



Safety Report

L'analisi degli eventi aeronautici

Come utilizzare i dati per migliorare la sicurezza

Occurrence Reporting





E' il sistema di
raccolta e di
analisi dei dati ai
fini della
prevenzione degli
incidenti

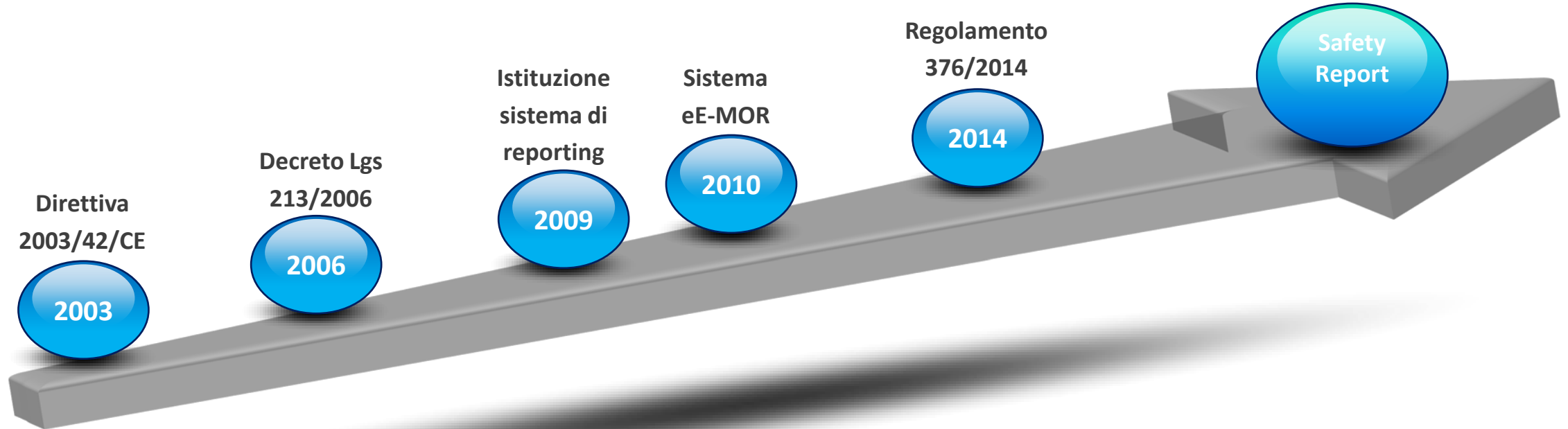


A top-down view of a person's hands typing on a silver laptop. The laptop is open, and the screen shows a reflection of the person's hands. To the right of the laptop is an open book with text on the pages. Below the book is a white smartphone. The entire scene is set on a dark, textured wooden surface. The image has a blueish tint.

La raccolta e l'analisi dei dati

Una storia che parte da lontano

L'evoluzione del reporting in Italia

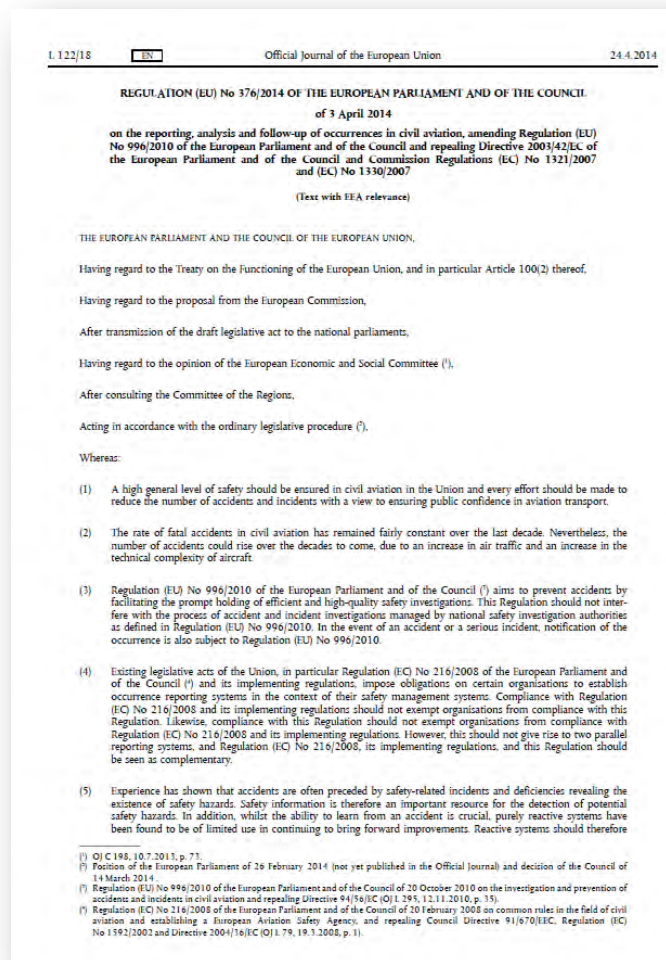




Il regolamento (UE) 376/2014 disciplina l'occurrence reporting in tutti i settori dell'Aviazione Civile



E' stato pubblicato sulla Gazzetta della Unione Europea il 24/4/2014 ed è entrato in vigore il **15/11/2015**



Operatori aerei



Costruttori e manutentori



Fornitori ATS



Gestori aeroportuali



Fornitori di servizi a terra



Piloti privati



Regolamento (EU) 376/2014



Abbiamo partecipato attivamente presso la UE al processo di elaborazione del regolamento

Questo ci ha permesso di prepararci meglio e più tempestivamente alla sua applicazione

Il sistema è stato profondamente modificato e le procedure interne completamente riviste

Si è anche lavorato molto affinché il set di dati diventasse il più ampio e completo possibile



Il sistema eE-MOR

Un tool per la Safety





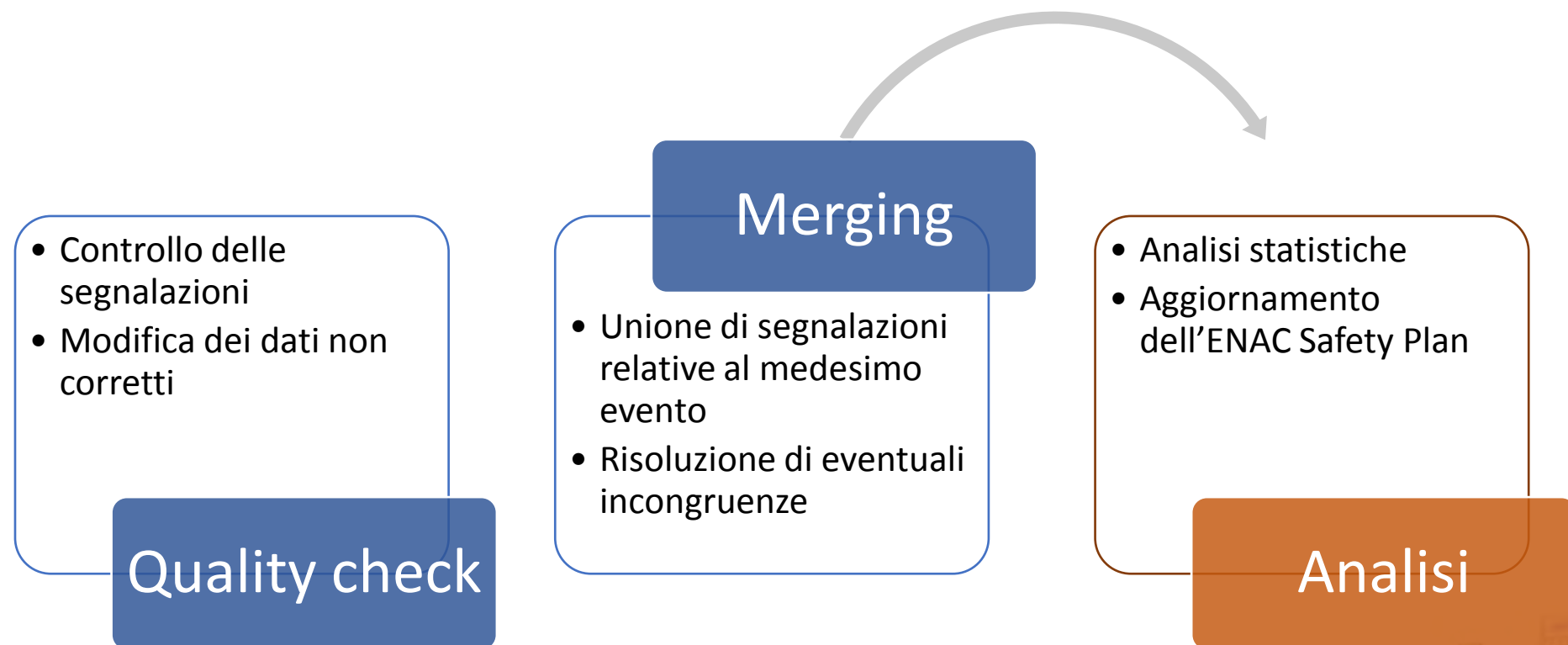
Il sistema eE-MOR è il sistema che l'ENAC ha predisposto per la **raccolta**, la **conservazione** e l'**analisi** delle segnalazioni sugli eventi aeronautici



eE-MOR significa:

electronic ENAC -
Mandatory Occurrence
Reporting

Il flusso di lavoro eE-MOR



L'analisi dei dati



Sviluppi del sistema eE-MOR

Sviluppi previsti

Interfaccia web migliorata

Reportistica on-line

Gestione dei Follow-up

Risk Analysis





II Safety Report

Il Safety Report



Il Safety Report è stato prodotto dalla
Funzione Organizzativa Safety

Il report analizza gli eventi del biennio
2014/2015

Risponde ai requisiti del regolamento
(EU) 376/2014

Il Safety Report

Il documento è in
lingua inglese

Non sono ancora
incluse le
segnalazioni di
ENAV e AM

Contiene alcune
analisi
comparative tra
aeroporti



Contiene anche
analisi di eventi
relativi al trasporto
di merci pericolose
e di bird/wildlife
strike

Il Safety Report



Ente Nazionale per l'Aviazione Civile

Safety Report

Annual Safety Report of the Italian Civil Aviation

Issued by ENAC Safety Unit

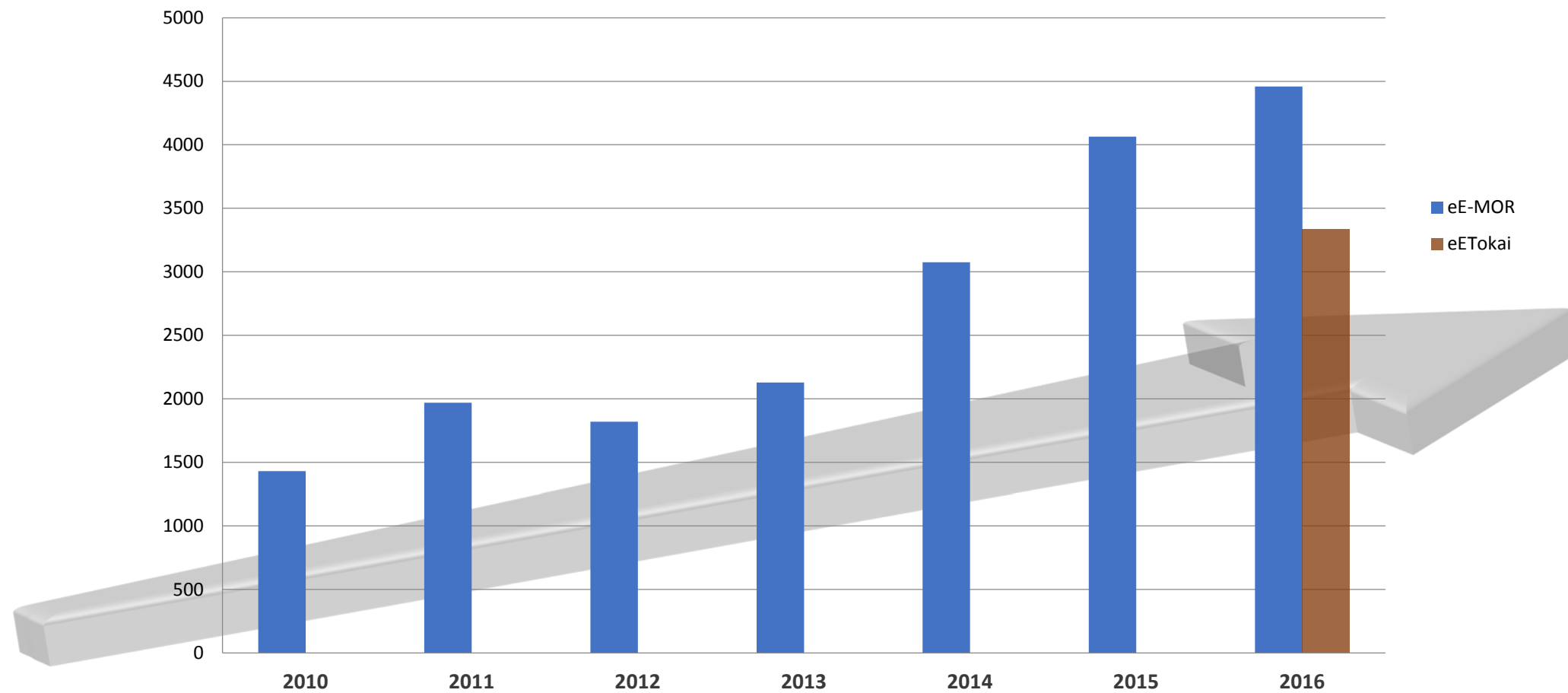


2014-2015



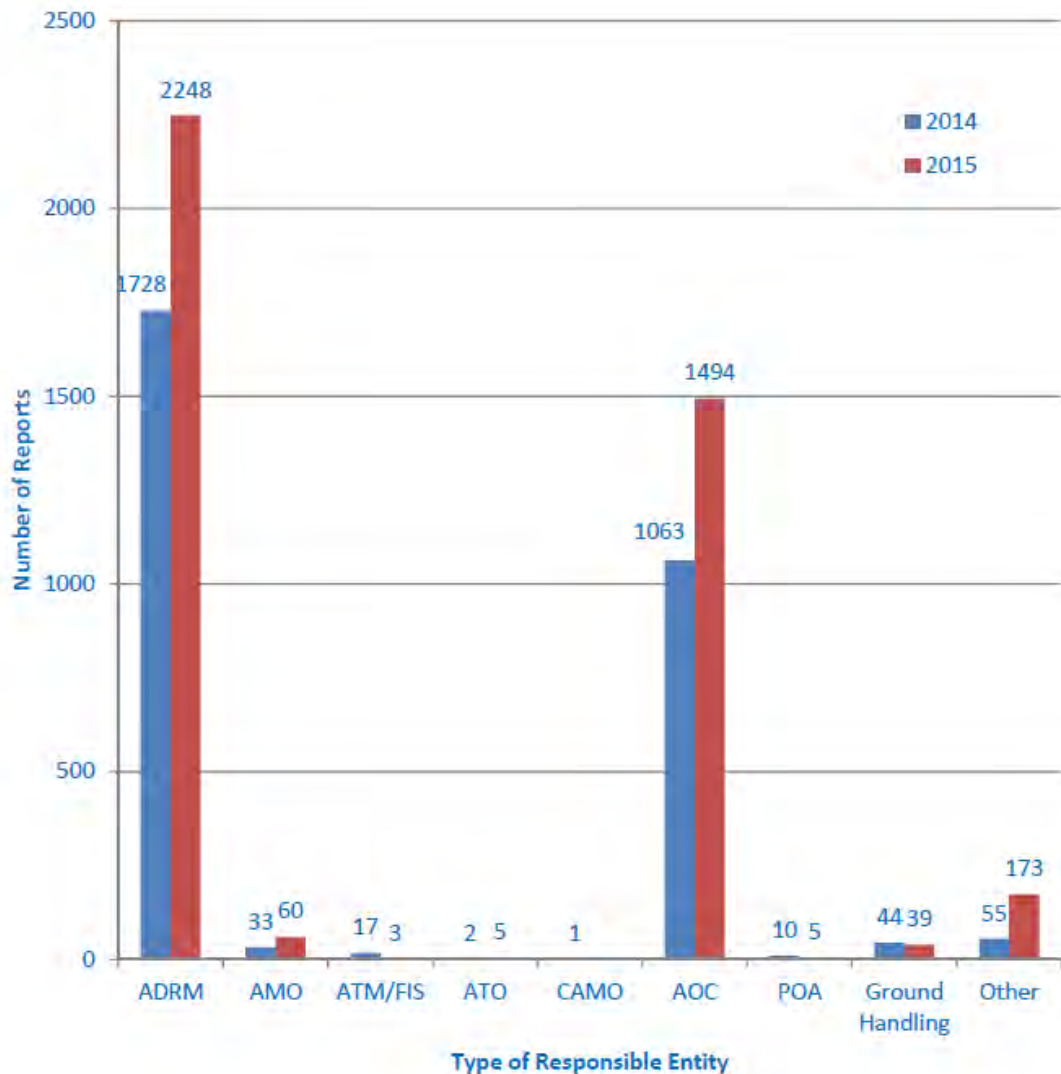


Segnalazioni

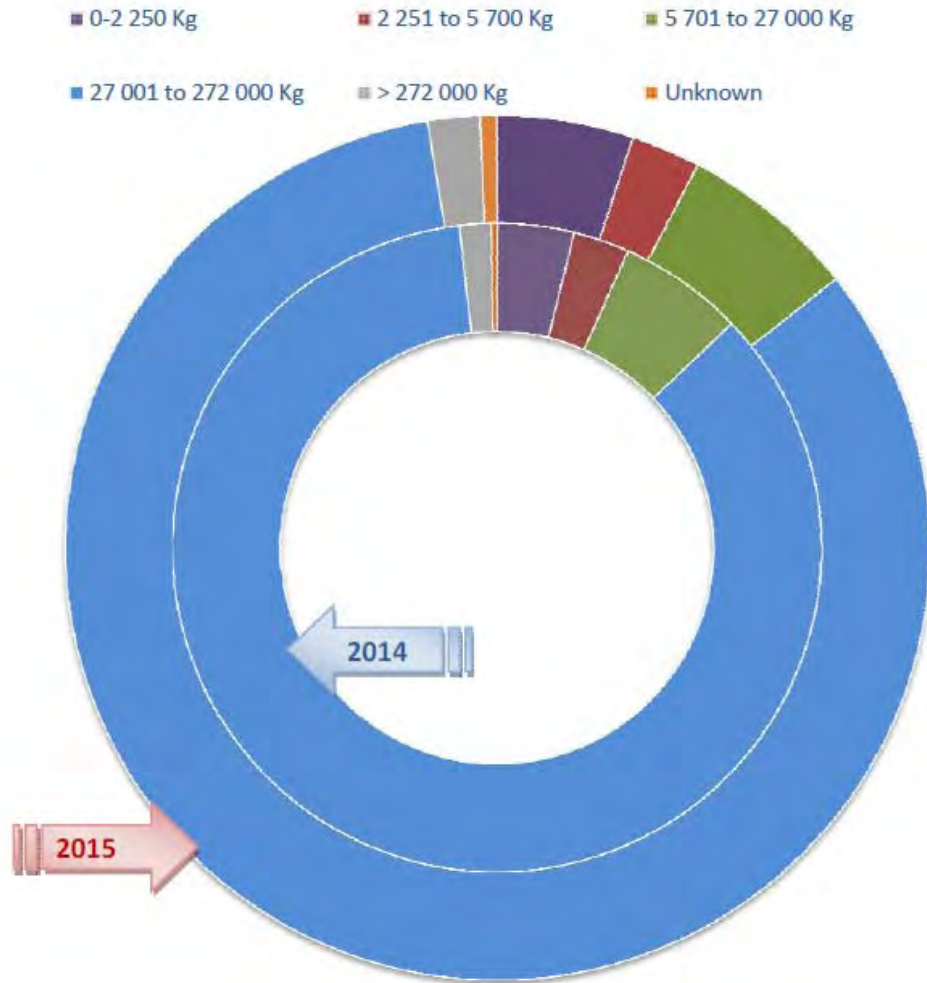




Distribuzione segnalazioni



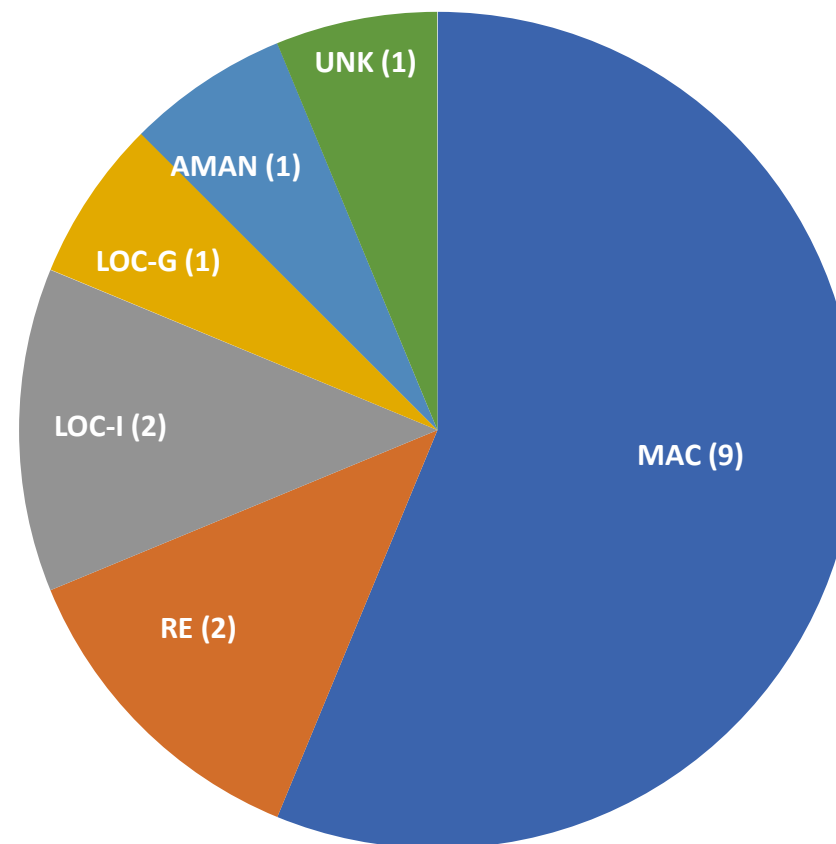
- ADRM** Aerodrome Operator
- AMO** Approved Maintenance Organisation
- ATM/FIS** Air Traffic Management/ Flight Information Service
- ATO** Approved Training Organisation
- CAMO** Continuing Airworthiness Management Organisation
- AOC** Air Operator Certificate
- POA** Production Organizations Approvals
- GH** Ground handlers, fuellers, cleaners, caterers, de-icing organizations, PRM providers, etc
- Other** ENAC, ANSV, NAA, not-determined



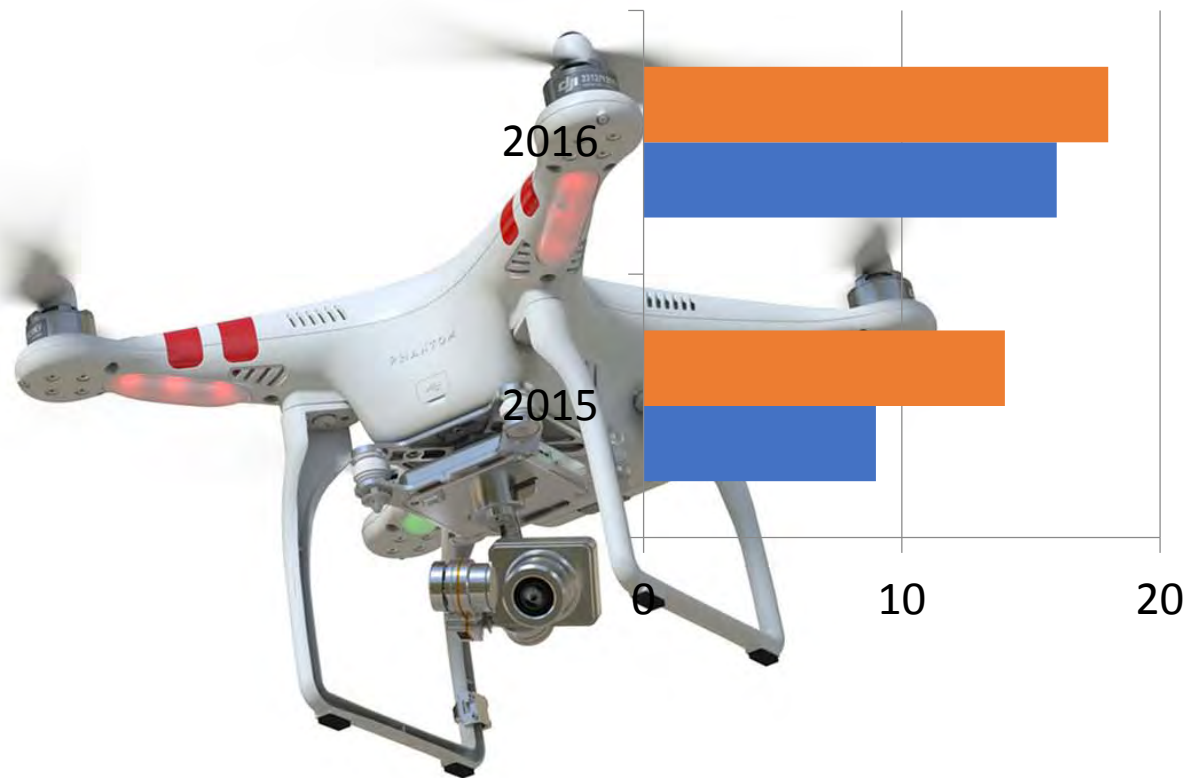
Eventi per classe di peso



Eventi 2015



Accident	Serious Incident	Incident
2	0	14

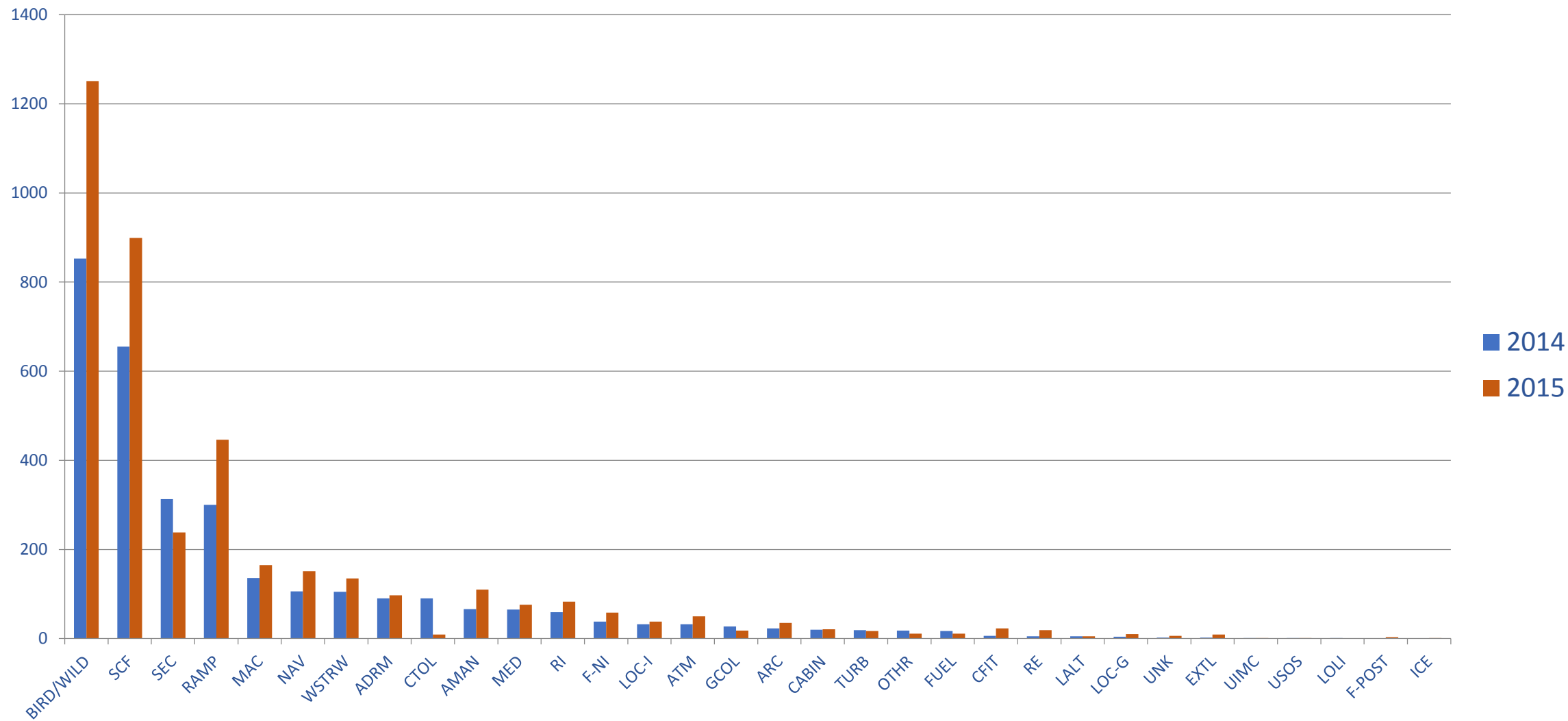


■ Totali
■ MAC

MAC=+ 77%

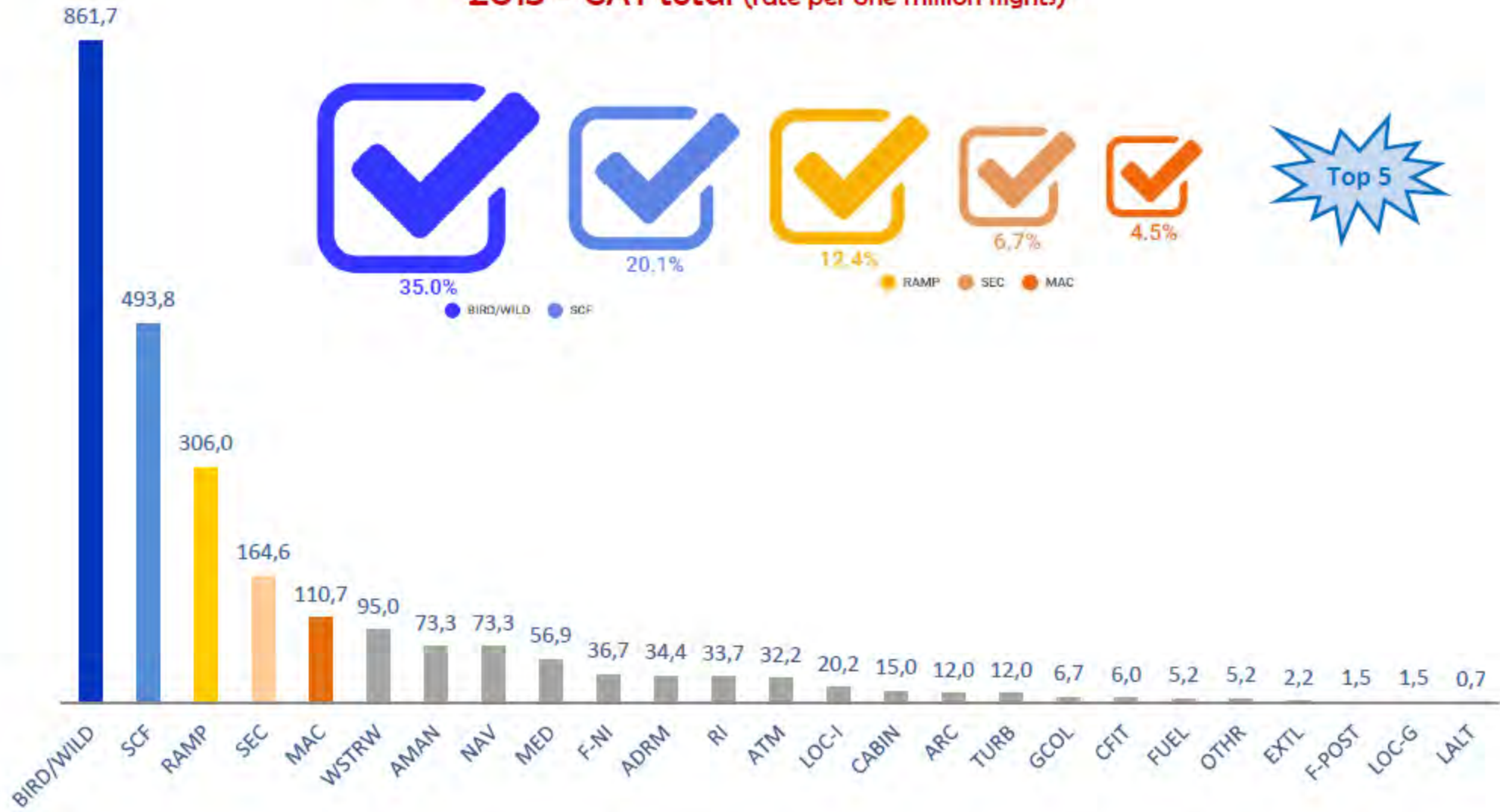


Numero eventi per categoria



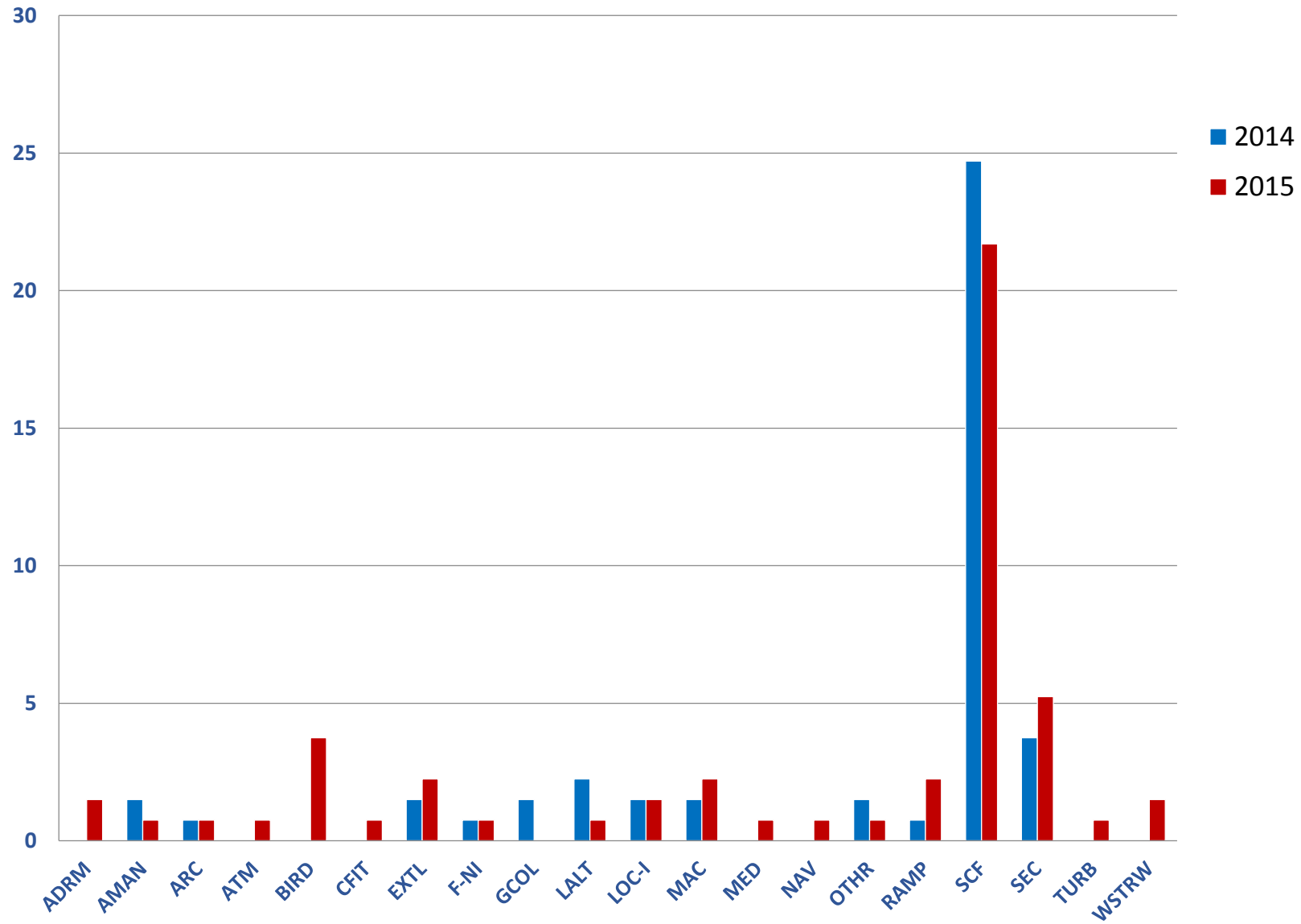


2015 - CAT total (rate per one million flights)

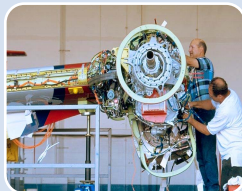




CAT helicopters (rate per one million flights)



Categorie analizzate



BIRD

SCF

RAMP

SEC

MAC

RI

DG

ADRM

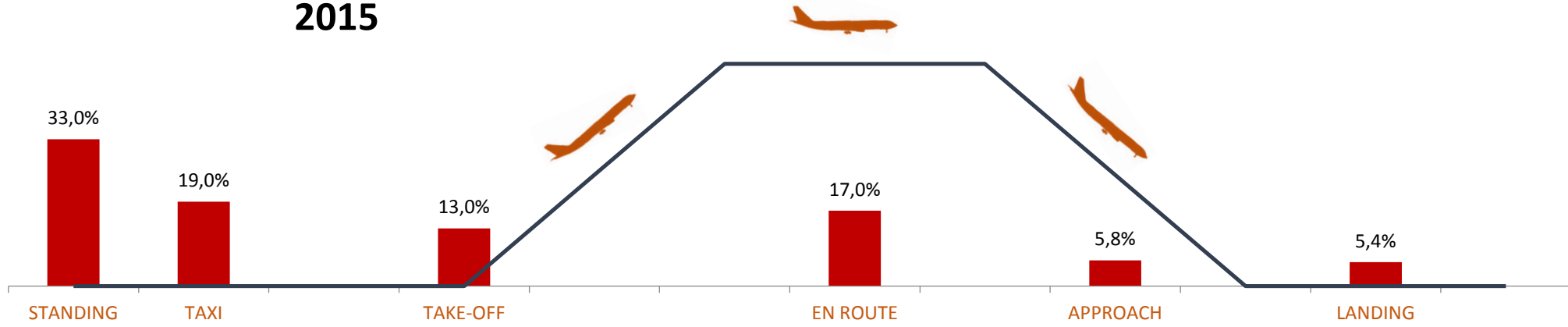
Birdstrike



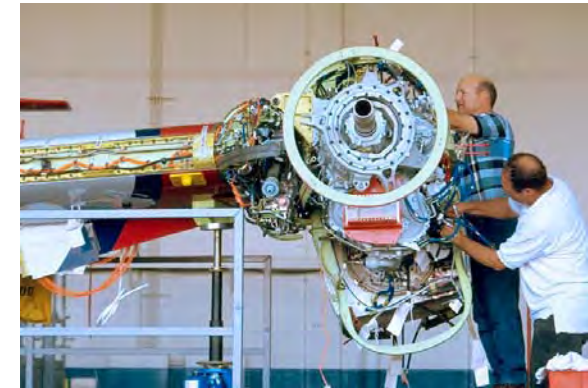
Eventi tecnici



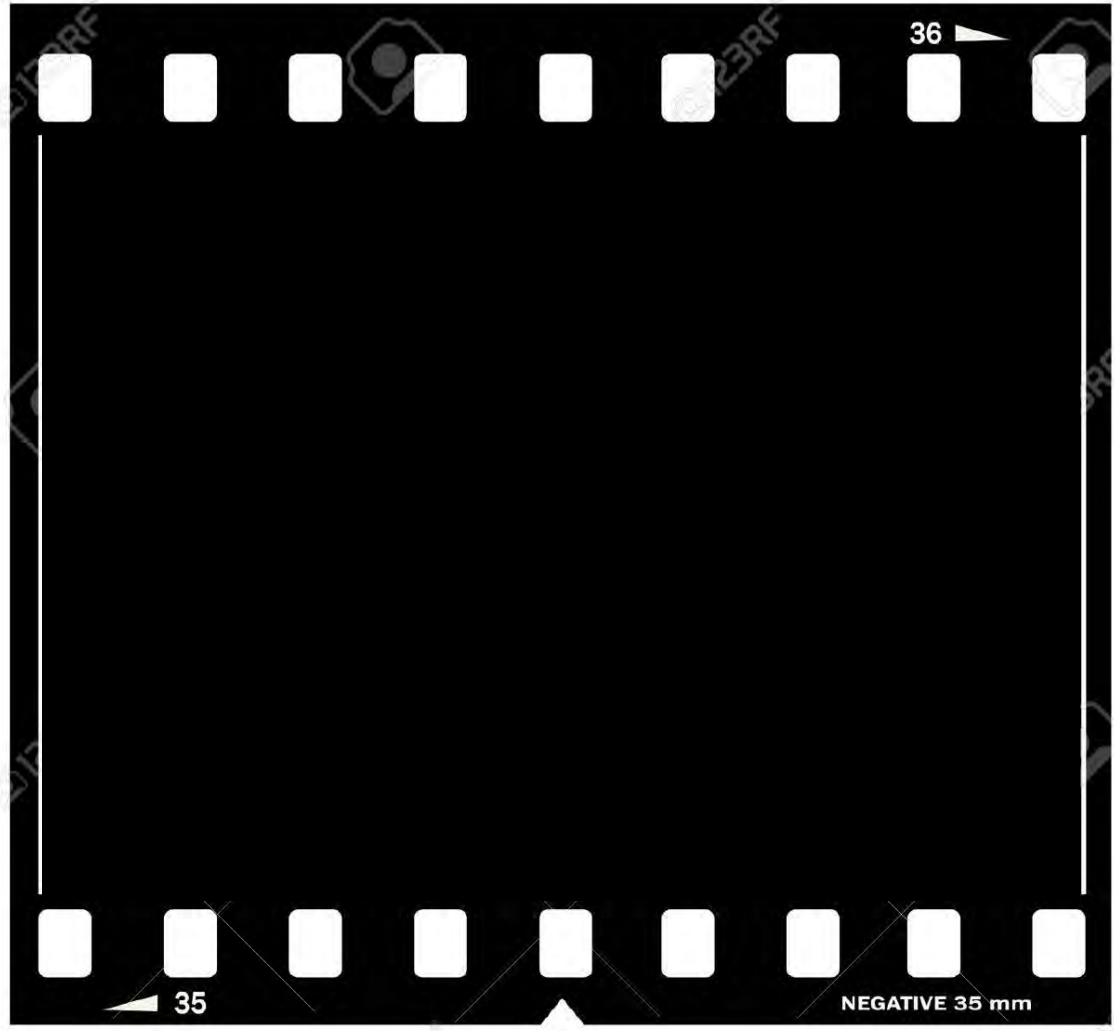
2015



Flight Phase	2014	2015
Standing	ATA 28	ATA 28
Taxi	ATA 32	ATA 32
Take-Off	ATA 32	ATA 32
Enroute	ATA 21	ATA 21
Approach	ATA 32	ATA 27
Landing	ATA 32	ATA 32



Eventi di rampa



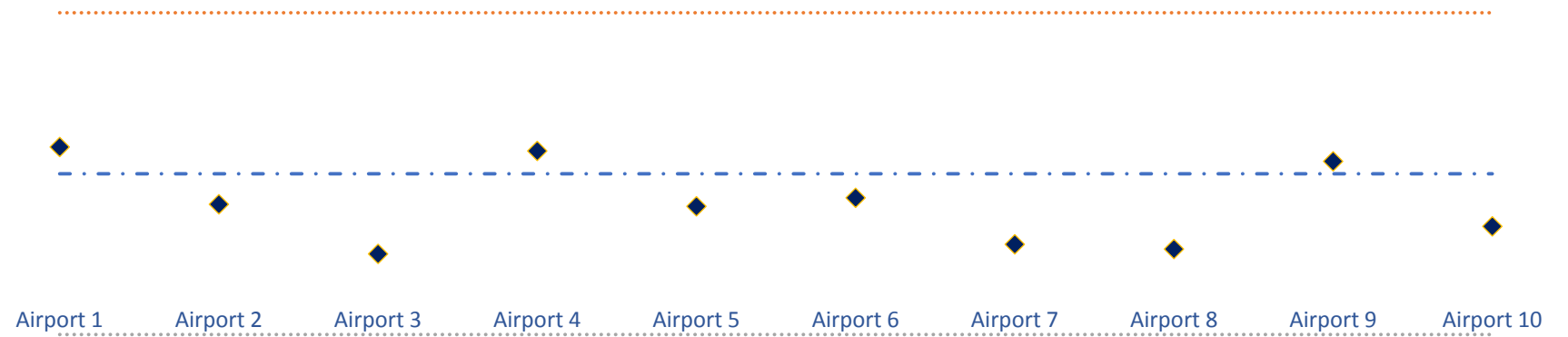
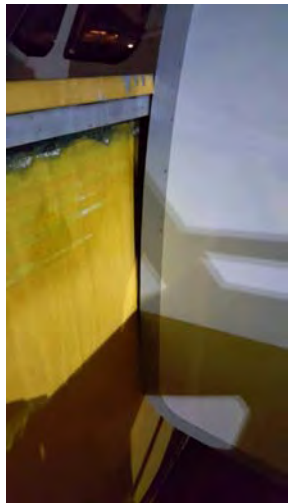


RAMP - Vehicle Traffic Violation (2015)

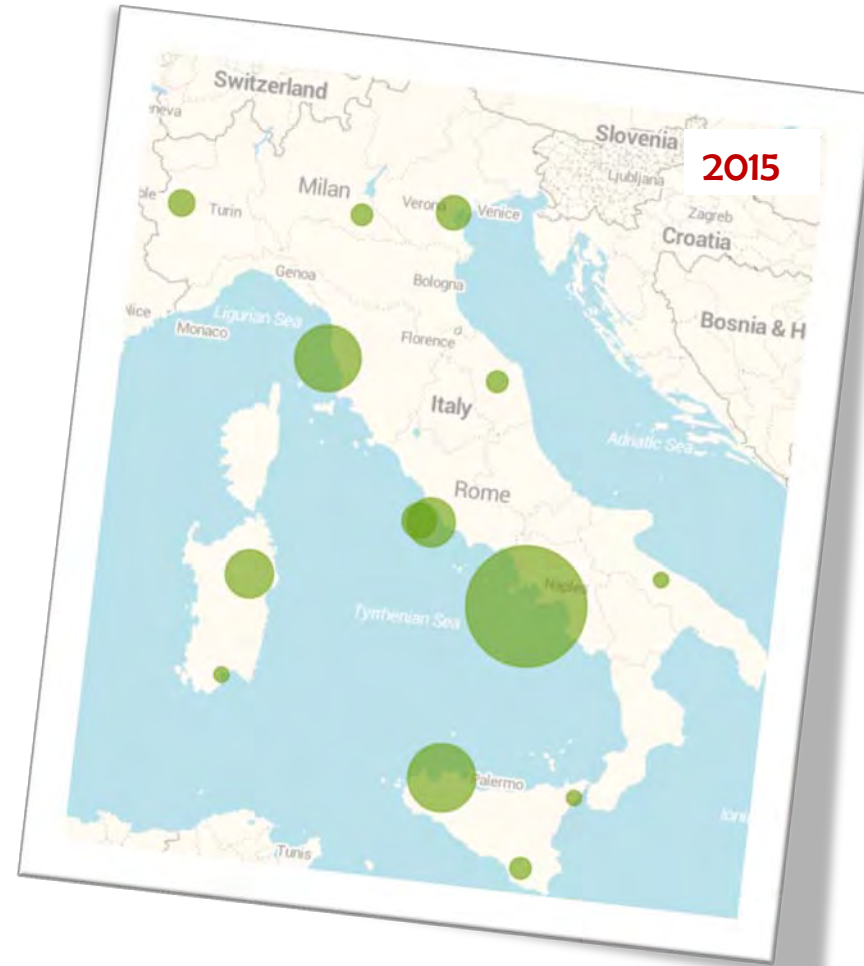
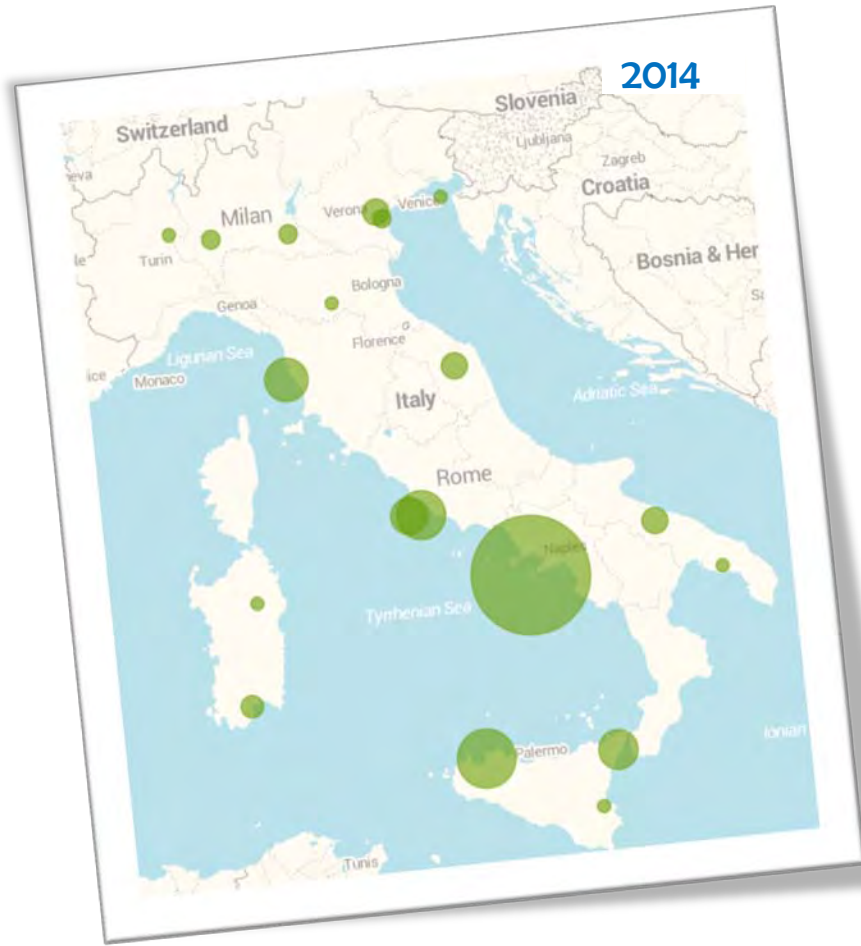


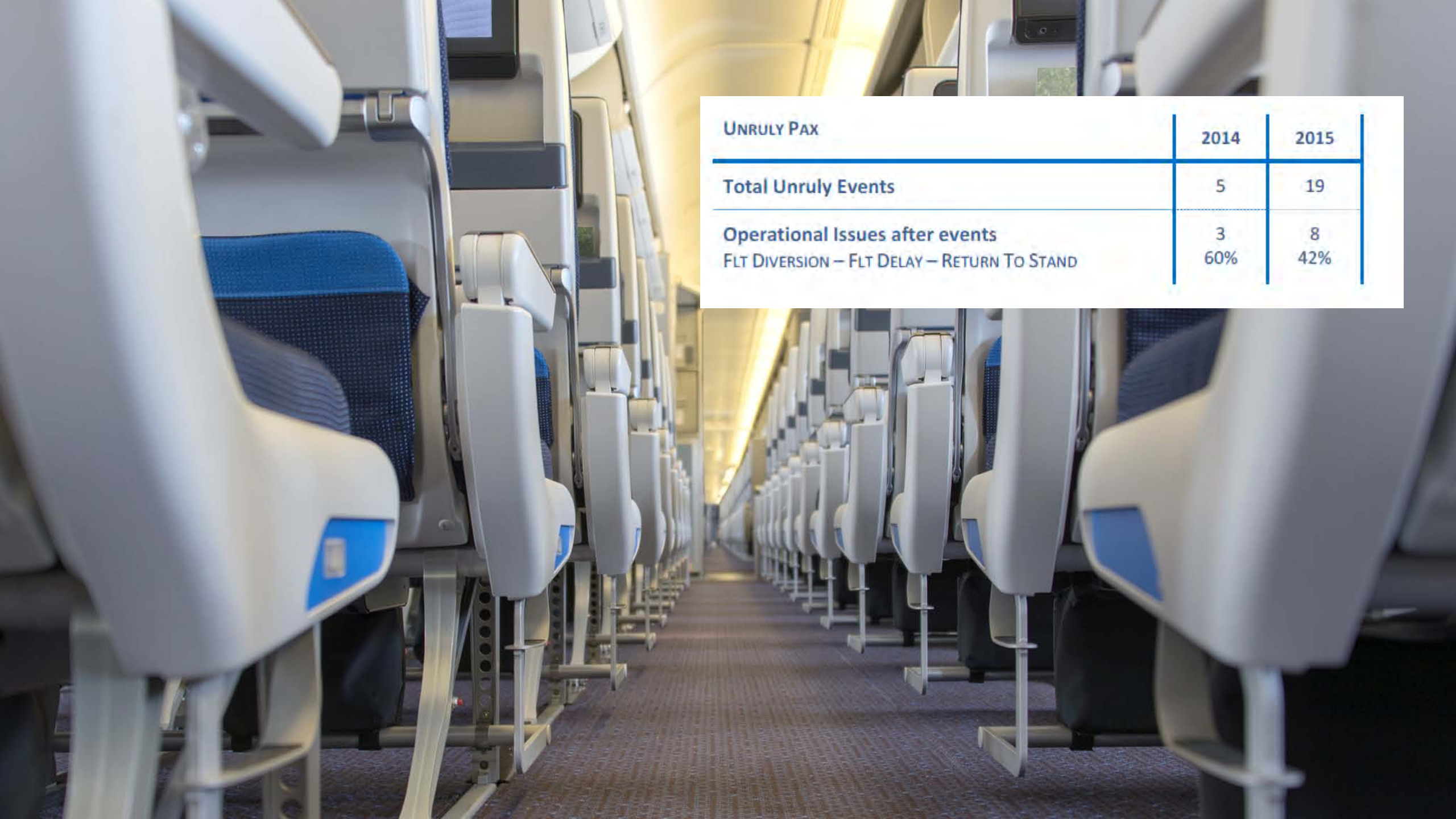
- Average
- Average + SD
- Average - SD
- ◆ Values

RAMP - Collision Vehicle with Standing Aircraft (2015)



Security

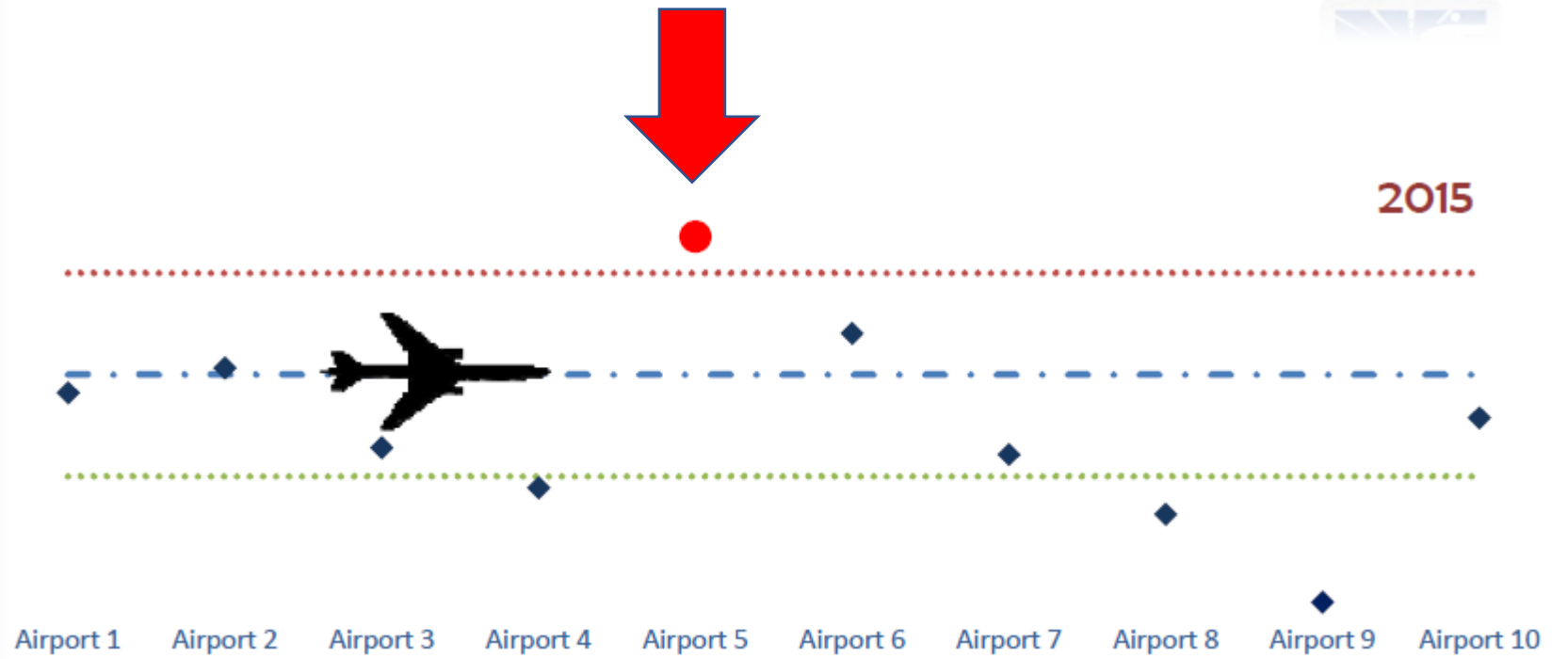
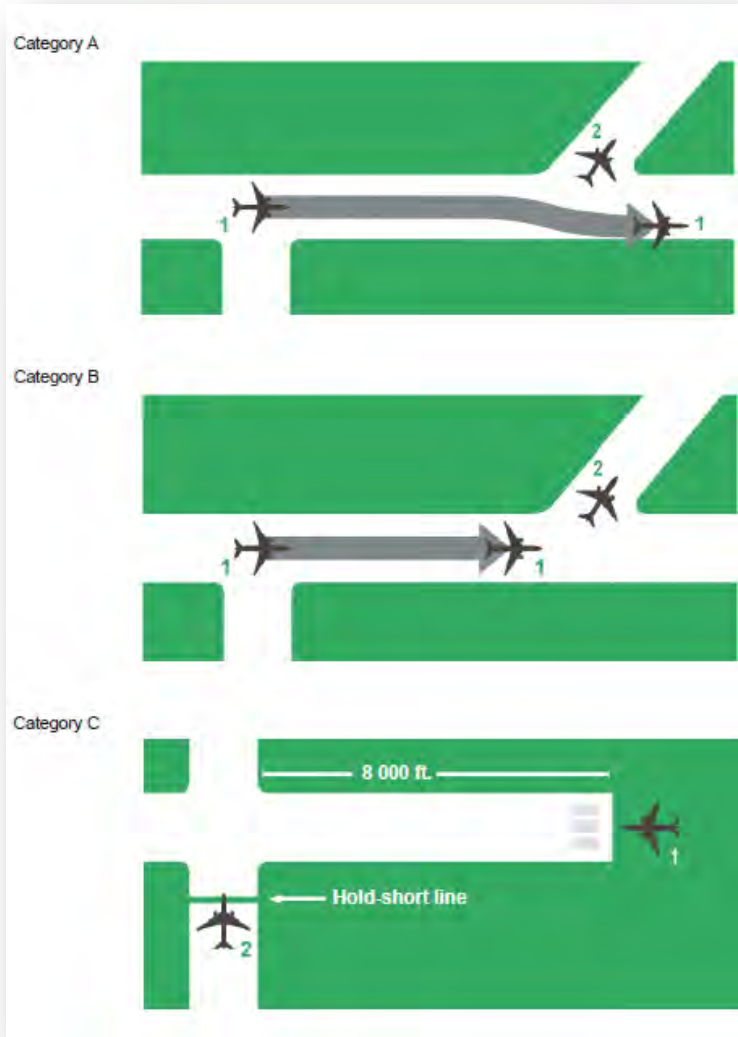




UNRULY PAX	2014	2015
Total Unruly Events	5	19
Operational Issues after events FLT DIVERSION – FLT DELAY – RETURN TO STAND	3 60%	8 42%

Runway












Incursions



Merci

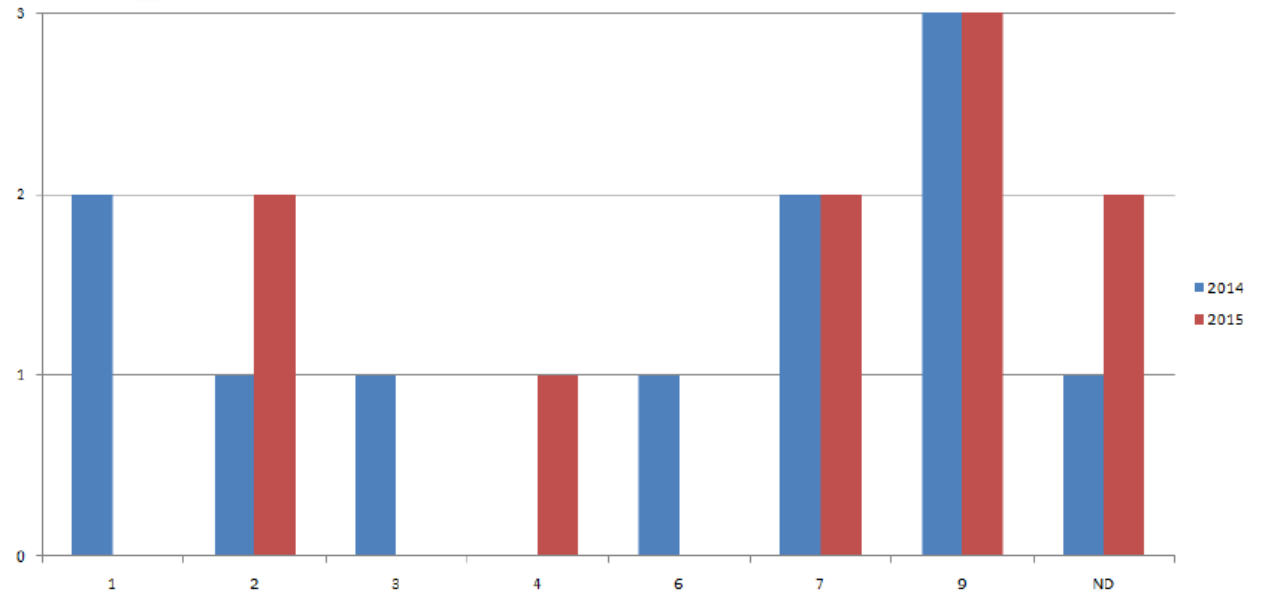
Pericolose



Class 1 Explosives		Class 6 (Toxic, Infectious)	 
Class 2 Gases	  	Class 7 Radioactive Materials	
Class 3 Flammable Liquids		Class 8 Corrosives	
Class 4 Other Flammables	  	Class 9 – Miscellaneous (includes automotive airbag, Lithium battery, ...)	
Class 5 (Oxidizing, Organic)	 		



Occurrence	2014	2015
Dangerous Goods	11	10





Per raccogliere maggiori informazioni (ad es. class, type, packaging), dal 2016 nel sistema eE-MOR è disponibile una nuova sezione specifica

FOD

Fly FOD Free...






# occurrence → ↓ airport	2014	2015
Airport 1	2	2
Airport 2	5	4
Airport 3	3	0
Airport 4	1	0
Airport 5	0	1
Airport 6	1	0
Airport 7	0	3
Airport 8	0	2
Airport 9	0	1
Airport 10	0	1
Airport 11	0	2
Airport 12	0	3

Type of debris	2014	2015
Grass (<i>cut</i>)	0	1
Adhesive/Tape	3	1
Plastic/metallic objects	3	5
Chinese lantern/weather balloon	2	1
Tyres (<i>piece of</i>)	1	4
Paving (<i>piece of</i>)	2	2
Work tools	1	3
Not defined	0	2



I dati sugli eventi
sono fondamentali
ai fini della
**Performance Based
Oversight**

A close-up photograph of several hands working together to assemble wooden puzzle pieces. The scene is dimly lit with a strong blue color cast. The hands are positioned around a central piece, with some fingers gripping the edges and others reaching towards the center. The puzzle pieces are light-colored wood with dark, interlocking shapes. The background is blurred, showing more hands and pieces, suggesting a collaborative effort.

Ora tutti gli elementi
sono al loro posto



E' iniziata l'analisi dei dati 2016

Ma occorrono adeguate risorse
umane e materiali



Cosa ci aspettiamo ?

Un ulteriore incremento dei
livelli di Safety

