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ICAO Runway Safety Programme

Aviation's #1 Safety Priority

<http://www.icao.int/safety/RunwaySafety>

Michiel Vreedenburgh

ICAO Air Navigation Bureau

Chief Implementation Planning and Support – Safety

2nd Global Runway Safety Symposium

Lima, Peru, 20 - 22 November 2017



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Runway Safety Programme



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Panel 1

- David Gamper, Director, Safety, Technical and Legal Affairs, Airports Council International (ACI)
- Robert Holliday, Head Operational Safety, Safety and Flight Operations, International Air Transport Association (IATA)
- Nico Voorbach, Director, ICAO and Industry Affairs, Civil Air Navigation Services Organization (CANSO)
- Tzvetomir Blajev, Coordinator Operational Safety, Eurocontrol
- James Fee, ATO Safety and Technical Training Manager, Runway Safety Group, Federal Aviation Administration (FAA), United States



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Runway Safety Programme Mandate

The establishment of **coordinated**, *collaborative and multidisciplinary efforts* within **ICAO** and between **ICAO** and **Runway Safety Programme Partners** to promote the implementation of *strategies* to *reduce* the number and severity of *runway safety-related accidents and incidents on an on-going basis*.

Our Mandate



Evolution of the Runway Safety at ICAO (before GRSS2011)

- ICAO NAM/CAR/SAM Regions Runway Safety/Incursion Conference, Mexico City, October 2002
- ICAO AN-Conf/11 Recommendation 4/5 on Runway safety programmes - 2003
- ICAO/ERAU Runway Safety Toolkit - 2005
- ICAO Manual on the Prevention of Runway Incursions First Edition — 2007
- ICAO/FAA Runway Incursion Severity Classification (RISC) – 2009
- ICAO Assembly Resolution 37-6 on Runway Safety - 2010
- ICAO/IATA Runway Excursion Risk Reduction Toolkit - 2011
- ICAO Global Runway Safety Symposium, Montreal, May 2011



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RSP ACHIEVEMENTS

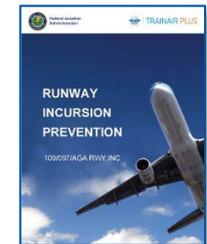
Evolution of the Runway Safety Programme (after GRSS2011 up to 2014)

- ICAO Global Runway Safety Symposium, Montreal, May 2011
- Establishment of ICAO Runway Safety Programme in collaboration with partners – 2011
- ICAO RSP Regional Runway Safety Seminars - 2011 – 2015
- ICAO Runway Safety Implementation Kit (I-Kit) and new web site - 2014
- ICAO Runway Safety Team Handbook - 2014
- ICAO Runway Safety Go-Team Methodology – 2014



RSP Achievements - 2015

- RASG runway Safety Enhancement Initiatives (SEI), Detailed Implementation Plans (DIP), WGs & regional publications – guidance and safety advisories/circulars
- ICAO & Partners Runway Safety Go-Team missions
- ACI APEX Airport Safety Reviews
- IATA Unstabilised Approach Guidance
- US FAA Academy ICAO TRAINAIR Standardized Training Package (STP) on “Runway Incursion Prevention”



RSP Achievements - 2016

- New Runway safety team survey – 216 RSTs registered
- Annex 14 Vol. I Amendment 13 – Nov 2016
- PANS-Aerodromes 2nd edition (Doc 9981) – Nov 2016





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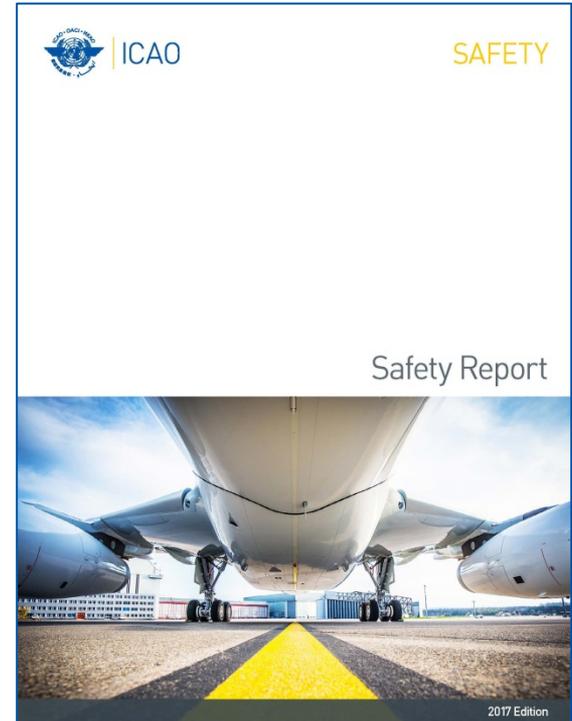
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ICAO ANNUAL SAFETY REPORT 2017 EDITION



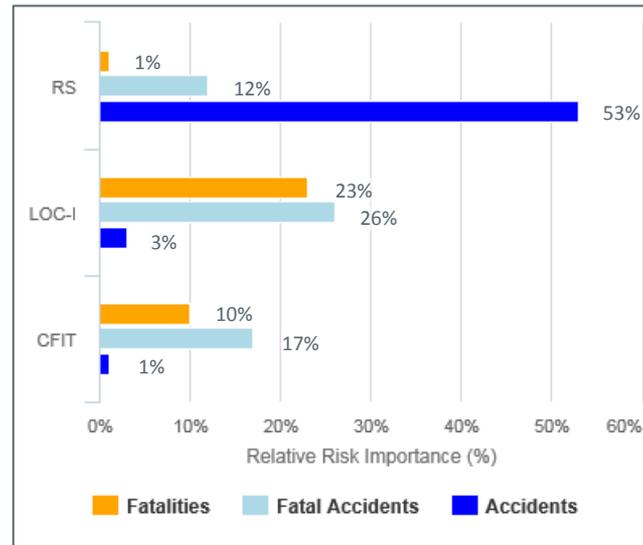
STATE OF AVIATION SAFETY



Risk Distribution for the Top 3 Safety Priorities

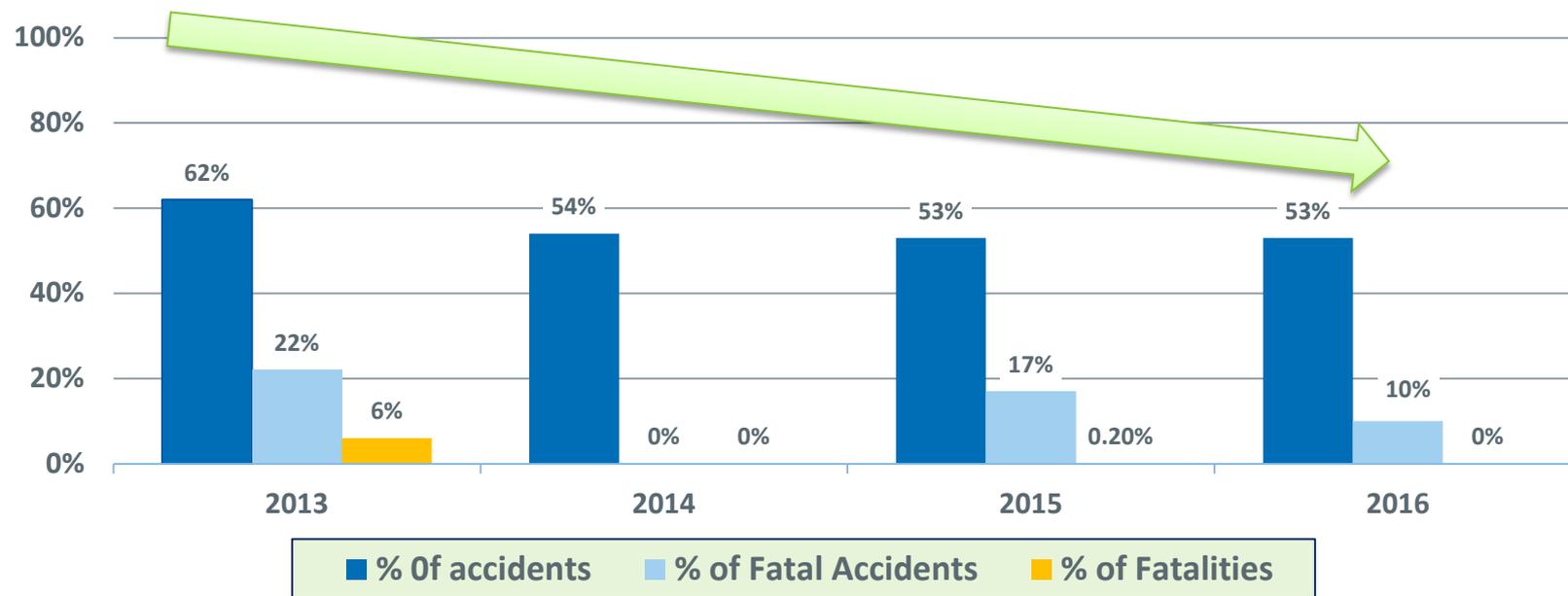
Scheduled commercial above 5 700kg for 2012 - 2016

World



Continue focus
on the
Top 3 Safety Priorities
(RS, CFIT, LOCI)

Runway Safety related Accidents



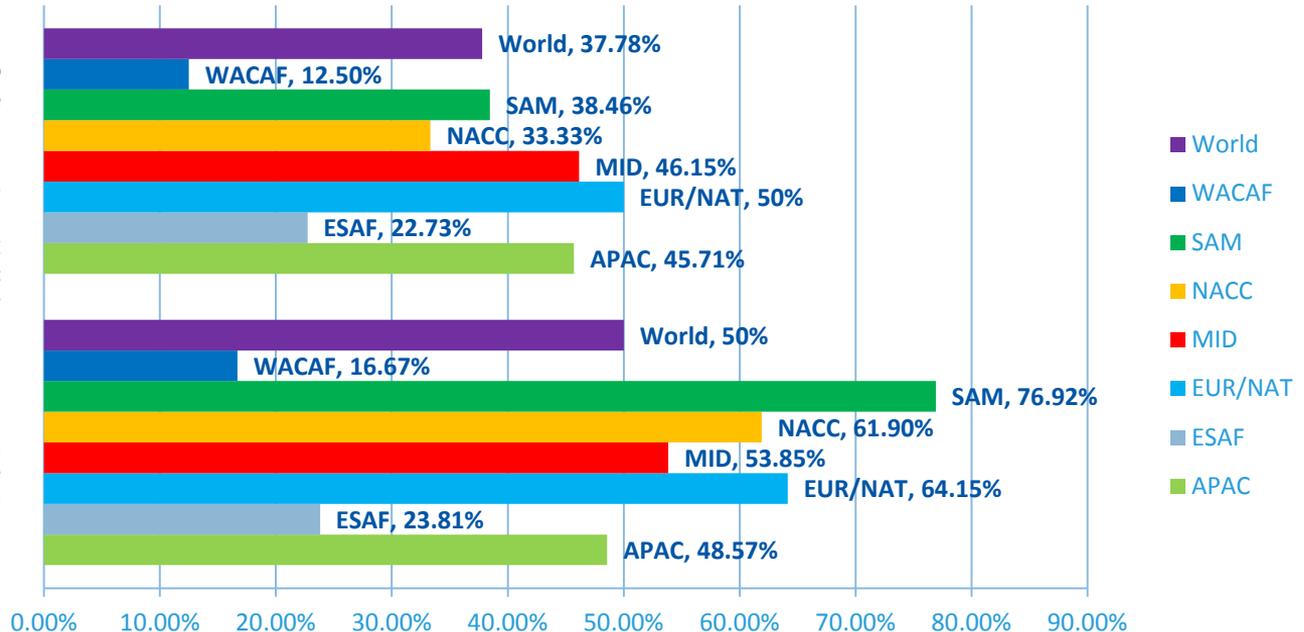
Average EIs of PQs: 7.189 & 8.205

PQ 8.205

Has the State established and implemented a process to ensure that an aerodrome operator's plan for lighting, signs and markings is integrated as a whole into the aerodrome's runway incursion and collision avoidance strategy, taking account of different traffic intensities and visibility conditions?

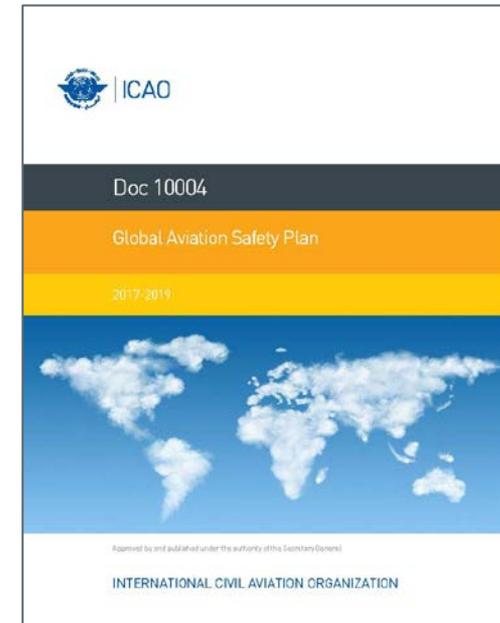
PQ 7.189

Has the State promulgated a regulation requiring the establishment and implementation of a runway safety programme?



GASP 2017-2019 Edition

- Runway safety related events identified as **one of the top 3 high-risk accident categories**
- **Highest proportion of the accidents worldwide** during the 5-year period (2010 - 2014) involved runway safety events
- Runway safety was the **prevalent accident category** for all the regions
- **Runway safety-related events** include, but are not limited to: abnormal runway contact, bird strikes, ground collisions, events related to damage from ground handling operations, runway excursions, runway incursions, loss of control on the ground, collision with obstacle(s), undershoots and overshoots





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RSP ACHIEVEMENTS AND PLANS (from 2017)

RSP Achievements 2017

- Planning & coordination meeting – April & November
- Runway Safety Action Plan Working Group
- Input to GASP Study Group
- New runway safety Go-Team missions site
- 23 Runway Safety Go-Team missions completed
- 1st Runway Incursion Prevention course - November
- 2nd Global Symposium – November
- New SMM (Doc. 9859) – December
- Runway safety panel during SANIS - December





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Runway Safety Action Plan Working Group Scope

- Review Runway Safety Programme achievements, objectives and priorities
- Develop a Runway Safety Action Plan for the future
- Make recommendations to the GASP Study Group to assist the development of the next 2020-2022 edition



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Working Group Recommendations

- Is Runway Safety still a global priority?
- If so, what category(ies)?

Yes

Runway Excursion

- Highest total risk weight
- Highest number of events
- Harmonized with international organizations (e.g IATA)

Runway Incursion

- High number of incidents
- 1 incident report per day
- High fatality risk

Global Airport Runway Safety Teams – 216 Teams Reported to ICAO



Please visit the following link to complete survey and see the complete list of reported Runway Safety Teams:
<https://www.icao.int/safety/RunwaySafety/Pages/Runway%20Safety%20Team%20Register.aspx>

Global Runway Safety Go-Team missions – 23 completed by ICAO & Partners



Please visit the following link to see the completed Runway Safety Go-Team missions:
<https://www.icao.int/safety/RunwaySafety/Pages/RS-Go-Team-Missions.aspx>

ICAO RSP Activities/Plans - 2018 and beyond

- Disseminate, Promote and Implement new Runway Safety Programme Action Plan
- Runway Safety Action Plan Working Group continues
- Support RASGs for regional implementation
- PANS-Aerodromes (Doc 9981) 3rd edition (new RS Chapter) – 2018
- Annex 14 Vol. I Amendment – Nov 2018
- New USOAP audit protocol questions on runway safety provisions based on AR 37-6, 9870, 9981) – 2018
- New GASP – 2019
- Revised Doc. 9870 - 2019





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Partner Activities/Plans - 2017

- ACI - APEX, new SMS Handbook, incident data collection
- CANSO - SEANS, RS maturity checklist update
- Eurocontrol – RI Studies, EAPPRI v3.0
- FSF - Go-Around Decision-Making and Execution Project
- IATA - RE & RS Studies, Airport Analyses
- IFALPA - RS manual update, new position paper
- IATA, CANSO, IFATCA and IFALPA - Unstable Approaches Risk Mitigation Policies, Procedures and Best Practices



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