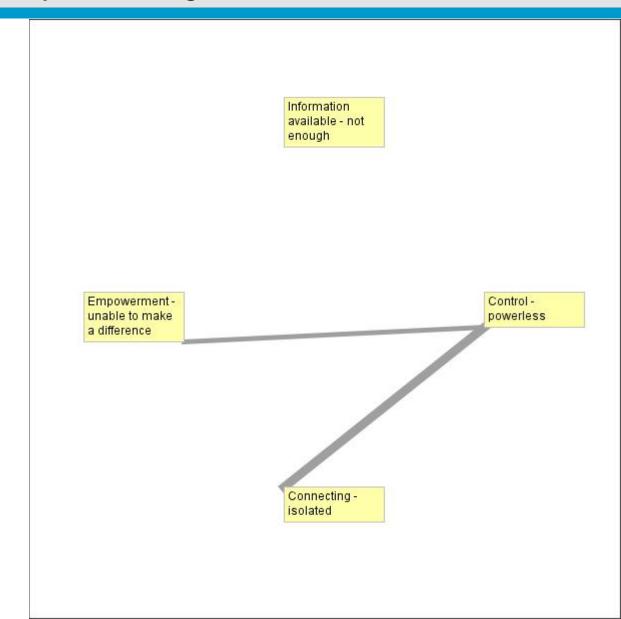




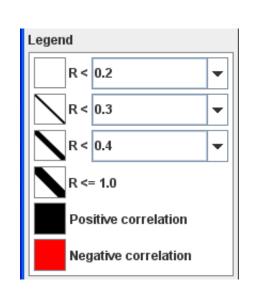


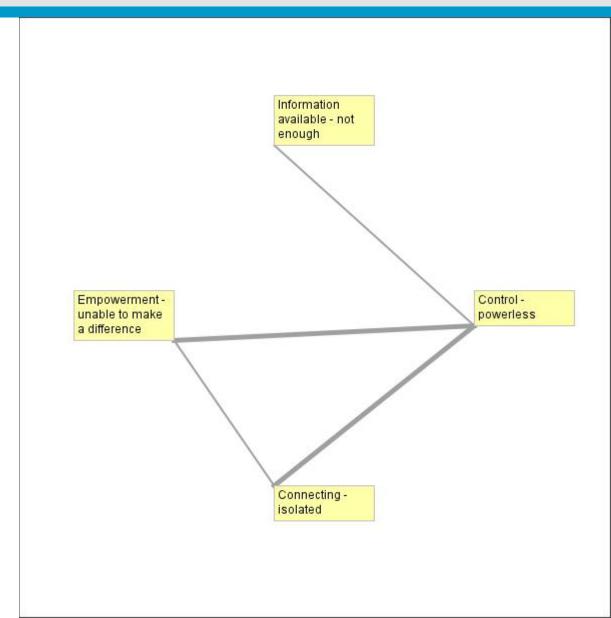
### Public getting ready for change



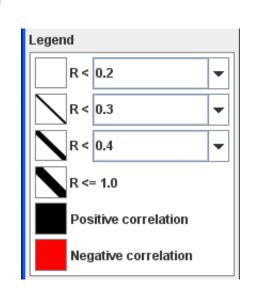


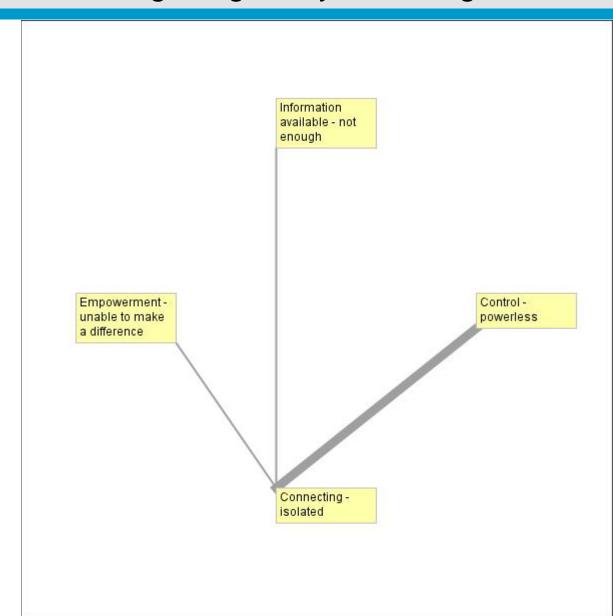
### Government - getting ready for change



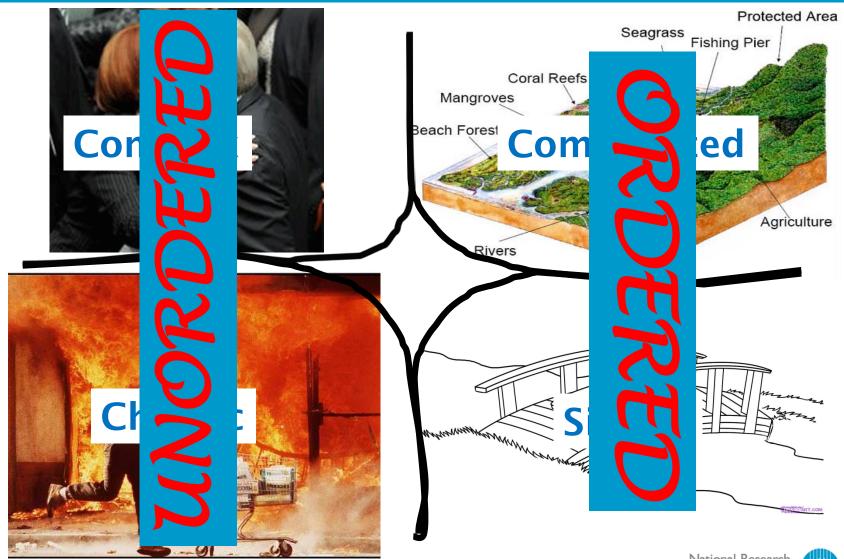


### Academics / researchers - getting ready for change



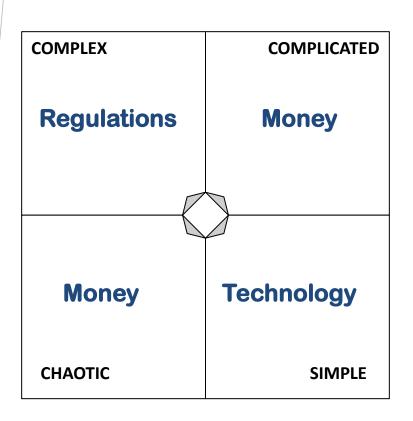


### Narratives coded to CYNEFIN





### What helped people to adapt?



Worldviews appear to orient people towards particular solutions.





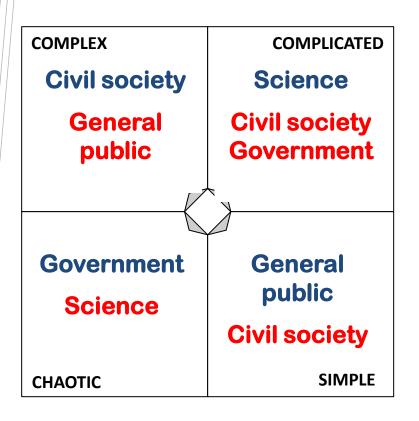








### Who features and who not?



Worldviews appear to orient people towards and away from particular social groups.





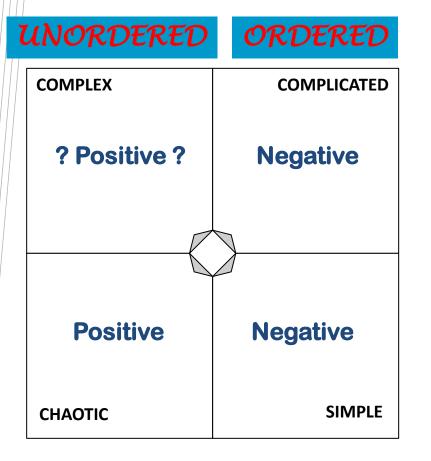








### What motivated them?



Ordered
worldviews were
associated with
negative
motivations,
unordered with
positive.





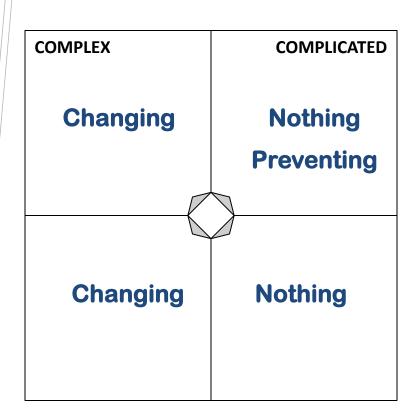








### What were they doing?



Worldviews
appear to orient
people towards
action or inaction.















### Multiple perspectives challenges:

- Greater uncertainty
  - Causal
  - Relationships
- Discomfort
  - Science
  - Policy
  - Vested interests
- Difficult leadership













### Multiple perspectives provides:

- Ability to identify groups
  - Experiences
  - Framing
  - Language
- Ability to communicate with these groups
  - Language
  - Framing
- Ability to detect weak or negative relationships
- Understanding of what motivates and inhibits action
- Ability to identify actions to improve likelihood of effective adaptation













### Multiple perspectives requires:

- Openness to
  - Alternative perspectives
  - The new and unexpected
- Willingness to suspend accepted conceptualisation
- Acceptance that tacit knowledge resides in peoples' lived experiences













### How we find meaning.....make sense...

















# Has great importance for how we act!

### Thank you

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