

# INCIDENTS – DECISION MAKING IN TEAMS

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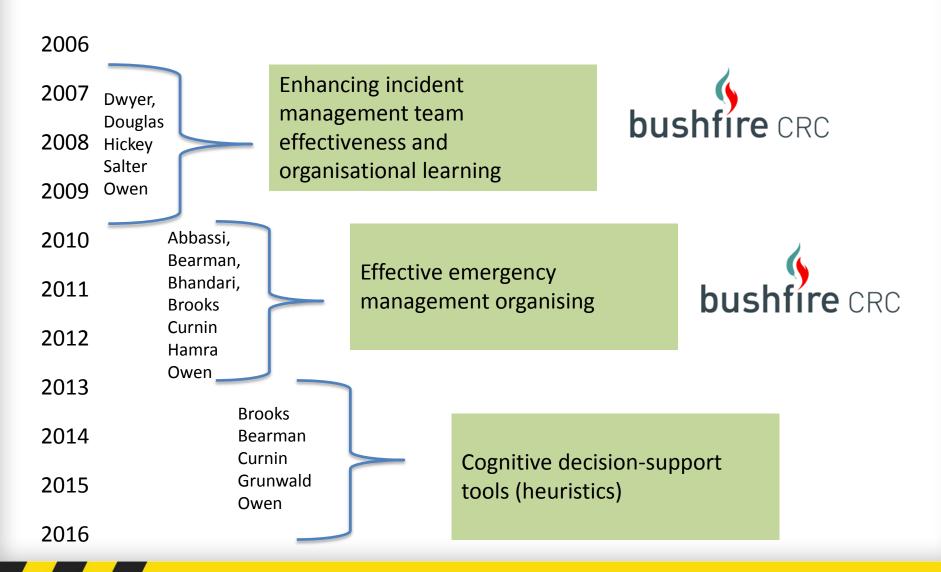








#### **RESEARCH – LEGACY AND CONTINUITY**



#### TEAM RESEARCH METHODS

- Interviews experienced personnel (N=115)
- Observations planned (n=18) and unplanned incidents (n=6)
  - 25.4 hours of sampled video data
  - 10,449 video-coded clips
  - 19 hours audio transcriptions
  - 265 teamwork effectiveness surveys
- National Survey AIIMS/CIMS (n=870) responses) 25 agencies



#### **Planned incidents**

•Training simulations Tas, Vic, NSW, ACT, Qld

#### **Unplanned incidents**

•Fires in Victoria and Tasmani

### Cam 1 Cam 2 Cam 3













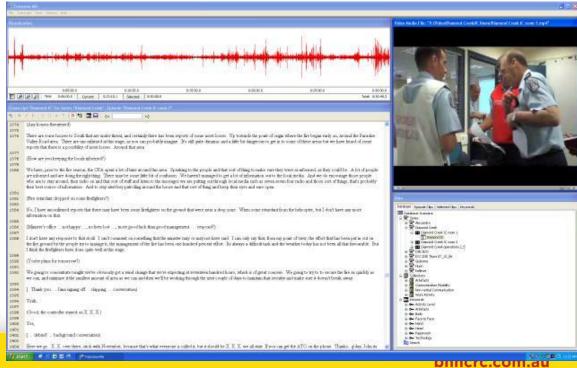






### **RESEARCH – OBSERVATIONAL METHODS**



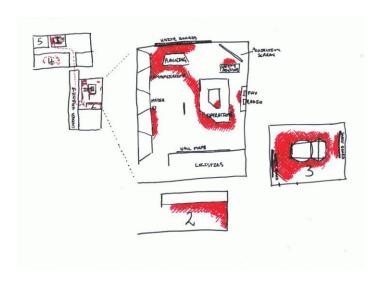


### **CONFIGURING INCIDENT CONTROL CENTRES**



F G CONTRACT CONTRACT

**ICC Venue 3** 



**ICC Venue 1** 



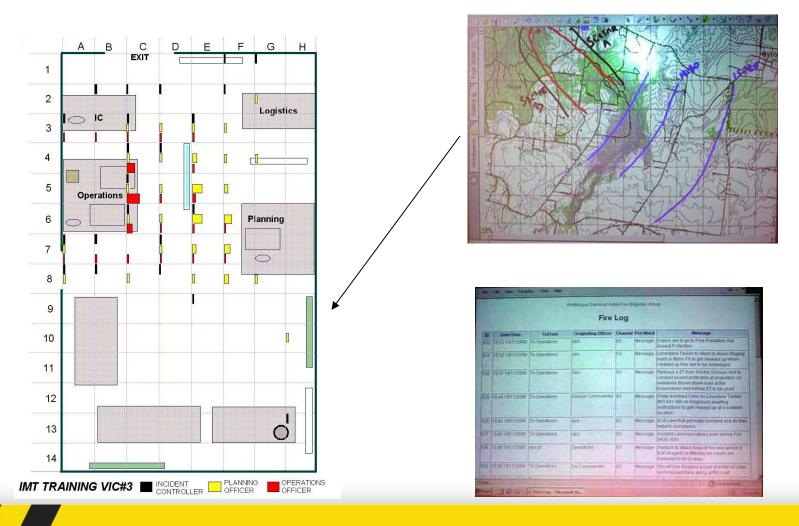
### **USE OF WORK SPACE AND TECHNOLOGIES**







### INTRODUCING NEW TECHNOLOGIES – IMPLICATIONS FOR WORK PRACTICE









### **RESEARCH - OBSERVATIONAL METHODS**



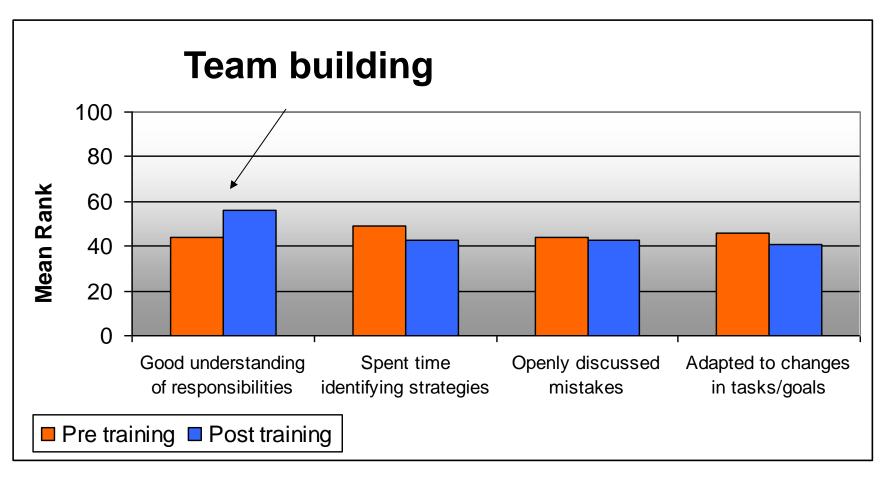


After



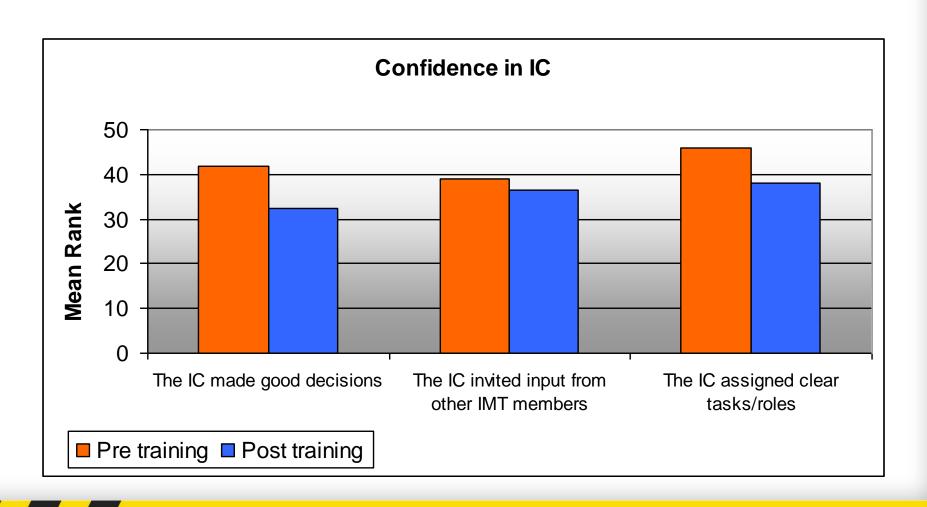


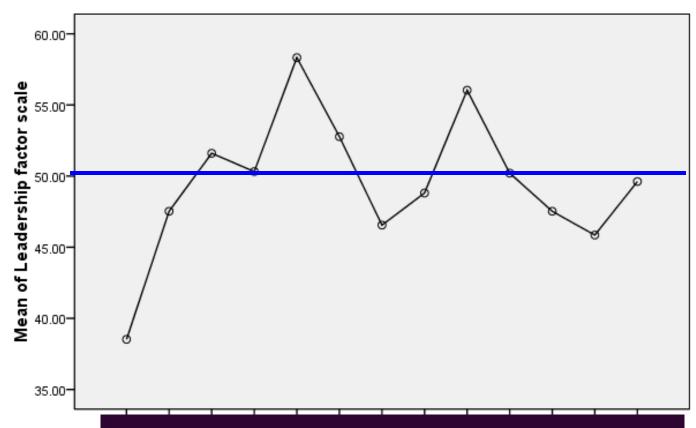
#### **RESEARCH – PRE-POST OBSERVATIONS SURVEY**



18 Team simulations, 240 participants, 5 states

#### PERCEPTIONS OF TEAM LEADERS BY THEIR PEERS





Incident Controller x location

#### **HIGHER PERFORMING TEAMS "I HEAR YOU"**

#### Effective teams

- more explicit confirming statements;
- checking out assumptions



Detecting gaps and inconsistencies: Team members **actively** look for and fill gaps in the team's information base to identify and manage **inconsistencies** or contradictions

#### **HIGHER PERFORMING TEAMS "I HEAR YOU"**

Low performing teams

"It's all good to go"

" Great"



High performing teams

"It's all good to go"

"So you're fully loaded and you'll be there by ..."

#### **HIGHER PERFORMING TEAMS "I SEE YOU"**

- Shared observations
- Active noticing
- Climate
  - Seeking assistance
  - Accepting assistance
  - Offering assistance
- Brokering assistance



"they'll do that but you need to spell out xxx"

### **HIGHER PERFORMING TEAMS "I GET YOU"**

**Low performing** 

"Are you ready for the teleconference?"

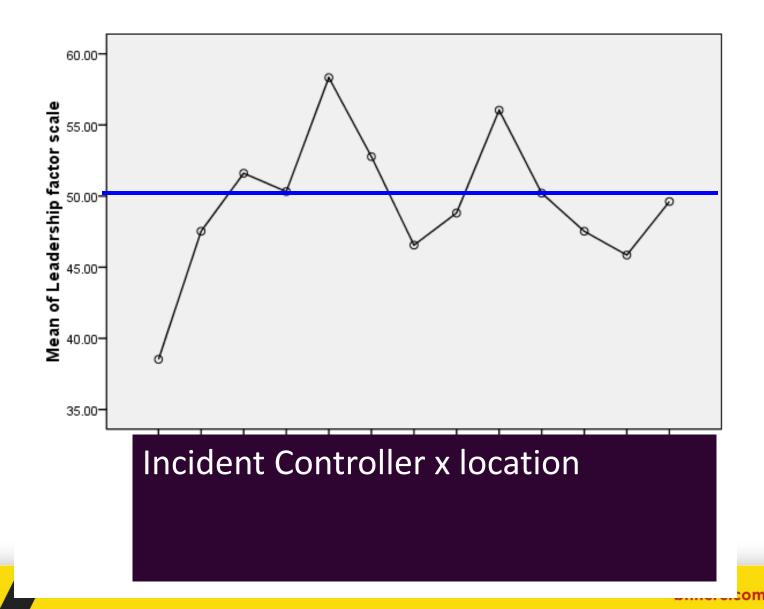
"Yeah"



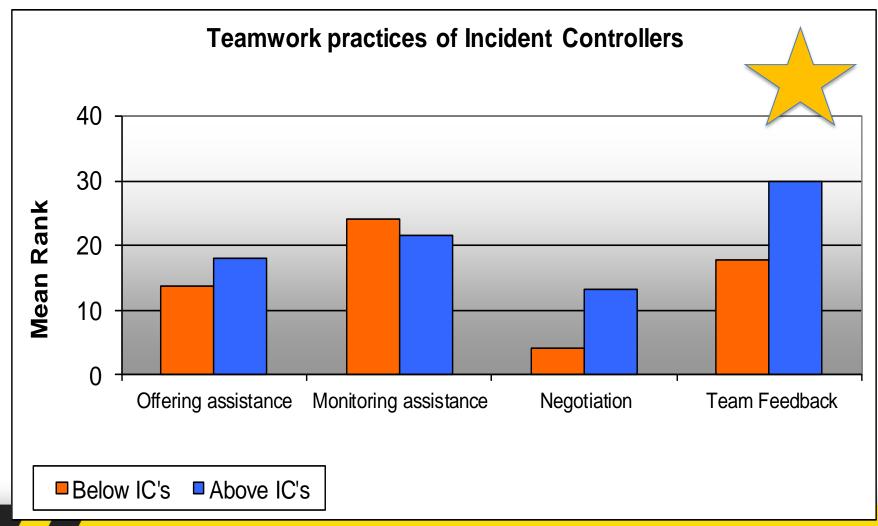
#### **High performing**

"this [teleconference] is going to be intense – you need to be ready for that"

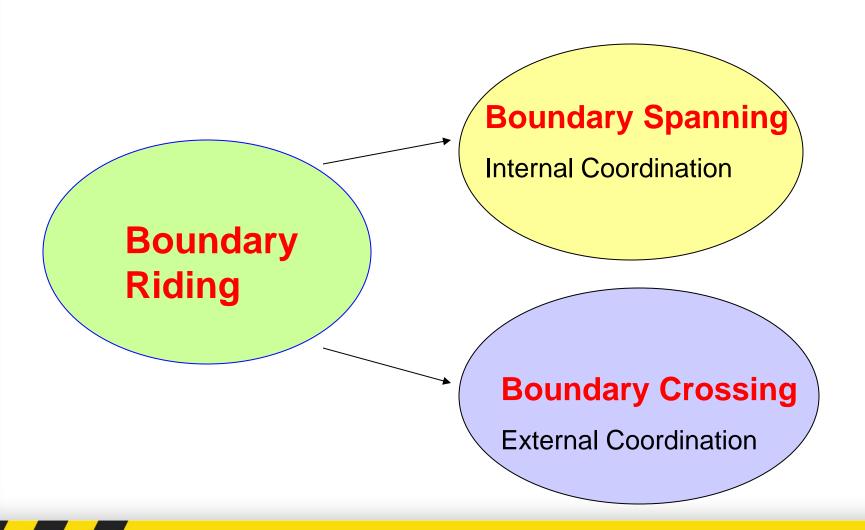
### WHAT WERE EFFECTIVE TEAM LEADERS DOING?



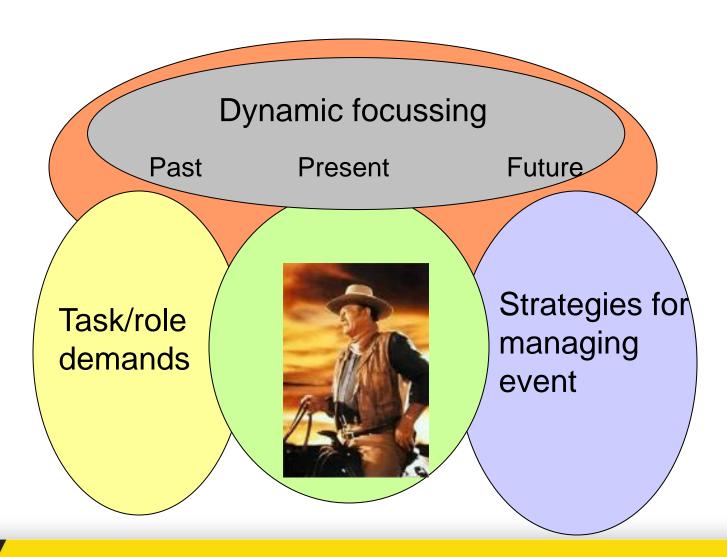
#### EFFECTIVE LEADERS – TEAM FEEDBACK



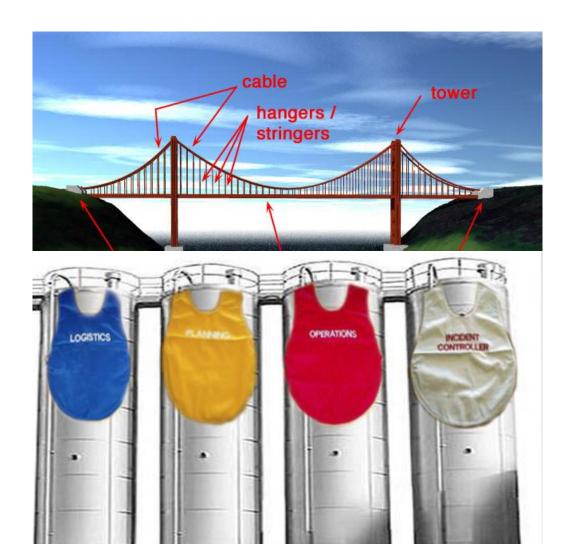
### **EFFECTIVE LEADERS – TEAM FEEDBACK**



### **EFFECTIVE LEADERSHIP: BOUNDARY RIDING**



### **EFFECTIVE LEADERSHIP - BOUNDARY SPANNING**



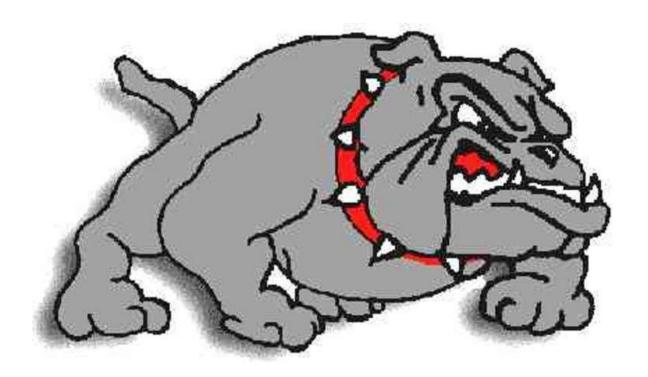
# EFFECTIVE LEADERSHIP – CROSSING BOUNDARIES BETWEEN AGENCIES



## BUT WHAT OF THE POORER PERFORMING TEAM LEADERS?

Implications for fire and emergency services culture.... Some cultural archetypes

# CULTURAL ARCHETYPE – THE BULLDOG: AN AUTOCRATIC LEADERSHIP STYLE



### **BULLDOG COMMUNICATION CLIMATES**

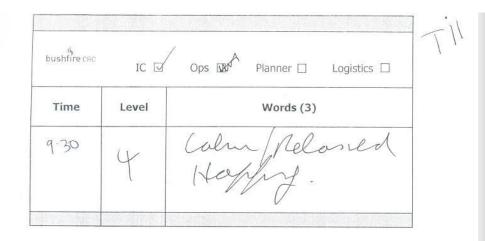
#### **Team Members:**

- **Inhibition**: may feel inhibited in contributing information but instead only offer *information that is already shared*
- Decision-making climate (hostility): There may be lack of cooperation; trust; withholding of information
- Power-distance: less likely to speak up



Self-reflections: Incident Controller Simulation

(Phase 3 observations)



"It is important that a leader has credibility with those he/she seeks to lead and that they have confidence and trust in the leader's capacity to do what is needed to be done."

"One way that such confidence could be facilitated is by the use of body language."

"When I have been in command at an incident

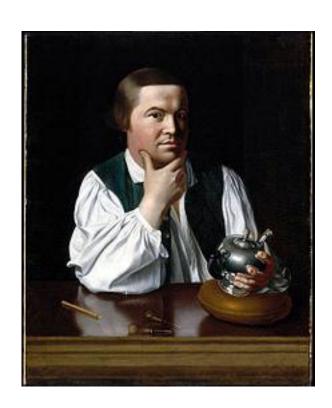
I would adopt a pose which was designed and intended to convey my capacity as a confident and capable leader ....

"When I have been in command at an incident I place one hand across my chest while I use the other to stroke my chin. And I stand very still."

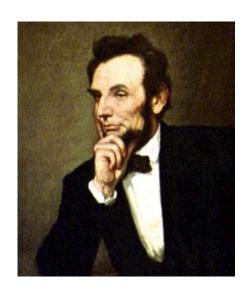
"I place one hand across my chest while I use the other to stroke my chin. And I stand very still."



### PAUL REVERE; "THE BRITISH ARE COMING"



### **ABRAHAM LINCOLN**



## MAGGIE THATCHER- THE IRON LADY



## IMPLICATIONS – THE STRONG AND SILENT TYPE

**Team Members:** 

- Failure to challenge/test assumptions: assume they share similar goals, leading to false consensus and collective ignorance
- Poor communication/shared experiences: may be thinking along similar lines but still be incorrect. Assumptions made about sharing meaning (e.g. Risk, threat, likelihood)
- Power-distance: remote or withdrawn leader

## **SCENARIOS: WHEN THINGS GO BAD**



## "FIGURED WORLDS" = "WHAT YOU WANT"



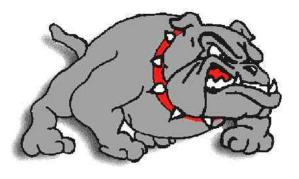
Visionary leadership combination:

Red Adair meets Luke Skywalker



## "REALITY BITES" WHAT YOU GET

The bulldog



Bulldogs barking or aura of calm impression management

The strong and silent type



# Implications from other industries – graded warnings



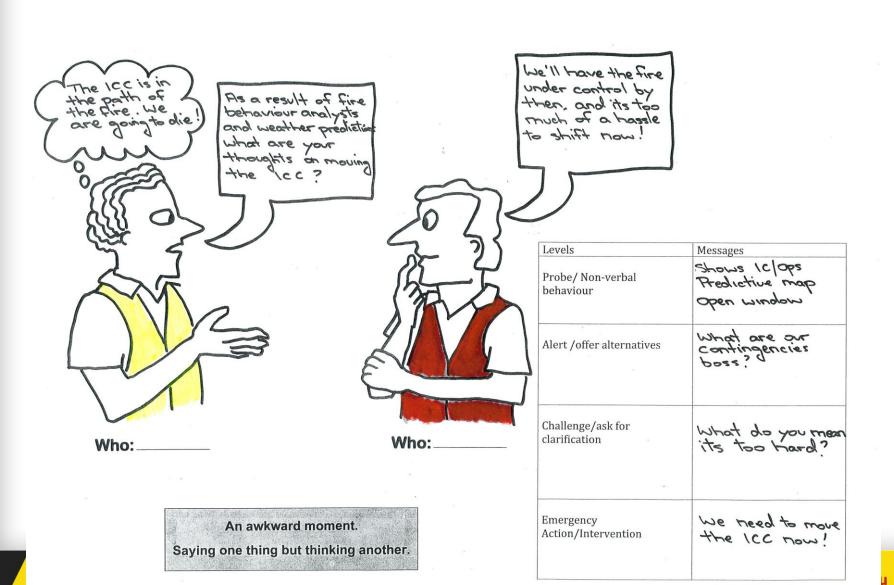


Lowering the authority gradient

## **Graded Warnings in Health Care**

| Levels                            | Messages                          |  |  |
|-----------------------------------|-----------------------------------|--|--|
| 1 Probe/ Non-verbal behaviour     | "I messages" I notice that        |  |  |
|                                   | Are you sure?                     |  |  |
| 2 Alert /offer alternatives       | Would you like me to help with    |  |  |
|                                   | Shall we check?                   |  |  |
| 3 Challenge/ask for clarification | Is there a reason you're going to |  |  |
|                                   | I think actually                  |  |  |
|                                   | I'm concerned about               |  |  |
| 4 Emergency Action                | You must listen! We need to       |  |  |
|                                   | I'm not going to because          |  |  |

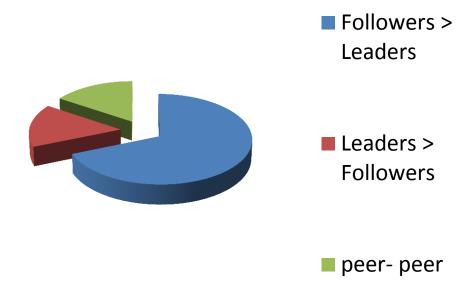
## "AN AWKWARD MOMENT"



## **ANALYSIS OF GRADED WARNINGS**

18 human factors workshops (fire and non-fire)

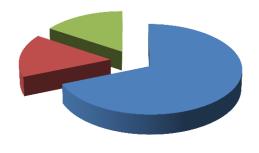
- Small group exercises; 25 "awkward moments



## **ANALYSIS OF COMMUNICATIONS EXERCISE**

18 human factors workshops (fire and non-fire)

- Small group exercises; 25 "awkward moments



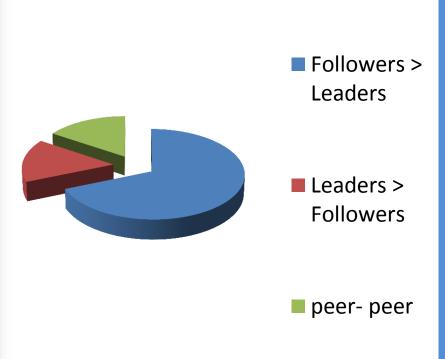
Leaders to followers

ATTEMPTING TO GET FOLLOWERS
TO ACT

## **ANALYSIS OF COMMUNICATIONS EXERCISE**

18 human factors workshops (fire and non-fire)

- Small group exercises; 25 "awkward moments

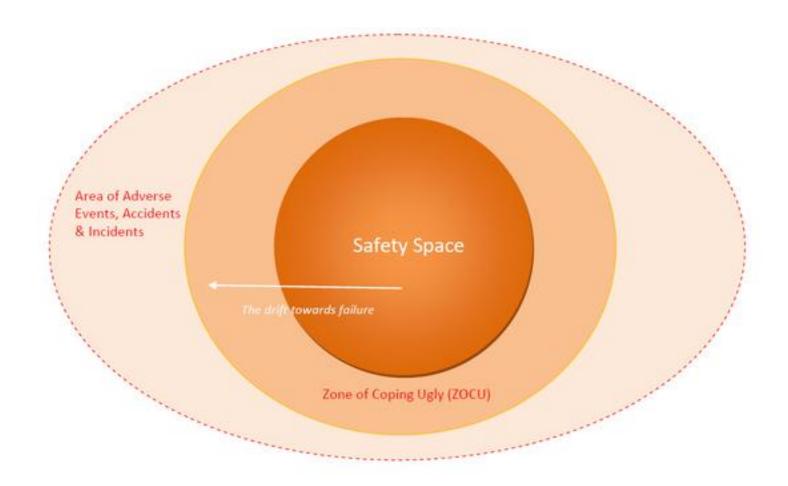


### Followers to leaders

>> Mostly trying to get the leader to STOP and take notice

In half the cases challenge still not explicitly raising concern

## **ZONE OF 'COPING UGLY'**



Ben Brooks, Bushfire CRC

## IMPLICATIONS FOR COMMUNICATION BETWEEN LAYERS?

1. Problem detection (situation assessment) assessment; risk



2. Task execution- mobilising resources



4. Interpretation; consequence management

3. Anticipation planning prediction



5. Evaluation/risk /assurance





## 2<sup>ND</sup> FIELD RIDE: 9<sup>TH</sup>-10<sup>TH</sup> JULY 2013









## **LEARNING FROM ADVERSITY ... IT HAPPENS, JUST GET OVER IT?**

"Having the operational priorities was a real strength."

We were able to use the operational priorities as a

However, conveying that switch in strategy to other

crews was - at times - challenging." (i.e. to convince

Culture change

"Five years ago we would never

have had the courage to do this"

crews that they needed to leave a house that was

involved in fire and move on).

decision-meking tool to know when to switch strategies.

We talk about field rides, staff rides, and lessons learnt, but how do we achieve real and lasting change in our organisations, and how do we learn from adversity in a manner which builds people up, rather than tear them down? While the fires were still burning in January 2013, senior staff within the Tasmania Fire Service recognised the significance of the out-of-scale event, and wanted to both learn from adversity and ensure those involved were cared for appropriately.

### HOW DID WE DO IT?

- Conducted a Field Ride with key crew leaders and decision makers who were directly involved on the Dunalley fire-ground during January 2013, in order to reflect and draw out lessons from that experience, and to identify potential learning opportunities for others.
- The first step was critical to help those on the ground make sense of their experience and unpack what they had been through.
- Those involved in the first step were asked if they were willing to share their stories with others.



### THE CONTEXT

### **Setting The Scene**

The Inala Rd Fire was a catastrophic fire that "did not act like a normal fire". It commenced on Thursday 3 January 2013, burning in the inaccessible Redhills area off Arthur Highway. With a weather change around 1pm on Friday the fire took off quickly, reaching and devastating the township of Dunalley and other coastal townships before moving through the Tasman Peninsular. It was declared contained on January 27, and handed back to local control with the incident confirmed complete on March 20.

#### The Inala Rd Fire caused the following damage:

- 193 dwellings
- power infrastructure
- 116 buildings
- businesses
- 70 vehicles
- 1 school
- 22 caravans
- 24,000 Hectares
- 18 boats

### WHAT IS A FIELD RIDE?

- The design of The Ride drew from the processes and format of the "Staff Ride". A highly regarded program used by the Wildfire Lessons Learnt organization in the USA (Sutton & Cook, 2003) and recently trialed in Australia by the Parks and Wildlife Service, Tasmania (PWS) at Narawntapu and the Department of Sustainability and Environment, Victoria (DSE) at Cobaw.
- It is a highly experiential and immersive learning program which revisits the ground of an incident and enables a walk through of what happened.
- We called it a Field Ride because we wanted to include career staff and volunteer members.

#### Table 1—Priorities



### Leadership What were their insights from fighting a fire that was out of control and impacting on a community? - "Some community members were "in denial" about what they Cultural were facing making comments such as "it won't be that Change bad". This placed particular stress on those of us trying to manage on the fire-ground" Professional Development Leadership and no blame - Were crews directed to places that were safe? What constitutes a safe place under catastrophic fire weather conditions? - Given that we had no real-time detailed knowledge of fire-spread (except what we were Just Culture directly experiencing and learning from one another) knowing where was safe (now or in the immediate future) was particularly challenging Organisational Learning Learning "The event provided a rare opportunity to think - not just about processes and solutions - but how we think and feel, revealing a whole new perspective on the The Field Ride event. I learned far more from the field ride than I have from any debrief in the past, and as a result I have positively changed my attitude towards how I will do things in future."

Table 2—Managing Cognitive Challenges & Mental Shifts

| House affected Sefficient resources.  3-4 trudes or a house Warnings, protect property protection (baddom? after of certificial periods on the control of the control of the control through periods of the control of the control through periods of the control of | Houses affected Limited reposers for statutoria. Nassons myfer difficult to part out. It set a printibing. Give wasning wheat of the fire coming through and encourage heading partiest people who stay, integer properties (populate important assert), errors the reposers to form the properties of the p | Town affected (It's behavior and narrow) (It's behavior and narrow) (It's behavior spile) failer, (It's behavior spile) failer, (It's behavior spile) failer, (It's behavior spile) | Town and region affected  Crew yeard look and off the year and look and year and the year and year. |
|---|--|---|--|
| Mindset: We can<br>achieve our gook.<br>Stuation only requires<br>normal procedures.  | Mental shift - Leave<br>houses to burn - we can't<br>save everything, can't<br>schiese all the priorities.<br>This is moving out of<br>normal.   | Mental shift. Leave behind groups who will not have to another jump thicking run save the forest to minimizing impact. The boundary of what is wall change.   | Montaishift. Detarliment, "People will die", property is not important, foran on trying to save people.  |

A Leadership Culture that is willing to listen to other people's stories so individuals and the organisation can learn and adopt.

A need to shift from sweeping vulnerabilities under the carpet to being open and receptive. This resourcing and support encourages people to share their stories.

Considerable investment has been made in tailored programs.

Story telling from adverse events must occur in the context of a "just culture" so personnel do not fear blame and judgement.

A number of learning tools were used (e.g. Professional Development, Table 1 and 2) and others developed to help inform decision makers.

### STORY TELLING MATTERS

The ride aims to foster reflection in a non-blame environment, by encouraging participants to understand the reasons behind their decision-making. By hearing the narrative of a complex and dynamic event as revealed in detailed stories of the personnel directly involved, it is possible to see things that might not normally be visible to participants, thus providing alternative ways of examining and reflecting on an event.











