



Progress Report of the Regional Aviation Safety Group - Pan America (RASG-PA)

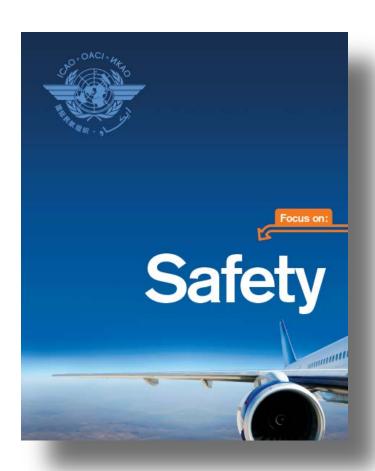
Runway Safety Team GO-TEAM

Tegucigalpa, Honduras, 10-14 March 2014

Eduardo Chacin
Flight Safety Regional Officer
ICAO NACC Regional Office



For ICAO Safety is paramount...





...and for all aviation stakeholders





RASG-PA shows that the number of accidents in Pan American Region is decreasing

PAN AMERICA Scheduled Commercial Air Transport Operations² Accidents Aircraft Maximum Take-off Mass above 27,000 kilograms Sources: Boeing - ICAO ADREP/ECCAIRS

Year	Total Accidents ³	Fatal accidents ⁴	Total fatalities		
2002-2011 avg.	23.9	1.2	59.9		
2011	27	0	0		
2012	4	0	0		



RASG-PA shows that the number of accidents in Pan American Region is decreasing

PAN AMERICA General Aviation Operations Accidents
Aircraft Maximum Take-off Mass 2,250 to 27,000 kilograms
Source: ICAO ADREP/ECCAIRS

Year	Total Accidents	Fatal accidents	Total fatalities
2002-2011 avg.	219	57.4	137.4
2011	110	27	58
2012	18	5	16

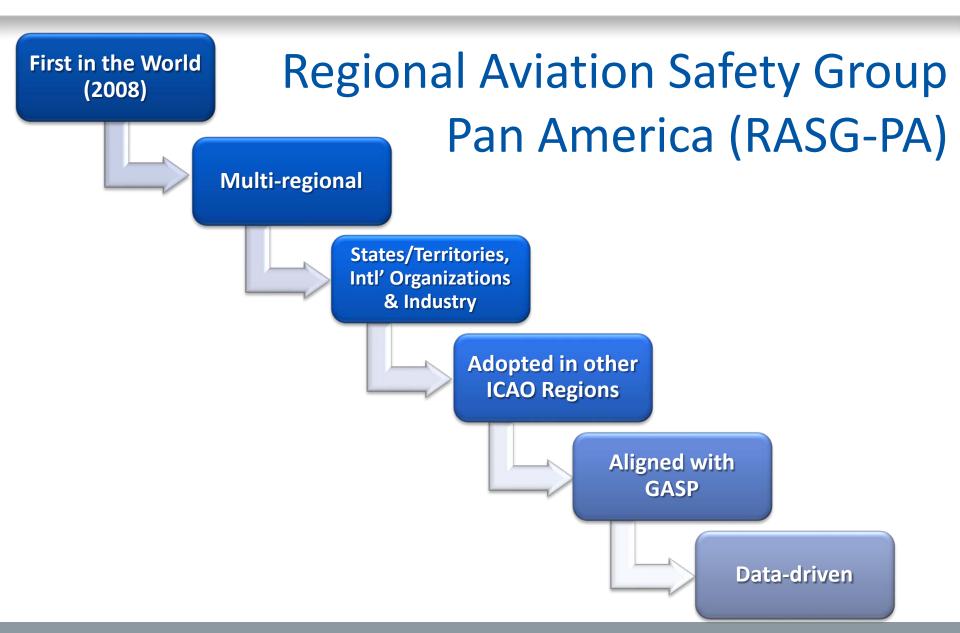
General aviation: for this report, general aviation operation includes all civil aviation operations other than scheduled and non-scheduled commercial air transport operations.



One of the contributors for this record is the Regional Aviation Safety Group - Pan America (RASG-PA)









RASG-PA Mission







RASG-PA Vision

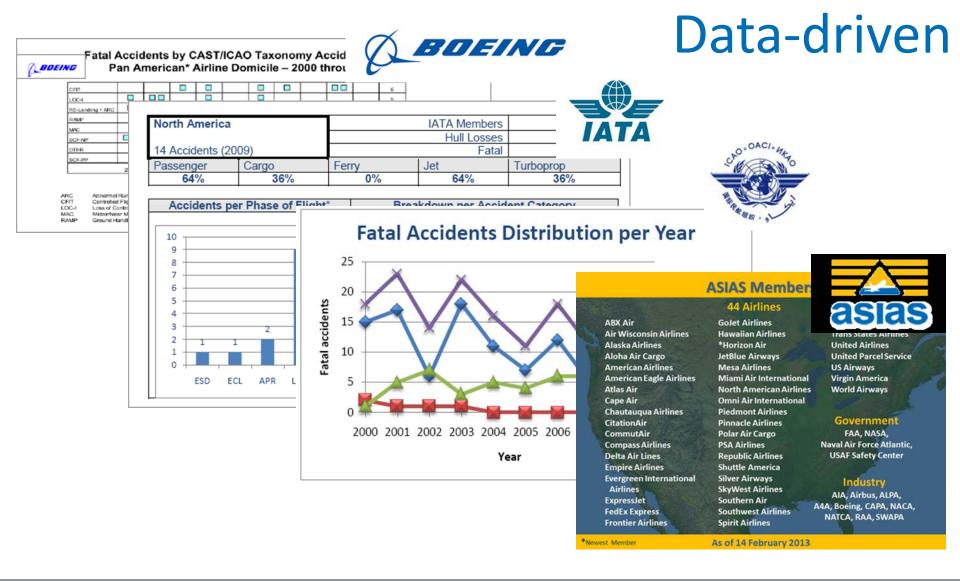




RASG-PA is a data-driven, results oriented organization









Pan America Region





RASG-PA Membership

34 NAM/CAR/SAM States, 19 Territories and...





























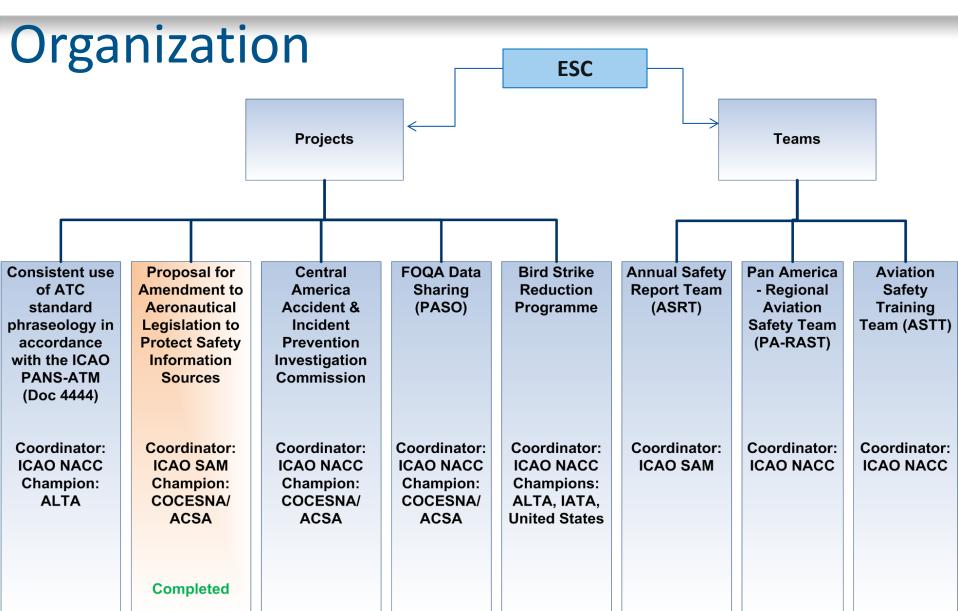






Executive Steering Committee (ESC)

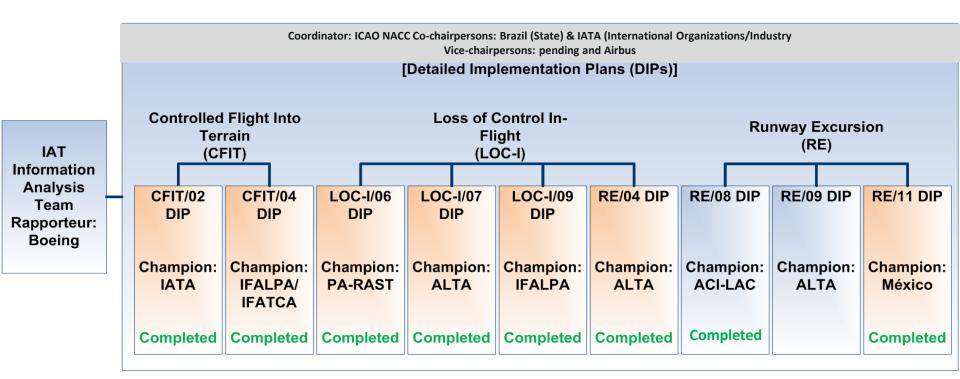






Organization cont.

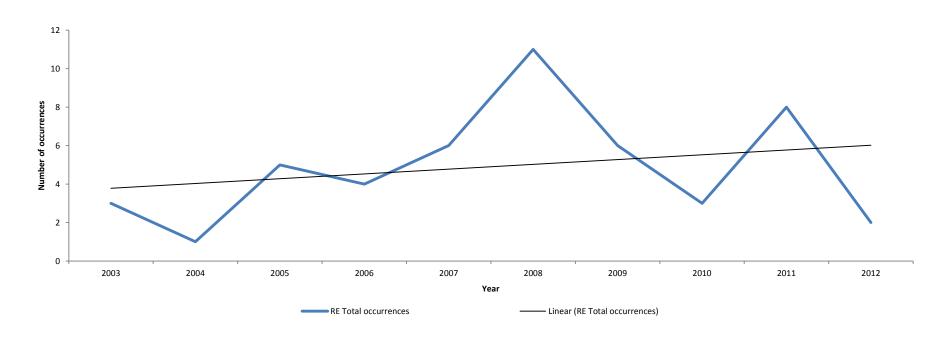
Pan America - Regional Aviation Safety Team (PA-RAST)





RE Total Occurrences Distribution per Year - Pan America

RE Total Ocurrences Distribution per Year - Pan America Scheduled Commercial Air Transport Operations - MTOM > 27,000 kg Source: ICAO ADREP/ECCAIRS





Top Contributing Factors for LATAM/CAR Runway Excursion Accidents - 2012

Latent conditions	19% Safety Management 13% Flight Operations: Training Systems 13% Regulatory Oversight				
Threats	Environmental	25%Contaminated runway/taxiway 19% Ground-based nav aid malfunction or not available 13% Wind/windshear/gusty wind			
	Airline	19% Contained Engine Failure/Powerplant Malfunction 19% Other threats 13% Maintenance events			
Errors	31% Manual handling/flight controls 19% SOP adherence/SOP Cross-verification 13% Failure to GOA after destabilization on approach				
Undesired Aircraft States	33% Controlled flight towards terrain 33% Vertical / lateral / speed deviation				
Countermeasures	67% Monitor / cross-check 50% Comunication Environment 50% Leadership				



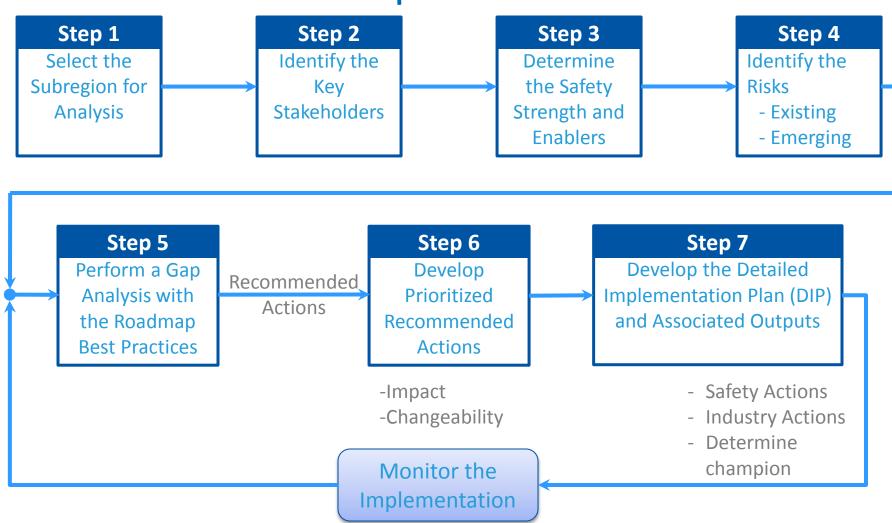
RASG-PA develops SEIs (Safety Enhancement Initiatives) to tackle the main risk areas:

- Runway Excursions (RE)
- Control Flight Into Terrain (CFIT)
- Loss of Control Inflight (LOC-I)
- Mid Air Collision (MAC)

Every SEI has Detailed Implementation Plans (DIPs)



Development of SEI





RE DIPs & Outputs (RASG-PA/06)

Ī	DIP	Description	Champion	Output	Deadline	Status	Comments
		Promote pilot adherence to Standard Operating Procedures	·	1) Distribution	18/01/11	Completed	
		(SOPs) for approach		2) Training		Completed	
	RE/04	procedures including go- around decision making	ALTA				
		process					
		Specific Training for pilots and		ALTA will conduct a survey within its operators regarding the actions taken to mitigate unstable approaches.	20/02/11	Completed	
	RE/09	air traffic controllers to avoid unstabilized approaches		 Develop a strategy to deliver safety seminars for pilots and controllers in Pan America that targets recognition and avoidance of unstable approaches. 	31/12/12	In process	Funding for developing the video granted by RASG-PA.
		Guidance in maintaining runway in accordance with Annex 14		Create a guide that collects best practices for runway maintenance	18/04/12	Completed	The document was renamed as: High level guide in maintaining runways in accordance with ICAO Annex 14.
	RE/8		ACI-LAC	2) Promote and encourage the use of the guide		Completed	
				3) Airports implement their maintenance plans according to the runway maintenance guide.		Completed	
		Develop guidance material and training programs to create action plans for runway safety		Gather and publish in the RASG-PA website available material that may be used in to mitigate hazards related to runway safety.		Completed	ICAO published the Runway Safety Team Handbook (draft) April 2013
				2) Electronic checklist development.		Completed	ICAO published the Runway Safety Team Handbook (draft) April 2013
	RE/11		DGAC Mexico	2) December 2011 and other	25/08/12		ICAO HQ in coordination with ICAO NACC and SAM
		teams		3) Develop a roll out plan.	23/06/12	Completed	Regional Offices and the sponsorship and support of ACI-LAC, IFALPA, IFATCA, ECCAA, FAA, and other organizations delivered Regional Runway Safety Seminars in Miami, United States, Quito, Ecuador and St. John's, Antigua. Two original Outputs were merged, resulting in three.



LOC-I DIPs & Outputs (RASG-PA/06)

			<u> </u>			
DIP	Description	Champion	Output	Deadline	Status	Comments
	LOC Training – Human factors and automation		1) Review and evaluate the advisory circular created by the ICAO COSCAP's in Asia	20/02/11	Completed	
			2) ICAO will distribute a copy of the developed generic advisory circular to each State in the region.		Completed	
			3) Each State in the region will use the generic advisory circular as a template to		Completed	
LOC-I/06		PA-RAST	prepare a State Advisory Circular on mode awareness and energy state management aspects of flight deck automation.			
			4) Mode awareness and energy state management aspects of flight deck automation guidance is provided by operators to all their pilots.	20/09/12	Completed	
	LOC Training – Advanced maneuvers	ALTA	Listing of training materials available from regulators, industry, operators, academia and other resources.		Completed	
			2) Advanced Maneuvers Training provided to all operators.	18/04/11	Completed	
LOC-I/07			3) Advanced Maneuvers Training provided by all operators. The expectation is that this training will be accomplish during initial training and as part of the recurrent training program via ground and simulator instruction within the certified flight envelope, with enphasis on recognition, prevention and recovery technique.	18/08/13	Superseded	
	Loc Training - Pilot monitoring	d for the IFALPA	1) Listing of training materials available from industry, operators and other resources.	20/02/11	Completed	
LOC-I/09	policies and procedure for the		2) Raise awareness of availability and need of Pilot Monitoring Training.	20/03/11	Completed	
100-1/09	operator and training program for crews		3) Pilot Monitoring Training material provided to all operators.	20/03/11	Completed	
			4) Pilot Monitoring Training provided by operators to all their pilots.	20/09/12	Completed	



CFIT DIPs & Outputs (RASG-PA/06)

	DIP	Description	Champion	Output	Deadline	Status	Comments
CFIT/02	IT/02	Specific ALAR/CFIT Training for Pilots	IATA	1)CAA conducts a review of all operators to ascertain which operators have CFIT prevention training and procedures in their approval training manual. IATA		Completed	
	, 02			 If an operator does not have a CFIT training, it will be encourage to incorporate CFIT training into the airline training program. 	20/12/11	Completed	
CF		CRM/Situational Awareness for pilots and	IFALPA &	1)Incorporate and/or update CRM/situational awareness training programs for all flight crew members of air transport operators emphasizing aircraft position with relation to terrain and reviewing past occurrences.	20/02/12	Completed	
	,	air traffic controllers	IFATCA	2) Incorporate CRM/situational awareness training programs for all air traffic controllers and air navigation service providers (ANSP) emphasizing aircraft position with relation to minimum allowable altitude.	20/08/12	Completed	



Detailed Implementation Plans (DIPs)

- 1 in-progress
- 8 completed
- 25 Associated Outputs:
 - 24 completed
 - 1 in-progress

New SEIs are under development by the Safety Enhancement Teams (SETs)

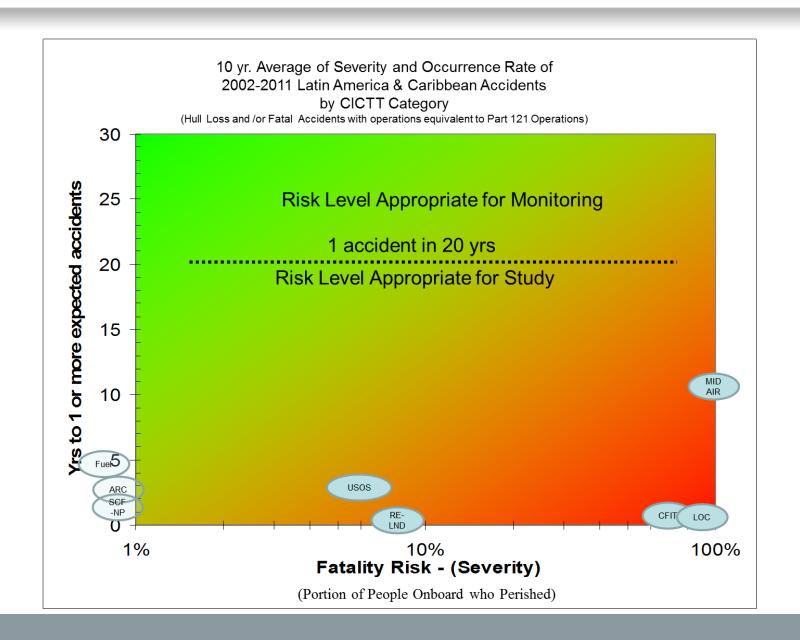


RASG-PA Risk Reduction Goal

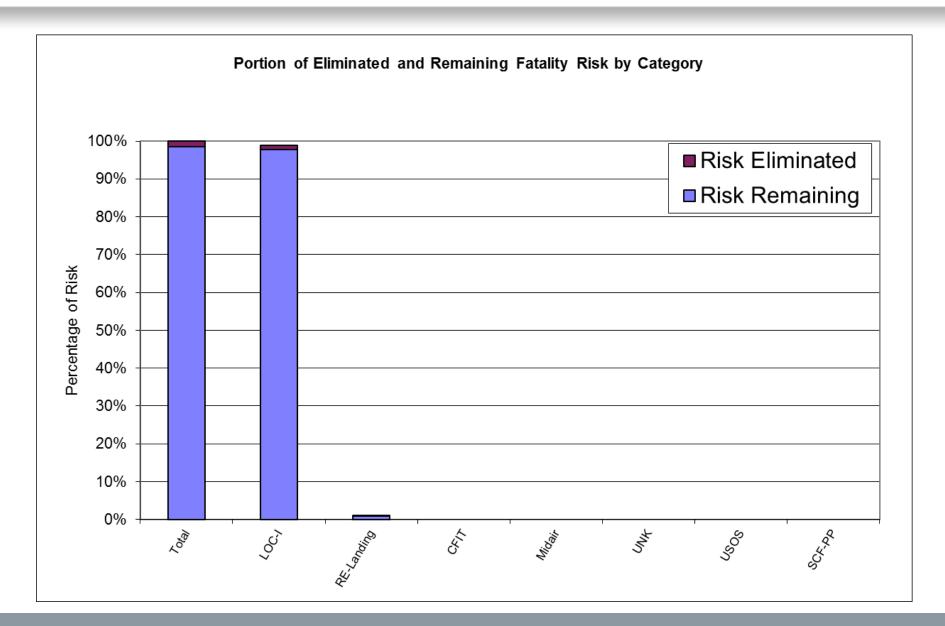
Using 2010 as a baseline, is to reduce fatality risk for Part 121 or equivalent operations by 50% by the year 2020 in Latin America and the Caribbean



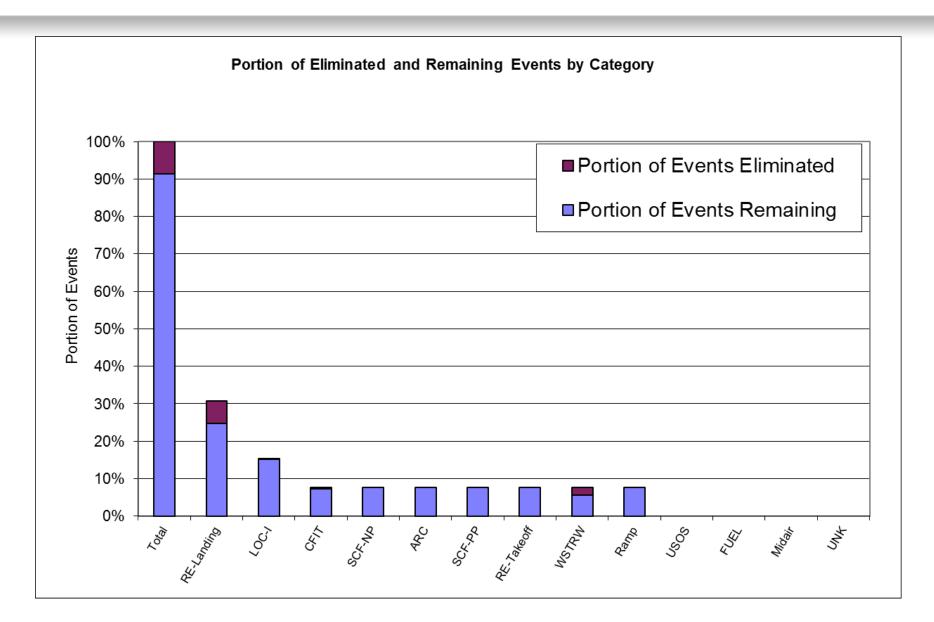






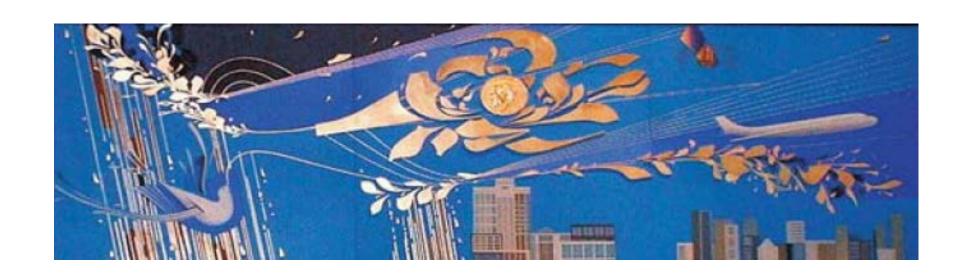








RASG-PA deliverables

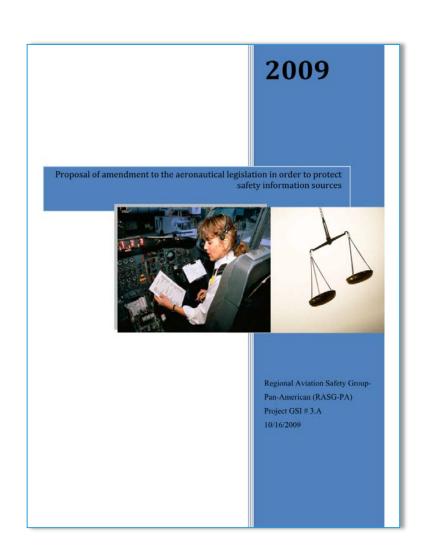




RASG-PA Annual Safety Reports Pan America 2009, 2010, 2011, 2012







Model Legislation for the Protection of Safety
Information
(English and Spanish)

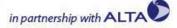


Pan American Aviation Safety Summits











3 rd PAN AMERICAN
AVIATION SAFETY SUMMIT
June 19-21 2012 BOADTO Colombia







Upcoming 5th Pan American Aviation Safety
Summit in partnership with ALTA and RASG-PA
7th Annual Plenary Meeting, hosting State
Curação





Annual Plenary Meetings Aviation Safety Seminars and Workshops **Projects** RASG-PA Safety Advisories - RSA **Training Tools Dedicated Website**

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Managing Aviation Safety Risks Faces Many Challenges

- Traffic growth
- New air transport operators
- Significant number of new aircraft orders
- Demand for skilled aviation personnel
- Training capacity
- Attractiveness of aviation
- Attrition related impact
- Infrastructure deficiencies
- Resources
- Political will

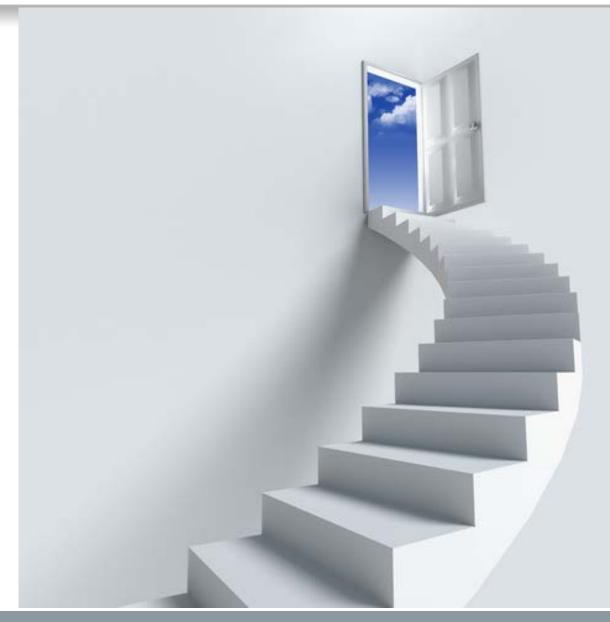


RASG-PA Main Plans 2014 - 2016

- Align RASG-PA work programme with GASP
- Support roll-out of GASP & Annex 19
- Improve RASG-PA processes and procedures
- Mitigate RE, CFIT, LOC-I & MAC risks
- Monitor/act regarding regional safety issues
- Improve coordination with GREPECAS
- Establish contact with other RASGs
- Improve participation of stakeholders
- Positioning as the strategic regional safety forum
- Support ICAO with data collection for safety dashboard



We are very ambitious setting our safety targets...





...but we are confident that with everybody's commitment and continuous support it will be achieved.





Thank you!



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