

Safety Management Systems & its role in Accident Prevention

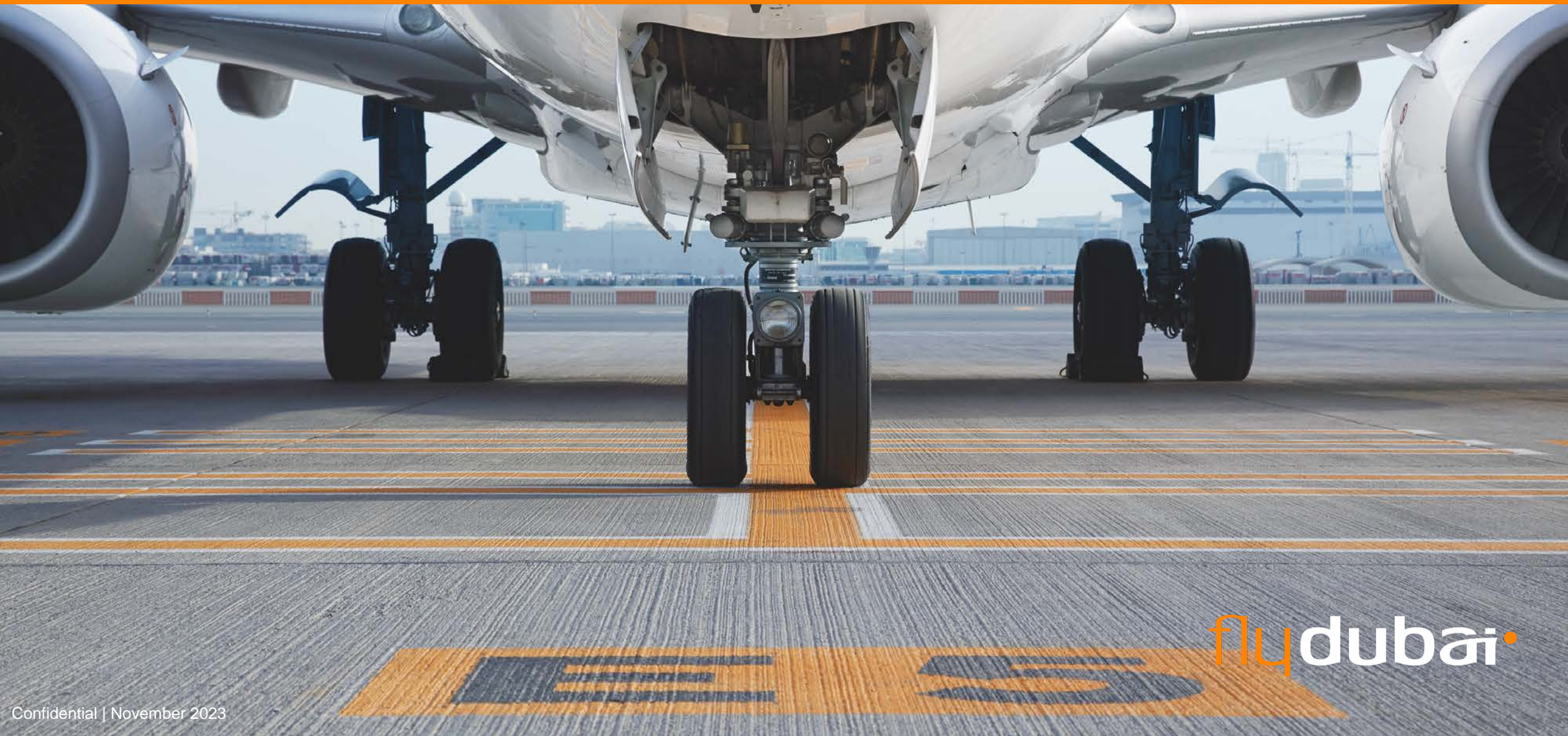
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Where It Starts ?



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Safety Defined

*The state in which **risks** associated with aviation activities, related to, or in direct support of the operation of aircraft, are reduced and controlled to an acceptable level.*

The Evolution of Safety

- *"What happened?"*
- *"Whose fault is it?"*
- *Band-aid approach*
- *Blame culture*
- *Hindsight view*
- *Reactive*

The Technical Era



Human Factors Era



Organisational and SMS Era



The Total System Approach Era

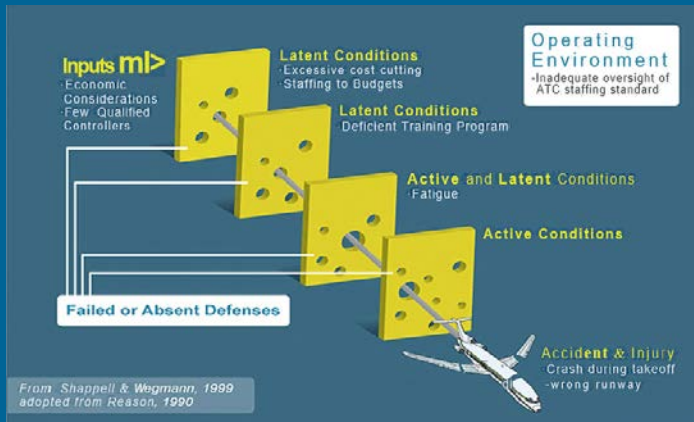


- *"How did it happen?"*
- *"Why did it happen?"*
- *System approach*
- *Just culture*
- *Predictive*
- *Domain-focused tailored*
- *Collaborative*



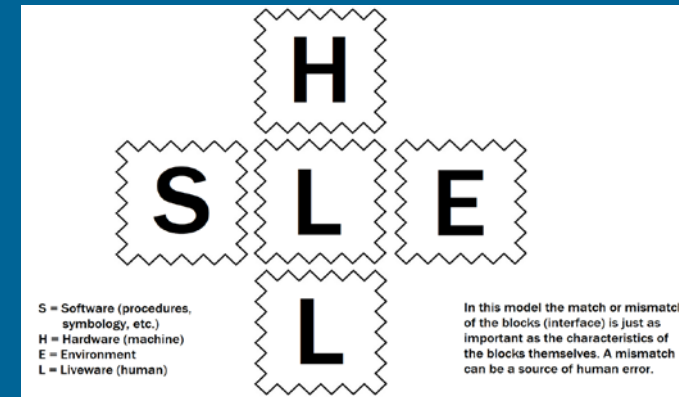
Safety Concepts & Accident Causation

Accident Causation Model



***Latent Conditions:** Conditions (hazards) present in the system **before** the accident, made evident by triggering factors.

SHELL Model



Analyses the interactions of human factors between Software, Hardware, Environment, and Liveware.

Safety Enhancement Initiatives



Intellectual Stimulation

FAA InfoShare

Boeing Safety Conference

Boeing MEDA training

IATA Safety Conference

GCAA Safety Conferences



Collaboration

Stakeholder collaboration

Safety data & Information sharing
& exchange

IATA Collaborative Safety Groups

ICAO Safety Management Panel

GCAA Collaborative Safety Team



Innovation & Continuous Improvement

Empowerment

Safety Culture

Up to date training
methodologies

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The Enablers



Safety Policy

Clear

Concise

Displays commitment

Promotes just culture

Periodically reviewed



Leadership involvement

Participation in safety related conferences and training

Active presence

Engagement/collaboration with vendors and service providers

Gaining knowledge in the latest innovations

Effective stakeholder relationship management



Training

Well established training management system

Conventional, evidence & competency based training programs

Adapts to latest developments, requirements & standards



Promotion

Bulletins, Newsletters

Screen savers (Laptops and PCs)

Safety TVs

Safety roadshows/ open days

Continuous engagement

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Thank You

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