Planning for a stronger, more resilient Queensland

Planning for a stronger Queensland: plans and guidelines for reconstruction in flood and cyclone prone areas

Timber Queensland - Remaining High and Dry seminar

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Presentation Outline

Key Priorities

Damage Assessments

Build Back Blitz

Plans and Guidelines
Disasters Timeline

Dec 23: Rainfall central & Nth QLD (200-600mm)

Dec 27: Declarations & evacs begin in Theodore

Dec 28: Emerald, Bundaberg, Central Highlands, Nth Burnett disaster declared

Dec 29: Theodore evacuated (300)

Dec 30: Condamine evacuated

Dec 31: TC Tasha (Cat 1)

Dec 25: 120mm rain Emerald

Jan 10: Flash flooding Lockyer Valley

Jan 11: Brisbane flood and regional evacuations

Jan 13: Brisbane floods Dam at 183% capacity

Jan 19: QRA announced

Jan 31: TC Anthony (Cat 2)

Feb 2/3: TC Yasi (Cat 5)

Feb 4: Maranoa Flooding

Feb: Monsoonal Flooding

Mar 2011

Apr 2011

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Disasters Overview

Disaster Events

1. Dec 2010  
   Flooding South east/west

2. Dec 2010  
   Tropical Cyclone Tasha

3. Jan 2011  
   Flash Flooding Lockyer Valley

4. Jan 2011  
   Brisbane/Ipswich Flooding

5. Jan / Feb  
   TCs Anthony & Yasi

6. Feb 2011  
   Monsoonal Flooding

7. Apr 2011  
   Maranoa flooding
Response and Reconstruction

Speed of Response determines Reconstruction Gap

Emergency response & relief (Floods and Yasi)
DARM Objectives

- Queensland needed – *consistent approach, clear triggers, rapid deployment*
- Clarity of roles and responsibilities - *State agencies and LGAs*
- Information collection - *faster, accurate and complete*
- Rapid information dissemination – *for response and recovery agencies*
- Identify those in the community most vulnerable and in need of support
  - Build Back Blitz program
- Infrastructure reconstruction monitoring and reporting - *streamlined*
Operational

1. Roma Floods
   - Comprehensive Damage Assessments
   - 76 properties impacted (April 2011)
   - 30 remain damaged (August 2011)

2. Cyclone Yasi
   - Reconstruction Monitoring
   - 2,539 properties assessed
   - 1,675 remain damaged (June 2011)
   - 934 remain damaged (September 2011)

3. Brisbane and Ipswich Floods
   - Reconstruction Monitoring
   - 11,262 properties assessed
   - 6,359 remain damaged (July 2011)
   - 1,809 remain damaged (October 2011)
Rebuilding is a complex process for homeowners
# Build Back Blitz

<table>
<thead>
<tr>
<th><strong>WHO</strong></th>
<th>Owner occupier homeowners throughout Qld whose houses were severely damaged following floods and cyclone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WHY</strong></td>
<td>Some homeowners are having difficulty progressing with repair/rebuild and may be living in compromised living conditions</td>
</tr>
<tr>
<td><strong>WHAT</strong></td>
<td>Repair and rebuild their homes to appropriate living standards</td>
</tr>
<tr>
<td><strong>HOW</strong></td>
<td>Identify priority clients and provide targeted rebuilding advice and connect to building contractors for support</td>
</tr>
<tr>
<td><strong>OUTCOME</strong></td>
<td>Homeowner’s property is repaired or rebuilt to appropriate standard</td>
</tr>
</tbody>
</table>
# Selecting the priority BBB clients

<table>
<thead>
<tr>
<th>Condition</th>
<th>Consideration</th>
</tr>
</thead>
<tbody>
<tr>
<td>House is totally destroyed / severely damaged.</td>
<td>House is unsafe to live in or considered uninhabitable.</td>
</tr>
<tr>
<td>Resident is owner occupier.</td>
<td></td>
</tr>
<tr>
<td>Owner is still living in the unsafe home or is living in a compromised situation (shed, tent, caravan etc).</td>
<td>No work has commenced to rebuild/repair the home.</td>
</tr>
<tr>
<td>Resident/s considerations (e.g. aged, frail, disabled, medical condition, children etc).</td>
<td>Owner needs support to progress repairs/rebuild and/or has limited financial capacity to progress repair/rebuild.</td>
</tr>
</tbody>
</table>
SUCCESS TO DATE

• 855 potential clients assessed

• 246 clients received support (of these 98 reconstruction commenced or complete)

• 72 families at scoping and quoting phase.
Delivery... Land Use Planning Team

- Grantham and Tully Heads/ Hull Heads – priority areas for rebuild
- Ensure no regulatory hurdles to facilitate reconstruction – cut red tape
- Varying responses to different needs – no one size fits all
- Drive use of existing legislation to support reconstruction
- Building back better – North Queensland
- Floodplain Management
- Critical Infrastructure – specifically focussed on electrical infrastructure
- Strategic Land Use Assessments to inform new planning schemes and ensure recent events are taken into account
Build it back better - North Queensland

*Draft NQ Guidelines*

Part 1: Rebuilding in Storm tide prone areas

Part 2: Wind Resistant Housing

*Proposed*

Part 3 - Building in low lying coastal areas (2012)
Guidelines

• Partnerships with key cyclone and design experts
• These guidelines are Not Mandatory
• Part 1 - Storm tide – an Australian first
• Practical design solutions
• Design guidance to improve resilience in event of storm surge inundation
• Plain English/ easy to understand/ visual
• Provide the residents with a greater understanding
• Part 2 – reiteration of what current standards exist
• Understanding hidden damage
• Importance of maintenance especially in pre-80s homes
• Preparation for next cyclone season
• Design compatibility with local area character
• Would have relevance for areas such as Forrest Beach

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Far North Queensland Guidelines... In action

Planning for a stronger, more resilient North Queensland

Part 1
Rebuilding in storm tide prone areas: Tully Heads and Hull Heads

New house near completion in Hull Heads

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Delivery in action...
Grantham Reconstruction Area
QldRA’s Role in Grantham

- To support Grantham to get back on its feet
- Remove red tape and fast track processes so that rebuilding can occur more quickly.
- Convert the Master Plan into a proposed Development Scheme
- Normally this type of planning and approval process can take up to 1 year
- Proposed development scheme slashes timeframes for approval process to enable to rebuilding effort to commence mid-year and to see some people in their new homes by Christmas.
Delivery... a stronger, more resilient Grantham

- First designated Reconstruction Area under QRA powers
- Fast track processes – years to weeks
- Cut red tape to support delivery
- Developed Master Plan & translated this into a Development Scheme
- First Queensland Planning Provision compliant scheme in the State
- Construction has begun on first stage
- People in new homes by Christmas 2011

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Delivery... Grantham Housing Advice

- Provides recommendations on:
  - Block layout
  - Housing design
  - Utilising the topography
  - House positioning and orientation
- Promotes the ‘Queenslander’ housing design as it addresses climatic situations
- Encourages a sustainable and efficient construction and function

Houses of this type and structure are suitable for Grantham and are recommended.
Delivery... a stronger, more resilient Grantham
QldRA Floodplain Project- Overview

• Toolkit to support Councils improve floodplain management through land use planning.
• 65% of existing planning schemes DO NOT contain any flood mapping.
• Toolkit includes mapping product and development controls.
• DERM supporting QRA and mapping floodplains across the entire State.
• Largest mapping exercise underway in the Country.
• Roadshow to 38 Local Councils for one on one meetings.
• Well received by Councils.
• Supports better built form outcomes.
Planning for stronger, more resilient floodplains

Part 1 – Interim measures to support floodplain management in existing planning schemes

• Part 1 offers an Overlay to be inserted into existing planning schemes that can be used like any other Overlay to assess a development’s ability to deal with potential flooding impacts.

• Code provisions would apply to areas triggered by the mapping.

Example - Interim Floodplain Assessment Overlay Model Code

<table>
<thead>
<tr>
<th>Performance Outcomes</th>
<th>Acceptable Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development is resilient to flood events by ensuring design and construction account for the potential risks of flooding.</td>
<td>For Material Change of Use and Building Work (residential Uses) Residential dwellings are not constructed as single storey slab on ground. Note: the highset ‘Queenslander’ style house is a resilient low density housing solution in floodplain areas.</td>
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Part 2 will be ready for release in DRAFT mid-November
Progress

- 63 river basins now completed as at 19 October (128 in Queensland) representing 40% of Queensland
- Over 2500 map pages produced to date (A3 @1:50,000 scale)
- 110,000km² identified as part of Interim Floodplain Assessment Overlay from these 63 river basins.
- Using more than 35 experienced cartographers
Ultimately it's about better built form

Bring back the 'Queenslander'
Questions?

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