

MAYDAY! MAYDAY! MAYDAY!

Learning from aviation to prevent disaster

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Mistake



"Master, what is wisdom?" "Never make mistakes" "And how can I become wise?" "By making mistakes!"

Zen Master Seung Sahn

TransAsia Airways Flight GE235

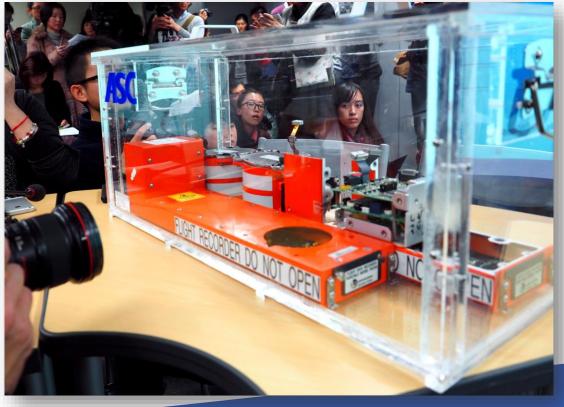
4 February 2015. 10:55 LT - Republic of China

Aircraft type: ATR 72-600
Operator: TransAsia Airways
Flight origin: Taipei Songshan Airport. SongSahn. Taipei (Taiwan)
Destination: Kinmen Airport, Kinmen (Taiwan)
Passengers: 53
Crew: 5

Fatalities: 43

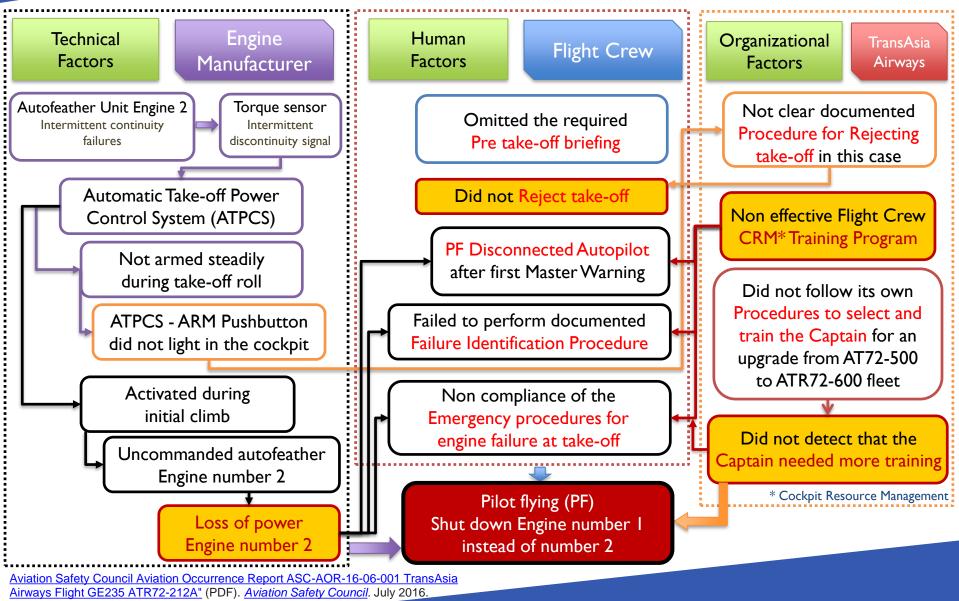
Survivors: 15

Ground injuries: 2



Causes of the accident

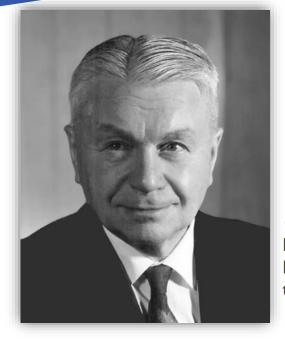
Every accident, no matter how minor, is a failure of the organization Jerome F. Lederer



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Retrieved: January 2019

What is Safety?



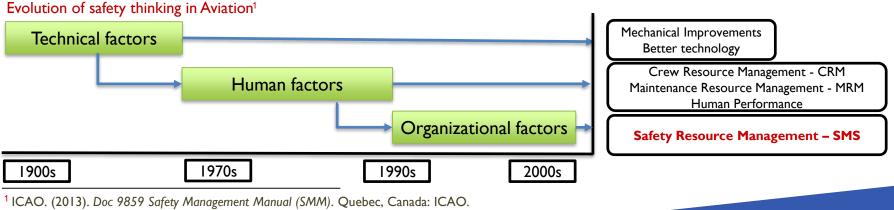
Risk management is a more realistic term than safety. It implies that hazards are ever-present, that they must be

- Identified
- Analysed
- Evaluated
- Controlled or rationally accepted

Jerome F. Lederer

NASA director of the Office of Manned Space Flight Safety for the Apollo Program

Right now the odds of any one flight being your last one is remote: I to II,000,000



FAA. (2016). Safety Management System. Wahington, USA: U.S. Department of Transportation

Retrieved from https://www.faa.gov/about/initiatives/sms/explained/basis/

Safety Management System - SMS

procedures, practices, and policies

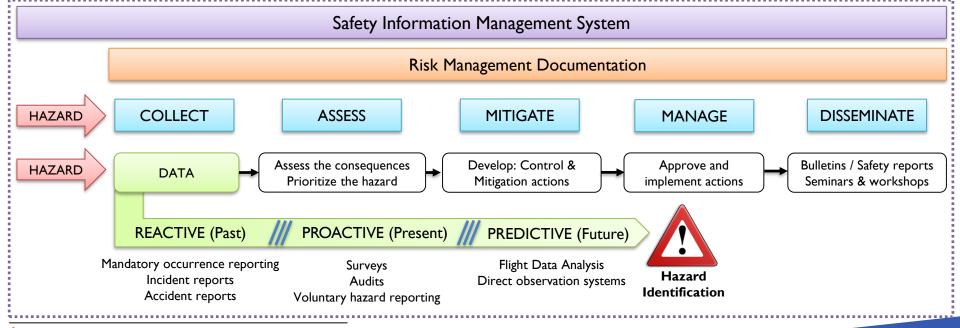
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SMS is the formal, top-down, organization-wide approach to managing safety risk and assuring the effectiveness of safety risk controls. It includes systematic

4 SMS COMPONENTS²

		for the management of safety risk.
I. SAFETY POLICY Establishes senior management's commitment to continually improve safety; defines the methods, processes, and organizational structure needed to meet safety goals	2. SAFETY RISK MANAGENT SYSTEM Determines the need for, and adequacy of, new or revised risk controls based on the assessment of aceptable risk	POLICY SRM SAFETY PROMOTION
3. SAFETY ASSURANCE Evaluates the continued effectiveness of implemented risk control strategies; supports the identification of new hazards	4. SAFETY PROMOTION Includes training, communication, and other actions to create a positive safety culture within all levels of the workforce	

2. Safety Risk Management - SRM: Hazard documentation and follow-up risk management process



²ICAO. (2013). Doc 9859 Safety Management Manual (SMM). Quebec, Canada: ICAO.

Digital Preservation



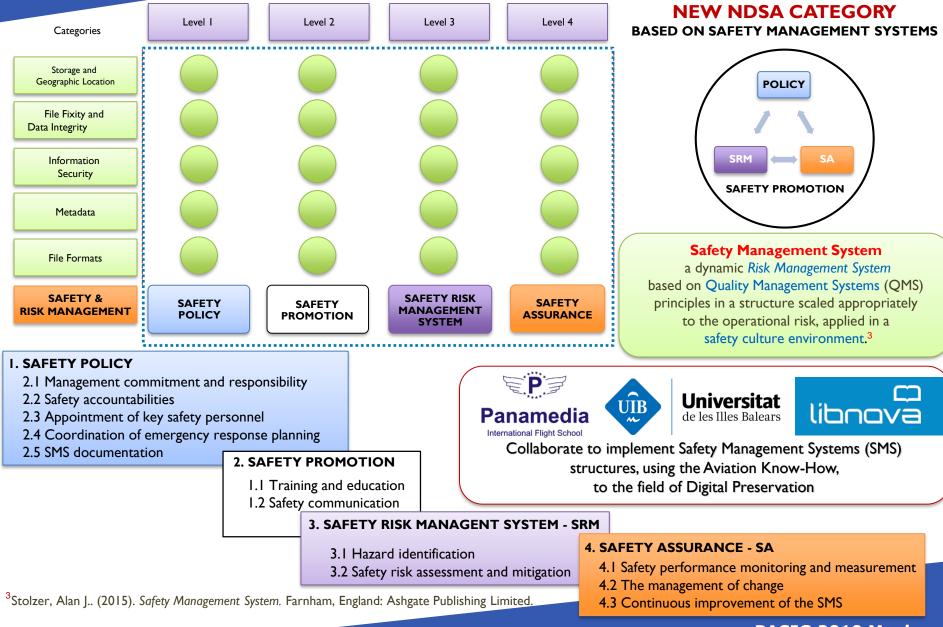
NDSA Levels are not designed to manage safety risk and, therefore,

to detect potential risks associated with technical,

human and organizational factors

NDSA Levels of Digital Preservation

One more step One new proposal



Where are we in Digital Preservation? We are in the 1970s in terms of safety

compared with the Aviation and Aerospacial industry







