## Civil Aviation Authority of New Zealand

### Flying The Now

A Human Performance Challenge?

Matt Harris – Safety Investigator



#### Healthy Paranoia

**Professional Unease** 

Mindfulness

**Practiced Mistrust** 



"the pilot failed to perceive the visual stimuli, experiencing inattentional blindness"

"inability of the flight crew to determine when parameters were inappropriate"

"not detected by the flight crew until well into the take-off run, if at all"

"the pilot did not recognise that the aircraft he pilot did not recognise that the manoeuvre" was too low to complete the manoeuvre



#### **Situational Awareness**

Appreciating all you need to know about what is going on, relating to the task at hand.

Or,

What?, So What? and What Next?

Long term memory structures (mental models)

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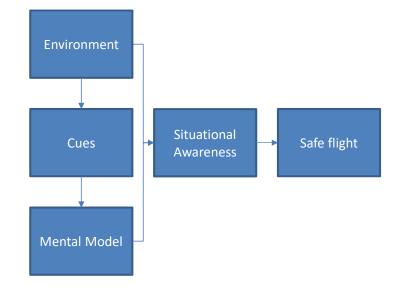
Comparison to the environment

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Understanding of the current situation.

Sensory channels (visual, auditory, etc.) detect changes in the environment.

Attentional processes select, organise and interpret the data from the senses.

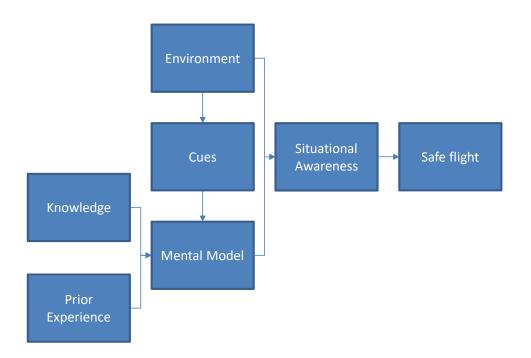




#### **Mental Models**

Mental models are representations of the world, based on the Pilot's:

- Knowledge
- Experience
- Ability to Sense and Perceive Cues





Always Asking Yourself What Could Happen, What If? Focused Attention

Thinking All The Time
/ Thinking Ahead

Threat and Error
Management

Healthy Paranoia
Professional Unease
Mindfulness
Practiced Mistrust

Being In The Now

Open-

Monitoring

Not Relying

Practicing

Practicing For The Worst

On Automated

Alerts



# What does it truly mean to be flying in the now?

