Overtraining for High Reliability

Increasing Organizational Resilience







Protecting nature. Preserving life™

Protected...

48 million hectares 8,000 kilometers of rivers worldwide 100 marine conservation projects



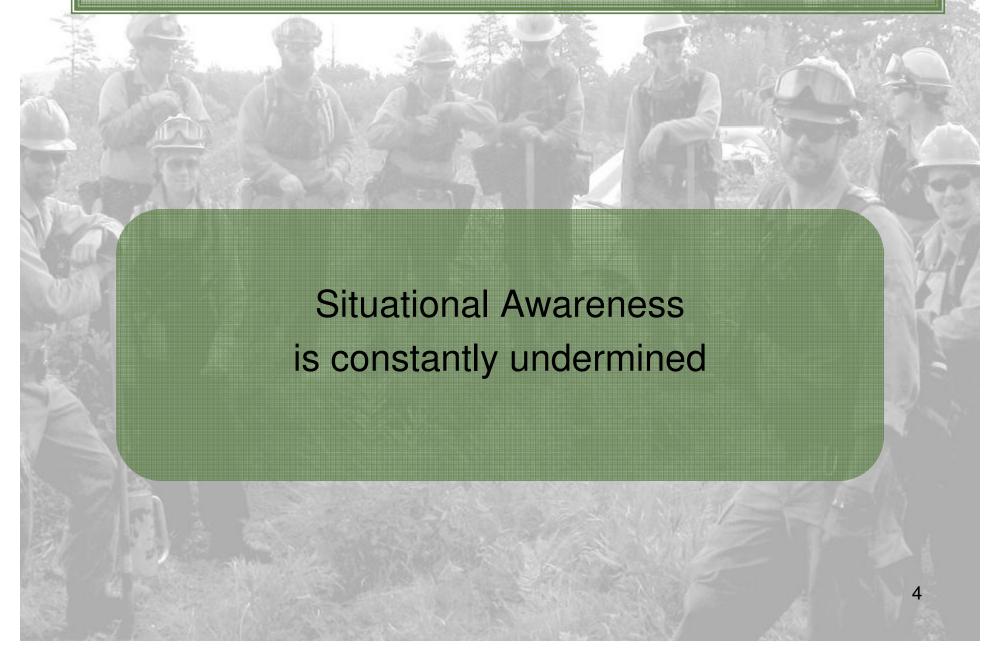


Protecting nature. Preserving life™

Prescribed Burning...

585,000 TNC hectares since 1988 47,000 TNC hectares in FY10 3 x that on partner lands in FY 10 Active burn programs in 33 states





Human condition

- No perfect people
- No perfect systems
- **©** Error is pervasive
- **4** The unexpected is pervasive
- Reliability cannot be banked

Subtle forces feeding cognitive shortcuts

Expectations

- Seek confirming evidence
- Undervalue disconfirming evidence
- Slow to realize the unexpected has occurred

Success

- Overconfidence in abilities
- Discount criticism

Modes of failure

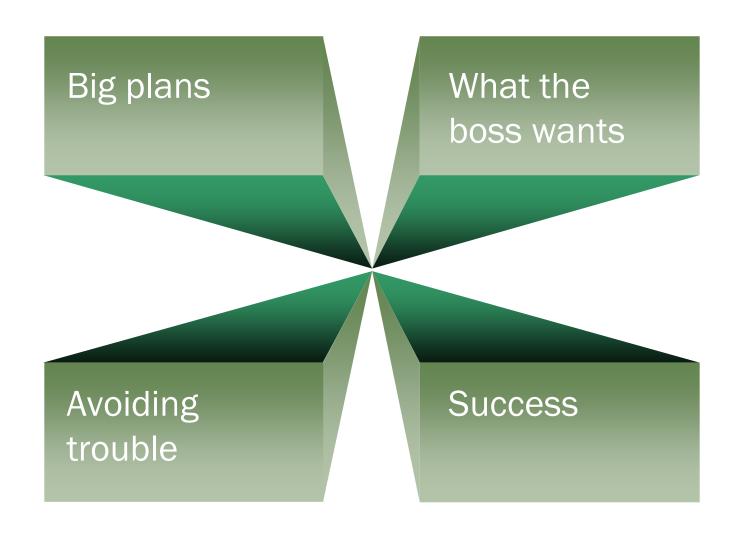
- Not all have been experienced
- Not all have been imagined



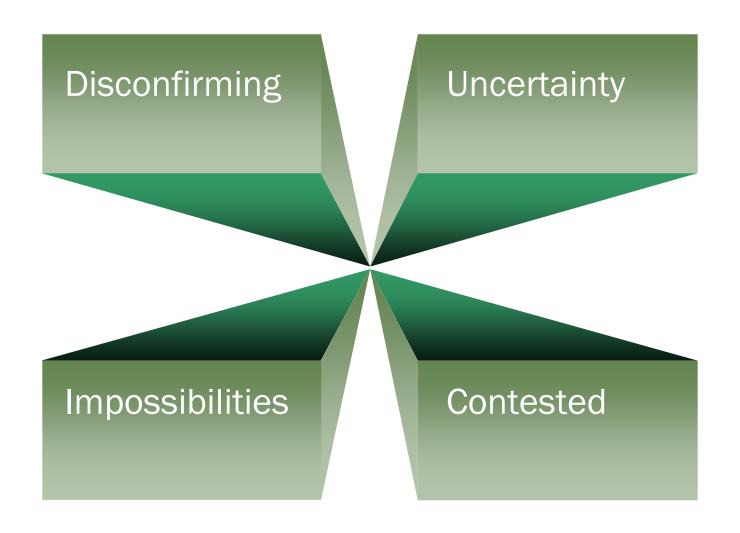
Mindlessness

- Deluded by expectations
- Intoxicated by success
- **19** Ignorant of new modes of failure

Sensitivity to strategy



Sensitivity to operations



What do you emphasize – Strategy or Ops?

Pleasures of

- Plans
- What the boss wants
- Success
- Avoiding trouble

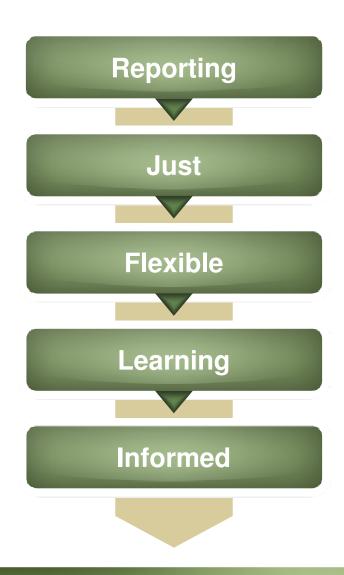
Discomfort of

- Evidence that disconfirms expectations
- The uncertain
- The contested
- The impossible

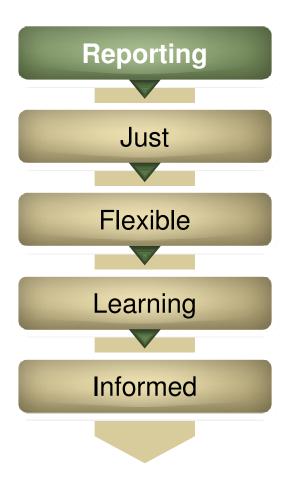


Forces undermining mindfulness



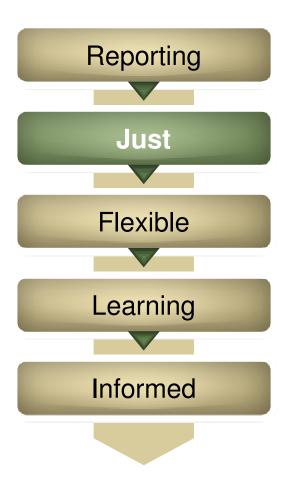






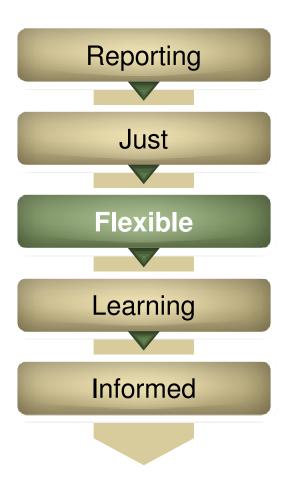
- Expectation that incidents and near misses are reported
- Management leads by example
- No sweeping problems under the rug





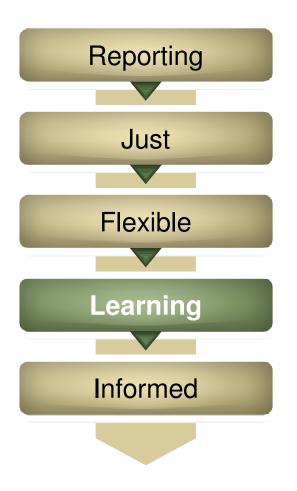
- Trust in appropriate consequences
- Free lessons shared or hidden?
- Care and concern





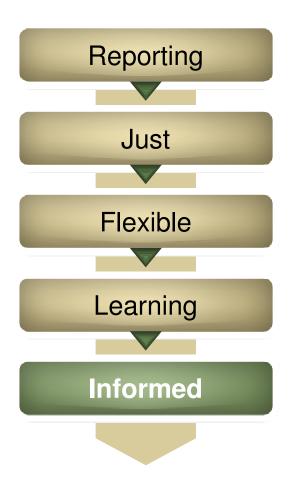
- Adaptable to changing demands
 - Assumption that system is in danger until proven otherwise
 - Inconclusive evidence of danger spurs digging deeper for more information





- Ongoing debates about discrepancies
- Inquiry, doubt and updating encouraged





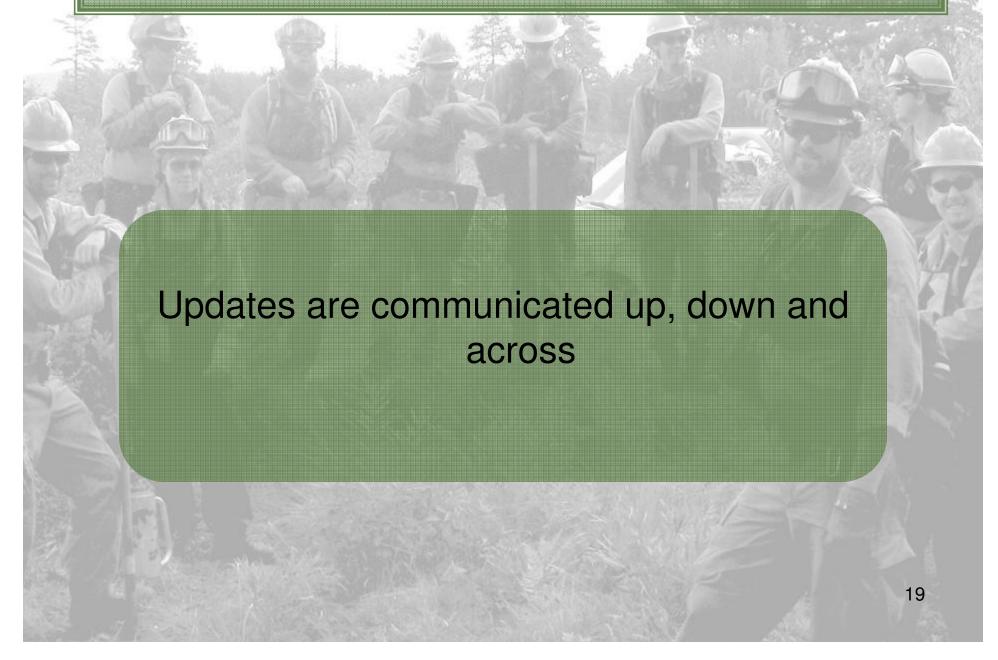
- Members have current knowledge of factors impacting safety
- Intelligent wariness
- Trust among members is key



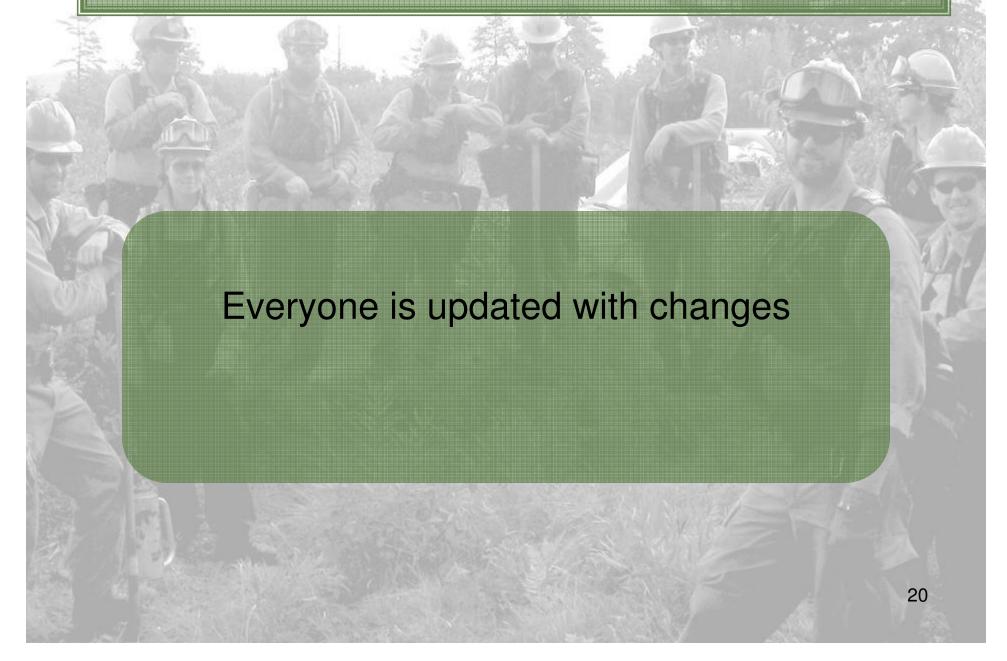














- Choose two of your important strategies
 - One for home unit, one agency wide
- Complete the audit with those strategies in mind

Training practices for high reliability

Tactical Decision Making

- Sandtable exercises
- Incident management simulations
- Role playing field scenarios

Lessons Learned

- Periodic review with updates shared across unit/agency
- Informs overtraining priorities for upcoming season



Impact on Mindfulness

Critical skills become 2nd nature

✓ Hones the thought processes of incident commanders

✓ Allows for maximum attention to be devoted to creative solutions

✓ Affirms the organization's commitment to high reliability



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