

International Helicopter Safety Team

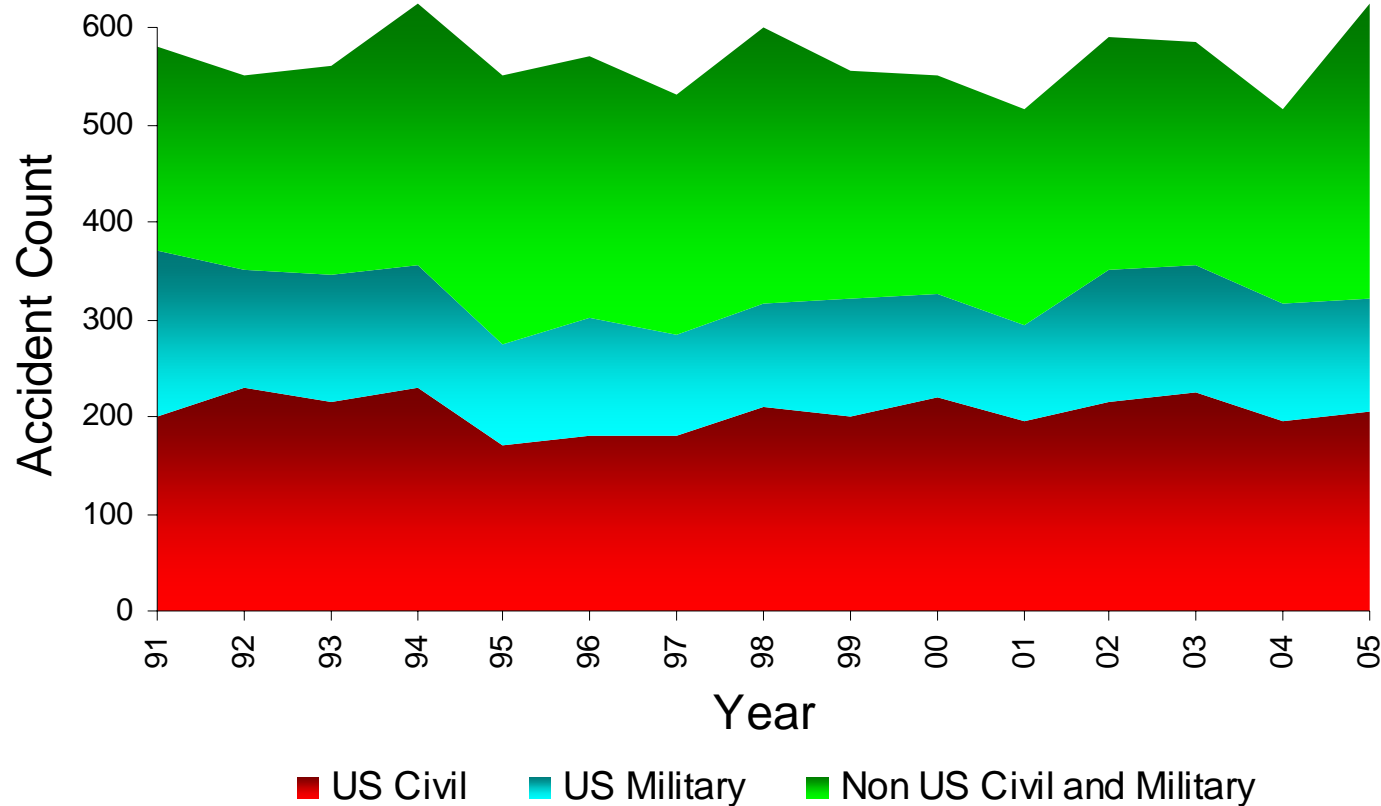
IHSS Opening Briefing

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Worldwide Helicopter Accidents per Year

1991 to 2005



Source - Bell Helicopter

We have a problem!

September 2005 – Montreal

International Helicopter Safety Symposium (IHSS)

300 attendees from the worldwide helicopter community

Unanimous position reached – unacceptable trends

International Helicopter Safety Team (IHST) formed

IHSS agenda overview

On tap for the week:

Tuesday: Opening remarks, IHST overview

USJHSAT

USJHSIT

EHEST update

Metrics

VIP speakers:

Wendy Tadros – Chairperson TSB Canada

Robert Sumwalt – NTSB Board Member

John McGraw – Deputy Director, FAA Flight Stds

Patrick Hudson – Professor, Leiden University

IHSS agenda overview

Wednesday: Regional updates – CA/India/BR/AU/GCC/SA
ADS-B Update
Engine OEM perspectives
Training Panel discussion

Thursday: HEMS Panel discussion
Insurance Panel discussion
FAA SMS Perspective
Small operators panel discussion (two operators)
Panel chair wrap-up
IHST co-chair closing remarks

Progress since Sept 2005

In the US ~41% of the worldwide helicopter fleet,

analyzed over 500 accidents

nearing completion of 2006 data

developed and issued a series of toolkits,
Training, FDM, and revised SMS

Developing an aggressive implementation plan
to reach small and medium size operators.

Progress since Sept 2005

On the international stage:

Mature partnerships with the EU, Brazil and Canada. Each have or are near issuing analytical reports.

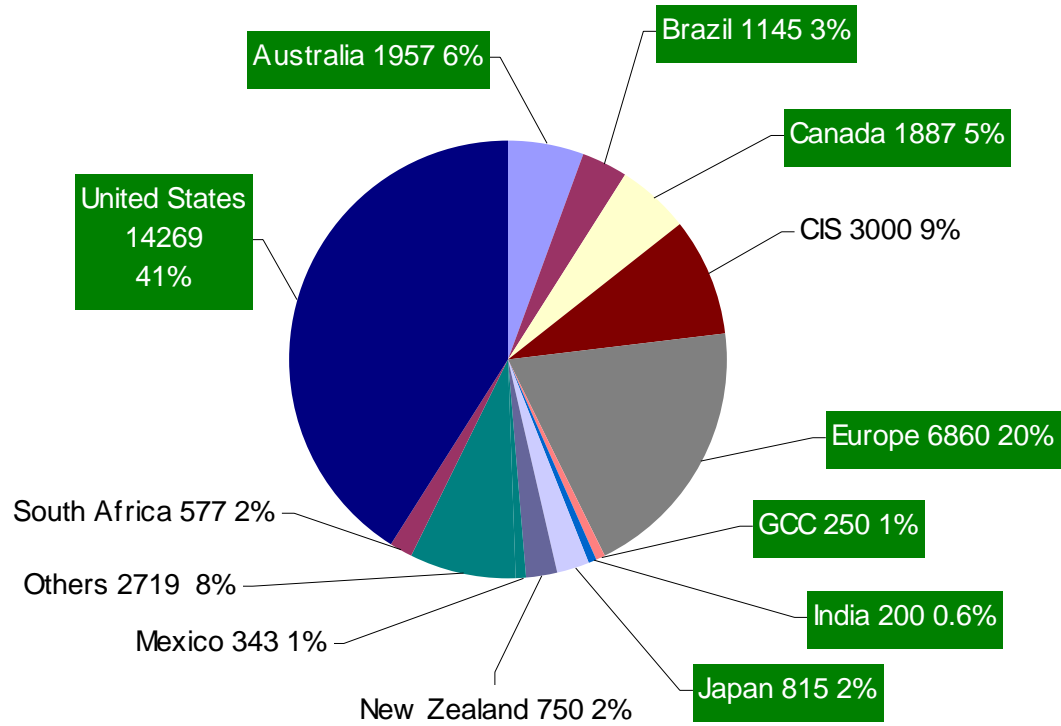
Developing partnerships with Australia, India, GCC, and Japan.

Exploratory meetings planned with CIS, S. Africa, Korea and Mexico.

IHST is engaged with ~92% of the worldwide fleet!

Worldwide Civil Helicopter Fleet Distribution 34722 aircraft

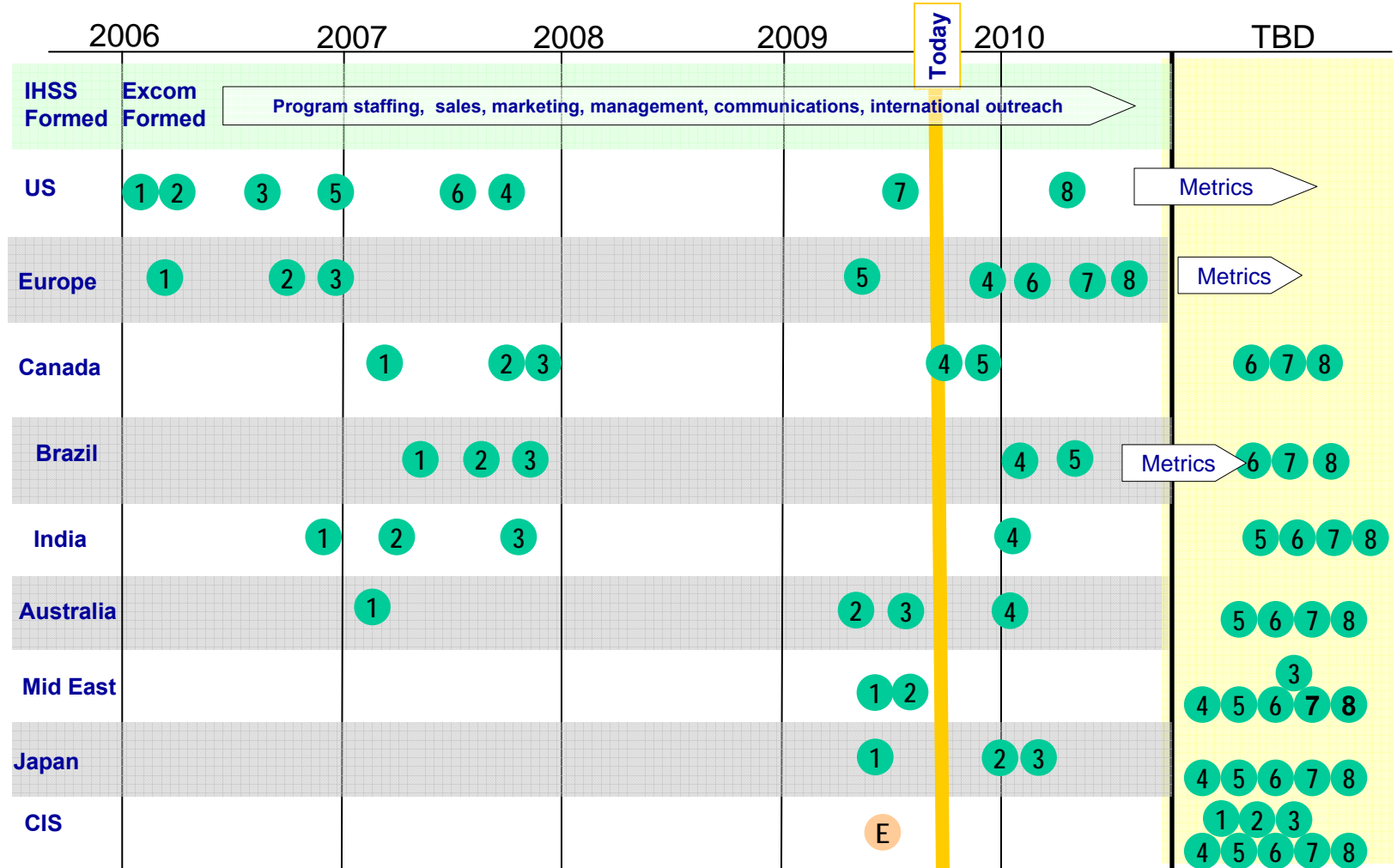
IHST Partner



Worldwide participation is key to success

updated Sept '09

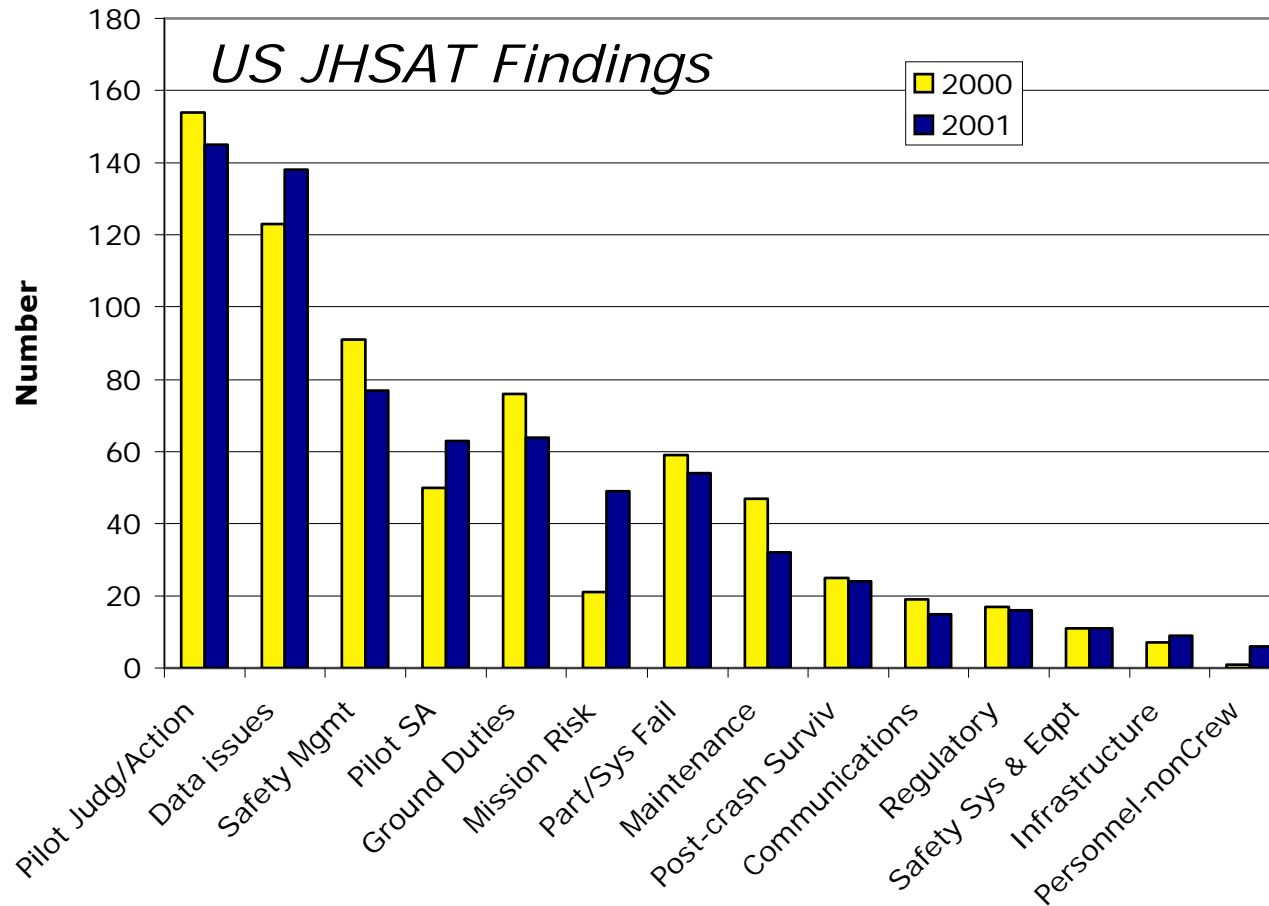
IHST Program - Regional Process Tracking



- Key:**
- 1 Regional Kickoff Meeting
 - 2 JHSAT Team Formed
 - 3 Accident Dataset Established
 - 4 JHSAT Report Complete
 - 5 JHSIT Formed
 - 6 JHSIT Process Refined
 - 7 JHSIT SEs complete
 - 8 JHSIT DIPs complete
 - E Regional "exploratory" mtg

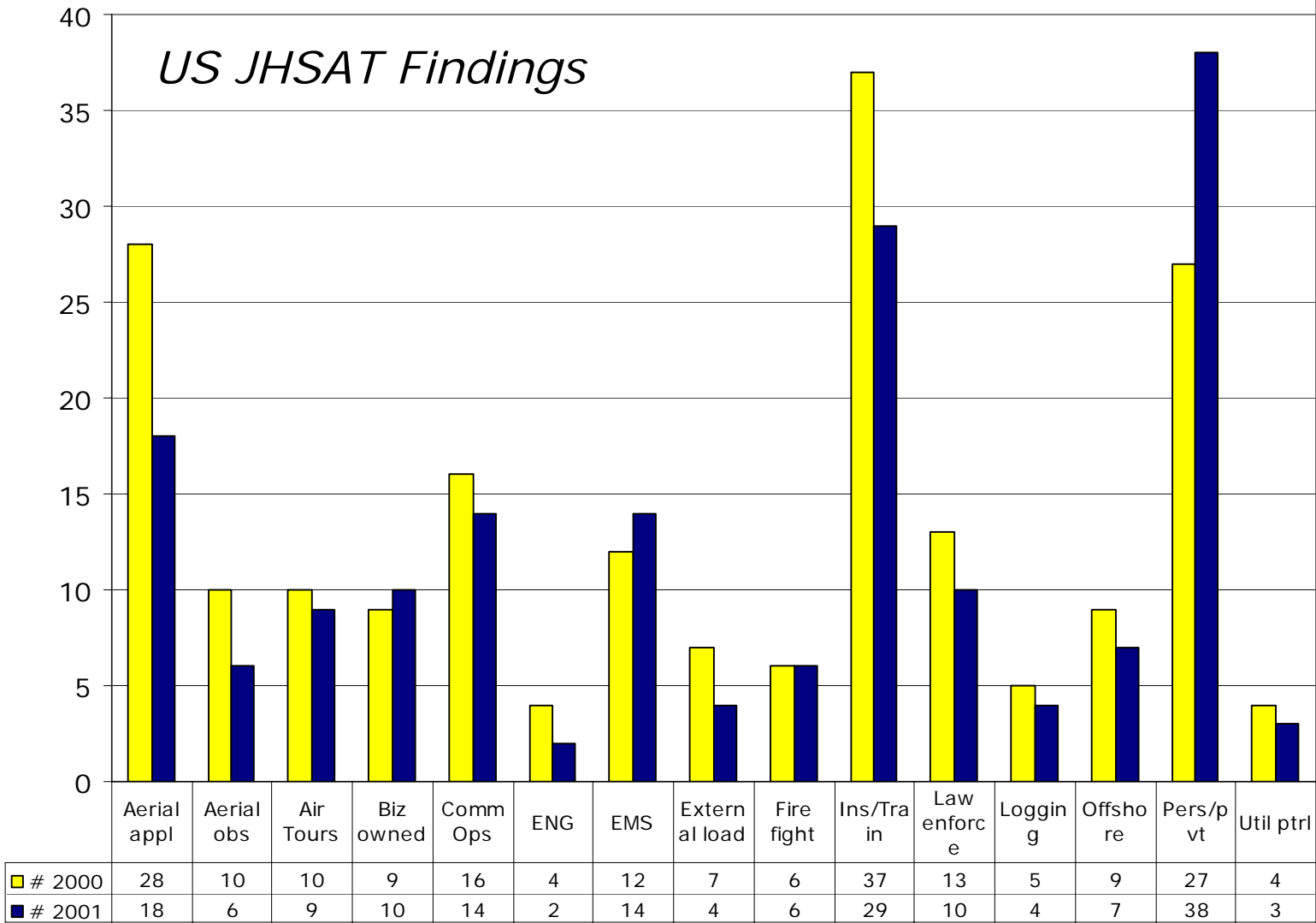


Accidents in which Problem Category was Cited at least Once



Missions: 2000 vs 2001

■ # 2000
■ # 2001



Prioritized US Fleet-wide Recommendations

1. Safety Management
2. Training
3. Systems and Equipment
4. Information
5. Maintenance
6. Regulatory Recommendations
7. Infrastructure

Detailed problem/solution info for 15 missions also developed

On line US Risk Assessment Survey results

	<u>1-5</u>	<u>6-10</u>	<u>11-50</u>	<u>51-100</u>	<u>100+</u>
Helicopters operated?	14%	21%	21%	7%	36%
Recs germane to ops?	<u>Yes</u>	<u>Mostly</u>	<u>Partly</u>	<u>No</u>	<u>No ans</u>
	79%	7%	7%	7%	0
Recs incompatible with ops?	<u>No</u>	<u>Partly</u>	<u>Mostly</u>	<u>Yes</u>	<u>No ans</u>
	50%	29%	0	7%	14%
Aspect of ops not addressed by recs?	<u>No</u>	<u>Partly</u>	<u>Mostly</u>	<u>Yes</u>	<u>No ans</u>
	50%	14%	0	7%	29%
Will your company be adopting any of the recs?	<u>Yes</u>	<u>Mostly</u>	<u>Partly</u>	<u>No</u>	<u>No ans</u>
	57%	14%	0	7%	21%
Willing to be part of IHST promo events?	<u>Yes</u>			<u>No</u>	<u>No ans</u>
	79%			21%	0

Correlation – Worldwide and US findings

Quantative – top SPS categories in EHEST and USJHSAT analyses – 87% correlation

Qualitative – Findings from Canada, Brazil and survey results from GCC indicate significant overlap with EHEST and USJHSAT findings

Synergy? – as the analytical findings mature IHST will likely have opportunities to make universal safety recommendations

US Implementation Challenges

Target audience is the 1 to 5 ship operators

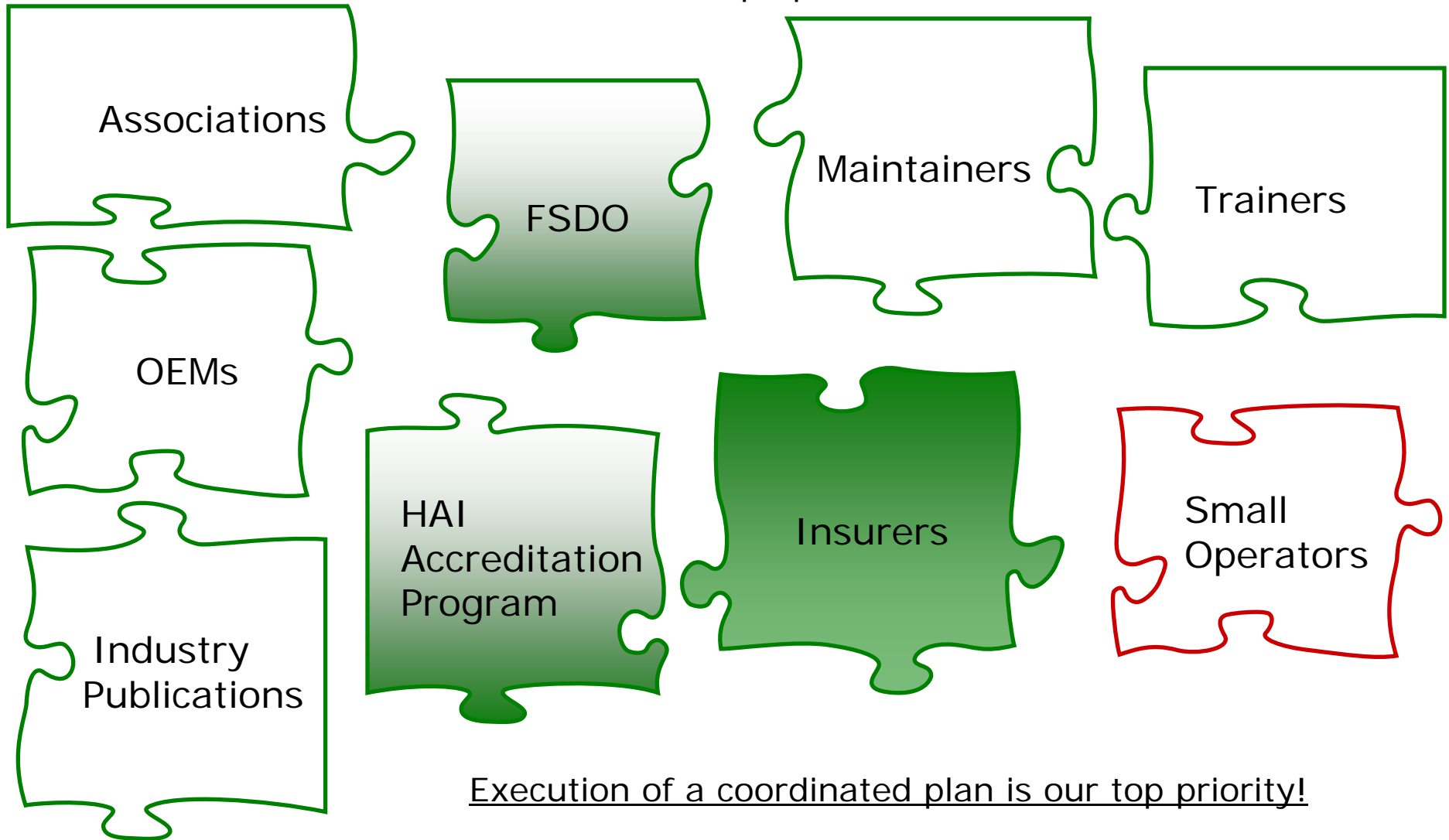
USJHSIT not staffed to interact with 1000+ operators

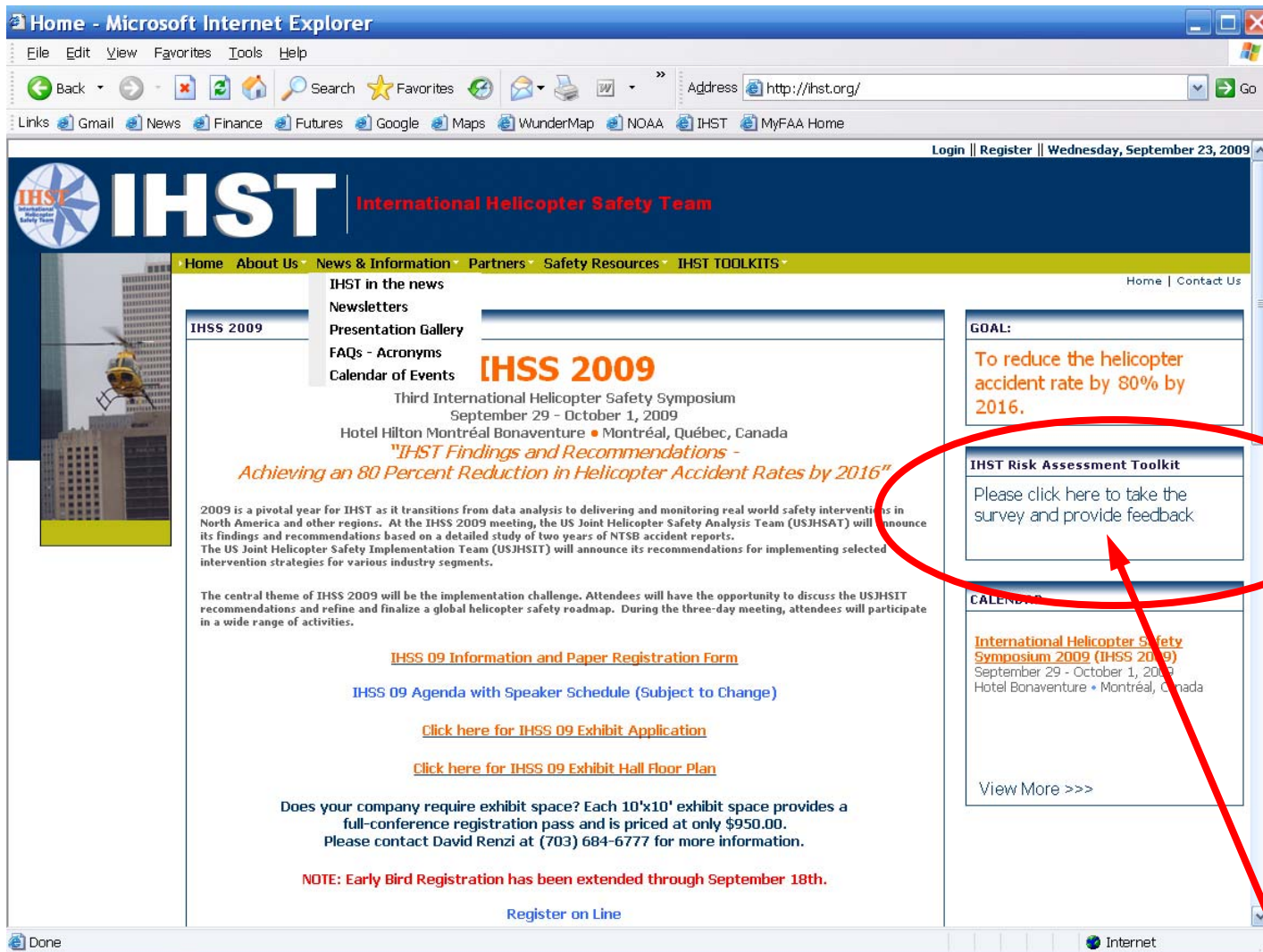
We need to win hearts and minds, little we recommend will be mandated by government

Need to leverage system and infrastructure channels to influence change

Pathways to Influence Change in the US

1 to 5 ship operators





ihst.org - visit our web site, take the risk survey

gracias धन्यवाद tak ありがとうございます danke obrigado

In Conclusion:

IHST addresses a widely recognized problem – Agreement in the worldwide helicopter community; long term accident trends are unacceptable.

IHST has gained momentum – partnerships and plans in place to work with ~92% of the worldwide helicopter fleet.

Strong correlation in preliminary results – may help to develop common approaches to improving safety, however need to watch all the data play out.

Cooperation is key – we couldn't do this without the dozens of volunteer's who have committed their time and wisdom.

kiitos! _Pakka þér fyrir متشكراً merci go raibh maith agat diolch