



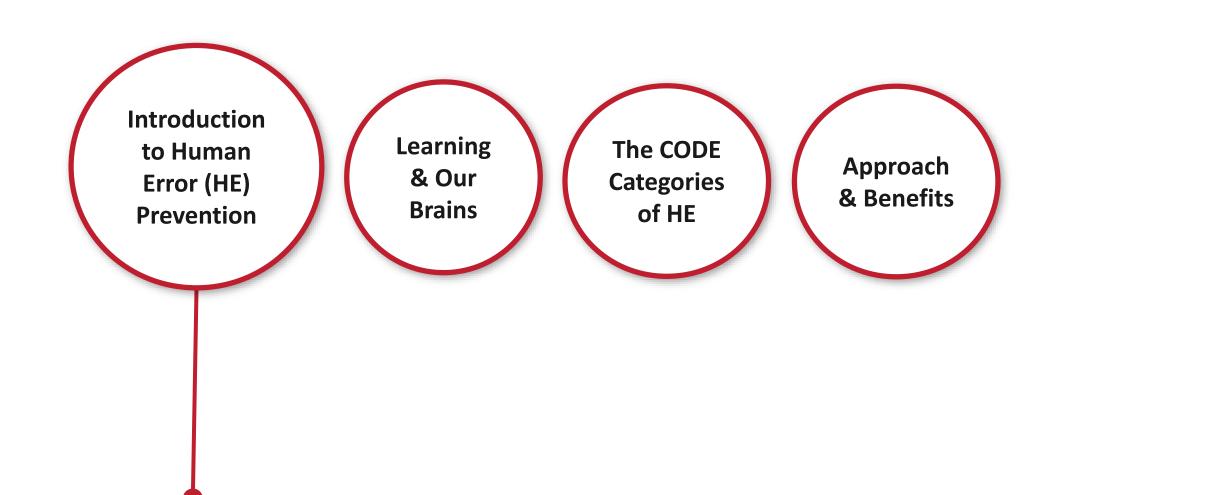
Enabling Safety & Quality Culture through Human Error Prevention

Presented by

Maria Ryan & Christy Murphy Crystal Lean Solutions

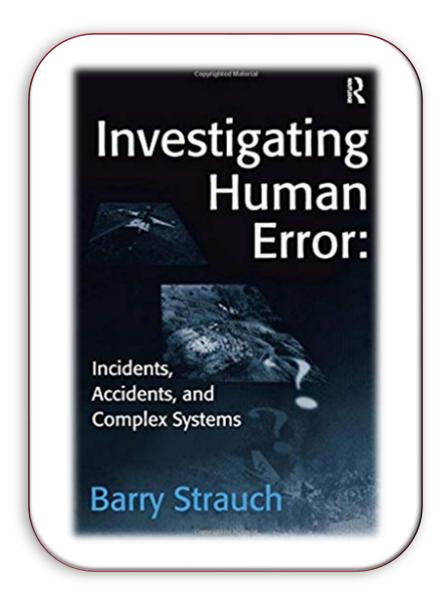
Objectives





Human Error Defined





Definition

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

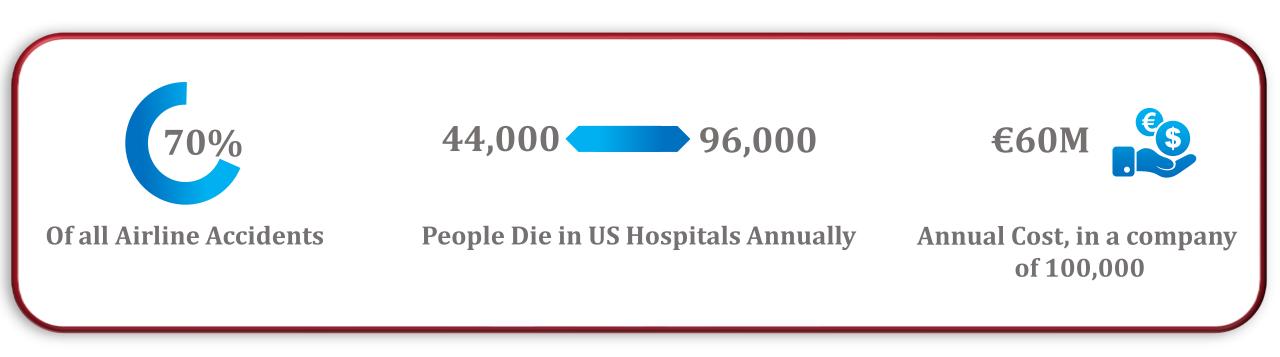
Strauch, 2004

Assumptions

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

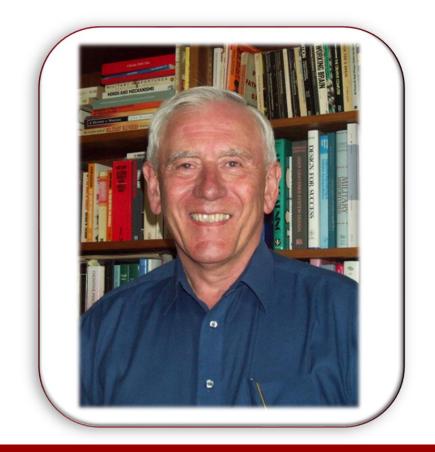
Human Error Statistics

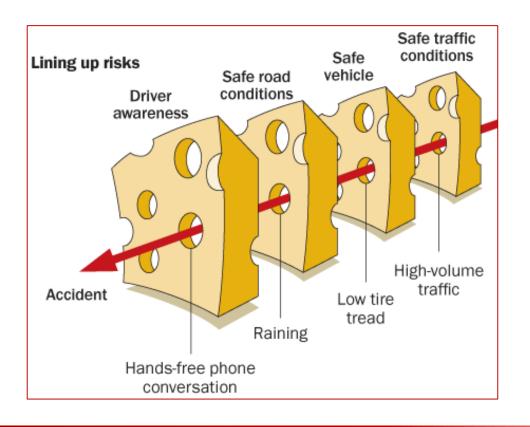




Origins of Human Error Prevention





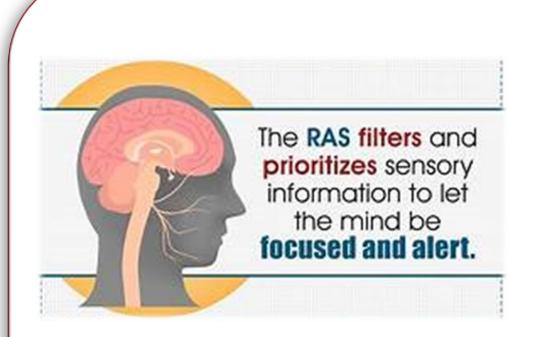


"Workplaces and organizations are easier to manage than the minds of individual workers. You cannot change the human condition, but you can change the conditions under which people work."

Dr. James Reason

Learning . . . Our Brains Mechanism





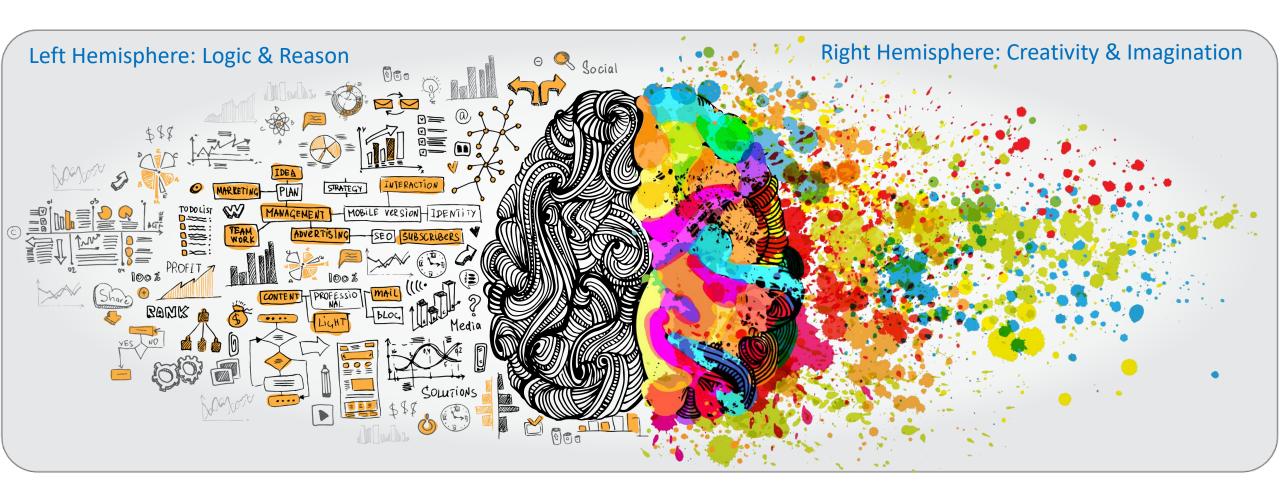
RAS – Reticular Activating System



Cerebellum "Little Brain"

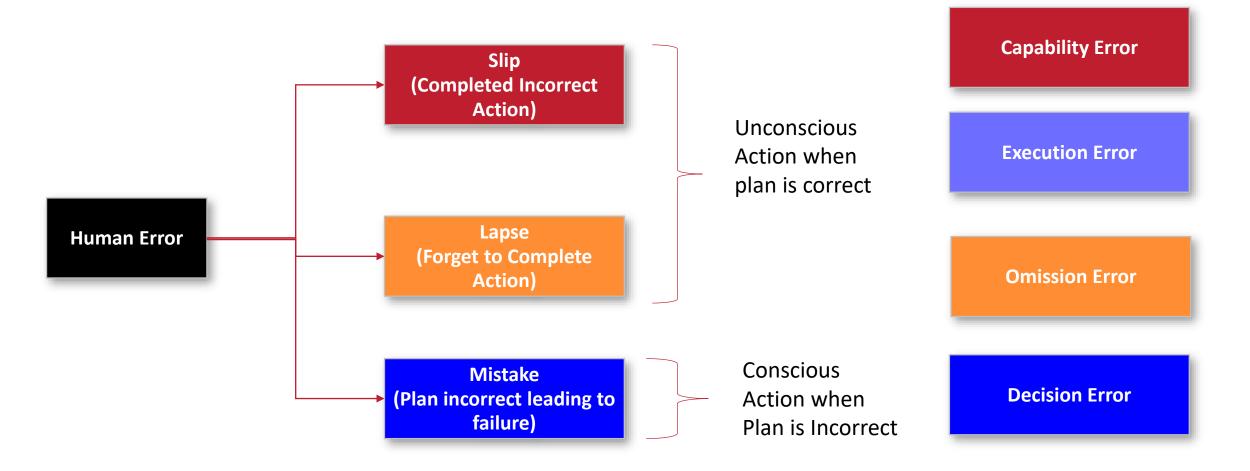
Hemispheres





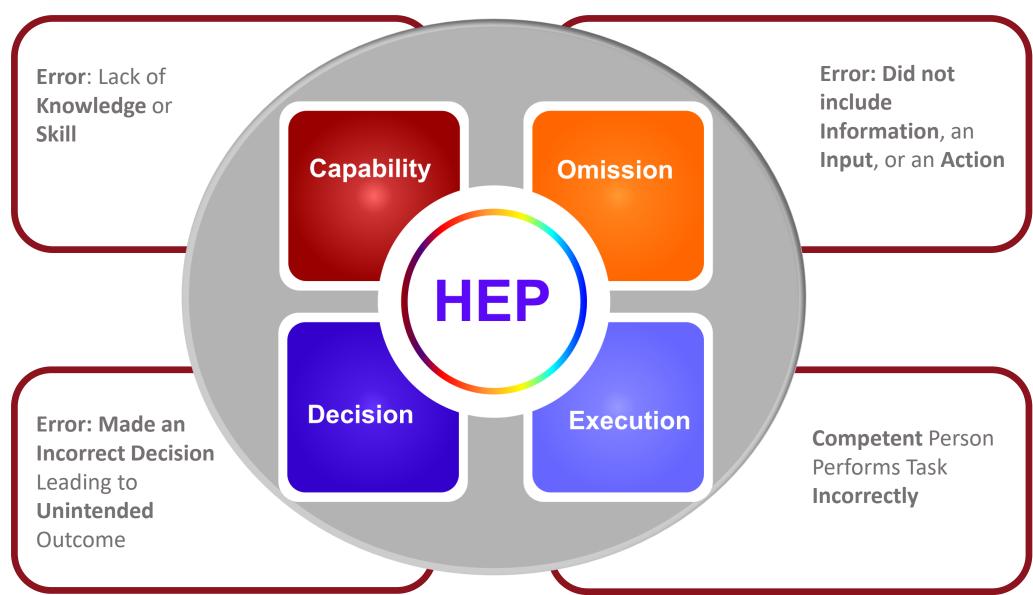
Error Types





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

Proactive Human Error Prevention Strategy





Key Outcomes





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

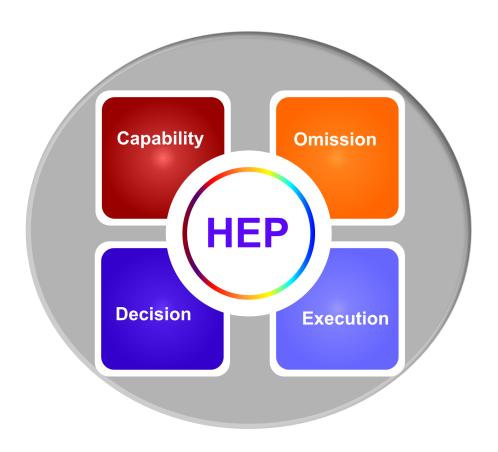


✓ Enable Growth safely

Creating a Culture of Problem Preventers

Summary





- Systematic Approach to Build and Sustain a Culture of Human Error Prevention
- Enhances Safety Culture
- Enhances Quality Culture





What Questions Do You have?

info@crystalleansolutions.ie