



Tenerife Airport Disaster

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Overview

- Terrorist attack at Gran Canaria Airport
- Too much traffic due to terrorist attack on the main island
- 2 jumbo jets (KLM and Pan Am airways) crashed into each other.
 - **583 people died**
 - **61 people were rescued**



Overview

- Tenerife Airport has only 1 runway and 1 taxi-way
 - **Due to traffic on airport, planes parked at taxi-way rather than apron**
 - **Planes that will depart have to use actual runway to taxi**
- Location of Tenerife Airport
 - **Located in Tenerife Island**
 - **600 meters above from sea level**
 - **Constant fog due to height**

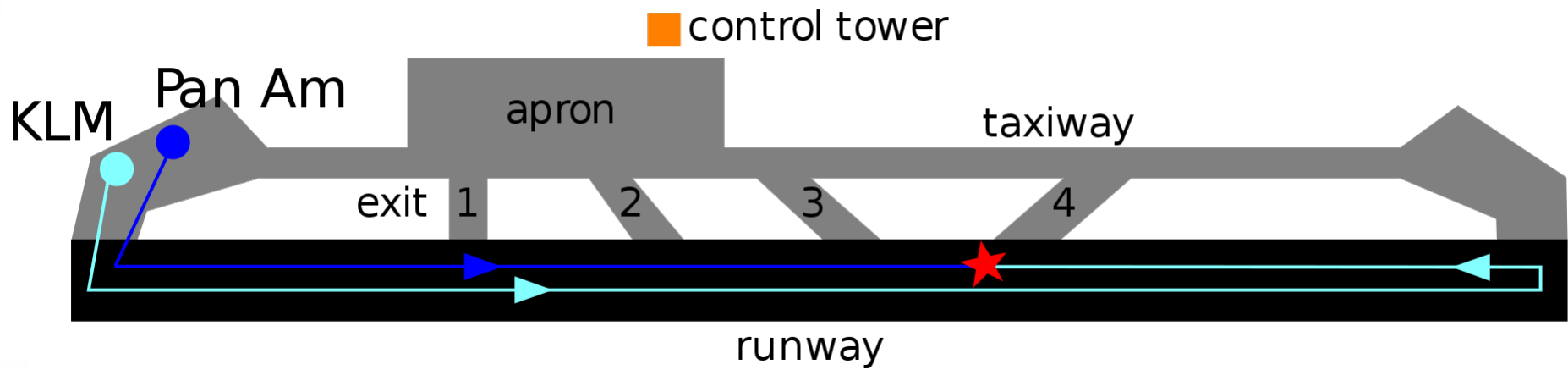


Overview

- KLM company Policy
 - **KLM restricted flight hours of the crew**
 - **Maximum of 10-13 hours flight**
- Before flight procedure
 - **ATC Clearance Permission**
 - **Take-off Permission**



Overview



Precautions



Ambulances were ready



Fire fighting team was trained for such incidents



Fire Trucks were ready at airport

- 2 Walter Yankee 4200L water and 840 kg foam truck
- 2 Walter Yankee 4200L water and 800 kg foam truck
- 1 Walter Yankee 3550L water and 660 kg foam truck
- 1 Walter Yankee 12000L water truck
- 1 International 5886L water and 600 kg foam truck
- 1 International 750kg foam truck
- 2 Land Rover 250 kg powder first aid vehicle

Precautions



Tower communication



Evacuation slides of
airplanes



KLM's policy for flight hour
restriction

Disaster Management

Tower was not able to spot the location of the incident yet they started the fire alarm

Fire fighting team first located the KLM plane and was not aware that there was another plane involved in the accident



Plan of evacuation worked in accordance with what had been planned.



Disaster Management

Ambulances were immediately at the scene

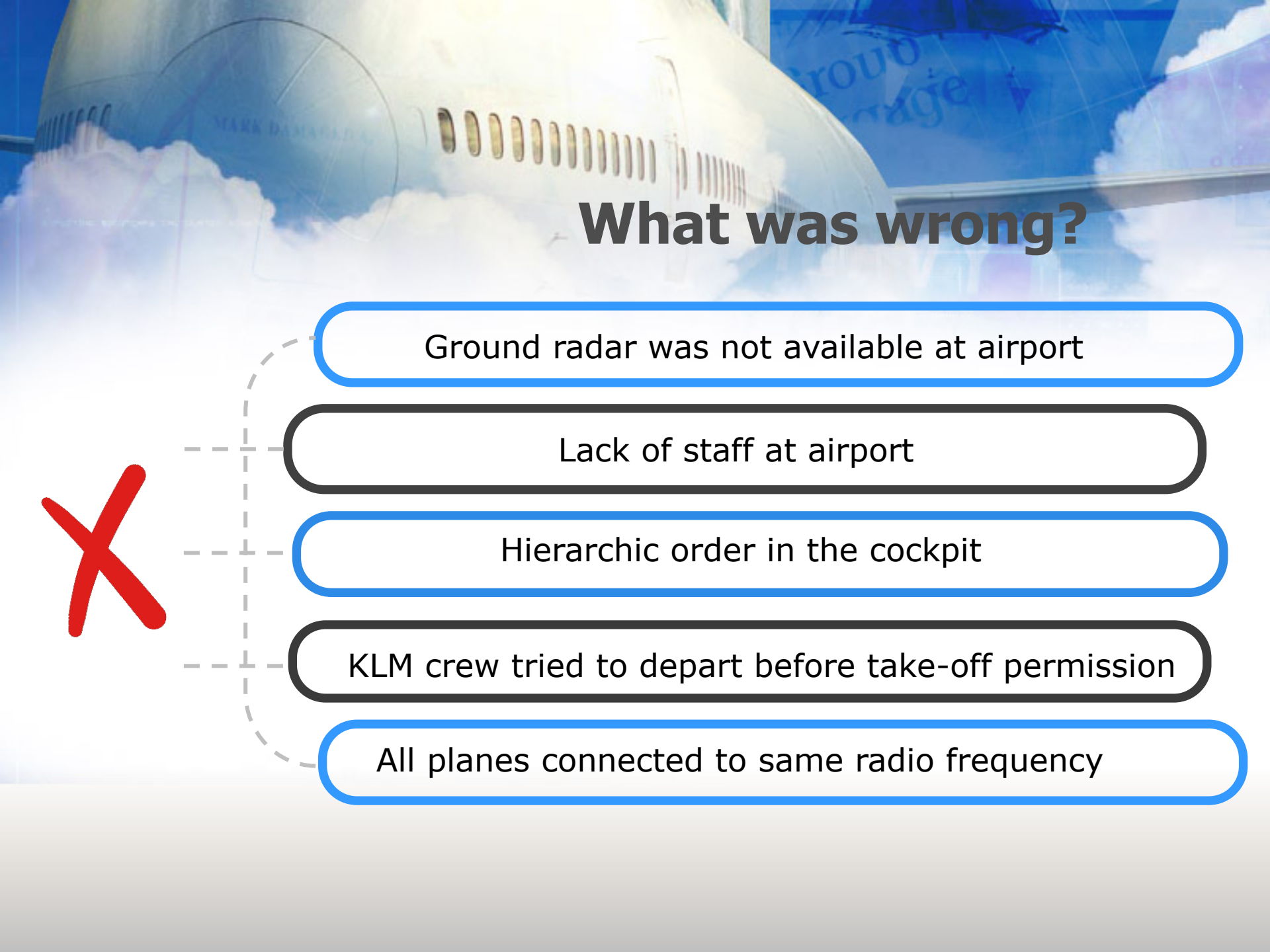
89 hospital beds and 3 surgical teams were formed

Santa Cruz hospital

Huge-scale of blood donation were made

Spanish army were arrived to the scene

Local radio stations announced local people to come to help



What was wrong?

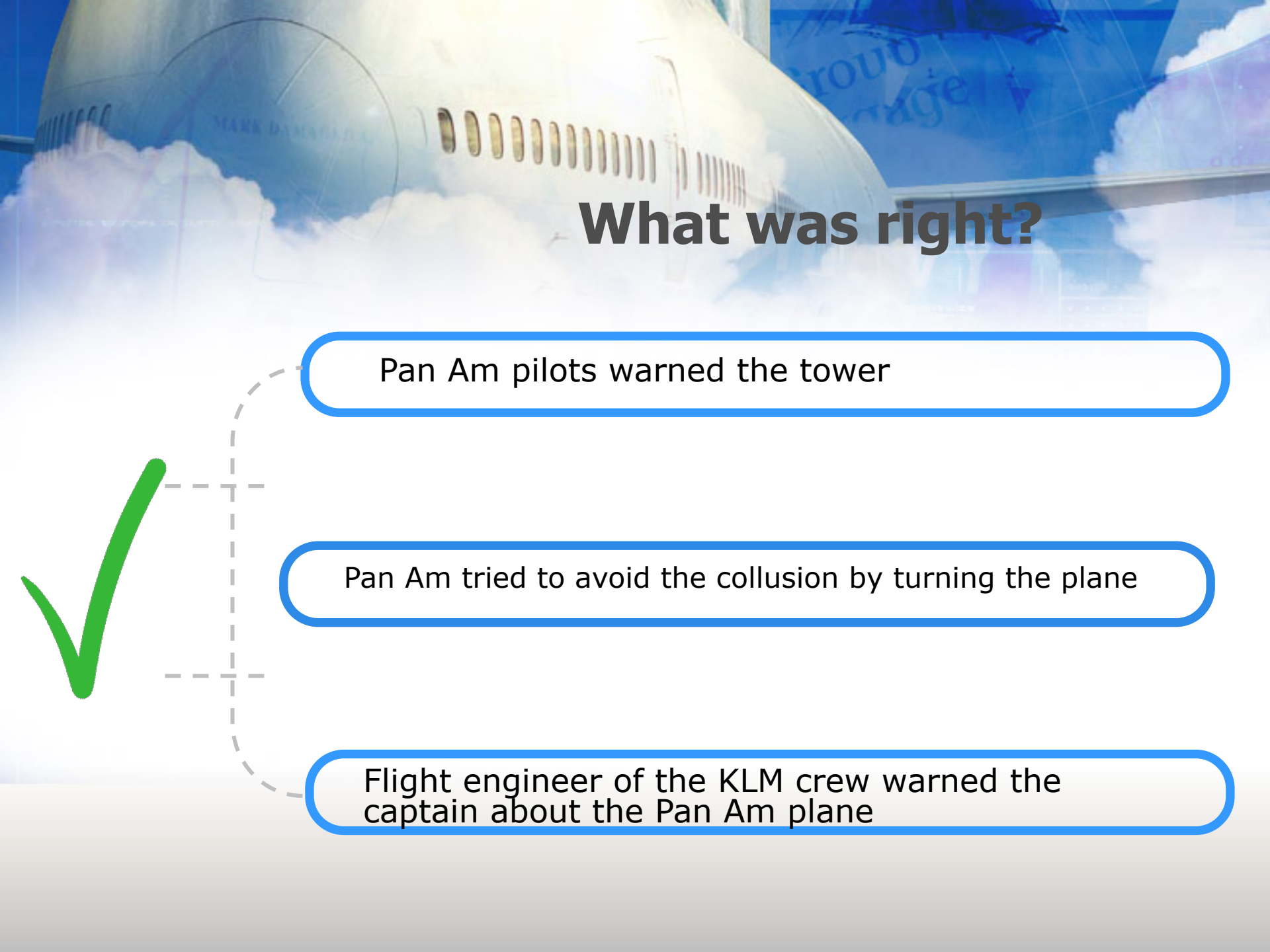
Ground radar was not available at airport

Lack of staff at airport

Hierarchic order in the cockpit

KLM crew tried to depart before take-off permission

All planes connected to same radio frequency



What was right?



Pan Am pilots warned the tower

Pan Am tried to avoid the collision by turning the plane

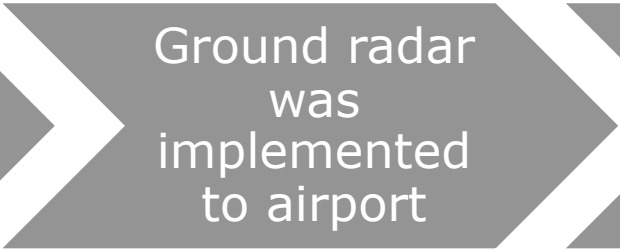
Flight engineer of the KLM crew warned the captain about the Pan Am plane



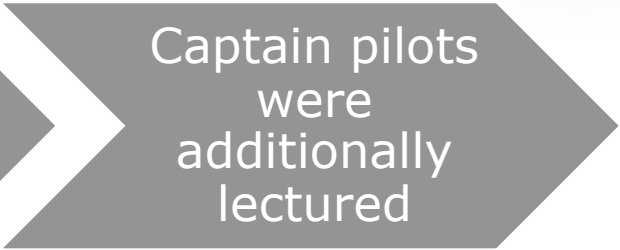
Lessons Learned



International
aviation
language were
changed



Ground radar
was
implemented
to airport



Captain pilots
were
additionally
lectured





Questions?





References

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