NORTH AUSTRALIAN BUSHFIRE AND NATURAL HAZARD TRAINING

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BUILDING COMMUNITY RESILIENCE IN REMOTE NORTH AUSTRALIA

- Large ‘action research’ component.
  - Transform current fire/emergency/land mgt
- Build on Existing Capacity / Capability
- Nexus between:
  - Fire / emergency / land mgt &
  - Payment for Environmental Services
  - Traditional knowledge
  - North Australian ‘world view’
WHY NEW TRAINING FOR THE REMOTE NORTH?

- Sendai Framework
  - Govt’s at all levels coordinate
- National Strategy for disaster resilience
  - National Equity
  - ‘Bottom-up’ development of BNH resilience?
- Current training contains much that is not relevant to north Australia
- Current training omits much that is necessary for northern Australia  [Constant complaints to this effect]
- Emerging understandings from new research
- Support emerging economic opportunities
WHY NEW TRAINING?
WHY NEW TRAINING?

ASK US WHAT WE WANT
WHY NEW TRAINING?
WHAT STAKEHOLDERS WANT

- Focus on safety
- Emphasis on applied skills & knowledge
- Use the ‘old ways’
- Delivery needs to be field based
  “kabardibukan” - apprenticeship style
- Training for ‘here’
- Training for ‘us’
WHAT STAKEHOLDERS WANT...

- Delivery of training that is:
  - Interactive
  - Tailored and locally relevant
  - Reliance on local expertise, use of elders & clan leaders
  - Strong practical component
  - ‘On-ground’ competence assessment
  - Incorporation of research and researchers
  - Iterative
TRAINING TO CAPITALISE ON NEW OPPORTUNITIES...

<table>
<thead>
<tr>
<th>Without abatement activity</th>
<th>With abatement activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>- baseline</td>
<td>- CFI project</td>
</tr>
<tr>
<td>Late fire</td>
<td>Early fire</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Emissions (tCO₂ₑ)</th>
<th>Offsets</th>
<th>Emissions (tCO₂ₑ)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without abatement activity: Late fire</td>
<td>100</td>
<td>0</td>
<td>80</td>
</tr>
<tr>
<td>With abatement activity: Early fire</td>
<td>20</td>
<td></td>
<td>20</td>
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</tbody>
</table>

bnhcrc.com.au
Carbon credits earned from Savanna burning projects, as at March 2015

Note: 1 carbon credit = 1 t.CO2e = AUD15 (as of May 2015)

Current savanna burning projects

Western Australia
5 Projects
422,617 ACCUs

Queensland
22 Projects
209,843 ACCUs

Northern Territory
7 Projects
701,483 ACCUs

1,333,943 ACCUs issued for 34 projects
OVER-ARCHING OBJECTIVE

“Training that supports north Australian needs and world view”

-A fire regime that we choose
-Emergency management matched to our needs
TAILORING TRAINING

- Workshops
- Interviews with individuals
- Interviews with groups
- Participants from all three jurisdictions
  BNH Agencies, Aboriginal organisations, pastoral and horticultural producers

- Engagement of ARPNet
<table>
<thead>
<tr>
<th>UNIT CODE</th>
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<th>UNIT NAME</th>
<th>UNIT MATERIALS</th>
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<tbody>
<tr>
<td>TETBNH3 01</td>
<td>TETBNH3 02</td>
<td>Non-Indigenous and Indigenous BNH Management Principles</td>
<td>Case Study &amp; Expert Panel</td>
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<tr>
<td>TETBNH3 03</td>
<td>TETBNH3 04</td>
<td>Applying Indigenous Fire Management Processes in North Australian Contexts (Local Variant)</td>
<td>Portfolio</td>
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<tr>
<td>TETBNH3 05</td>
<td>TETBNH3 06</td>
<td>Community Engagement and Cultural Protocols (Local Variant)</td>
<td>Flow Diagram &amp; Evaluation</td>
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<tr>
<td>TETBNH3 07</td>
<td>TETBNH3 08</td>
<td>Fire Management and the Law</td>
<td>Flow Diagram &amp; Group Discussion Summary</td>
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<tr>
<td>TETBNH3 09</td>
<td>TETBNH3 10</td>
<td>Digital Mapping Tools Used in BNH Management</td>
<td>Practical Application &amp; Assessment Task Booklet</td>
</tr>
<tr>
<td>PUAFIR2 098#</td>
<td>TETBNH3 12#</td>
<td>Apply Standard Operating Procedures (SOPs)</td>
<td>Debrief Participation</td>
</tr>
<tr>
<td>TETBNH3 11#</td>
<td>TETBNH3 13#</td>
<td>Participate in Debrief (Local Variant)</td>
<td>Film Clips</td>
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<tr>
<td>TETBNH3 14#</td>
<td>TETBNH3 15#</td>
<td>Advanced Situational Awareness and Dynamic Risk Assessment (Local Variant)</td>
<td>Activity 1: Risk assessment in planning</td>
</tr>
</tbody>
</table>

1. *Required*
APPLYING INDIGENOUS FIRE MANAGEMENT

Otto Campion Bulmaniya
Bush fire Project at Arafura Swamp Ranger Aboriginal Corporation (ASRAC)
Australia | Environmental Services
Current: Arafura Swamp Ranger Aboriginal Corporation (ASRAC), Charles Darwin University
Education: Adult Education in Ramingining Community North/East Arnhemland

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12 connections
TRAINING UNITS

Mumeka Fire Management

<table>
<thead>
<tr>
<th>Before</th>
<th>Today</th>
<th>Tomorrow</th>
</tr>
</thead>
<tbody>
<tr>
<td>good fire</td>
<td>no much help for</td>
<td>78 burning for</td>
</tr>
<tr>
<td>plenty animal</td>
<td>binjing to go back to that country</td>
<td></td>
</tr>
</tbody>
</table>

Seasonal Celandar

- Walirr: Hot Weather or Build up. Dry Lightning/Storms
- Gabboljark: First Rain regrew.
- Worrankgol: First Flooding
- Djuwalkga: Middle of Wetsarg. Hunting only little bit fishing.
- Marlwurru: Cool Weather

- Weather Changing
- More Birds Sound
- Fat Animals to Hunt
- Kangaroo Fire Drive
- Fishing Collect bush
- Matalul Mareli Ceremonies
REMOTE TACTICAL LEADERSHIP TRAINING
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NEXT STEPS...

• Deliver Pilot training
  • 3 Communities towards end of 2016 Dry

• Detailed Evaluation
  • Use ARPNet program to interrogate participants and teachers’

• Revise material

• Begin accreditation process
THANK YOU

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