



JHSAT Co-Chair Government: Bruno T. Villela

JHSAT Co-Chair Industry: Antonio Modesto

Overview



- ✓ Current Status
 - ✓ Active Members
- ✓ What we have done so far
 - ✓ JHSAT Analysis Results
- ✓ Relevant Statistics
 - ✓ Helicopter Fleet
 - ✓ Accidents Rate
- ✓ Goals
- ✓ Challenges

Current Status



- ✓ JHSAT active since 2007
 - ✓ Accidents from 2000, 2006 and 2007
 - ✓ No report issued
 - ✓ No plans to analyze more accidents at this point

- ✓ JHSIT active since 2012
 - ✓ Translations
 - ✓ Seminars / Conferences participation
 - ✓ IHST Brazil webpage



IHST Brasil

Ajudando a reduzir a taxa de acidentes de helicópteros civis em 80% até 2016!



[Home](#)

[Documentos](#)

[Calendário de Atividades](#)

[Quem somos nós](#)

[Forum](#)

[Members Only](#)

Palestra do IHST Brasil

Mon, 4th November, 2013

Contando com a participação da Polícia Civil, Detran, Polícia Militar, SAMU, Rede Globo e Record, o TCEl Paulo Queiroz realizou uma palestra sobre as atividades do IHST Brasil na sede da Divisão de Operações Aéreas da Polícia Civil de Brasília.

[leave comment](#)

Considerações de Segurança do EHEST

Mon, 4th February, 2013

A HELIBRÁS fez a tradução do Folheto "Considerações de Segurança" do EHEST. Visite a página "Documentos" do Menu Principal e faça o download da publicação !!!!

[leave comment](#)

Combinando as informações de acidentes de helicópteros fornecidas pelo CENIPA com o total de aeronaves matriculadas no Brasil desde 2001 fornecidos pela ANAC, conseguimos obter o gráfico abaixo. Trabalhem para que os resultados de 2012 continuem nos próximos anos !!! Parabéns a todos pelo trabalho e pelo resultado !!!!



Metas do IHST Brasil para 2013

- Realizar reuniões bimestrais do grupo;
- Criar o site do IHST Brasil;
- Traduzir e publicar os leaflets do EHEST;
- Traduzir e publicar os toolkits de HFDM e SMS do IHST e do EHEST;
- Fazer palestras em todos os simpósios de segurança de aviação organizados pelos SERIPAS;
- Participar dos simpósios organizados pela ABRAPHE e pela HELIBRAS; e
- Participar de todas as teleconferências do IHST EXCOM.

Eventos Internacionais de Segurança de Voo

[- HELI-EXPO 2014 \(24 a 27 FEV 2014\)](#)

[- IHSS 2014 \(28 FEV 2014\)](#)

Links Úteis:



EHEST
Component of ESSI



Current Status



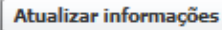
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facebook    Pesquise pessoas, locais e coisas   Ihst Brasil Localizar amigos 



Ihst Brasil

Adicionar uma capa 

Atualizar informações 

Registro de atividades 

[Linha do tempo](#)
[Sobre](#)
[Fotos 1](#)
[Amigos 35](#)
[Mais ▾](#)

Pessoas que você talvez conheça [Ver todas](#)



Gustavo Coutinho
3 amigos em comum
[Adicionar aos amigos](#)



Henrique Solis
11 amigos em comum
[Adicionar aos amigos](#)



Rogerio Pereira
7 amigos em comum
[Adicionar aos amigos](#)

 **Ihst, qual faculdade frequentou?** 66% concluído



Escola Naval
Marcelo Rego, Heitor Munaretto e outros
17 amigos estudaram aqui



Academia da Força Aérea Brasileira
Benedito Carmenton, Tiago Cortat e
outros 2 amigos estudaram aqui

Não cursei faculdade

 Público ▾ [Próxima](#) [Pular](#)

Sobre

 **Mora em Rio de Janeiro**

 **De Rio de Janeiro**

 Status  Foto  Local  Evento cotidiano

No que você está pensando?



Paulo Queiroz esteve com **Ihst Brasil** em Cavex.
17 de dezembro de 2013 às 13:20  



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 - ✓ IHST on Twitter

A meeting every
another month

Active Members



JHSAT

- Co-Chair Industry : Ana Claudia Galvão (BHS)
- Co-Chair Government: Lt Col Paulo Queiroz (Brazilian Army - CENIPA)

JHSIT

- Co-Chair Industry: Antonio Modesto (HELIBRAS – Airbus Helicopters)
- Co-Chair Government: LCDR Bruno Villela (Brazilian Navy)

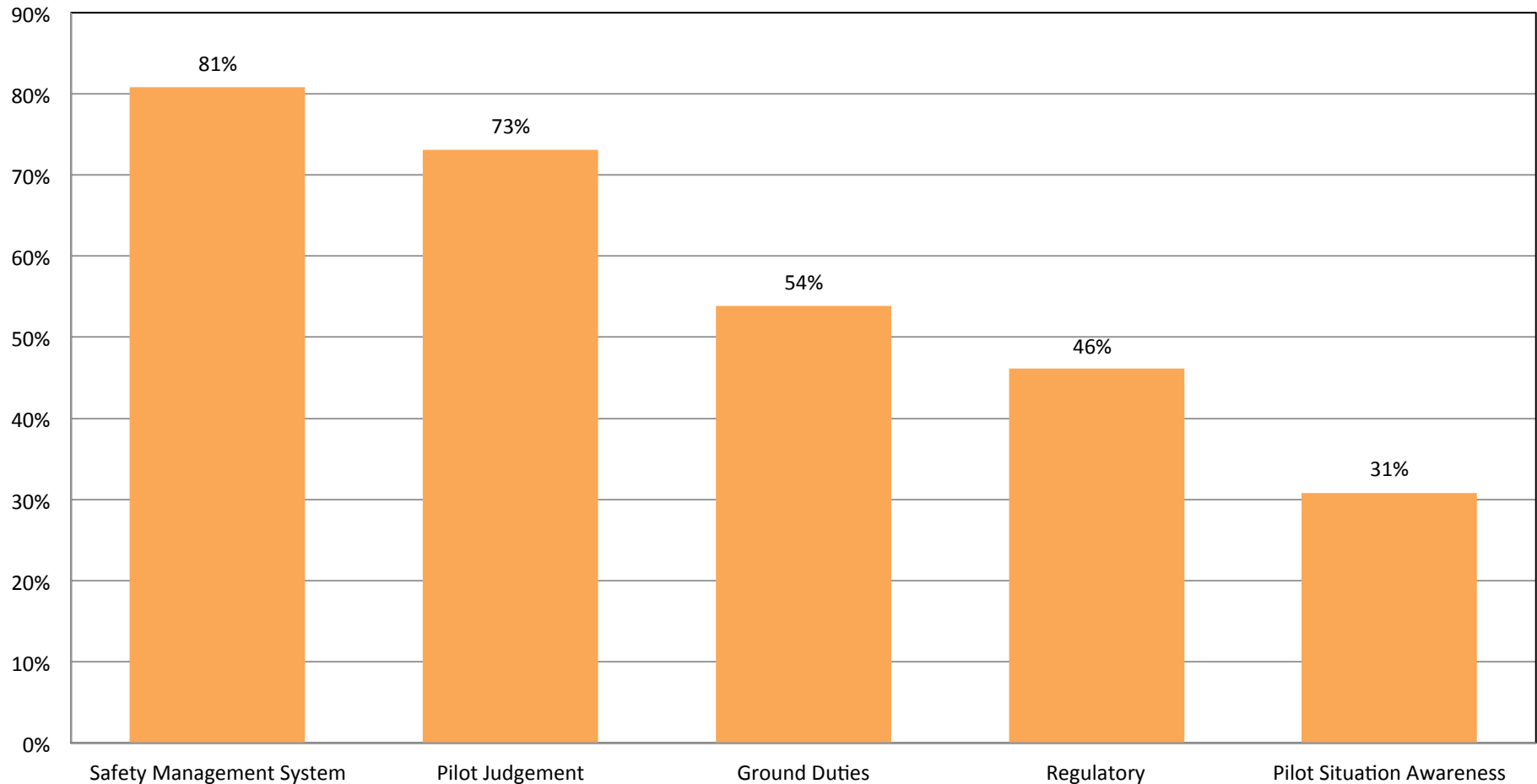
Members: Brazilian Air Force, Líder Aviation (Op) , ABRAPHE, Turbomeca, Rolls Royce, ANAC, Bell (rep) , Petrobras (OGP), Agusta Westland, Sikorsky (rep), Helivia (Op).

What we have done so far

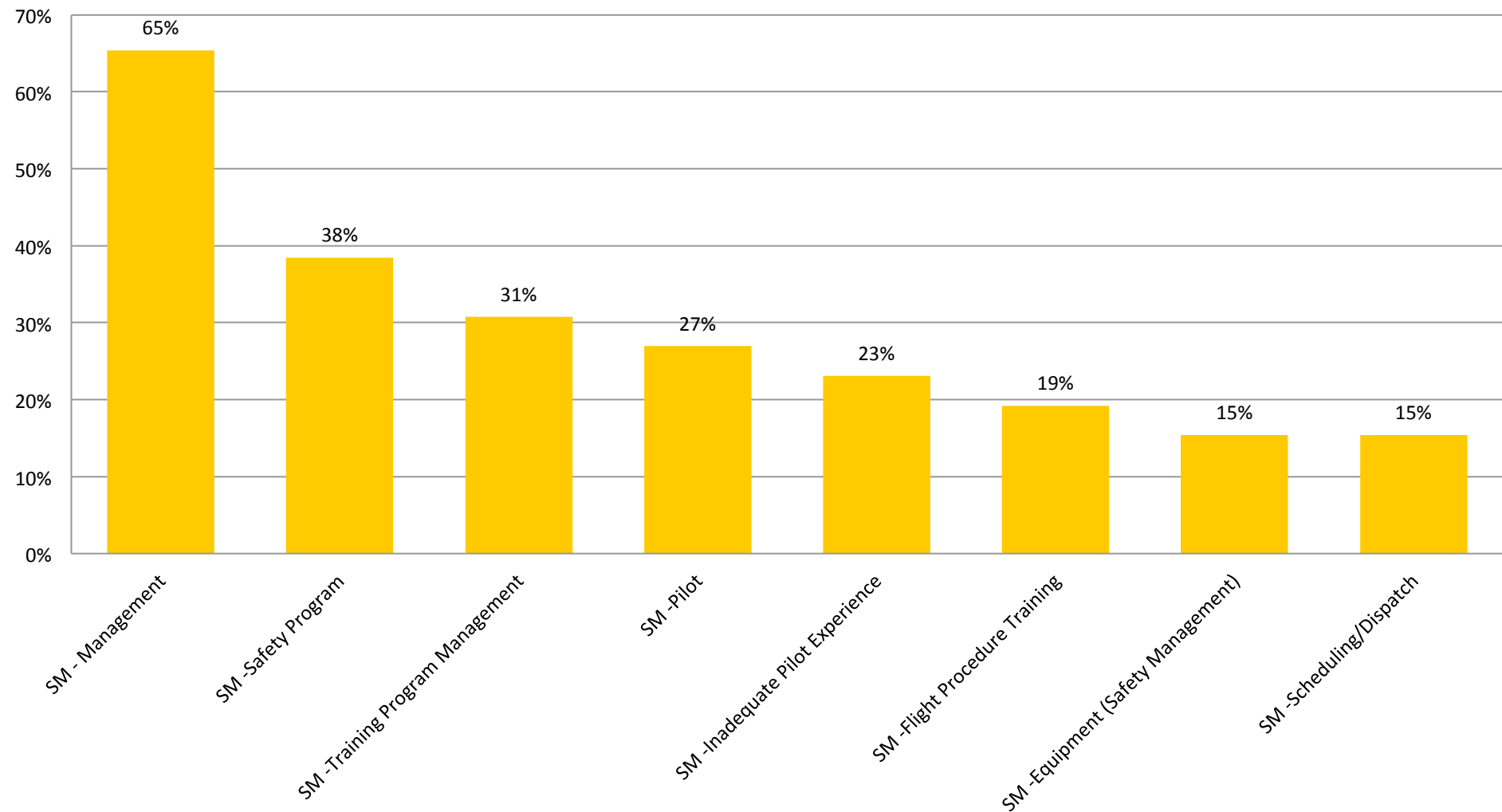


✓ JHSAT Analysis – 2000, 2006 and 2007

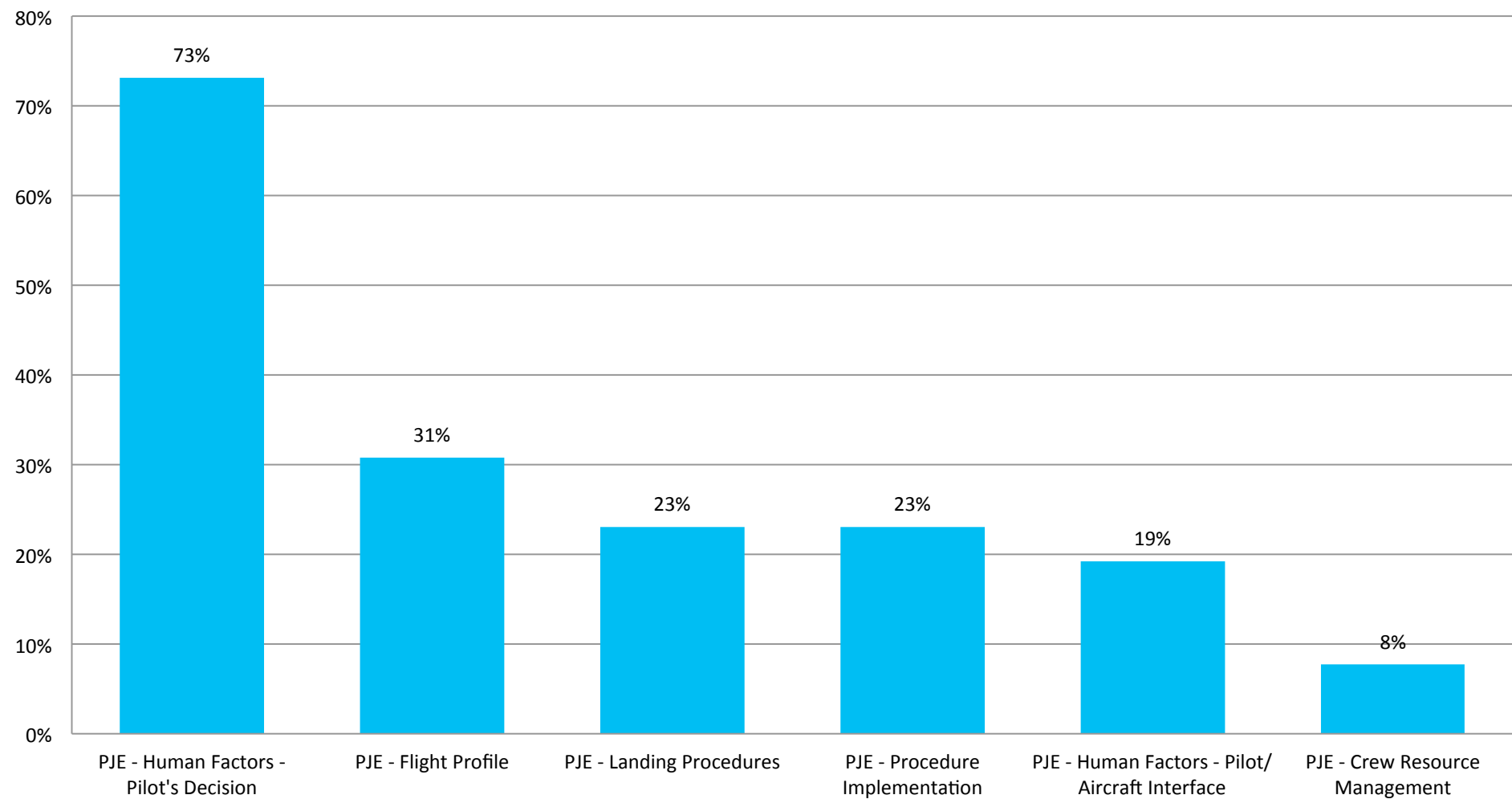
Analysis results - 2000, 2006 e 2007



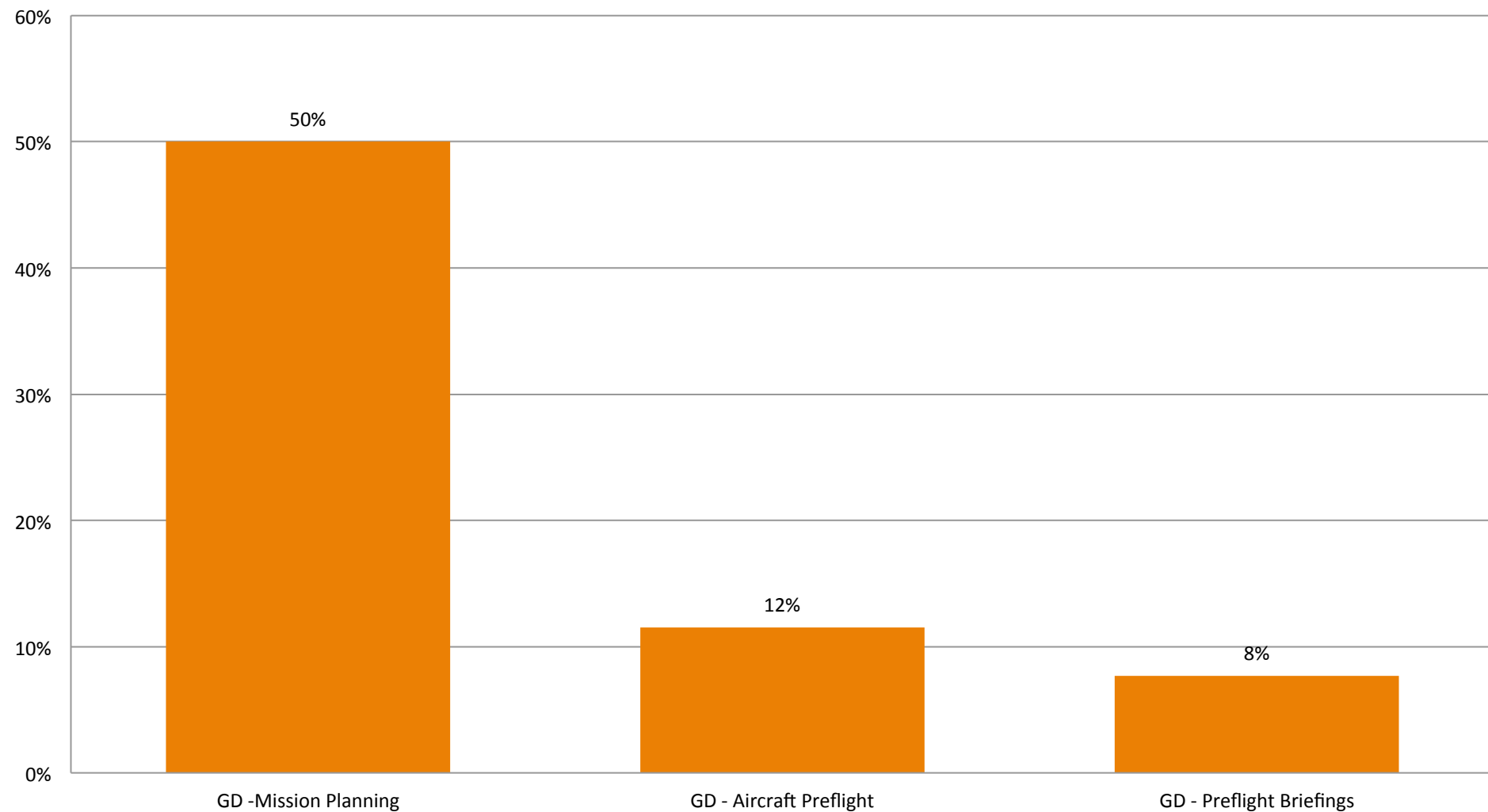
Safety Management Details



Pilot Judgement Details



Ground Duties Details



Comparing among Continents

	Europe	USA	Brazil
Pilot Judgment & Actions	68%	84%	73%
Safety Management	52%	43%	81%
Ground Duties	40%	37%	54%
Data Issues	37%	73%	8%
Pilot Situation Awareness	34%	31%	31%
Mission Risk	28%	19%	27%
Part / System Failure	22%	28%	15%
Maintenance	14%	20%	27%
Regulatory	8%	20%	41%

What we have done so far



- ✓ JHSAT Analysis – 2000, 2006 and 2007
- ✓ Translations
 - ✓ EHEST Leaflets (2 out of 6 printed)
 - ✓ IHST USA HFDM Toolkit
 - ✓ IHST USA SMS Toolkit
- ✓ 2 IHST Brazil Information Bulletins
 - ✓ Cargo Hook
 - ✓ Hoist
 - ✓ IHST Brazil folders and banners
- ✓ Presentations in Seminars and Conferences
 - ✓ 2012 – 5 events
 - ✓ 2013 – 4 events
- ✓ Helicopter Safety Symposium (HELIBRAS) - 700+ attendees

Helibras- Airbus Helicopter Safety Symposium 2013

Looking for small operators

September 24 and 25, 2013

From left to right clock side:

- Mr. Eduardo Marson – CEO Helibras
- Cel. Gaspar – Aeronautical Science Coordinator – Anhembi Morumbi University
- Mr. Luciano – ABRAPHE – Brazilian Helicopter Pilot
- Mr. Francois Arnaud – VP Comercial Helibras
- Mr. Jean Mark – VP R&D Fleet Safety



DAY	SCHEDULE	EVENT	Speaker
Tuesday Setember, 24	06h00pm - 06h50pm	Prevention Philosophy	Investigation & Prevention Center
	06h55pm - 07h45pm	Safety Risk Management to small operators	MAR 1 Consulting
	07h55pm - 08h15pm	<u>Coffee</u>	
	08h15pm – 09h05pm	Quality Assurance in Maintenance	Helibras Quality Manager
	09h10pm – 10h00pm	Emergency Training	EFAI Training
	10h00pm – 11h00pm	Cocktail	
Wednesday Setember, 25	06h00pm - 06h50pm	Safety risks induced by poor customization / STC	VP- R&D Fleet Safety Eurocopter
	06h55pm - 07h45pm	Aviation Civil and Criminal Responsibilities	Brazil Federal Judge
	07h55pm - 08h15pm	<u>Coffee</u>	
	08h15pm – 09h05pm	Density Altitude – The invisible factor of Helicopter Performance	Helibras Training Center Instructor
	09h10pm – 10h00pm	Helicopter Airmanship	Helibras Flight Test Pilot

HELIBRAS Invitations

More than 700 peoples including customers, pilots, maintenance companies, ANAC – Civil Aviation Agency and Military authorities.



Flight Safety is Our Priority.

Helibras will hold an Operational Safety event for the helicopter community and counts on your participation. The themes to be discussed are:

24th September:

Opening and Remarks - Eduardo Marson - CEO Helibras / Jean Mark Pouradier - VP R&D Internationalization / Cel. Raul Moreira Neto - Aeronautical Prevention and Investigation Center.

Prevention Philosophy - Cel. Raul Moreira Neto - Aeronautical Prevention and Investigation Center.

Emergencies training - Cmte Bosco - EFAI

-Coffee-break

Quality Assurance in Maintenance - Francisco Bonanni - Helibras Quality Manager

Safety Risk Management to Small operators - MAR1 Aeronautical Consulting

-Cocktail

25th September:

Safety risks induced by poor customization/STC - Jean Mark Pouradier

Aviation Civil and Criminal Responsibilities - Federal Judge Marcelo Honorato

-Coffee-break

Density Altitude - The invisible Factor of Helicopter Performance - Cmte Silvio Frank - Training Center Helibras

Helicopter Airmanship - Cmte Uberacy - Safra bank

Event Registration: Send an email to safety@helibras.com.br

Necessary Information: name, company, email an ID

Due date: 09/18/2013

Limited Slots!



Sponsors:



VOAR COM SEGURANÇA É A NOSSA PRIORIDADE!

A Helibras promove em setembro mais um evento destinado à comunidade aeronáutica de seus rotineiros.

As palestras serão ministradas por profissionais de aviação de diferentes segmentos e terão como principais objetivos a conscientização e a prevenção de acidentes aeronáuticos.

Participe!

Inscrições: envie um e-mail para safety@helibras.com.br

Informações necessárias: nome, empresa, e-mail e CPF do participante

Prazo: 18/09/2013

VAGAS LIMITADAS



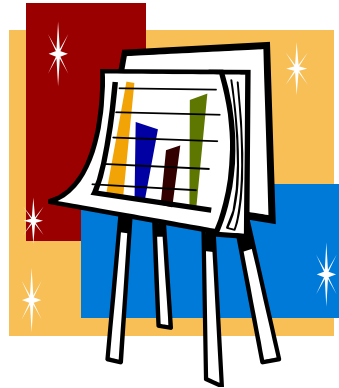
APROX:



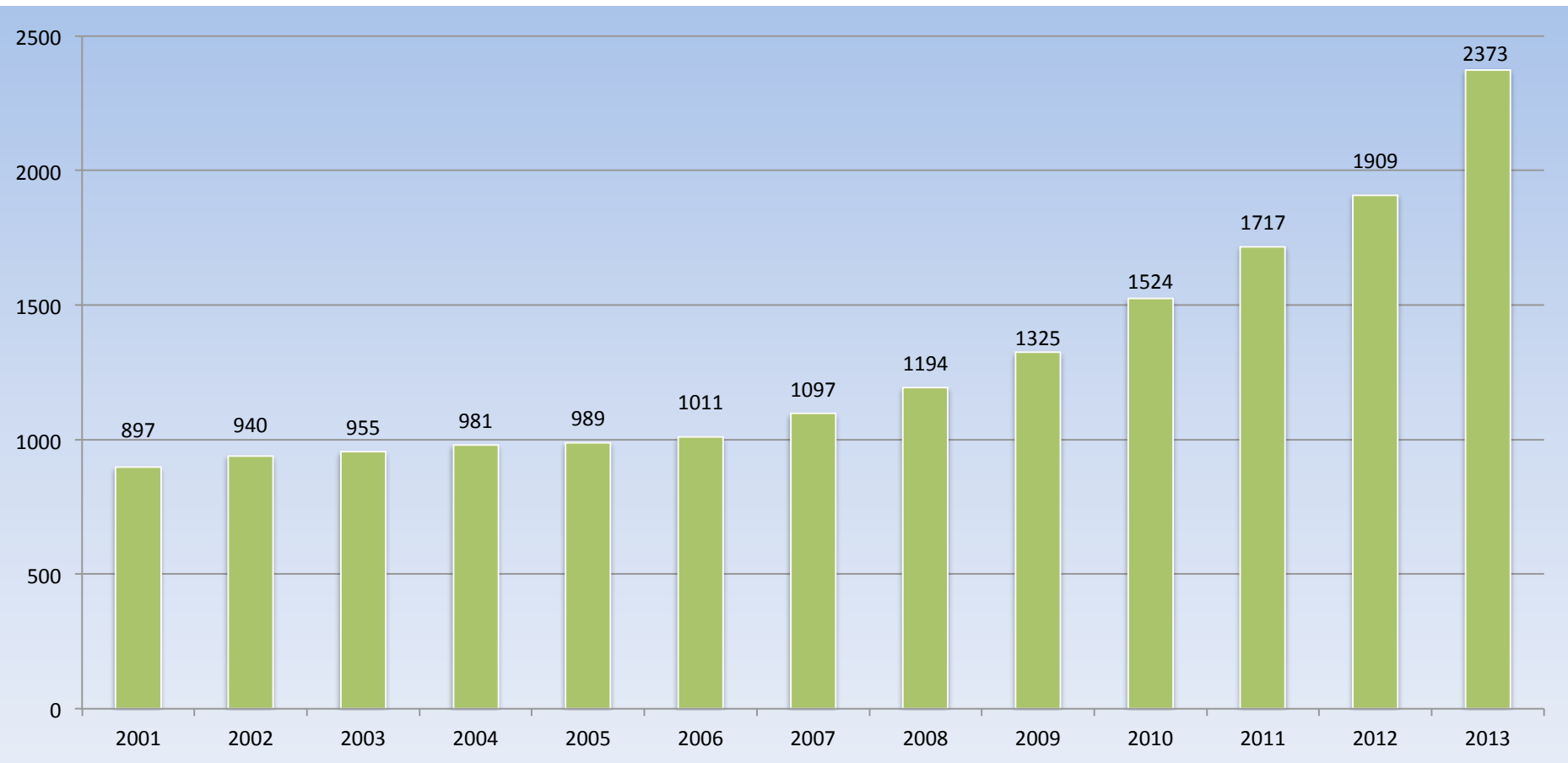




Relevant Statistics



Brazilian Civil Helicopter Fleet



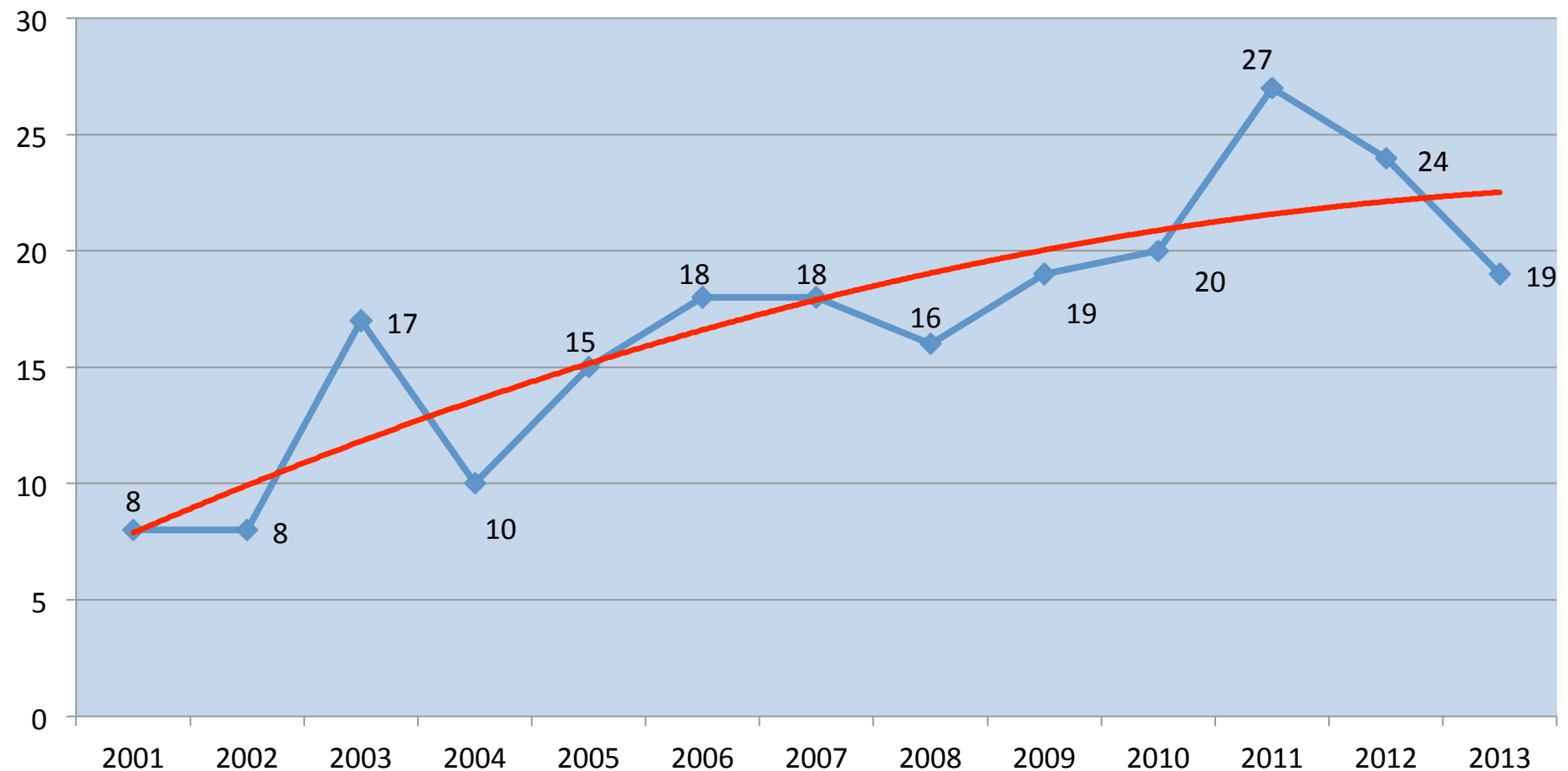
Since 2009: 2-digit growth; 24% in 2013.

Source: ANAC

Nr of Aircraft	Nr de Operators	% of Operators	Cumulative	Cumulative of Aircraft
1	1317	83,7%	83,7%	55,5%
2	134	8,5%	92,2%	66,8%
3	53	3,4%	95,6%	73,5%
4	21	1,3%	96,9%	77,0%
5	13	0,8%	97,7%	79,8%
6	10	0,6%	98,3%	82,3%
7	4	0,3%	98,6%	83,5%
8	3	0,2%	98,8%	84,5%
9	3	0,2%	99,0%	85,6%
10	2	0,1%	99,1%	86,5%
11	4	0,3%	99,4%	88,3%
12	1	0,1%	99,4%	88,8%
14	1	0,1%	99,5%	89,4%
15	1	0,1%	99,6%	90,1%
16	2	0,1%	99,7%	91,4%
24	1	0,1%	99,7%	92,4%
29	1	0,1%	99,8%	93,6%
32	1	0,1%	99,9%	95,0%
51	1	0,1%	99,9%	97,1%
68	1	0,1%	100,0%	100,0%

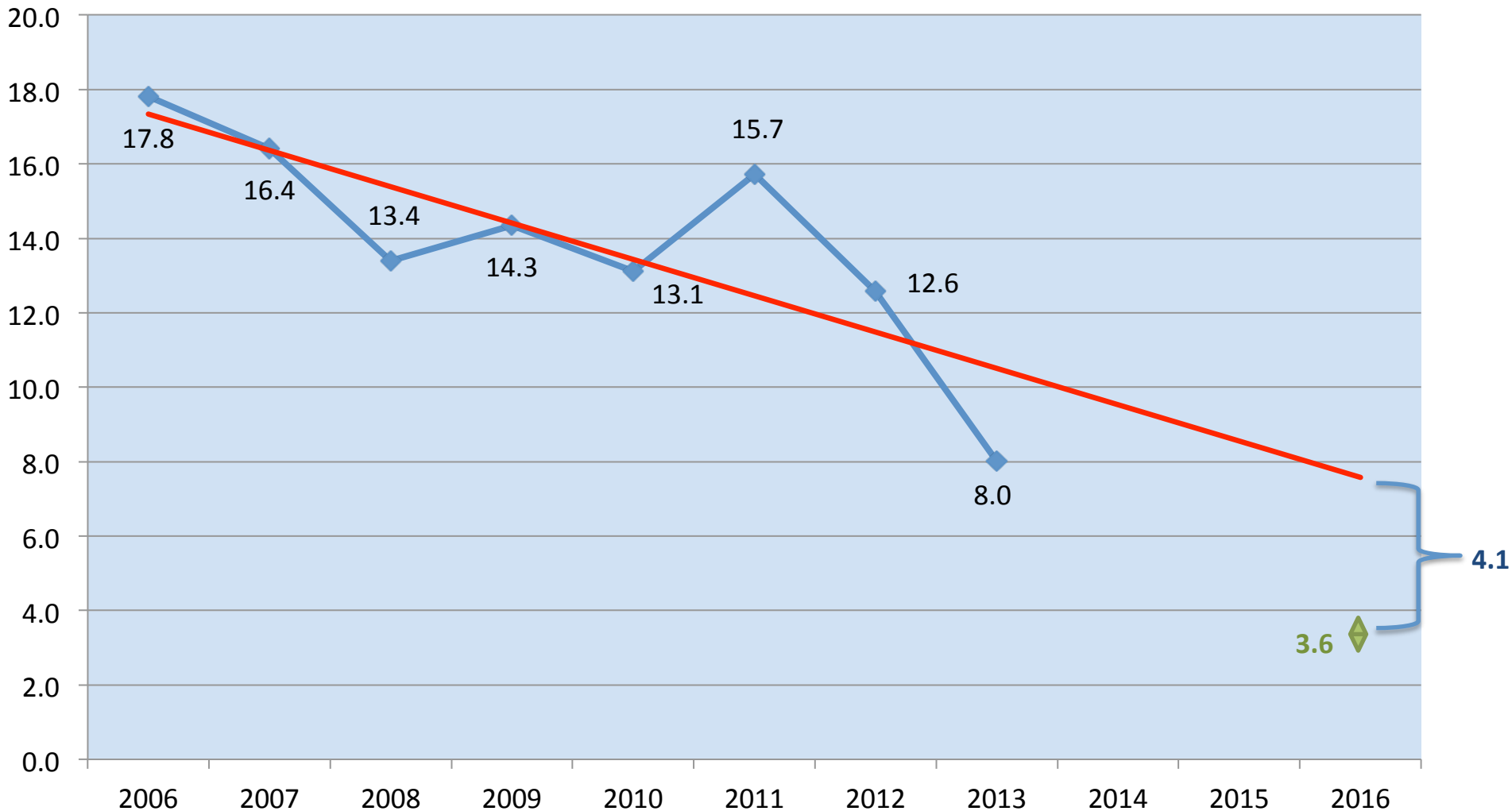
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Civil Helicopter Accidents



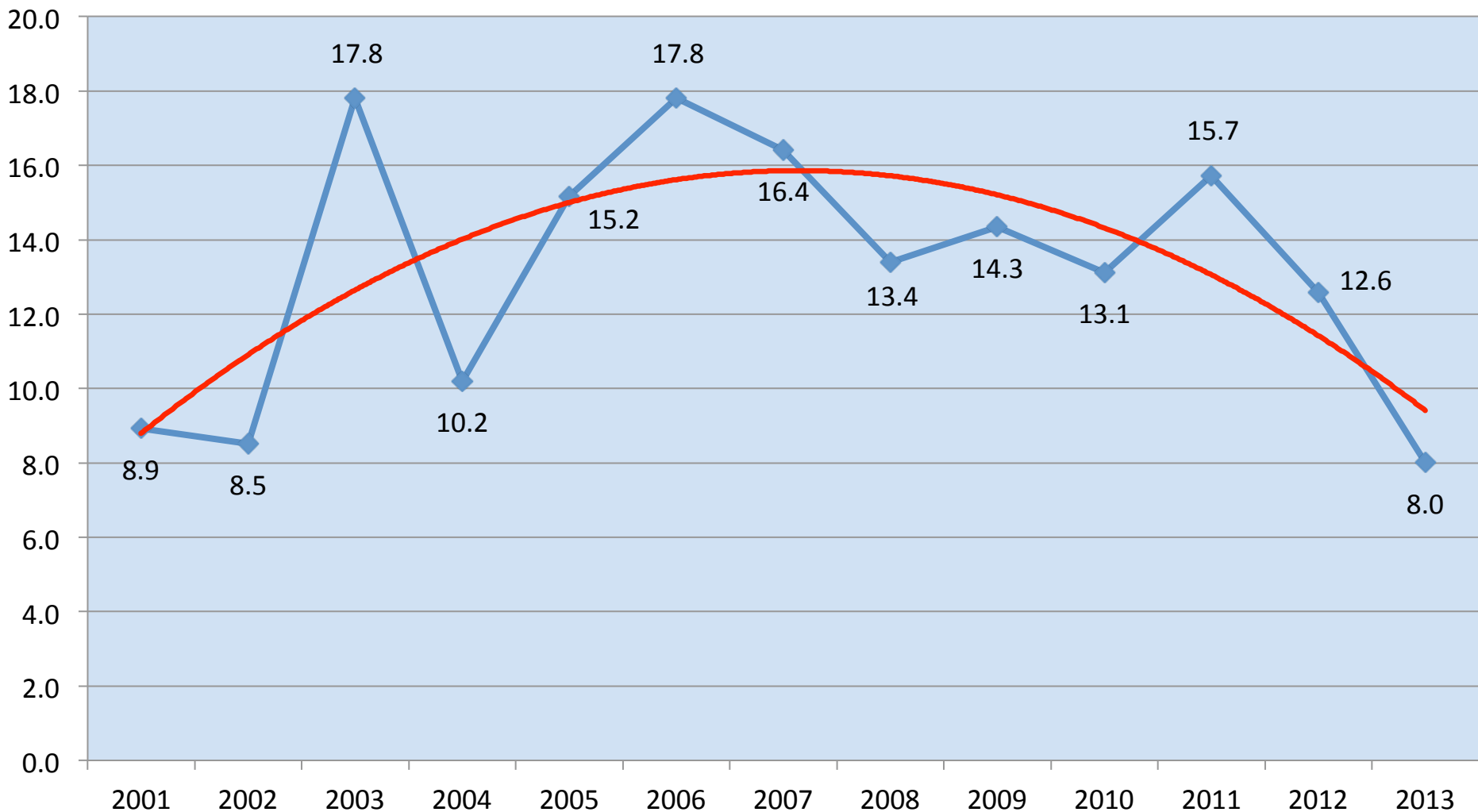
Source: CENIPA

Accidents per 1,000 aircraft



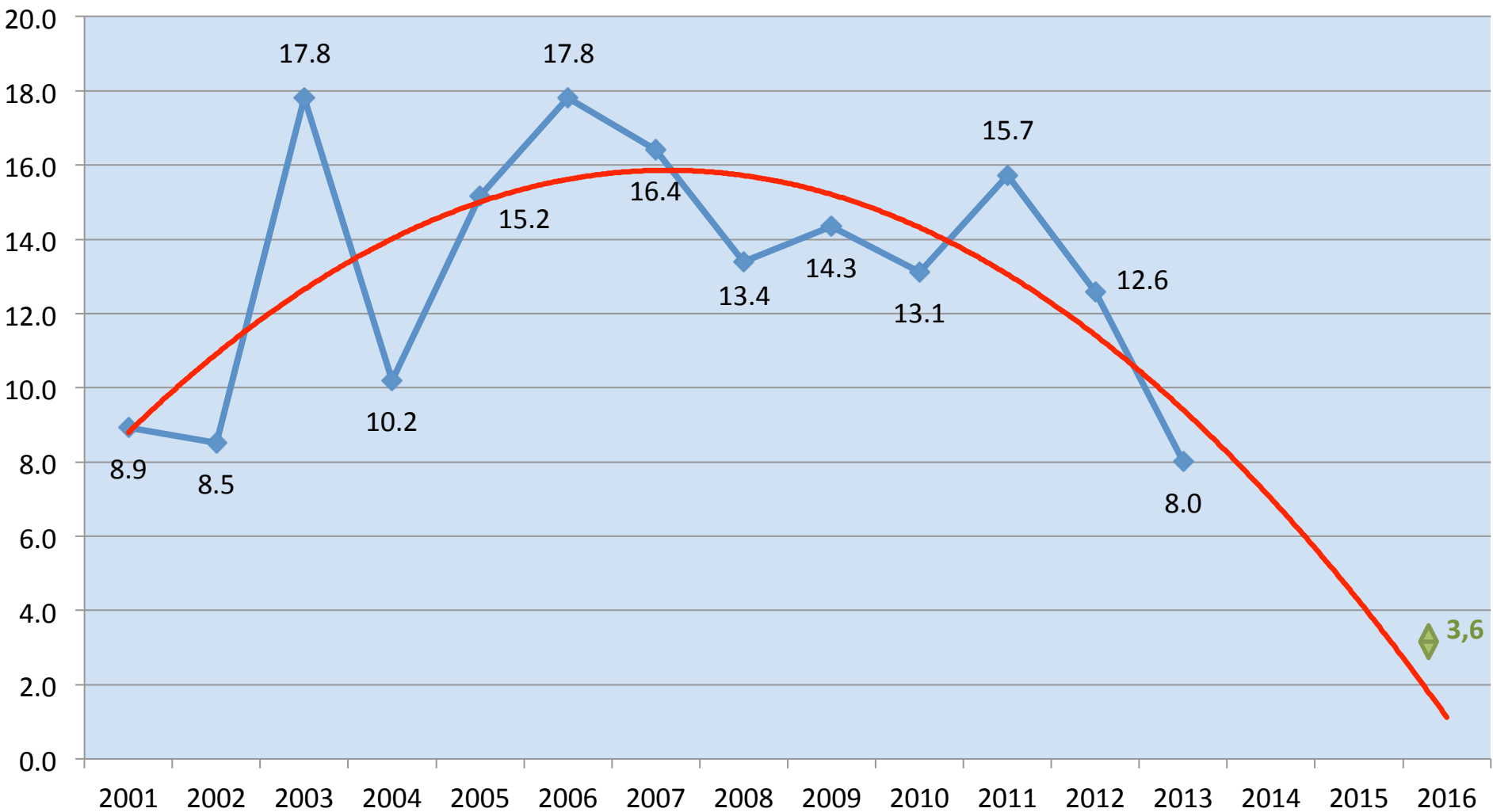
Source: IHST Brazil

Accidents per 1,000 aircraft



Source: IHST Brazil

Accidents per 1.000 aircraft



Source: IHST Brazil

Goals



1. Keep presenting IHST work on seminars and conferences;
2. Get attention and participation from:
 - ✓ ANAC;
 - ✓ OEM;
 - ✓ ABRAPHE;
 - ✓ Flight Schools;
 - ✓ Small operators;
3. Make IHST Brazil a commission under of CNPAA (National Aviation Accidents Prevention Committee); and
4. Change some regulations regarding pilot training and manuals.

Challenges



1. Consolidate accurate flight hours;
2. Financial support;
3. Bring more safety professionals to the group (mainly OEM and the regulator);
4. Reach the “one aircraft” operator – spread and not interested;
and
5. Measure our effectiveness.



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Thank you !!!



IHST Brazil Members List



- ✓ Ana Claudia Galvão – BHS
- ✓ Paulo Queiroz – Brazilian Army
- ✓ Antonio Modesto – Airbus Helicopters
- ✓ Bruno Villela and Raul Barradas – Brazilian Navy
- ✓ Reynaldo José dos Santos – ANAC
- ✓ Benedito Boanerges A. Vieira – Petrobras
- ✓ José Maria Marun – MAR1
- ✓ Reynaldo Ribeiro – Líder Aviação
- ✓ Paulo Machado – HELIVIA
- ✓ Hamilton Carvalho Júnior - AgustaWestland
- ✓ Herialdo M. Ferreira Filho – PowerPack – Sikorsky
- ✓ Felipe Koller – Brazilian Air Force