



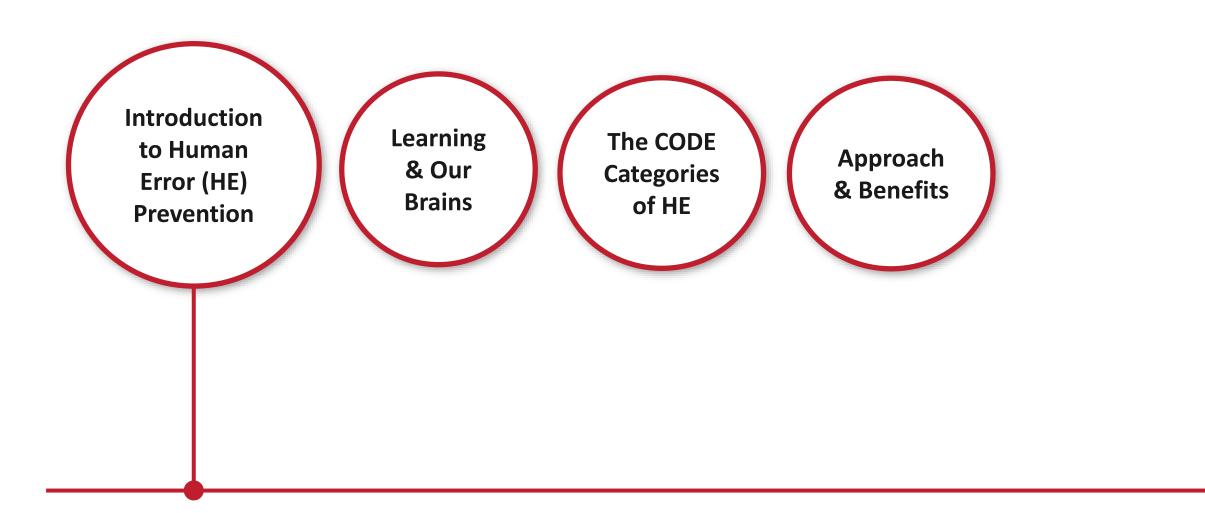
Enabling Safety & Quality Culture through Human Error Prevention

Presented by

Maria Ryan & Christy Murphy Crystal Lean Solutions

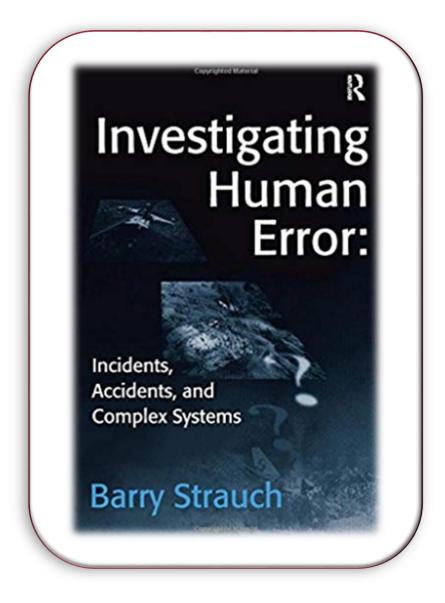
Objectives





Human Error Defined





Definition

"An action or decision that results in one or more unintended negative outcomes

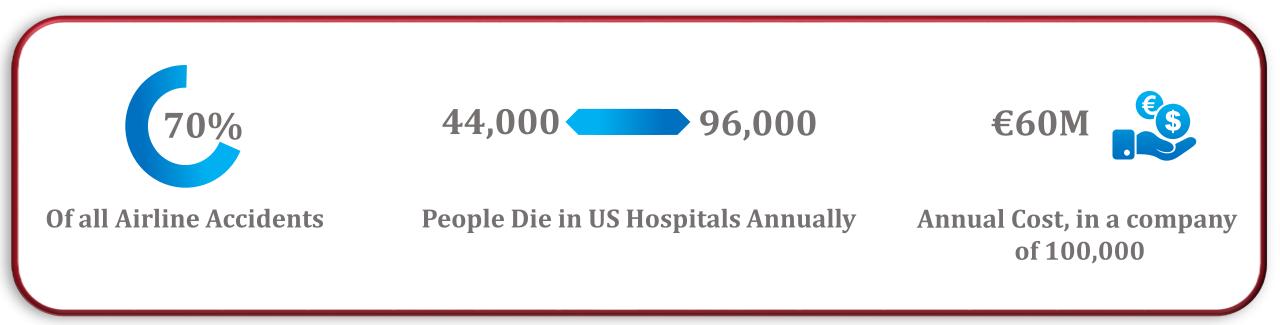
Strauch, 2004

Assumptions

- Nobody wants to make an error at work
- Everyone does best with available resources

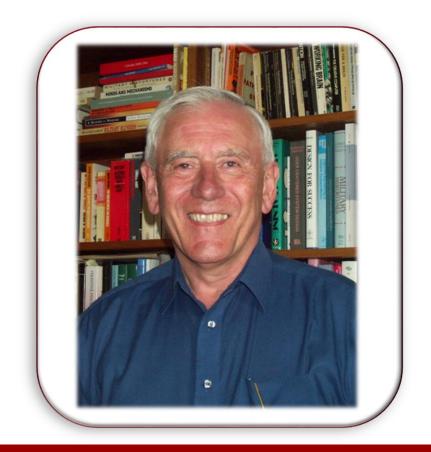
Human Error Statistics

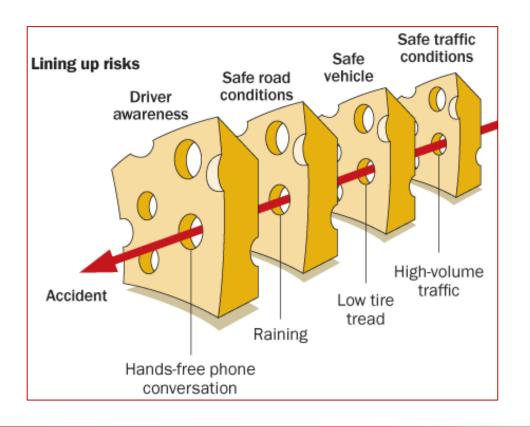




Origins of Human Error Prevention





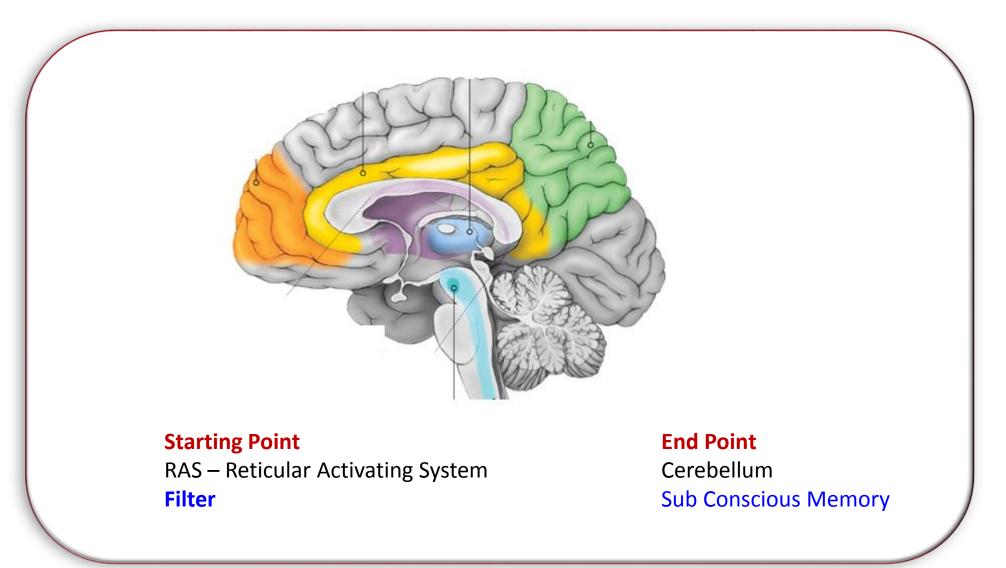


"Workplaces and organizations are easier to manage than the minds of individual workers. You cannot change the human condition, but you can change the conditions under which people work."

Dr. James Reason

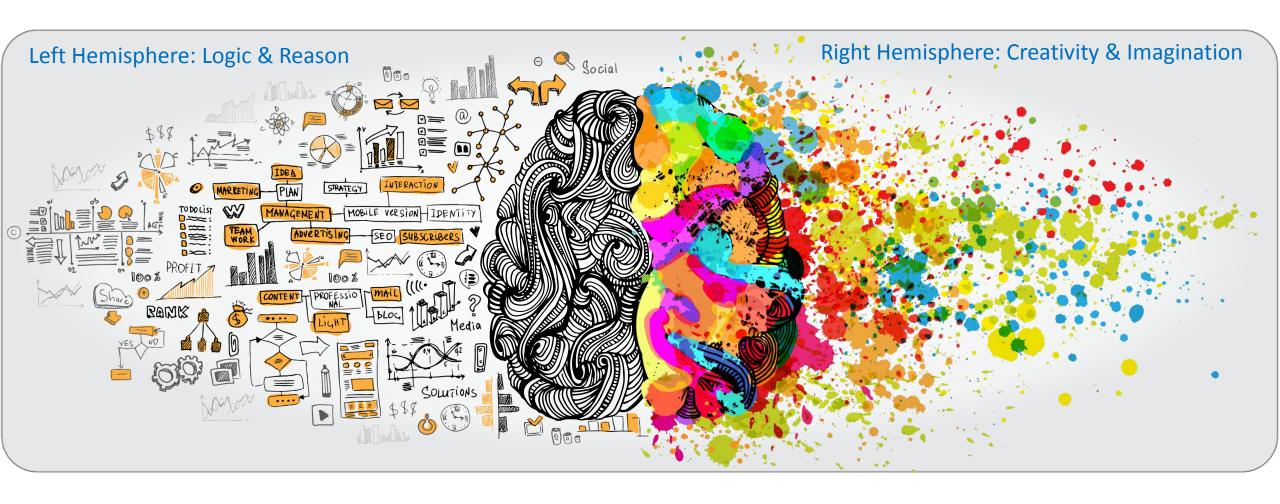
Learning . . . Our Brain Mechanism





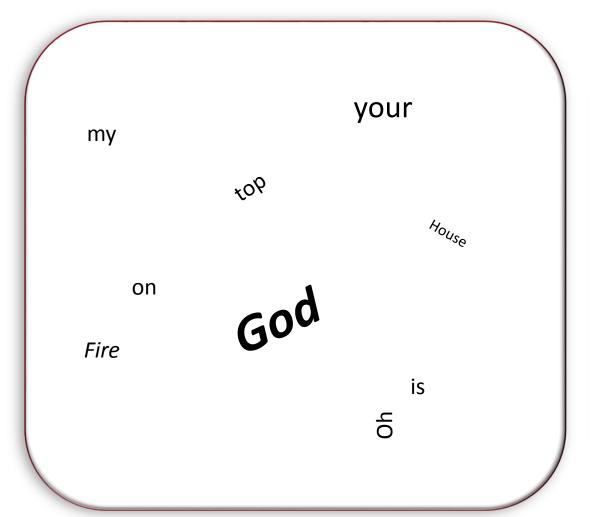
Hemispheres





Example of Left and Right Brain in Action







When We Don't Have the Full Picture . . .

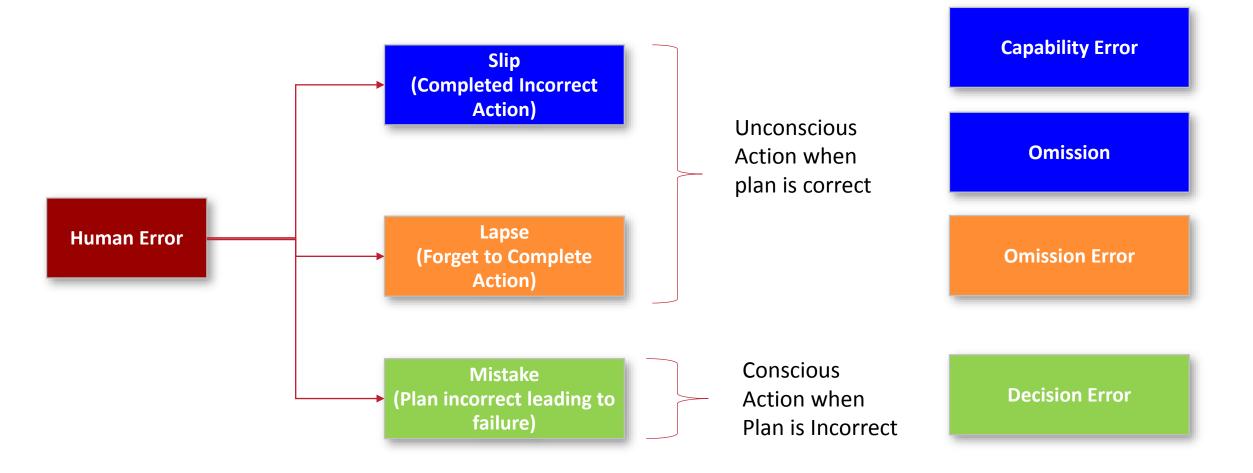


"It deosn't mttaer in waht oredr the Itteers in a wrod are, the olny iprmoetnt tihng is taht the frist and Isat Itteer be at the rghit pclae. The rset can be a toatl mses and you can sitll raed it wouthit porbelm. Tihs is bcuseae the huamn mnid deos **not** raed ervey Iteter by istlef, but the wrod as a wlohe.

... Our Brains Will Fill in the Gaps!

Error Types

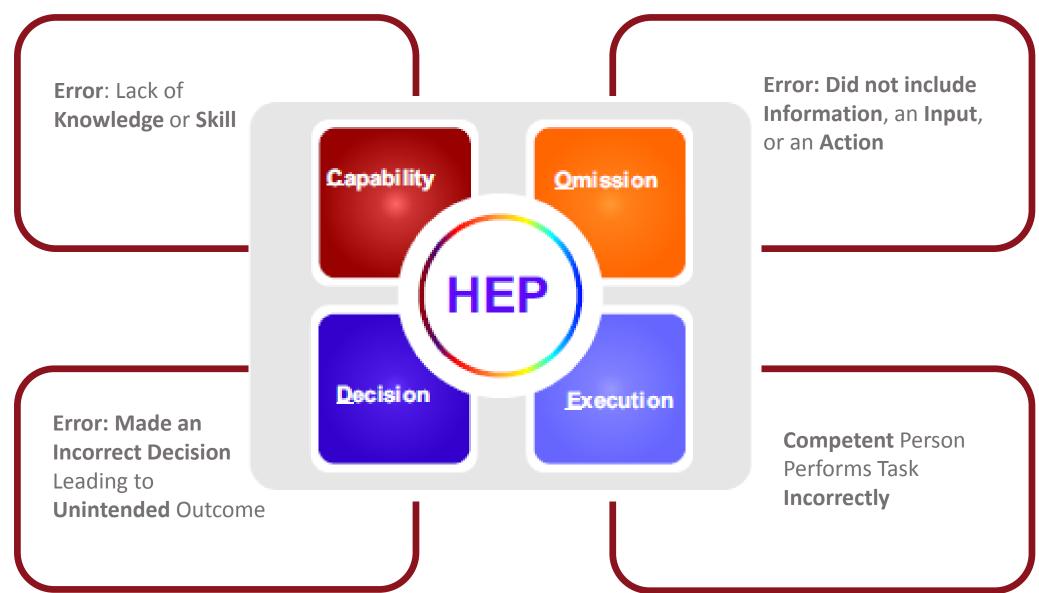




Dr. James Reason

The CODE





Capability Human Error – Scenario Planning







January 15th 2009: US Airways Flight Airbus A320 land in Hudson River All 155 Passengers survive

Omission Error – Distraction







Decision Error – Bystander Effect







Definition: Individuals are less likely to offer help to a victim when other people are present

Execution Error – Intuitive Design





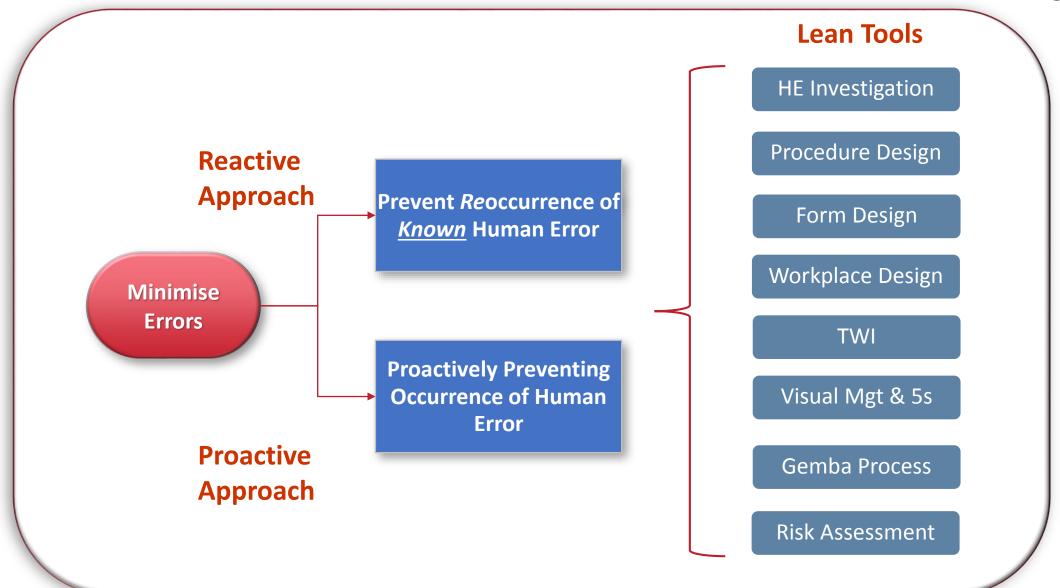
Issue: Not intuitive to use



Action: Design so user does not have to think about how to use process

Approach to Minimising Human Error Risk





Proactive Human Error Prevention Strategy





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Benefits of Approach





- ✓ Zero Reoccurrence of Errors
- ✓ Minimise Risk of Errors



✓ Enable Growth safely

Creating a Culture of Problem Preventers

Summary





- Systematic Approach to Build and Sustain a Culture of Human Error Prevention
- CODE Categories of Error that can be contained or prevented
- Enhances Safety Culture
- Enhances Quality Culture





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