



Brazilian JHSAT Update

By
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Co-chair JHSAT-Br



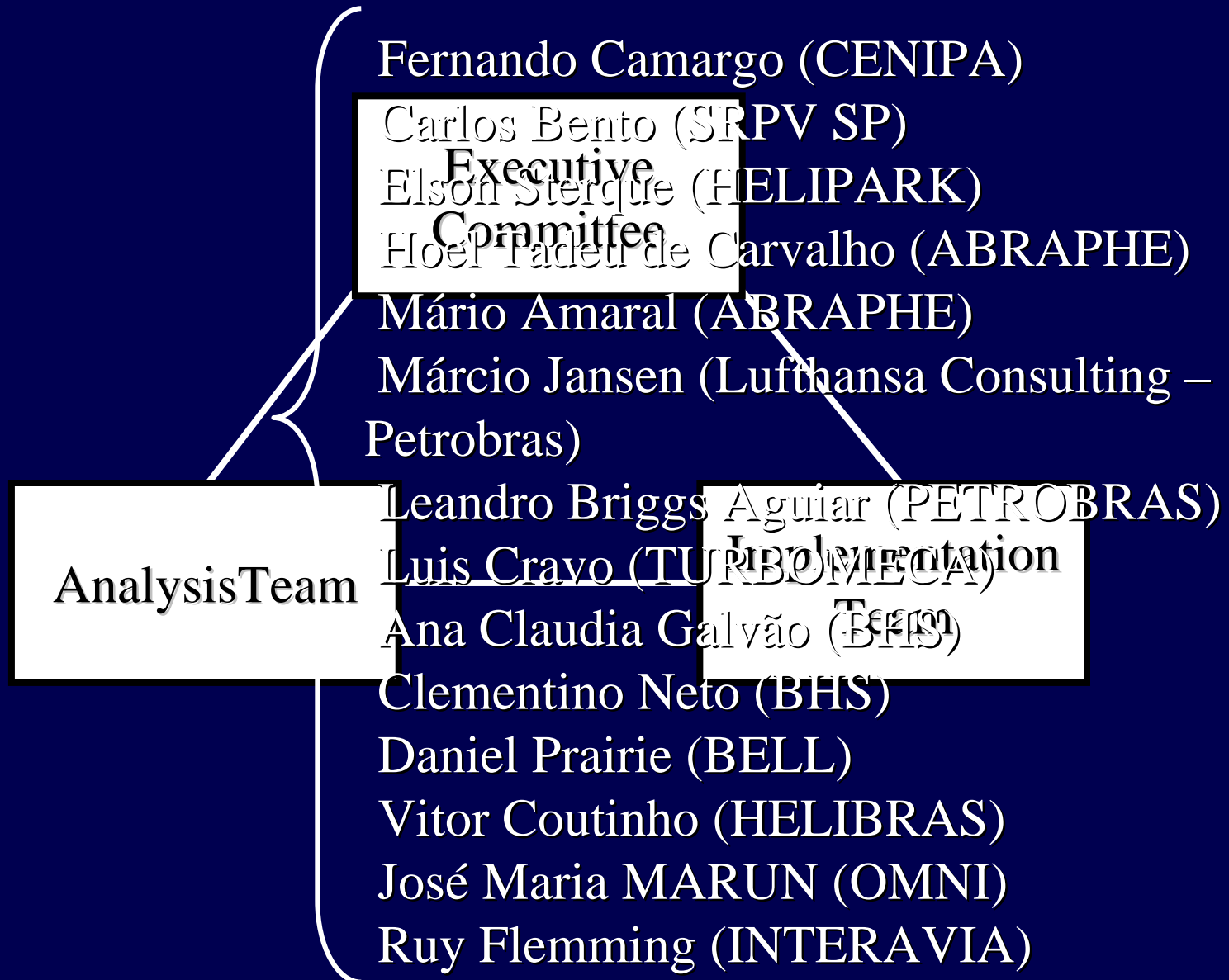
OVERVIEW

- Brazilian Civil Helicopter Numbers
- The Evolution of the Analysis Team
- Partial Results

JHSAT - Brazil

- Analysis group (JHSAT – Brazil)
 - 1st Meeting at CENIPA 17 to 19 of July 2007
 - Presenting the methodology and purposes
 - Translation of US JHSAT Tool
 - Schedule for next meetings
 - On October of 2007 the Team began the analysis

The First Structure of the Brazilian Team



The Actual Structure of the Brazilian Team

AnalysisTeam

- Fernando Camargo (CENIPA) Co-chair
- Ana Claudia Galvão (BHS) Co- Chair
- Uberacy Tottoli (CENIPA)
- Emerson (SRPV SP)
- Elson Sterque (HELIPARK)
- Hoel Tadeu de Carvalho (ABRAPHE)
- José Maria MARUN (PETROBRAS)
- Maurício Maranhão (TURBOMECA)
- Modesto (Líder)
- Greg (BELL)
- Karim (Rolls Royce)
- Magane (HELIBRAS)

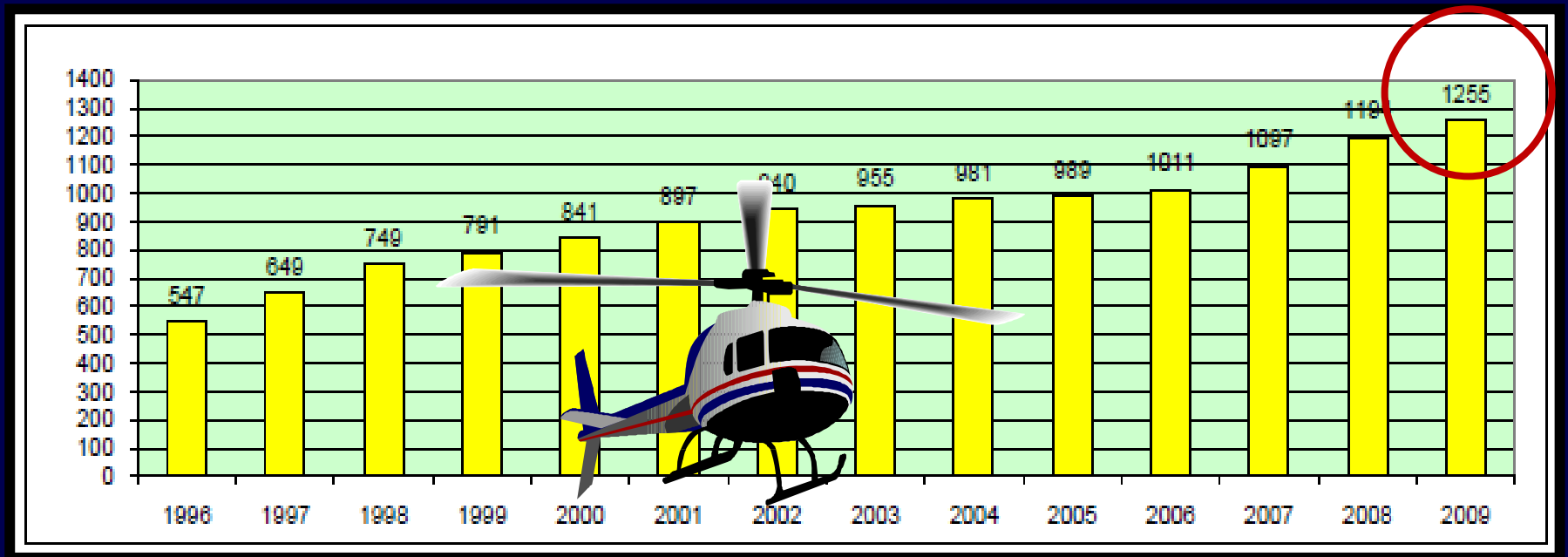
Obstacles - Challenges

1. Rotation in the team
2. Transition to the EHEST tool
3. Working with large groups

Next Steps

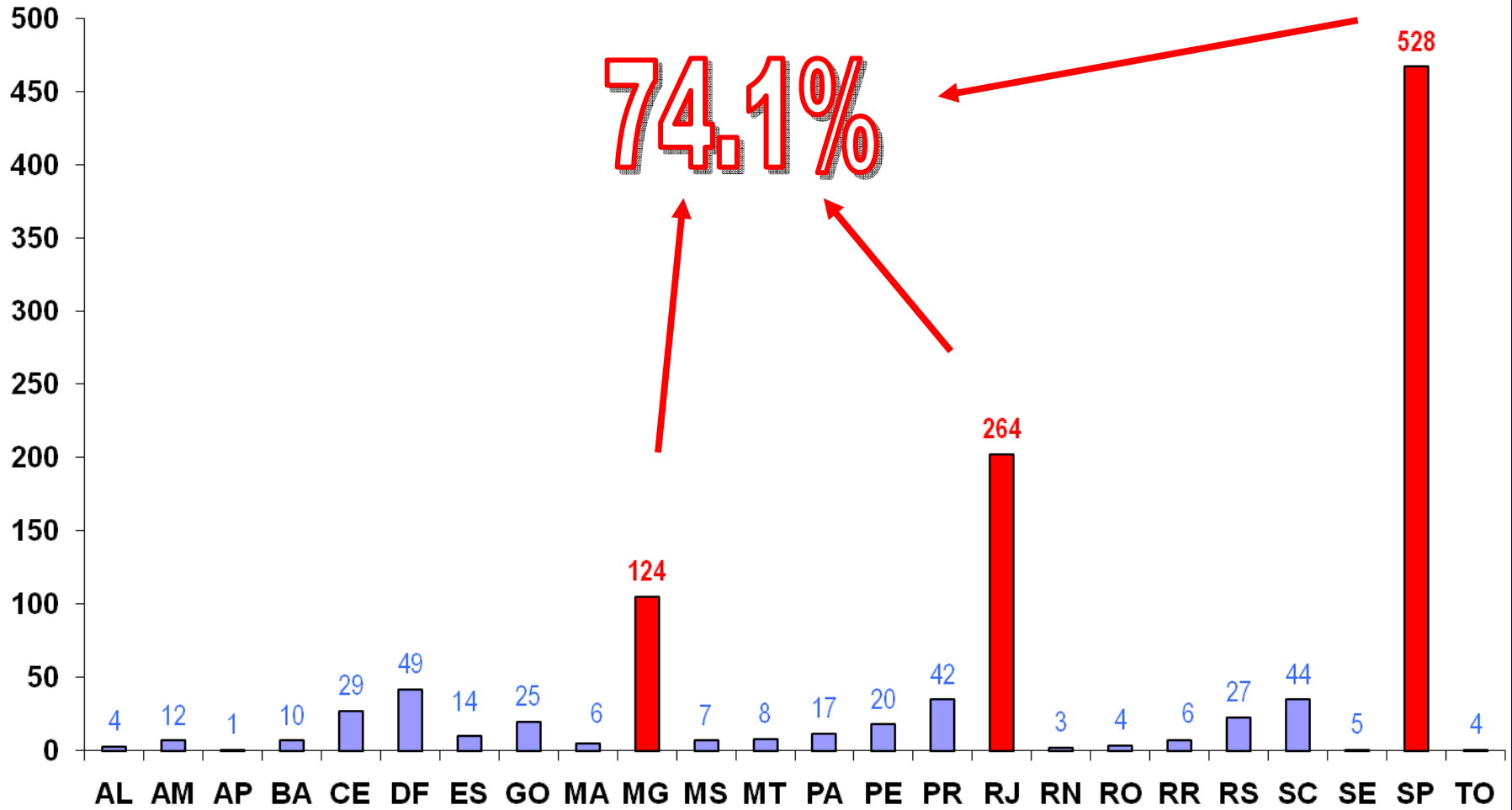
1. Creation and maintenance of a page in the internet
2. Working within 2 regional groups
3. Establish an implementation team

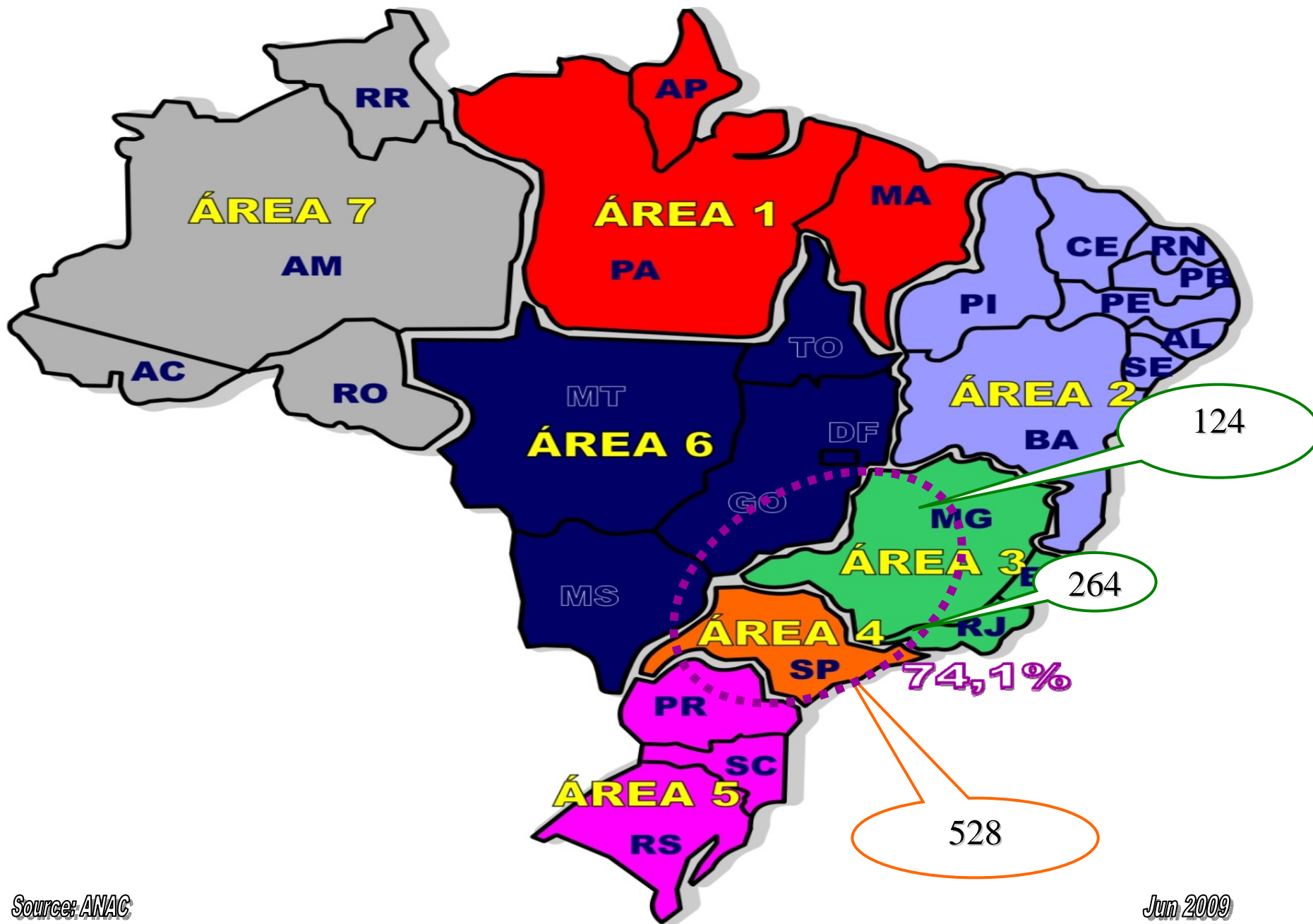
Civil Helicopter Fleet



Civil Helicopter Fleet = 1,255
(10.3% of the Civil Aircraft Fleet)

Concentration of Helicopters by Federal States (jun/2009)

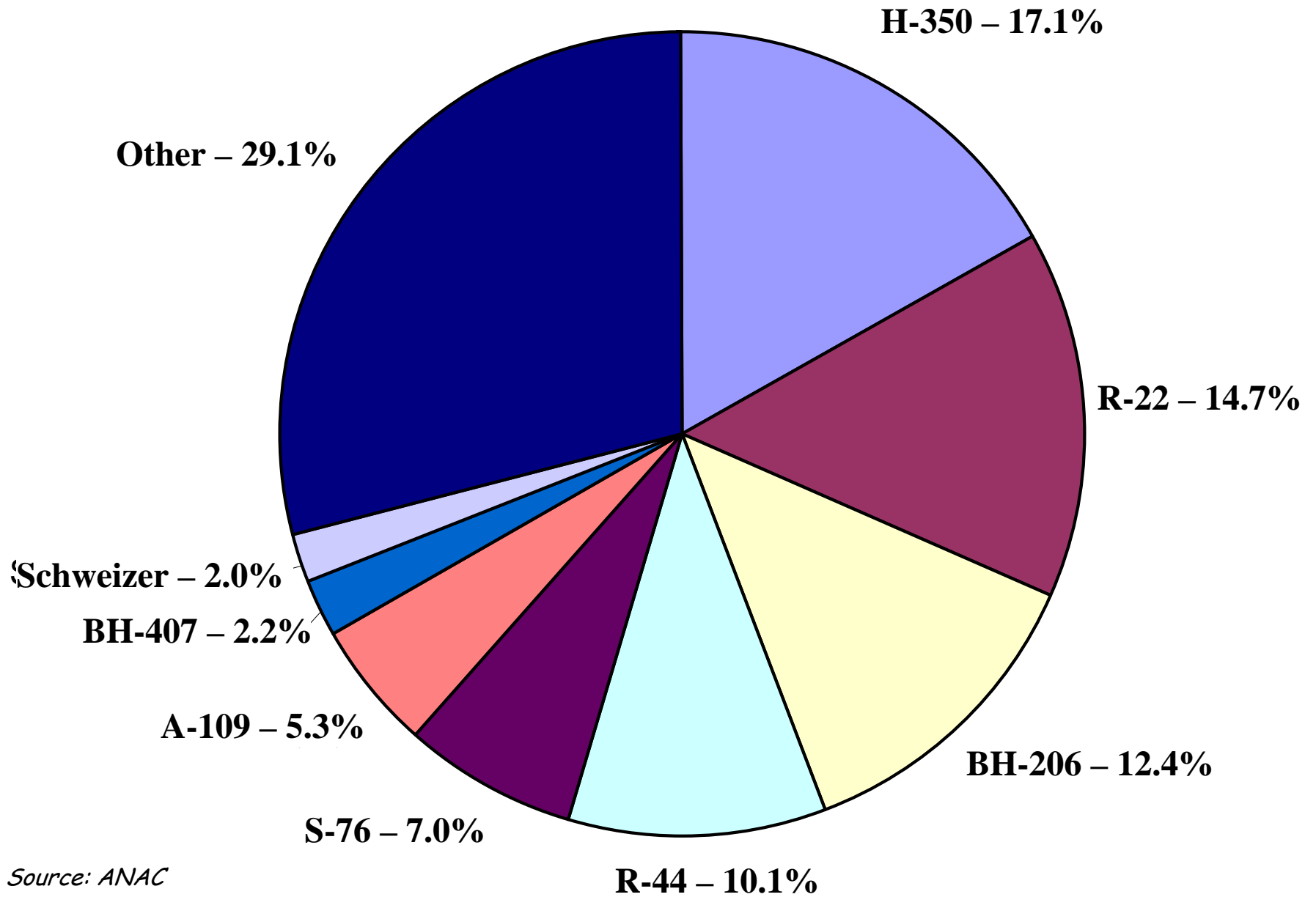




Source: ANAC

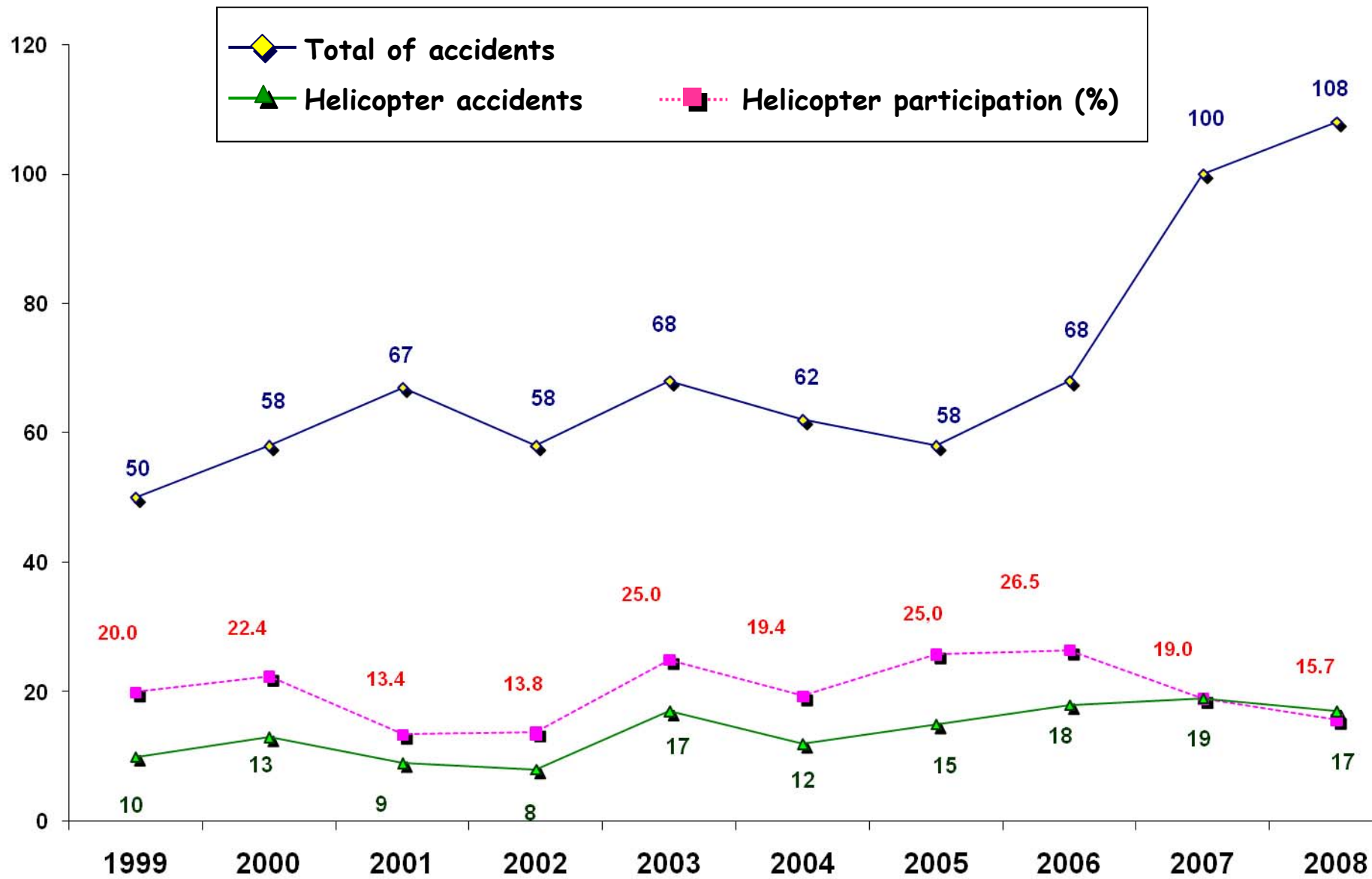
Jun 2009

Fleet by Model

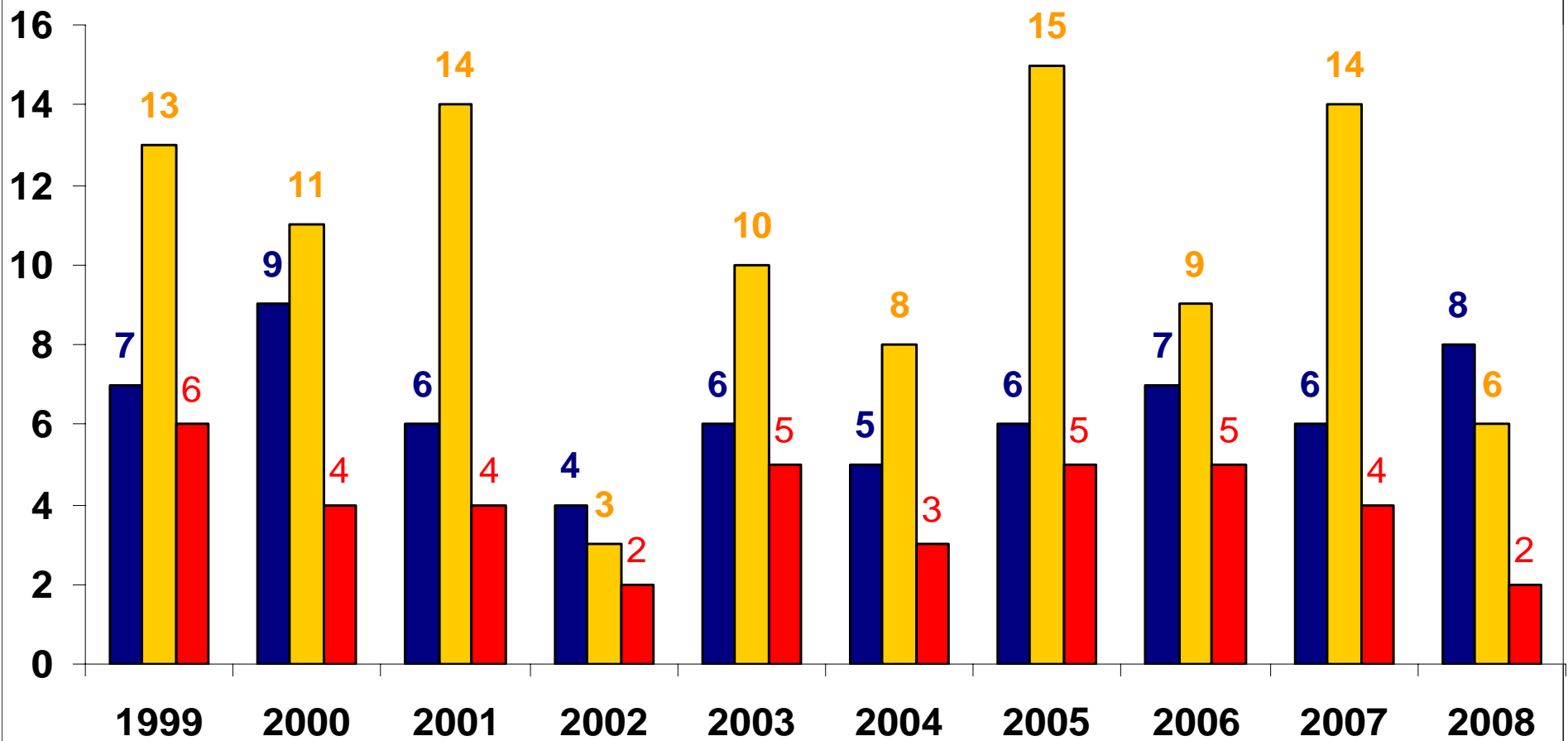
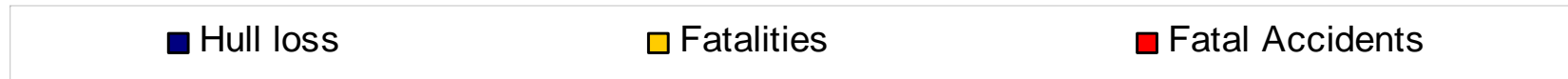


Source: ANAC

Participation of de helicopters in the civil fleet involved in accidents
1999 a 2008

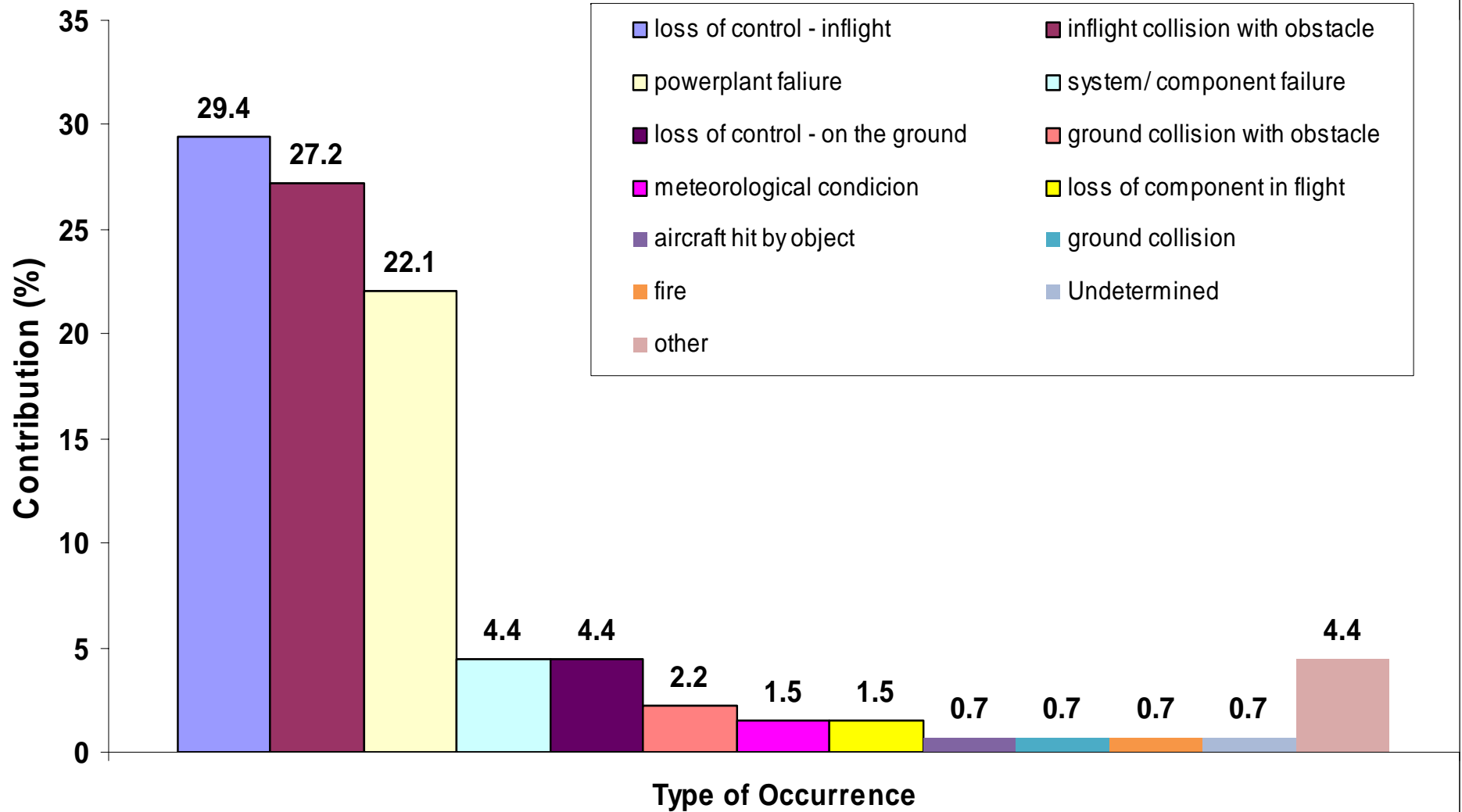


Hull loss, Fatalities and Fatal Accidents with Helicopters 1999 to 2008



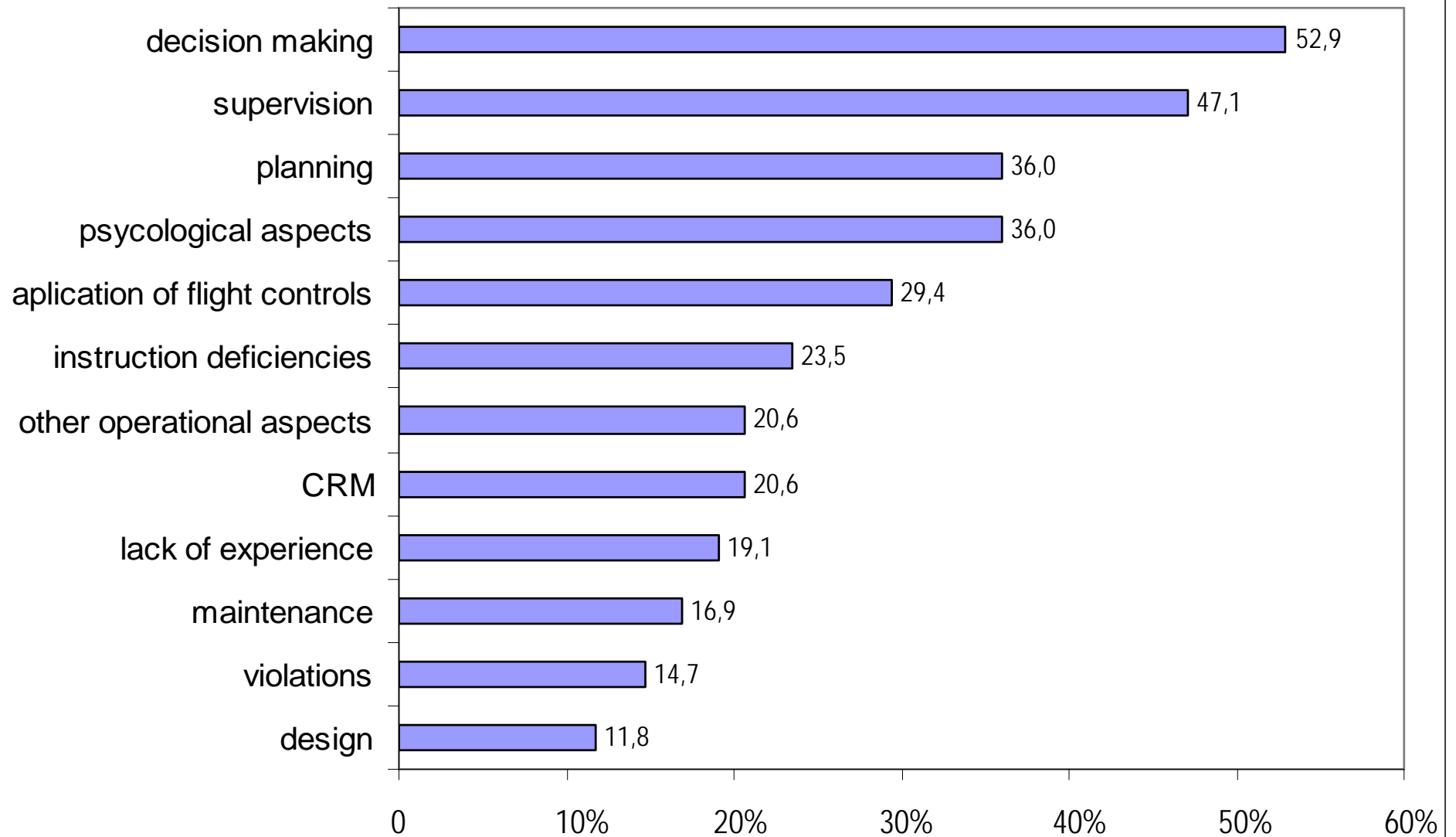
Source: CENIPA

Civil Helicopter Accidents by Category of Occurrence 1999 to 2008



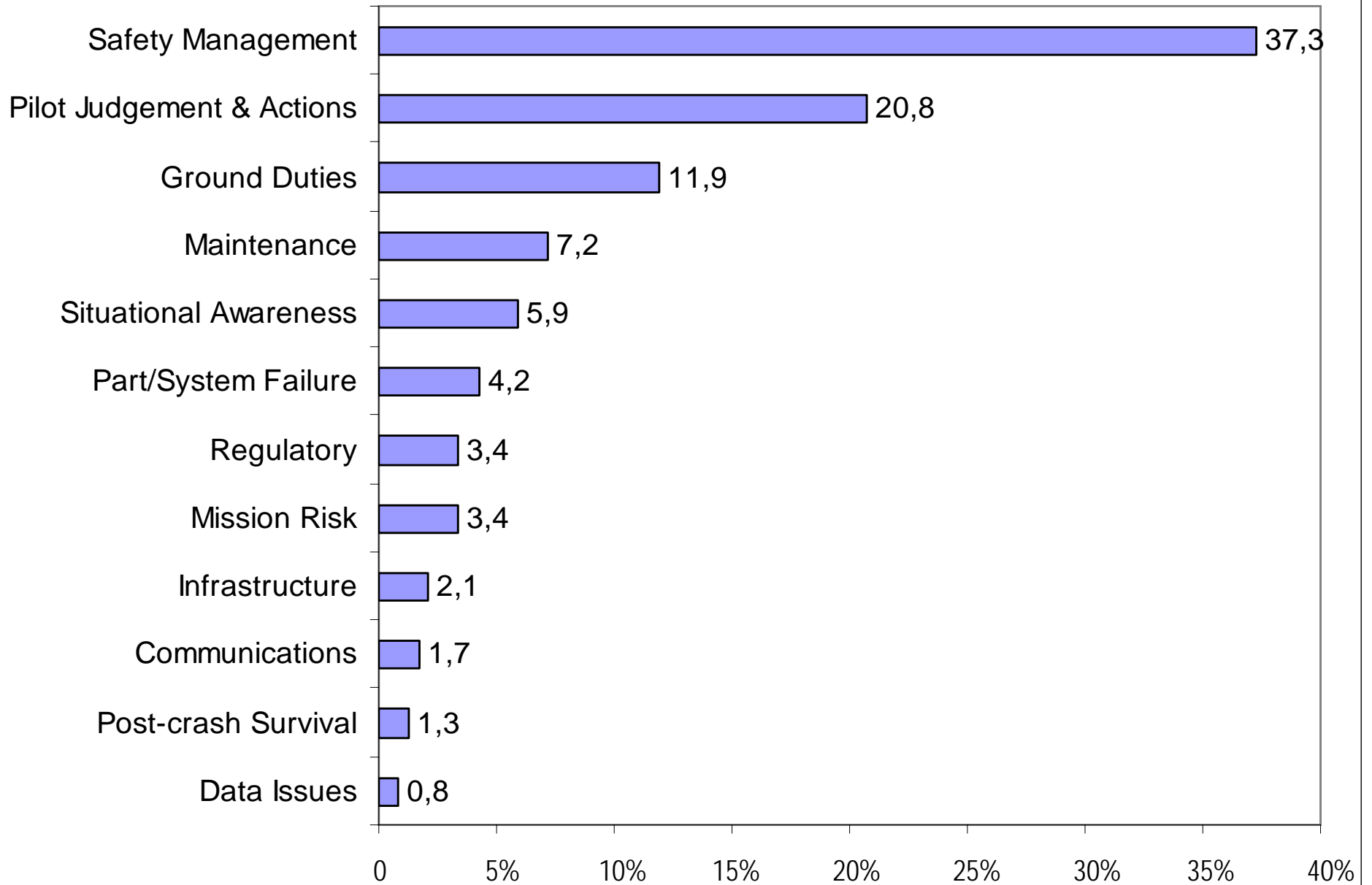
Source: CENIPA

Contributing Factors in Civil Helicopter Accidents 1999 to 2008

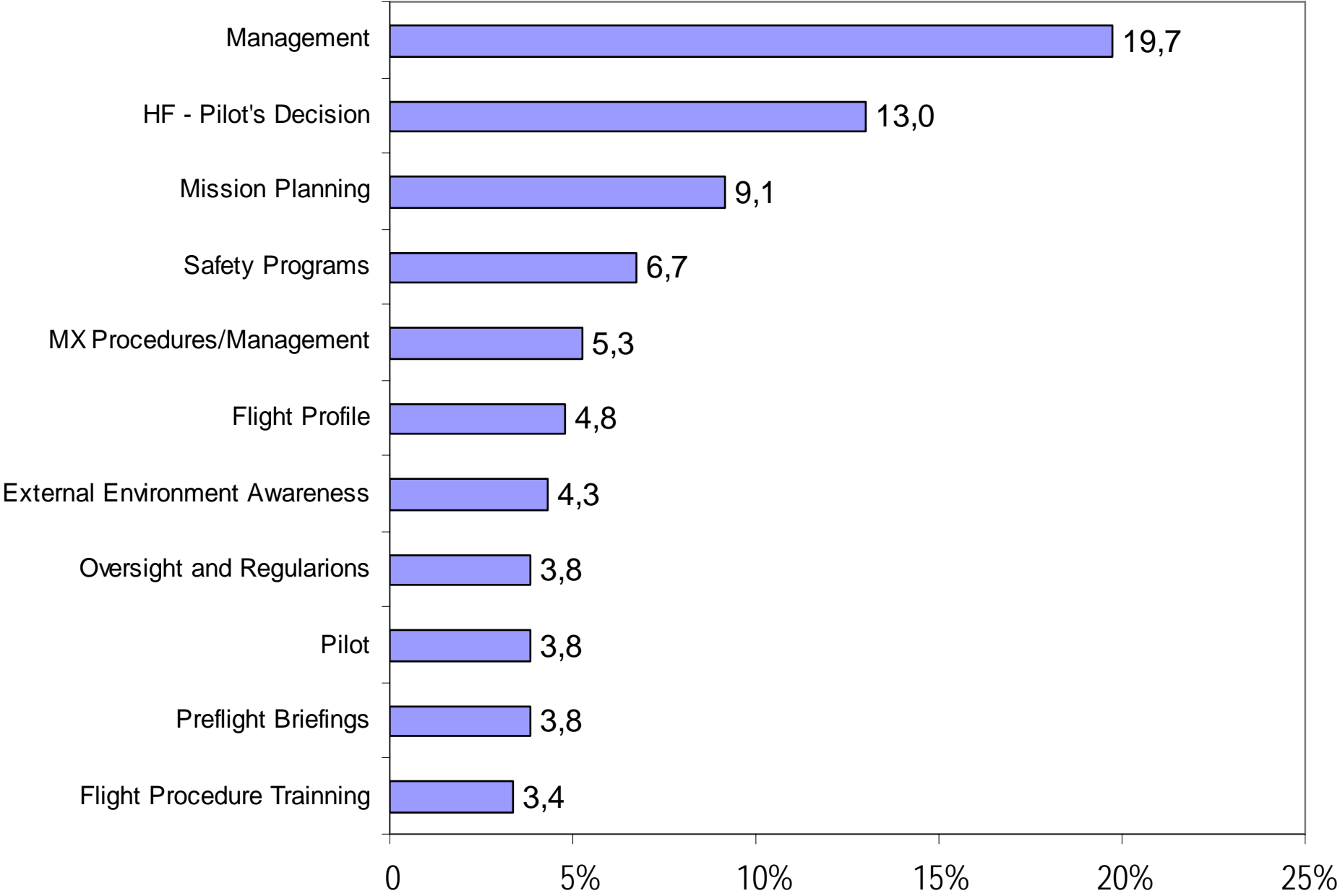


Source: CENIPA

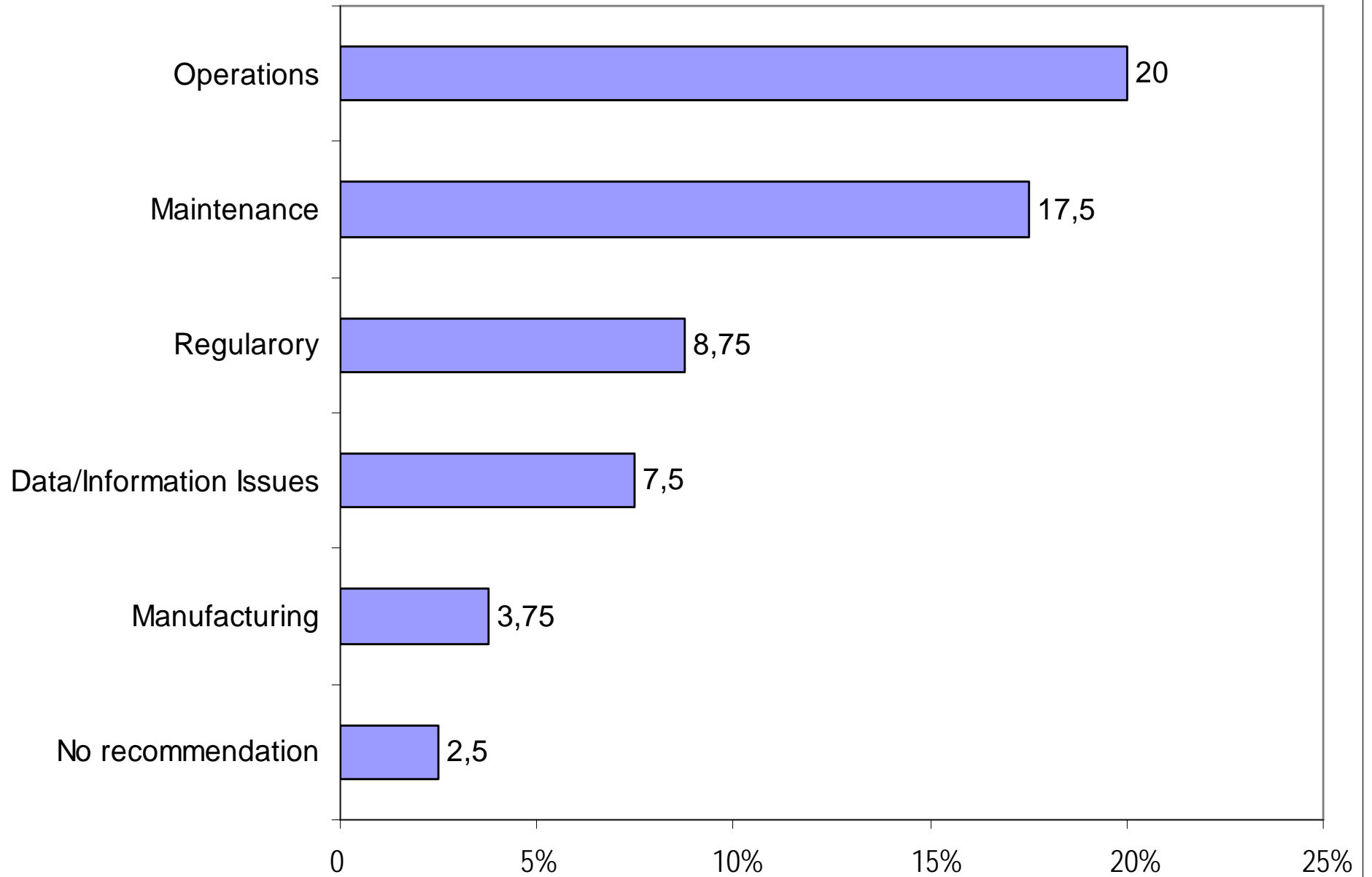
SPS Level 1 - Analysis



SPS Level 2 - Analysis




Interventions



Conclusion

So far, the similarity of our partial results indicates that we will probably have similar needs when it comes to intervention strategies...

A silhouette of a helicopter is visible in the center of the image, flying against a vibrant sunset sky with orange and red hues. The helicopter is positioned behind the main text.

***“It is not because things
are difficult that we
don’t dare to take risks,
it is because we don’t
take risks that things
are difficult”***

Seneca

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