

Command and Control

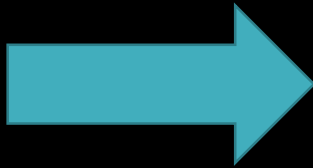
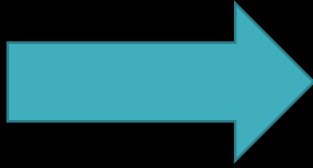
The Influence of Flight Crew Role Assignment on Flight Safety

Stuart Beveridge BAv, MScTech (UNSW), MRAeS



Supervised by Dr Simon Henderson
School of Aviation, UNSW Sydney







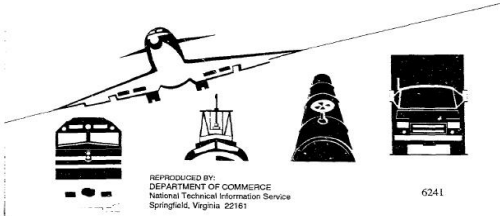
PB94-917001
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SAFETY STUDY

A REVIEW OF FLIGHTCREW-INVOLVED,
MAJOR ACCIDENTS OF U.S. AIR CARRIERS,
1978 THROUGH 1990



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6241



Guidance Material for Improving Flight Crew Monitoring

1st Edition

NASA/TM—2010-216396




Checklists and Monitoring in the Cockpit: Why Crucial Defenses Sometimes Fail

R. Key Dismukes
NASA Ames Research Center, Moffett Field, CA


Ben Berman
San Jose State University Foundation, San Jose, CA

July 2010




A Practical Guide for Improving Flight Path Monitoring

FINAL REPORT OF THE ACTIVE PILOT MONITORING WORKING GROUP



NOVEMBER, 2014



Loss of Control Action Group





Monitoring Matters

Guidance on the Development of Pilot Monitoring Skills
CAA Paper 2013/02





Air Line Pilots Association, International
 American Airlines
 Atlas Air
 Boeing
 Delta Air Lines
 Federal Aviation Administration
 FedEx Express
 jetBlue
 LOBA Collaborative
 National Aeronautics and Space Administration
 National Transportation Safety Board
 Southwest Airlines Pilots Association
 US Airways
 U.S. Navy

ACTIVE PILOT MONITORING WORKSHOP



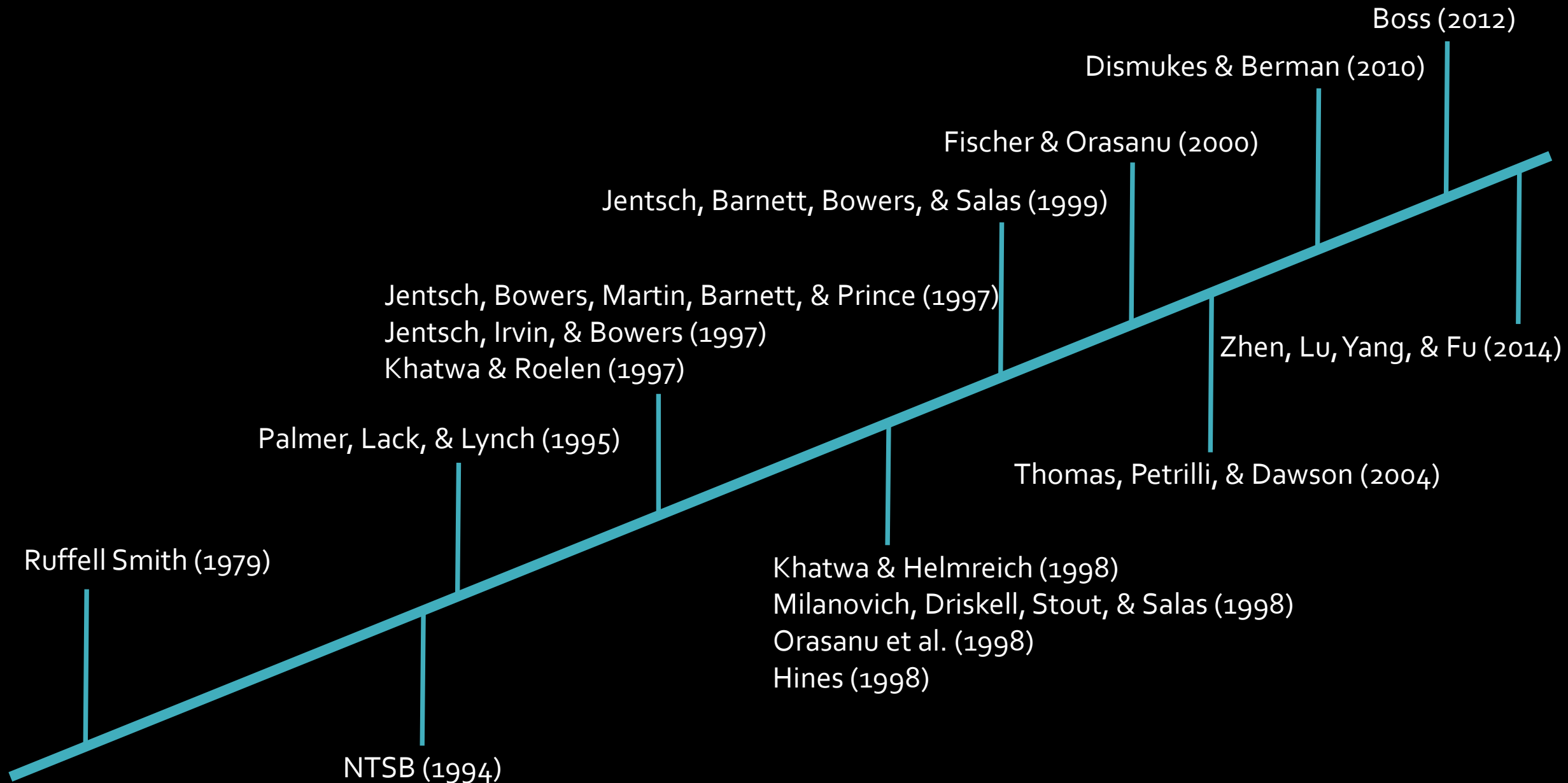
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Delta Air Lines
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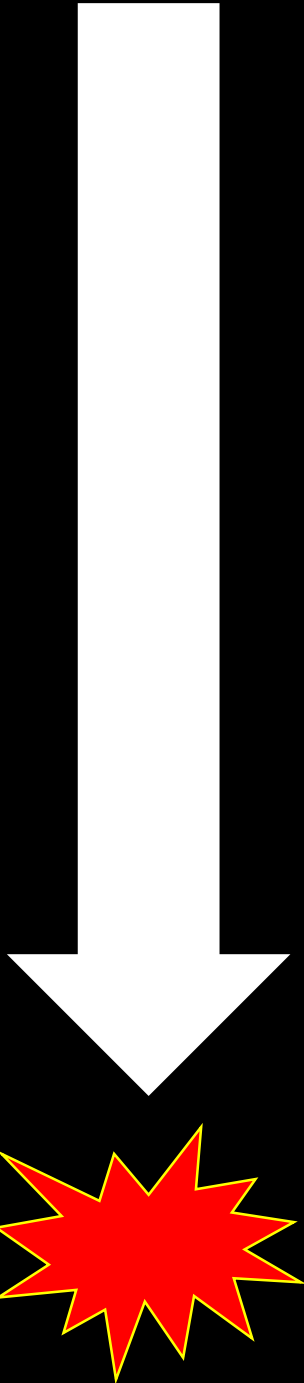
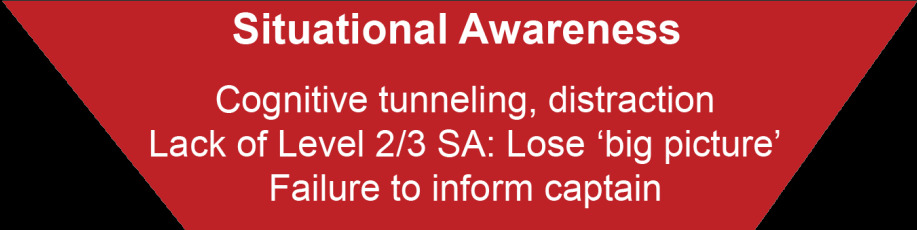
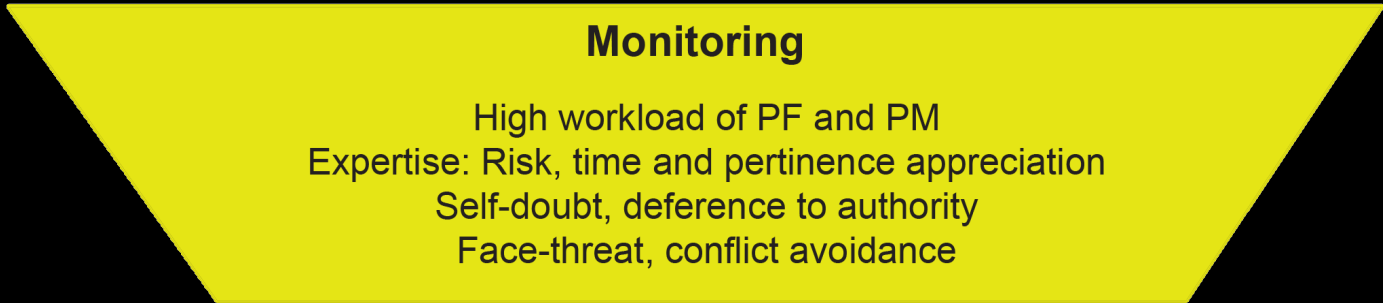
Operational Use of Flight Path Management Systems

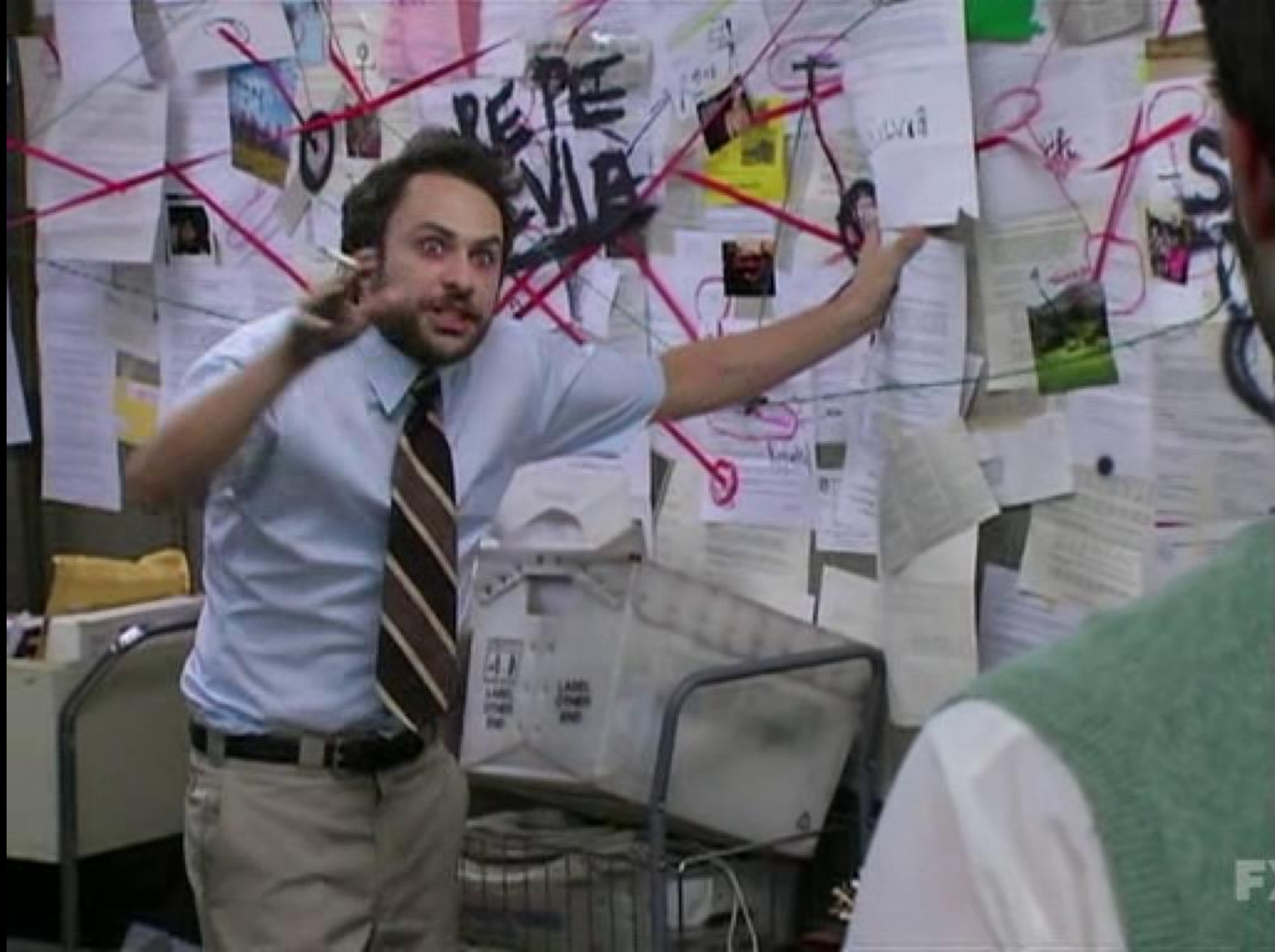
Final Report of the Performance-based
operations Aviation Rulemaking Committee/
Commercial Aviation Safety Team
Flight Deck Automation Working Group

September 5, 2013











What can we do?

- Address research gaps
- Reassess focus on monitoring
- Review regulations & policy
- Reconsider aircraft equipage

and...



Redesign flight decks?



Thank you!

*Beveridge, S.D.H., Henderson, S.T., Martin, W.L., & Lamb, J.B.
Command and Control: The Influence of Flight Crew Role Assignment on Flight Safety
Aviation Psychology and Applied Human Factors (In Press)*

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