

BURNETT RIVER FLOODPLAIN ACTION PLAN

COMMUNITY REFERENCE GROUP MEETING

TUESDAY 8 OCTOBER 2013 – 4PM

COMMITTEE ROOM, BUNDABERG MAIN ADMINISTRATION OFFICE, 190 BOURBONG STREET,

BUNDABERG

AGENDA

RSVP Robyn Lainq

Tuesday, 8 October 2013- 9am

Robyn.lainq@bundaberg.qld.gov.au

A) Apologies:

B) Confirmation of Minutes:

C) Report on Community Consultation Process

Council's part in the collection of flood submissions concludes on 4 October 2013. Flood consultants, GHD will prepare all flood submissions received by Council at close of business on 4 October 2013. This report will not be received by Council until 8 October 2013 and will be made available at the Meeting.

The CRG may include an Addendum to this Report outlining additional flood resilience options for analysing with the MCA tool.

D) Multi-Criteria Analysis Assessment - MCA

GHD flood consultants will submit the MCA to Council by the end of this week and it will be distributed by separate email on 4 October 2013.

E) Other Matters raised by CRG Members:

F) Next Meeting Date:

Burnett River Floodplain Risk Management Study

Draft Multi Criteria Assessment Framework

INSTRUCTIONS:

- 1 Review the preliminary suggested criteria under each category below. The floodplain risk management options will be assess against each of these criteria as part of the MCA.
- 2 Add to or modify the list of criteria for each option. The list of criteria should be kept short and concise, and should readily allow for high-level assessment during the MCA (e.g. detailed costings won't be prepared for each option at this stage, but a high-level assessment of the relative costs can be undertaken quickly.)

Item	Economic Aspects
A	Overall cost-benefit
B	Cost of implementation
C	Cost of maintainance / upkeep
D	Inundation of agriculture land
E	Impact on local business / commercial land
F	Impact on residential properties
G	Impact on municipal infrastructure / utilities (roads, drainage, electricity, treatment plants, etc.)
H	
I	
J	

Item	Social Aspects
A	Communication / notification during a flood event
B	Flood warning time
C	Frequency and duration of flooding or isolation
D	General amenity
E	Visual amenity
F	Cultural heritage
G	Impact on community infrastructure (parks, public places, etc.)
H	
I	
J	

Item	Environmental Aspects
A	Impact on terrestrial environment (flora / fauna)
B	Impact on marine environment (flora / fauna)
C	Difficulty of environmental approvals
D	Impact on river stability / sedimentation
E	
F	
G	
H	
I	
J	

Burnett River Floodplain Action Plan Consultation findings summary



GHD

Compiled by Brooke Maki

**Principal Consultant, Communication
and Stakeholder Engagement**

8 October 2013

Why undertake a structured communication and public consultation program?

To help support the project goal:

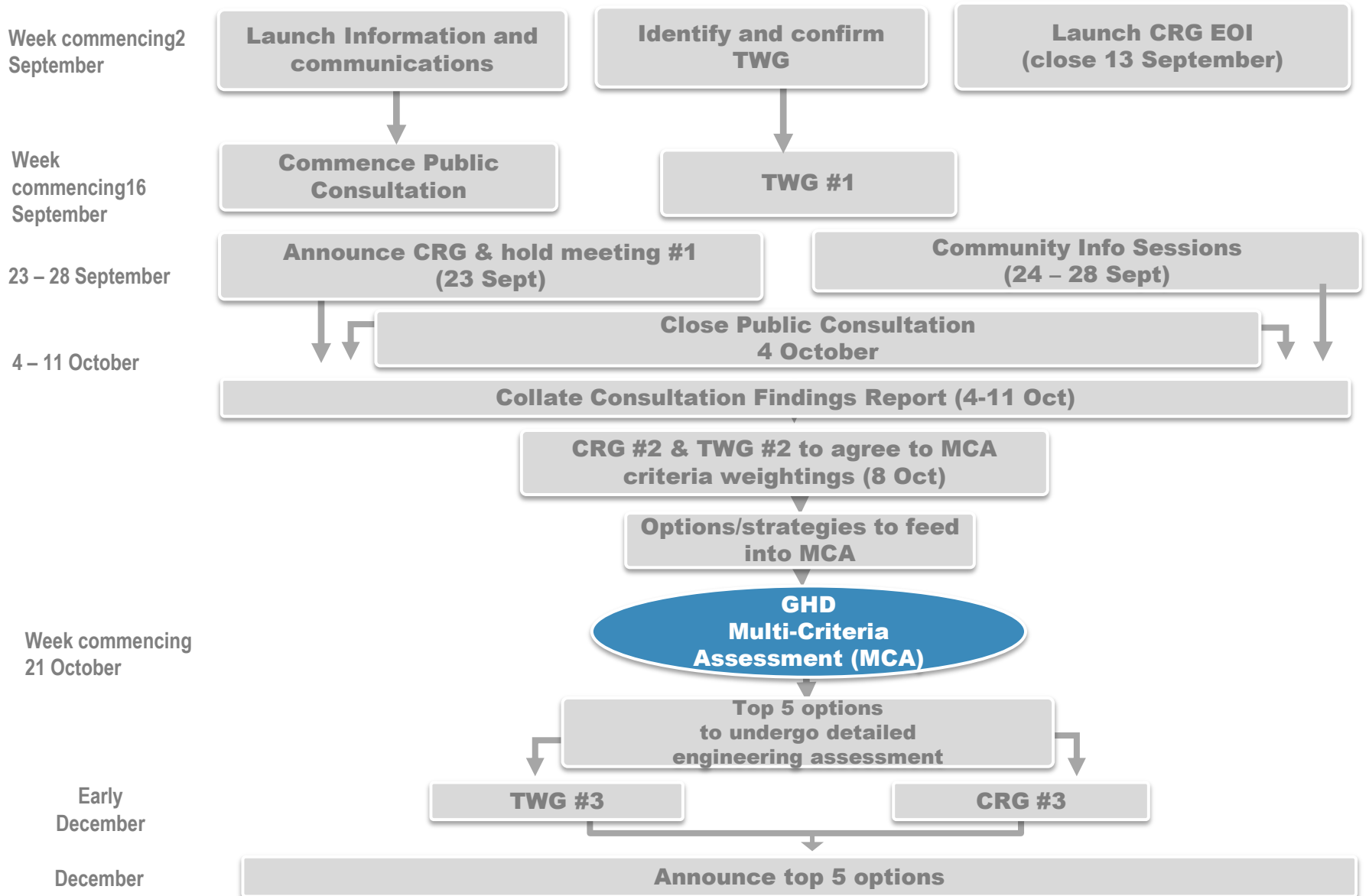
To identify and assess a set of preferred floodplain risk management options that build flood resilience, foster community preparedness, and ultimately save lives.

To achieve the following objectives:

1. Engage directly impacted individuals to build trust, confidence in the process and progress
2. Motivate and inspire community-wide participation to better understand their preferences and opinions
3. Build community-wide awareness of the various floodplain resilience options/measures
4. Clearly and widely communicate the top five options



Consultation timeline



Lead-up activities – to gain interest and awareness

Comprehensive communication, public consultation, stakeholder engagement leading to:

- CRG expressions of interest sought and confirmed
- Media interviews on ABC Wide Bay, 4BU and Seven
- BRC website content updates – prominent location
- Dedicated email floods@bundaberg.qld.gov.au
- Stakeholder briefings and presentations
- Advertisements in 3 local papers to promote CRG and Info Sessions
- E-update to over 10,000+ individuals and organisations to encourage participation
- Speaking role at TAFE on 22 August
- Info Session Posters across community touch-points
- Facebook posts and Tweets reaching 4,000+ people
- Factsheets x 3
- YouTube videos and animations

BUNDABERG REGIONAL COUNCIL

DISCOVER OUR SPIRIT

September 26, 2013

**COMMUNITY INFO SESSION
GATHER RESILIENCE OPTIONS**

Bundaberg Regional Council's Burnett River Floodplain Action Plan community information sessions, aimed at updating the community on the ongoing work to help build flood resilience across the region, are underway and have proven to be an effective way to gauge opinions on resilience options.

Mayor Cr Mal Forman said so far, Council staff and Community Reference Group (CRG) members had received valuable feedback at the information sessions which had been well attended.

"Overwhelmingly the response has been positive," Cr Forman said.

"Staff and the CRG are collating public submissions on mitigation options and everyone's suggestions will be considered."

He said it was important that residents had a forum in which they could voice their opinion however he said the CRG, a body completely independent from Council, was the only group from which Council would accept submissions.

"The CRG is a group of residents that represent community members and every resident within the region is welcome to submit their flood resilience suggestions to that group.

"Council will not accept any submissions made by any other groups, as this ad hoc approach would undermine the work being undertaken by the CRG which is the appropriate avenue for the collection of data."

All media enquiries to:
Council's Corporate Communications Team
communications@bundaberg.qld.gov.au
1300 883 699

Cr Forman said the CRG could be contacted via email on floodplaincr@gmail.com.

All media comment about the CRG should be directed to chairman Rowan Bond on 0408 286 483.

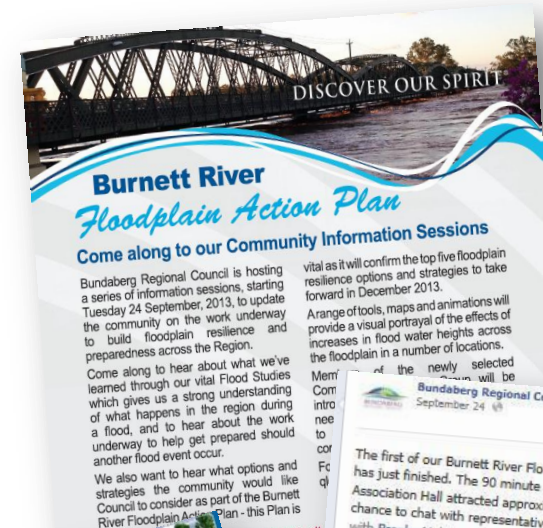
facebook | twitter | YouTube | www.bundaberg.qld.gov.au

Connect with Council

Ideas and feedback collection

There were four main ways people could get involved:

1. Email your ideas (been receiving feedback and community correspondence since January)
2. Come along to an Info Session
3. Talk to your CRG member
4. Complete a Community Questionnaire



Community information sessions

- 280+ attendees across 10 Community Information Sessions at six locations
- Format included:
 - Outcomes of 2013 flood study
 - Overview of action plan process
 - Info on how to get involved
 - Six display stations and staff, counsellors
 - Opportunity for detailed one-on-one chats with Council and GHD technical leads
 - Attended by Councillors and Mayor Forman



Dredge the river in strategic places

Put flood gates in Paradise Dam.
Destroy the Burnett River barrage.
Dredge the river

Advise residents of levels taken of their property

Need an early warning system so we can evacuate over the bridge ASAP.



Community information sessions locations and #'s

Location	Sessions dates	Attendees (approximate)
<i>North Bundaberg Progress Hall</i>	Tuesday, 24 September x 3	120
	Wednesday, 25 September x 1	55
<i>East State School Hall</i>	Wednesday, 25 September x 2	60
<i>St George Hall, near South Kolan School</i>	Thursday, 26 September x 1	20
<i>Wallaville Hall</i>	Friday, 27 September x 1	10
<i>Avoca State School Hall</i>	Saturday, 28 September x 1	10
<i>Goodnight Scrub</i>	Wednesday, 2 October x 1	6
		Total = 280+

24-25 Sept: North Bundaberg
Progress Hall









EXIT

EXIT

EXIT

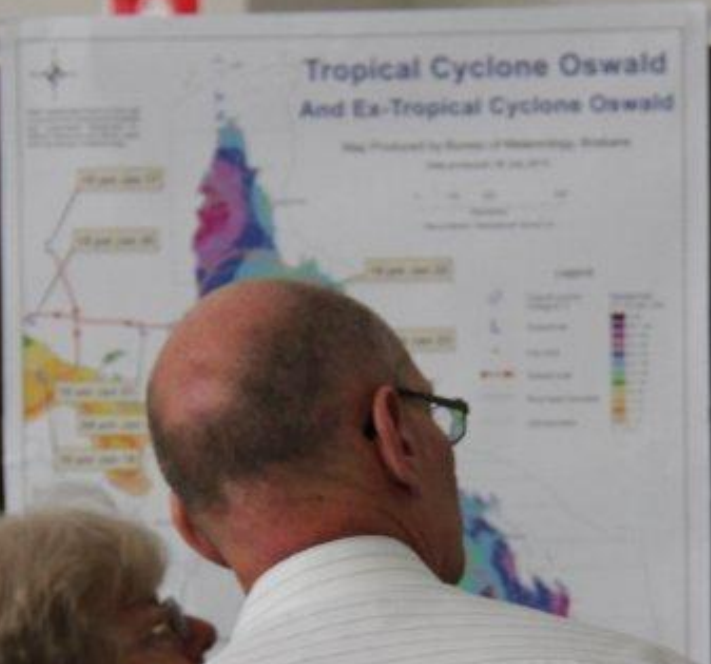
GHD

Shirley Mann



PLANNING
1/2013
Flood Response

TERRACE HILLS 2006
RETIREMENT 1001
...footprints
...TERMS



25 Sept: East State School

Burnett River Floodplain Action Plan



DISCOVER OUR SPIRIT









26 Sept: South Kolan





Community feedback and ideas findings

1. Submissions received to Council:

Method	Responses
Public submissions received from January to August (prior to formal consultation period)	44
Public ideas received during formal consultation period (Sept-October)	98
Anecdotal feedback received at the Information Sessions (by both BRC and GHD team members)	57
	TOTAL 199

2. Questionnaires and Post-it Notes:

Method	Responses
Questionnaire	76
Post-its	31

Questionnaire

Burnett River Floodplain Action Plan: September 2013

Which area of Bundaberg do you live in?

North Bundaberg South Bundaberg Avoca East Bundaberg
 South Kolan Wallaville Other _____

Was your property or business flooded in 2013?

Yes No Not applicable

As part of the Burnett River Floodplain Action Plan, how important is it for Council to consider:

1. Implementing early flood warning initiatives
 1 ← 2 3 4 5 6 →
 Not important Very important

2. Emergency evacuation plans, community awareness initiatives, flood gauge markers
 1 ← 2 3 4 5 6 →
 Not important Very important

3. Building modifications to existing properties such as raising and restumping
 1 ← 2 3 4 5 6 →
 Not important Very important

4. Reviewing building and planning codes such as changed ground floor heights and land uses to reduce the risk of flood impacts
 1 ← 2 3 4 5 6 →
 Not important Very important

5. Structural projects such as levees
 1 ← 2 3 4 5 6 →
 Not important Very important

What other options, ideas and feedback would you like to share?

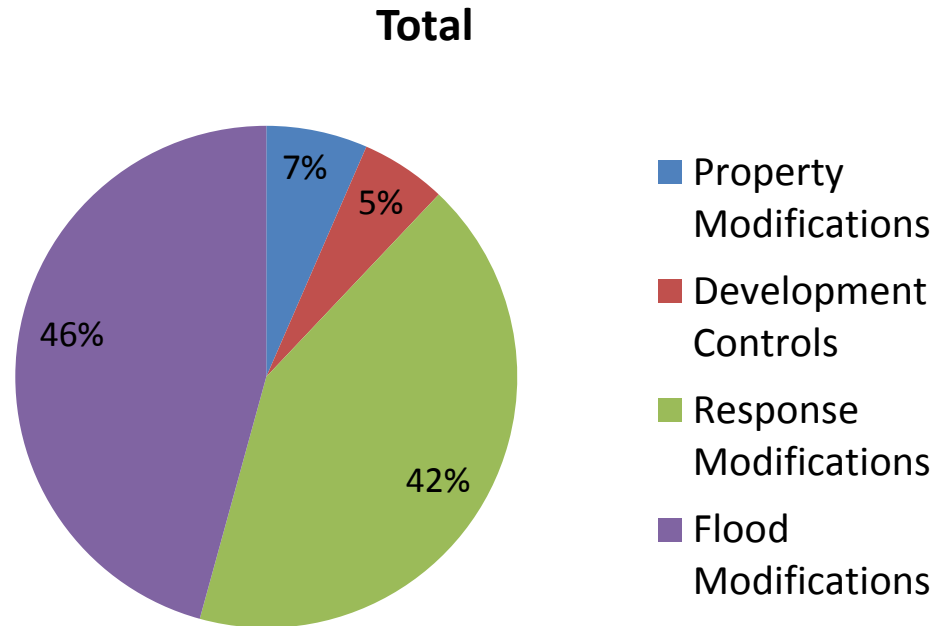


Collated ideas into four manageable themes

Theme	Types of measures, ideas , options
1. Flood Prevention modifications	<ul style="list-style-type: none">• Designing measures to alter the behaviour of the flood itself by reducing flood levels and/or velocities or by excluding flood waters from areas at risk• Options may include levees, river dredging and vegetation removal
2. Property modifications	<ul style="list-style-type: none">• Modifications to existing buildings to remove them from flooding• Options could include re-zoning and house raising
3. Development controls	<ul style="list-style-type: none">• Reviewing building and planning codes such as changed ground floor heights and land uses to reduce the risk of flood impacts
4. Response modifications	<ul style="list-style-type: none">• Increasing the ability of people to respond appropriately in times of flood and/or enhancing the flood warning and evacuation procedures in an area• Options may include improving community awareness, improving flood warning systems, and updating local flood and evacuation plans

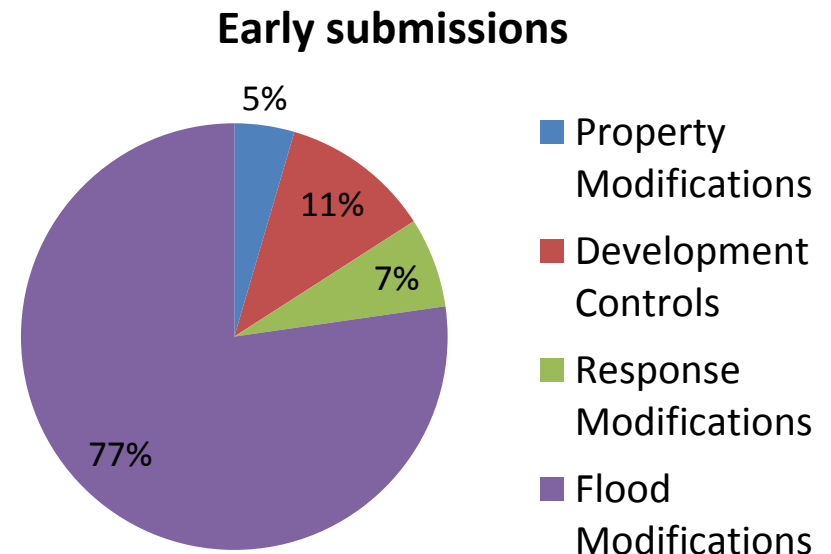
Findings – emailed public submissions, anecdotal feedback (ALL)

- Almost half (46%) the ideas were **about flood modifications** (changing the behaviour of the water)
- Closely followed by 42% of **ideas about responding** during a flood event



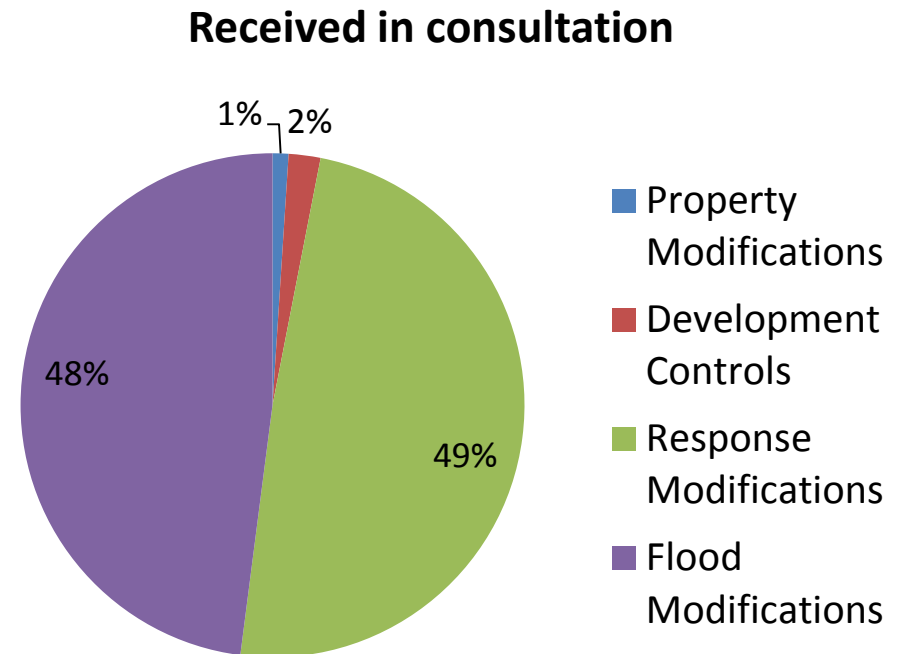
Findings – emailed public submissions, anecdotal feedback (EARLY SUBMISSIONS)

- A large proportion (77%) of ideas were about flood modifications (changing the behaviour of the water) – a natural reaction immediately after a major flood event
- Then followed by 11% about development controls (building and planning codes) – again makes sense in clean-up mode



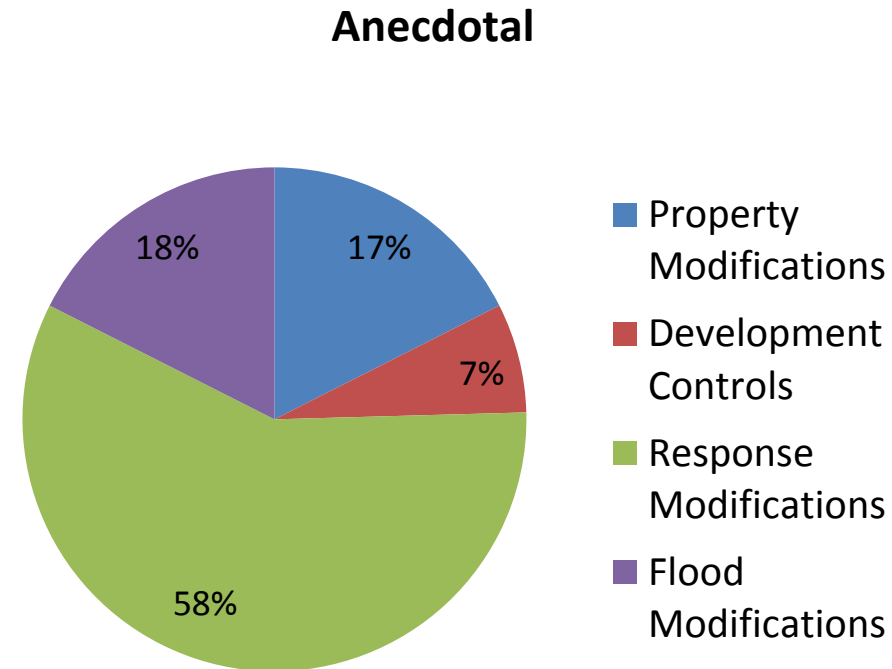
Findings – emailed public submissions, anecdotal feedback (RECEIVED DURING CONSULTATION PERIOD)

- During the consultation (Sept 2013), there was a close split between response modifications (49%) and flood modifications (48%)
- A very small number of ideas came in about development controls and property modifications



Findings – emailed public submissions, anecdotal feedback (ANECDOTAL FEEDBACK RECEIVED BY THE TEAM AT INFO SESSIONS)

- Much smaller number of ideas were received about flood modifications (18% only) when the team talked people one-on-one at the info sessions
- More than half of the ideas were about responding during a flood event (58%)
- Interestingly, people also wanted to discuss property modifications (17%), when previously it was not raised as much



Questionnaire results snap-shot

71% of questionnaire respondents were flood affected

57% were from North Bundaberg

Almost half of all respondents were flood affected residents of North Bundaberg

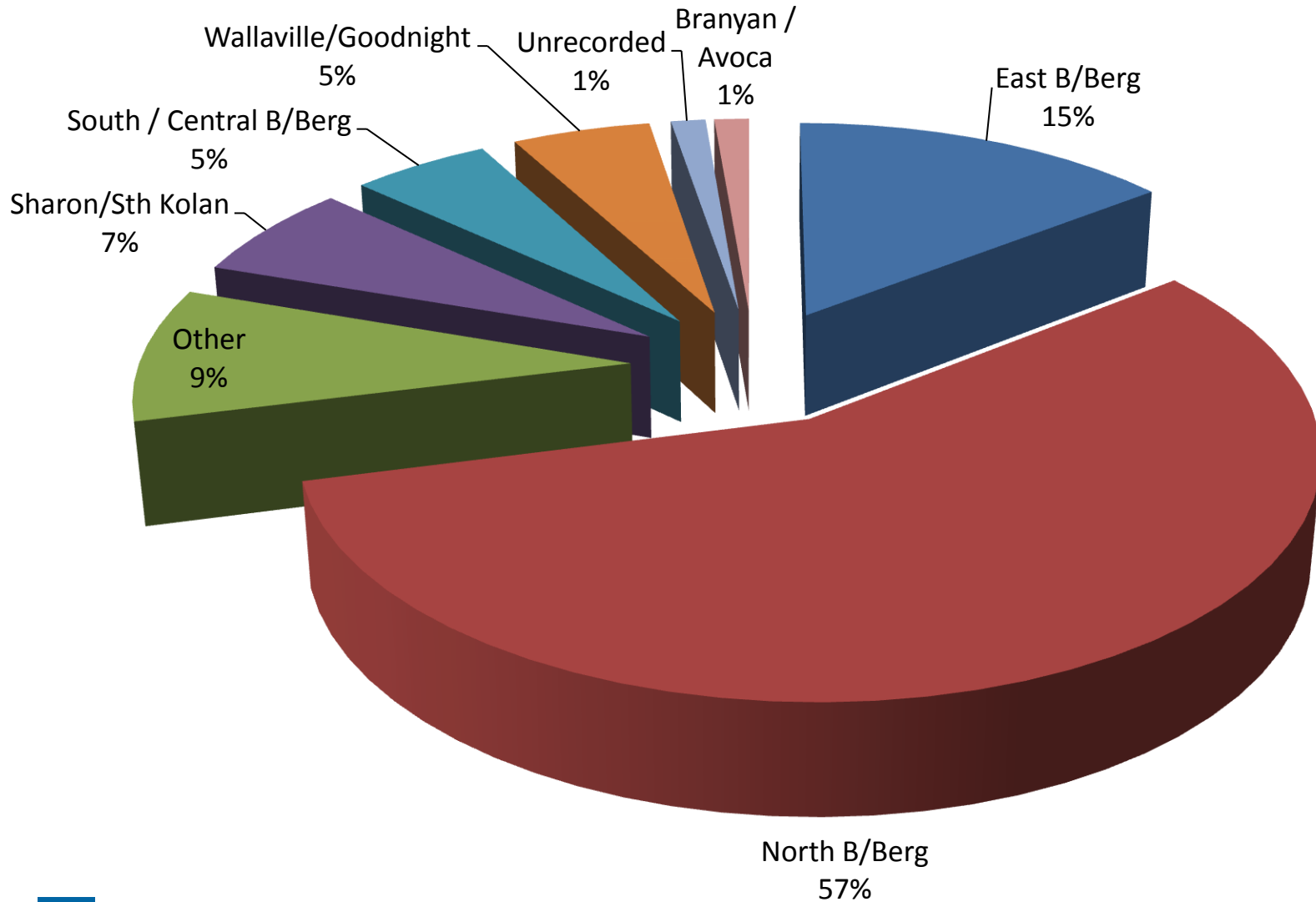
Most important issues were flood response/warning mechanisms and evacuation plans

Those not impacted by floods placed greater emphasis on the importance of reviewing planning and building codes

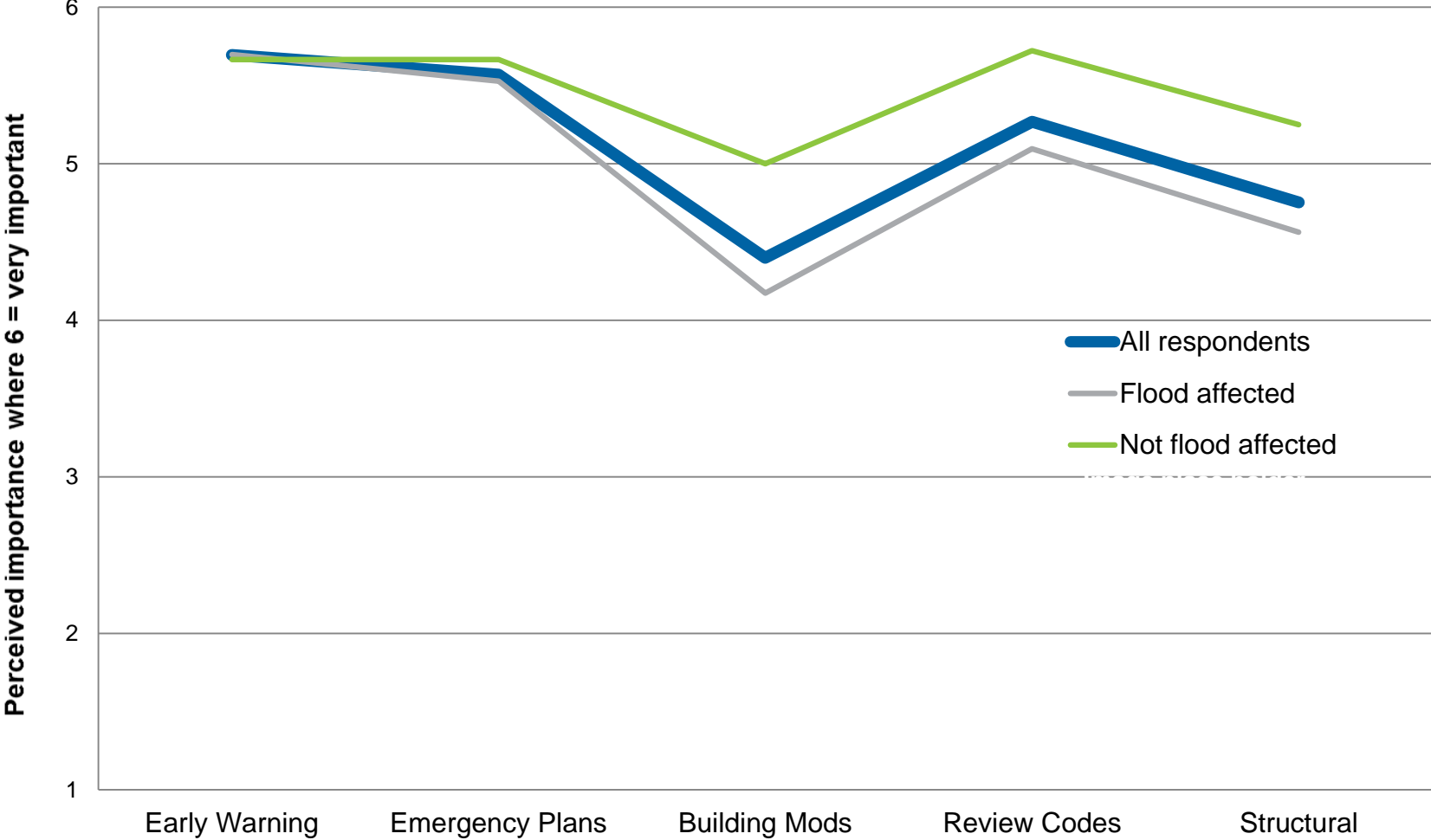
Flood-affected people saw early warnings as more important than flood modifications (noted as 'structural' on the questionnaire)

Interestingly, those not affected, saw structural modifications as more important than those who were affected

Questionnaire findings: Respondent's residence



Average perceived importance of floodplain management measures

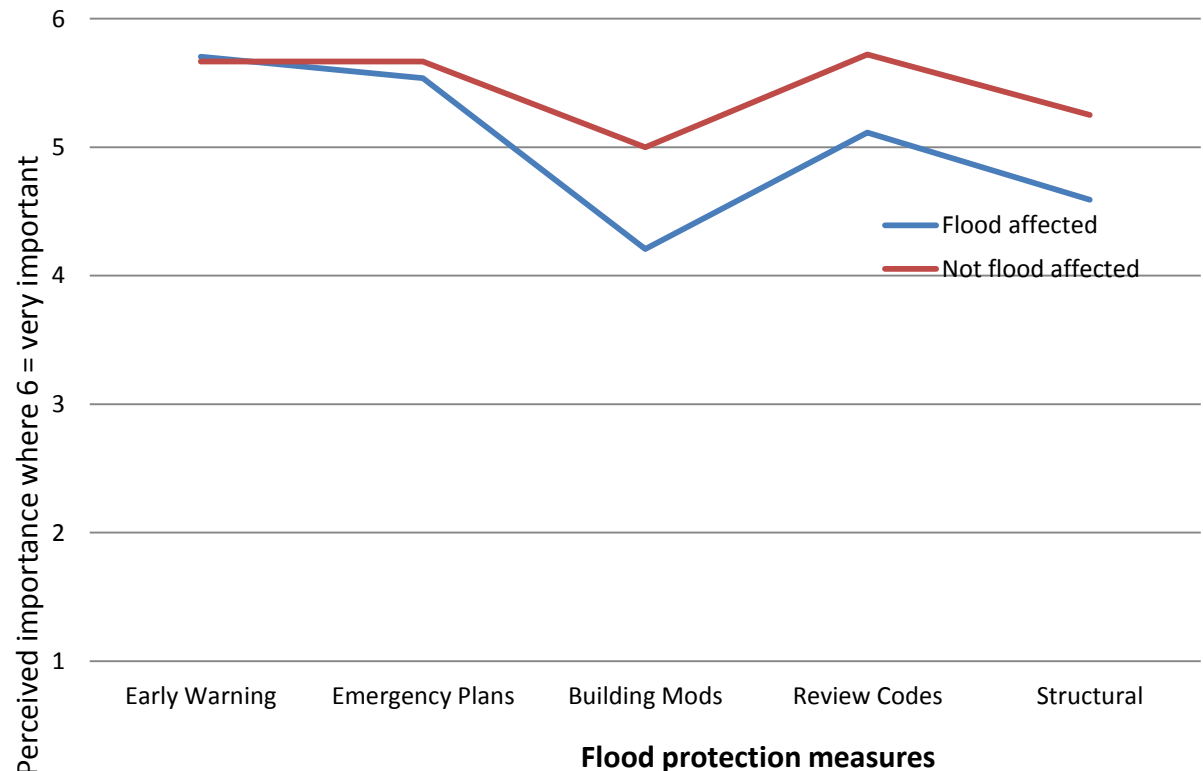


Overall ranking of floodplain resilience measures/options

1. Early flood warning initiatives
2. Evacuation plans, community awareness initiatives, flood gauge markers
3. Review of building and planning codes such as changed ground floor heights and land uses to reduce the risk of flood impacts
4. Structural projects such as levees
5. Building modifications to existing properties such as raising and restumping

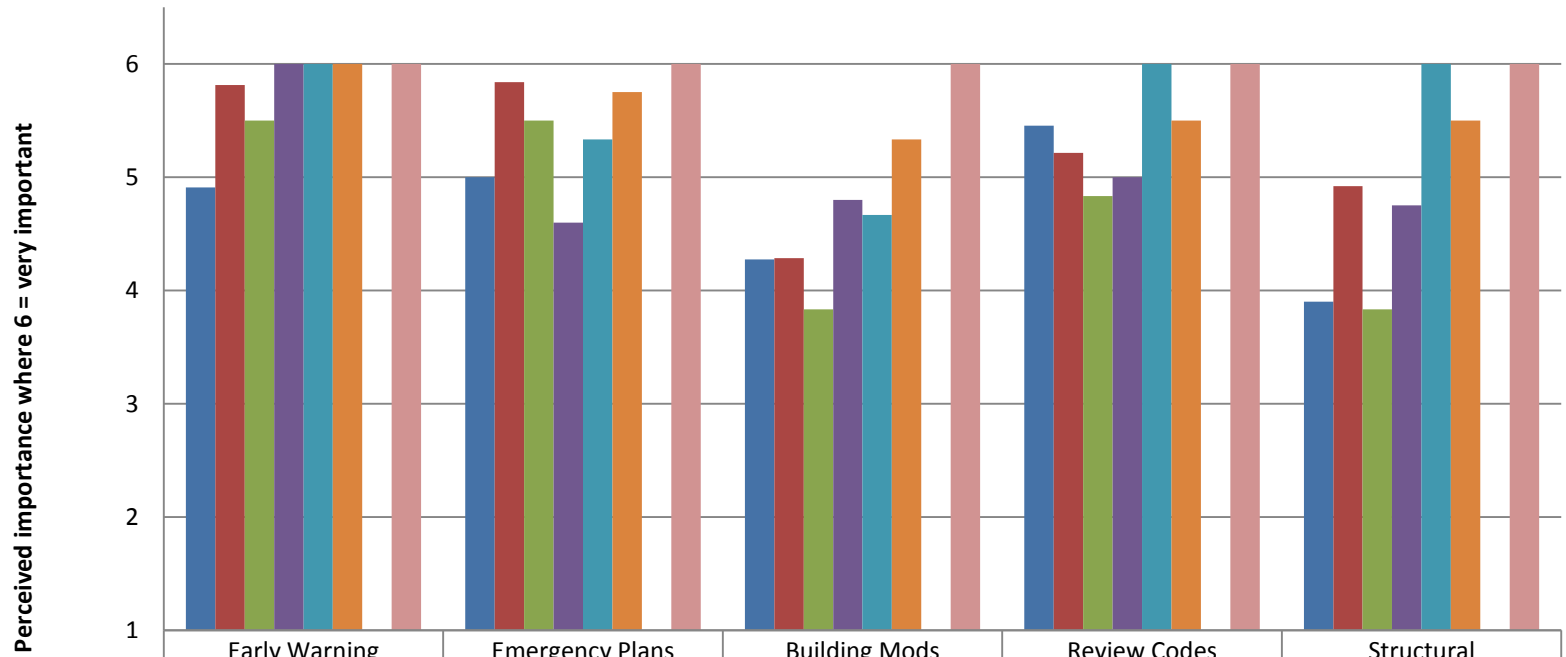
Perceived importance of measures: flood-affected v unaffected people

- Flood-affected people saw response modifications (noted as 'early warnings' on the questionnaire) as more important than flood modifications (noted as 'structural' on the questionnaire)
- Interestingly, those not affected, saw structural modifications as more important than those who were affected



Different ideas from different locations

Perception of flood protection measures to people in different areas



	Early Warning	Emergency Plans	Building Mods	Review Codes	Structural
East B/Berg	4.9	5.0	4.3	5.5	3.9
North B/Berg	5.8	5.8	4.3	5.2	4.9
Other	5.5	5.5	3.8	4.8	3.8
Sharon/Sth Kolan	6.0	4.6	4.8	5.0	4.8
South / Central B/Berg	6.0	5.3	4.7	6.0	6.0
Wallaville/Goodnight	6.0	5.8	5.3	5.5	5.5
Unrecorded					
Branyan / Avoca	6.0	6.0	6.0	6.0	6.0



Flood prevention modifications

We need to be protected not told we are going to lose everything again

Dredging of the river. Remove Ben Anderson barrage. Treat problem areas e.g. dredging and not spend valuable finances repairing homes & businesses over and over again

More important Flood Gates. 1.6m in our house...so something should be done.

Do not remove barrage because millions of tonnes of sand held back will end up down stream and cause a bigger flood down stream

Development controls

Clear zoning of streets - estates that have not been affected but have limited access are identified to be able to return to homes

Advise residents of levels taken of their property. i.e. inundation level taken at each garage door

Establish long term development planning so we don't build on flood plains

Council free up some parcels of land like Grantham. Ballot of people that want to participate in relocation of homes

Response modifications

Improve early warning process and alarms

Operational centre for Police & SES, Secure AQC site

Early warnings and ongoing information is paramount. With no power and no phone the information must come by SMS, ABC radio to keep us updated and safe.

On the North Side - loud speakers, sand bags, some official logo to use to help evacuate the locals when in boats, put/buy some army ducks, SES office/station on the north side.

Property modifications

What is the flood level associated with my property (all in AHD)?

What is the floor level of 'my' living floor?

It would not be practical to raise the floor of my business

I would like funding and help with river bank stabilization which is getting closer to our home. Help with all kinds of suitable plants and trees to plant to help stabilise river bank

Next steps and any questions...

Activity	When
GHD's Full Consultation Findings Report to be collated	By Tuesday 16 October and provided to the CRG members for their perusal
CRG members to agree and confirm the MCA criteria weightings	8 October 2013
GHD to run MCA process and report back	Next CRG meeting (TBC)

Any questions about these initial findings, or the questionnaire, please do not hesitate to ask Brooke Maki, Principal Consultant, GHD



www.ghd.com