NACC/DCA/6 - P/15

ALTA-IATA Safety Team







May 11 2016



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1 Departure every 17 seconds

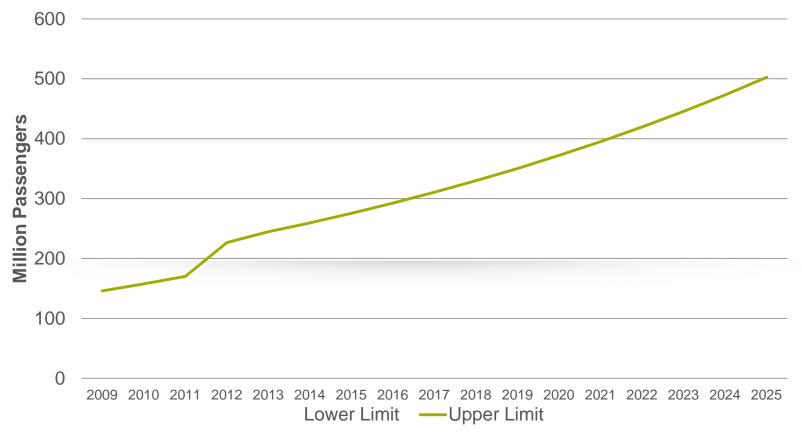


Carrying 115 Passengers



Connecting **378** airports through over **1100** city pairs

LAC Passenger Projections



Source: ATAG, IATA, Airbus, Boeing





ALTA Airlines Fleet

	2004	2015	2033
Number of aircraft	538	1195	3580
Average age (years)	11.2	8.1	N/A

Source: Ascend, ALTA * vs. 2008











Urge to identify top threats to safety with hard data

- Focus resources on main areas of concern
- Stimulate collaboration between private and public sectors
- Trust among parties
- Develop a "Just Culture" (no criminalization)

2010: IATA's AGM mandate to create a centralized database for automated data sharing

- Let's not reinvent the wheel: seek partners with knowhow
- IATA's Global Aviation Data Management a natural solution (AITSP uses FDX)
- ALTA and IATA share mutual goals to improve safety performance in our region





85% (ASKs) of the region providing data



A STAR ALLIANCE MEMBER













- LATAM AIRLINES GROUP -







volaris











What is GADM?

- GADM is a data management program integrating several sources of operational data received from various channels and different IATA programs
- GADM is structured as an "umbrella" program comprising 3 streams:

 - Audit
 Audit
 - Accidents

Focus of this presentation



GADM Safety Programs

FDA	Accident	FDX	GDDB	STEADES	
Web-based Flight Data Analysis service	Database of commercial aviation accidents	Database of FDA and FOQA type events	Database of ground damage incident reports	Database of airline incident reports	
Individualized Airline Service on comm/cost recovery basis	Data used to create the IATA Safety Report	Global Data Exchange Programs			

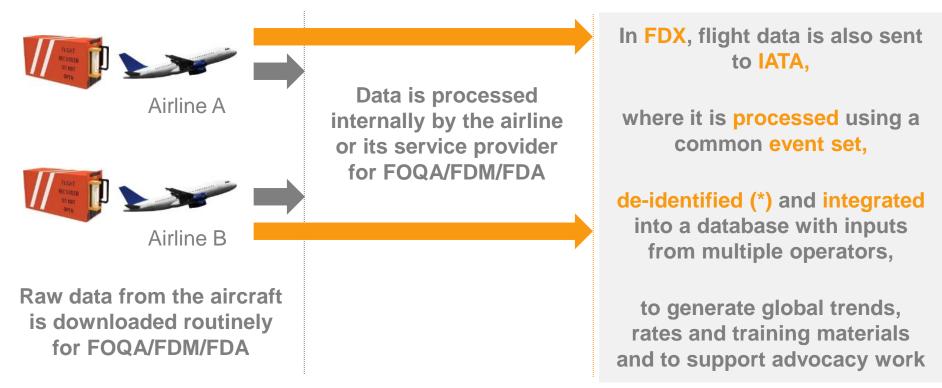


Sources

FDA	Accident	FDX	GDDB	STEADES
Flight Data	Accident Reports,	more than 50	more than 100	almost 200
Recorder (FDR) or	Accident	participants and a	participants	participants and a
Quick Access	Classification Task	database of over	(airlines & ground	database of over
Recorder (QAR)	Force	2.5 million flights	service providers)	1 million records



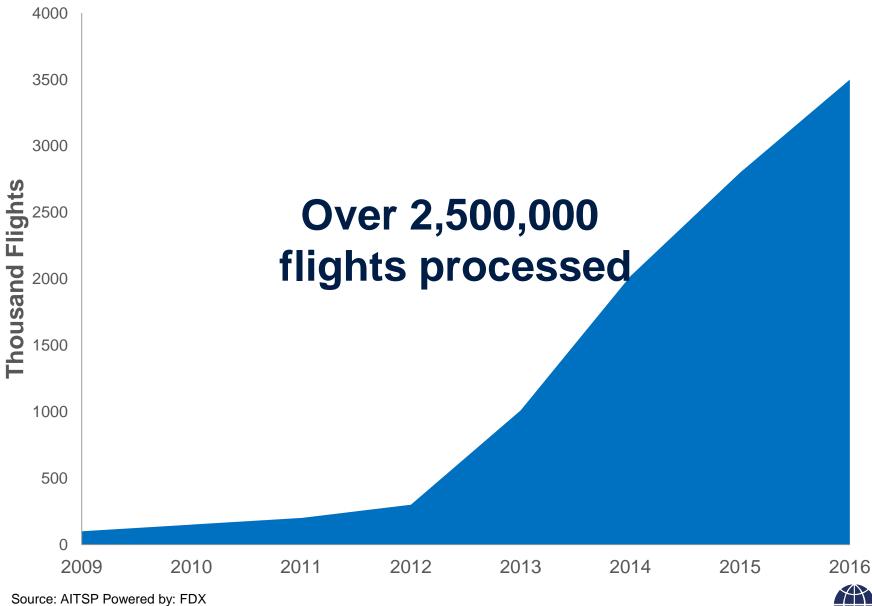
FDX How does it work?



(*) Data is displayed only when there are at least 3 operators with the same aircraft type. De-identification includes: no airline information is available, the tail numbers and the flight numbers are written off, the flight date is set to the first day of the month.



			/		
Unstable Approach					
An unstable approach consists of one or more of the following events:					
		Altitude (AGL)			
Event Name	Description	Max	Min	Limit	
Above Glideslope (1000'-500')	High on approach between 1000' and 500'	1000	500	>2 dots	
Above Glideslope (500'-200')	High on approach between 500' and 200'	500	200	>2 dots	
Below Glideslope (1000'-500')	Low on approach between 1000' and 500'	1000	500	< 2 dots	
Below Glideslope (500'-200')	Low on approach between 500' and 200'	500	200	< 2 dots	
Excessive Localizer Deviation (1000'-500')	Excessive localizer deviation between 1000'-500'	1000	500	>2 dots	
Excessive Localizer Deviation (500'-200')	Excessive localizer deviation between 500'-200'	500	200	>2 dots	
Excessive Tailwind on Landing	Excessive tailwind between 100' and touchdown	100	0	>15 kts	
Go Around	Event triggered when a go around is detected	3000	500	500 AGL	
Hard Landing	Hard landing triggered based on vertical acceleration at touchdown	0	0	>2.1G	
High Rate of Descent	Excessive descent rate on approach	1000	0	>1400 fpm	
High Speed on Approach	Excessive airspeed on approach	1000	0	> Vref +40	
Low Speed on Approach	Low airspeed on approach	1000	0	< Vref -15	
Low Power on Approach	Low power setting on approach	1000	0	< 35% N1	
Late Flap Change	Flap setting change below 500'	500	0		
Late Flap Selection	Landing flap not selected by 1000' on approach	1000	0		
Late Gear Selection	Gear not down by 1000' on approach	1000	0		
GPWS Warning (All Modes)	All GPWS modes detected during approach, landing or initial climb	3000	0		
Rejected Takeoff	Event triggered when a rejected takeoff is detected				
TCAS RA Warning	TCAS RA warning detected during all phases of flight				







256 Rule of 3 Compliant Airports 123 in LATAM/CAR

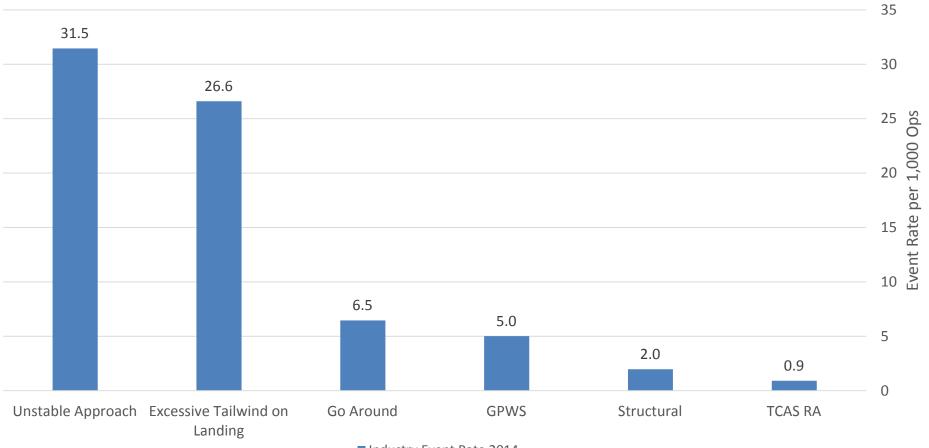


Source: IATA GADM Data current as of: 15 Apr 2016

Top 15 Airports (LATAM/CAR) by Flight Operations

	Airport	City	Country	Total Flights	Total Flights (FDX Participating Carriers)	FDX Flights	% of Total Flights in FDX
1	MEX	Mexico City	Mexico	371,354	52,736	26,156	50%
2	GRU	Sao Paulo	Brazil	279,540	50,552	43,837	87%
3	BOG	Bogota	Colombia	254,168	54,641	46,101	84%
4	CGH	Sao Paulo	Brazil	159,492	47,636	40,583	85%
5	BSB	Brasilia	Brazil	151,338	29,828	26,581	89%
6	LIM	Lima	Peru	140,828	32,452	30,563	94%
7	SJU	San Juan (PR)	Puerto Rico	131,046	547	448	82%
8	ΡΤΥ	Panama City (PA)	Panama	126,830	27,797	26,034	94%
9	GIG	Rio de Janeiro	Brazil	126,118	25,739	23,570	92%
10	VCP	Sao Paulo	Brazil	125,556	2,653	2,407	91%
11	SCL	Santiago (CL)	Chile	118,792	21,618	13,332	62%
12	CUN	Cancun	Mexico	116,806	7,925	7,862	99%
13	AEP	Buenos Aires	Argentina	110,772	12,856	9,673	75%
14	SDU	Rio de Janeiro	Brazil	106,990	23,823	21,364	90%
15	CNF	Belo Horizonte	Brazil	102,684	13,719	731	5%
16	GDL	Guadalajara	Mexico	92,480	13,681	9,858	72%
17	CCS	Caracas	Venezuela	89,300	2,264	2,012	89%
18	MTY	Monterrey	Mexico	86,400	10,608	3,948	37%
19	SSA	Salvador	Brazil	81,046	29,967	16,218	54%
20	SJO	San Jose	Costa Rica	76,700	7,925	3,764	47%

Event Rate per Category

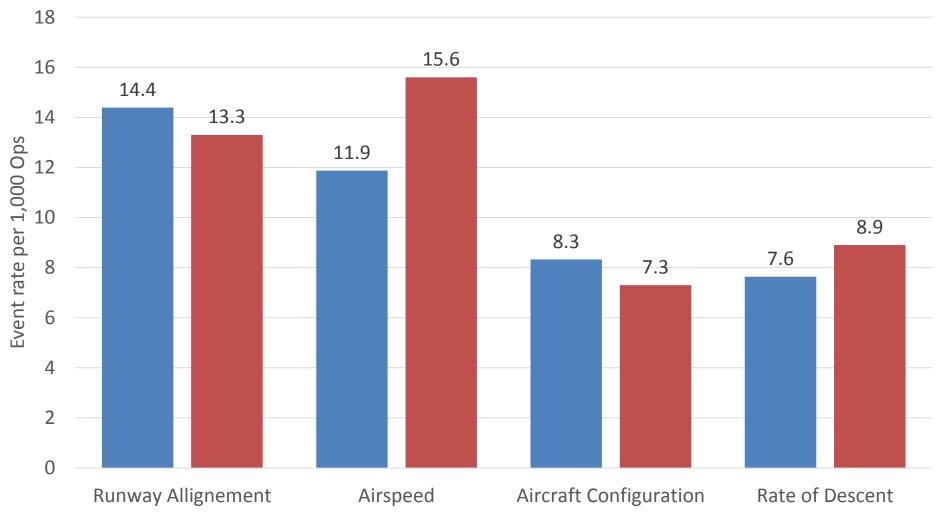


Industry Event Rate 2014



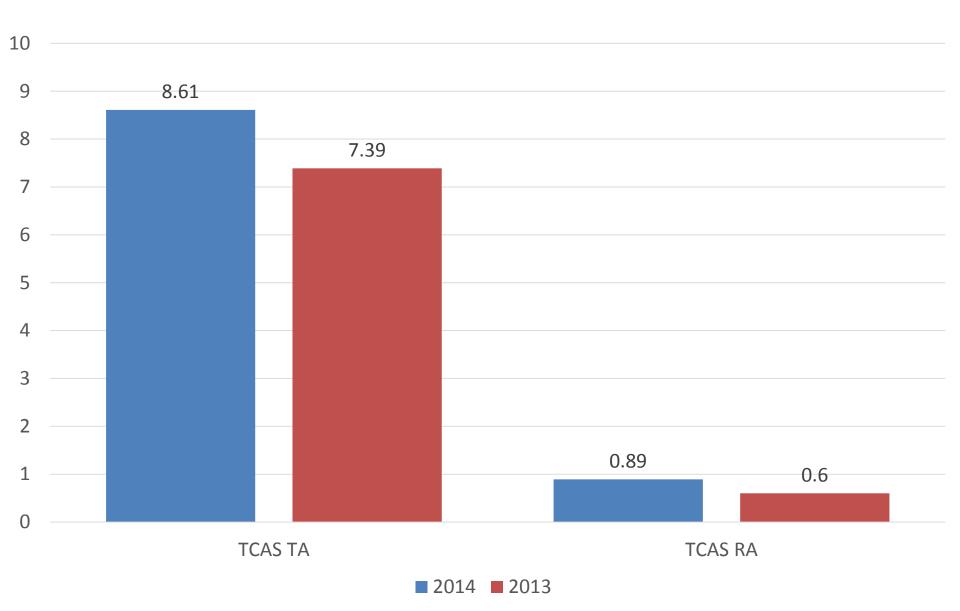


Unstable Approach-Regional Breakdown by Event

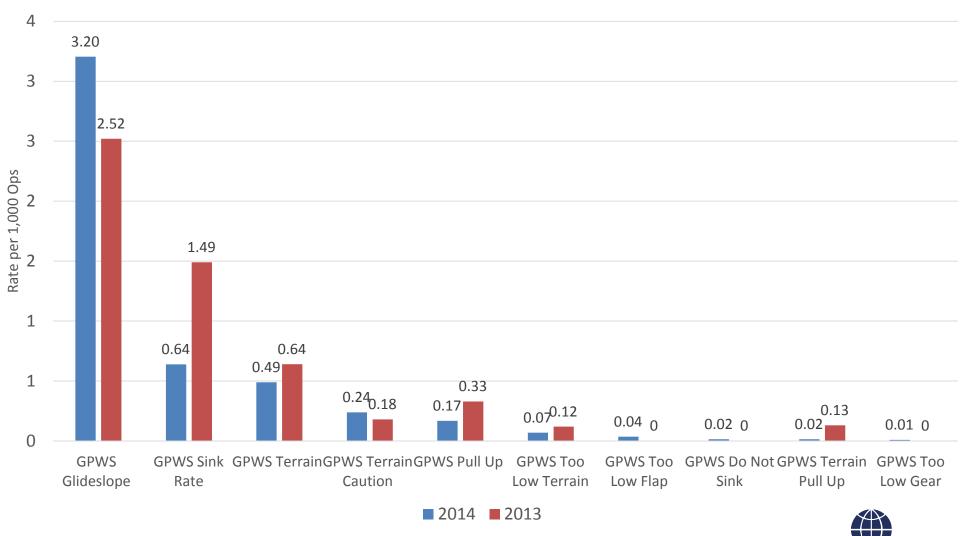


■ 2014 ■ 2013

TCAS-Regional Breakdown by Event



GPWS – Regional Breakdown by Event





Regional initiatives



Operational Safety Program (PASO)

San Jose- Costa Rica



THANK YOU!



