



Business Cooperative Research Centres Programme

2nd water sensitive cities conference

watersensitivecities.org.au

2015





Business Cooperative Research Centres Programme

Engaging communities in stormwater management

Project A2.3

Dr Angela Dean The University of Queensland

watersensitivecities.org.au



A2.3 Engaging communities in Water Sensitive Cities

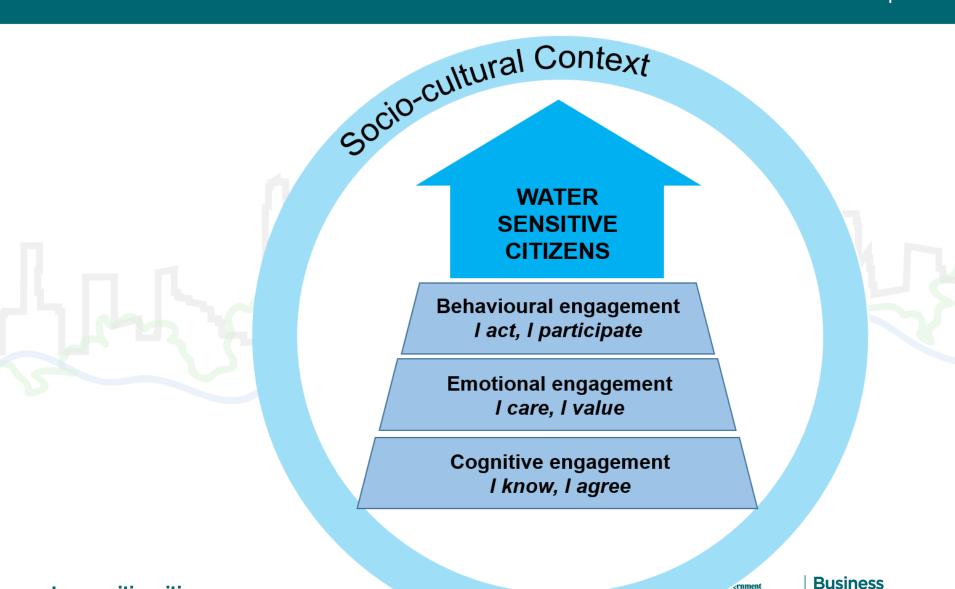
Engagement is 'a personal state of connection with an issue'



watersensitivecities.org.au







watersensitivecities.org.au

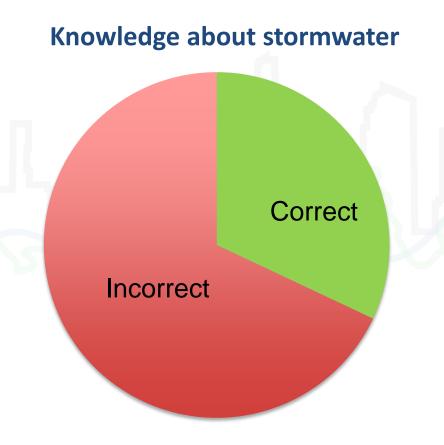
art of Industry and Science

Cooperative Research

Centres Programme



Knowledge about stormwater is poor



National survey: less than one third knew:

- Urban stormwater isn't treated before entering waterways
- Separate pipes carry domestic wastewater & stormwater





We wanted to explore this further...

- What do people think about stormwater?
- What factors promote or limit their engagement with stormwater issues?
 - Personal actions
 - Government actions





Focus groups

Explored perceptions of stormwater management

- Representative mix of ages, gender & income
- 40 participants in total

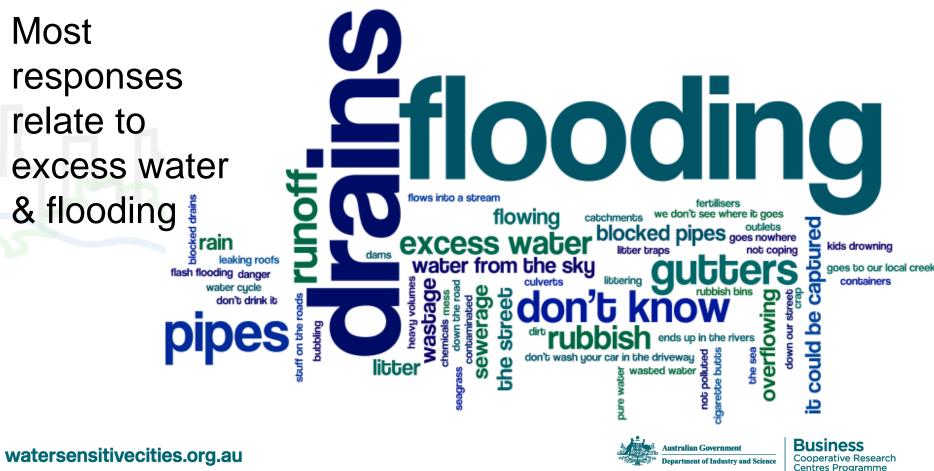


watersensitivecities.org.au



TITLE Speaker Topic

What comes to mind when you see the word 'stormwater'





Responding to information

We then provided information about stormwater

Discussion about definition and management options Concepts not difficult – people response well to information

Poor community understanding

"I didn't realise that stormwater washed all the rubbish out to sea, I thought it just cleaned everything up, you know, not that it did any harm"

watersensitivecities.org.au

Despite prompting, the conversation kept returning to 'visible' issues like litter Poor issue visibility

e don't see, to a large extent, here our stormwater goes"



Discussing personal actions

Unprompted

Limited capacity to identify behaviours

Most responses ~ **physical litter** or **water saving**

Prompted

"Oh, that's common sense"

"good advice"

Barriers?

Not thinking soil is a pollutant

"I wouldn't think of planting trees... that wouldn't spring to mind"

Personal relevance

"For me, that's a bit tricky to relate to because I live in a small apartment"



Discussing water sensitiv

Unprompted

Very limited capacity to identify any management practices Assumed local govts would be investing in expensive filtration technology

Prompted

Curiosity: effectiveness Relevance: will it affect my property or rates? Positive: aesthetics



Raingardens in par water and filt pollutant

Barriers? Poor Awareness

"It sounds great, but we don't know what it is" "Does it really have a benefit? **It seems too** simple"

Poor Visibility

"you can see the things we want councils to do, ... this has got nothing, no function you can see"



Need to show impact

Nature of the problem

"show people how much rubbish builds up..."

"I would be interested to see the stats, what chemicals are going into the environment ... to explain what's happening..." "Show us the difference we can make"

"explain why you're asking me to do this... we want to know the impact"

"I don't think it would hurt to have some signage, saying this is what we're doing and this is what it does"

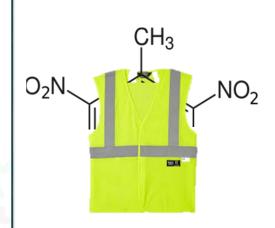
What type of impacts are more motivating? Safety & family recreation Pleasant local places Turtles & dolphins



Tips for engaging communities

When people think about stormwater, pollution is not top of mind.

We need to be explicit about discussing pollution



People focus on pollution they can see.

We need to build visibility of the issue *and* effective responses



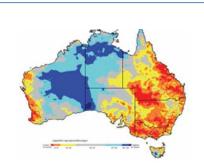
Stormwater perceived as not relevant. Motivating factors: -Safety -Recreation - Pleasant local spaces - Iconic megafauna



Consider water shortages...

How to build support for stormwater action?

watersensitivecities.org.



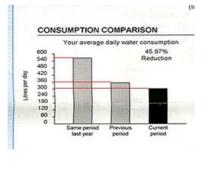
We communicate urgency & need for action



tralia

artm





We provide feedback



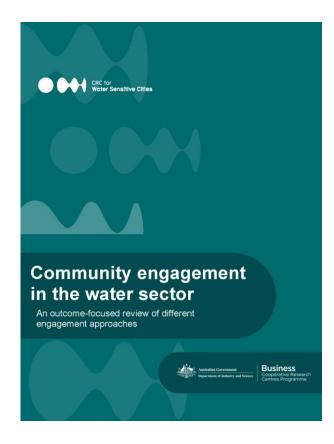
We activate social norms



Where to next?

Methods of engagement

- Review:
 - Effectiveness of different engagement techniques









Where to next?

Methods of engagement

- Review:
 - Effectiveness of different engagement techniques

What messages are most engaging?

- Role of images
- Experimental studies:
 - Message framing









Where to next?

Methods of engagement

- Review:
 - Effectiveness of different engagement techniques

What messages are most engaging?

- Role of images
- Experimental studies:
 - Message framing

Building support for policy

- Role of
 - participation process
 - jargon
 - trust





A2.3 Engaging communities with Water Sensitive Cities



THE UNIVERSITY OF QUEENSLAND AUSTRALIA

- Dr Angela Dean
- Dr Kelly Fielding
- Professor Helen Ross
- Tracy Schultz PhD student



Dr Fiona Newton



