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GENERAL CIVIL AVIATION AUTHORITY

# DEVELOPMENT OF STATE SAFETY PROGRAMME (SSP) IN UAE

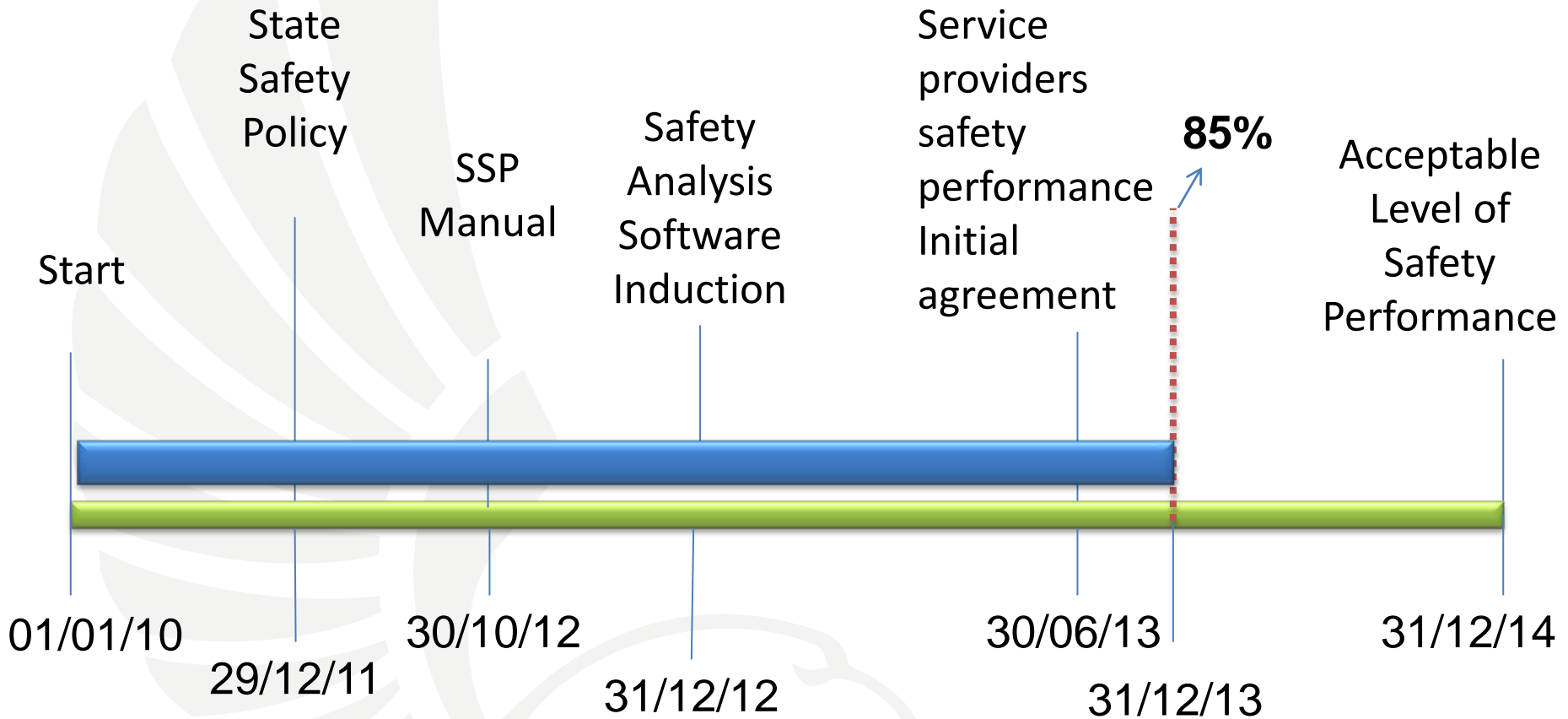
Capt. Nasir Iqbal

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# SSP DEVELOPMENT

- Development Started in 2010
- Phased Approach
- Elevated to “Project Status” in 2011 monitored by PMO
- Project completion Date – 31 Dec 2014

# STATE SAFETY PROGRAM



# SSP COMPONENTS

- State Safety Policy and Objectives
- State Safety Risk Management
- State Safety Assurance
- State Safety Promotion

# STATE SAFETY POLICY & OBJECTIVES

- 1.1 State Safety Legislative Framework
  - CALs and CARs – Established
  - State Safety Policy – Developed in 2011
  - Search & Rescue Regulations – Completed in 2012
    - Certification of SAR Service Providers added in 2013
    - Operations shared between UAE Defence Forces & Dubai Police
    - UAE National Centre for SAR – Under UAE Supreme Council for National Security
    - Certification/Over-Sight/Audit - GCAA
  - Mechanism for Periodic Review of regulations– PRP Departments

# STATE SAFETY POLICY & OBJECTIVES



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- 1.2 State Safety Responsibilities and Accountabilities
  - H.E. the DG of GCAA is Accountable Manager
  - SSP Gap Analysis – 2010
  - SSP Implementation Plan upgraded to Project in 2011
  - Development being monitored by PMO
  - Safety Management Panel (SMP) – 2011
  - SMP upgraded to Safety Management Committee (SMC) - 2012
  - SSP Manual – 2012
  - SSP Interdepartmental Procedure Manual - 2013

# STATE SAFETY POLICY & OBJECTIVES

- 1.3 Accident and Incident Investigation
  - GCAA AAIS – An Independent Sector in GCAA
- 1.4 UAE Enforcement Standard
  - Enforcement Standard Established in 2013
  - Non Punitive

# STATE SAFETY RISK MANAGEMENT

- 2.1 Safety Requirements for Service Provider's SMS
  - CAR Part – X issued in 2010
  - CAAP 50 Published as Guidance Material
  - CAR Part – X revision in process as part of periodic review



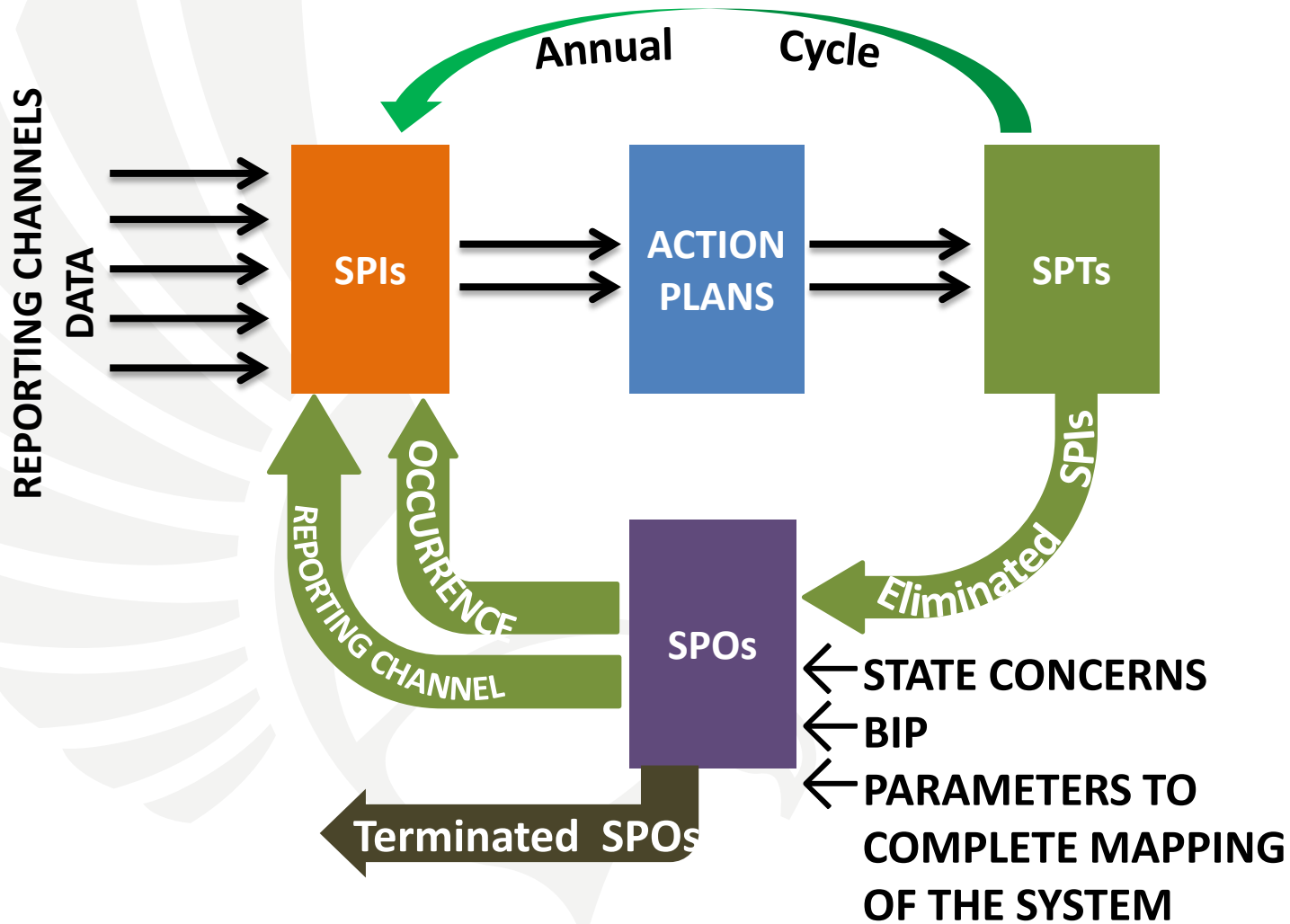
# STATE SAFETY RISK MANAGEMENT

- 2.2 Agreement on Service Providers Safety Performance
  - SPM Model developed in 2012
    - Enhancement of ICAO guidelines as per SMM 9859

- Safety Performance Indicators (SPIs)
- Safety Performance Targets (SPTs)
- Safety Performance Objectives (SPOs)
- Action Plans



# GCAA SPM MODEL



# INITIAL INDUSTRY ENGAGEMENT

Educating the Industry      Assisting the Industry



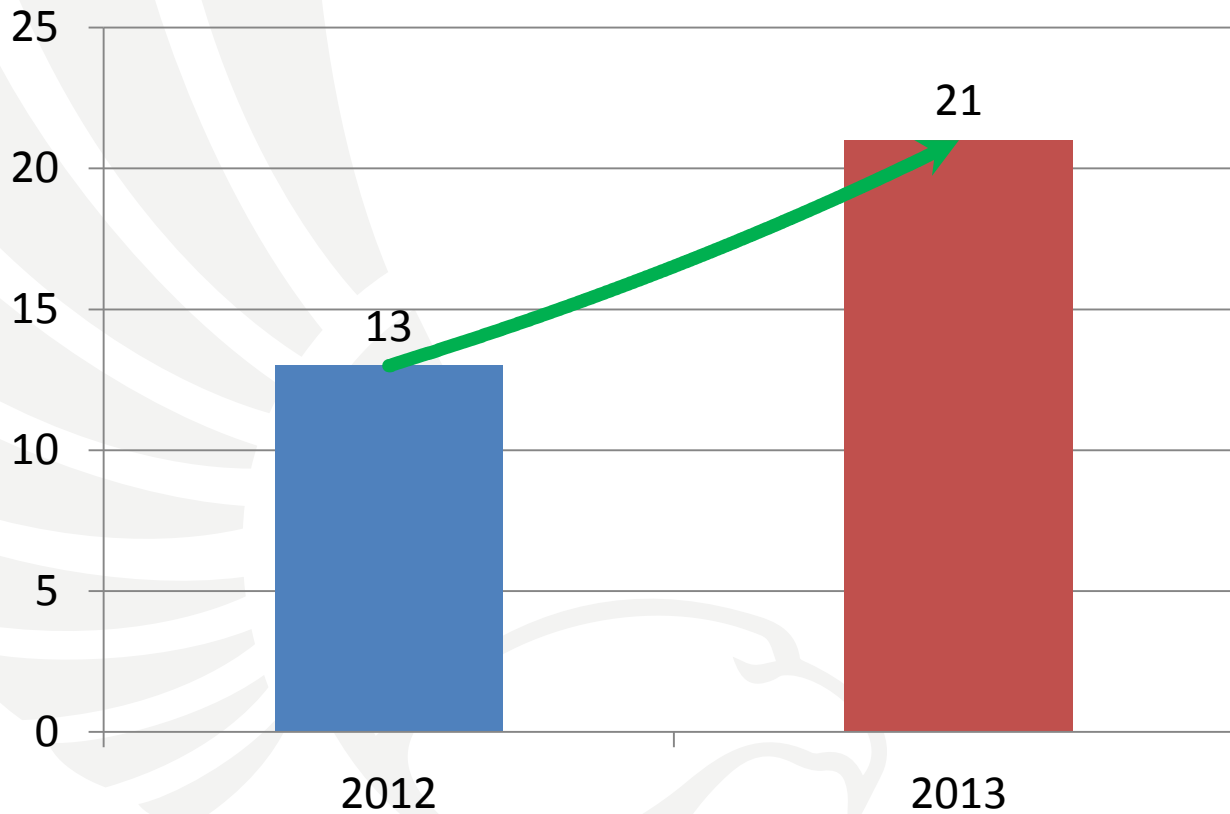
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# SPM DEVELOPMENT

- National Seminars : 02
- Workshops held : 27
- Follow up meetings : 90+
- Inspector Trainings : 06
- Guidance Material : 2 + 1

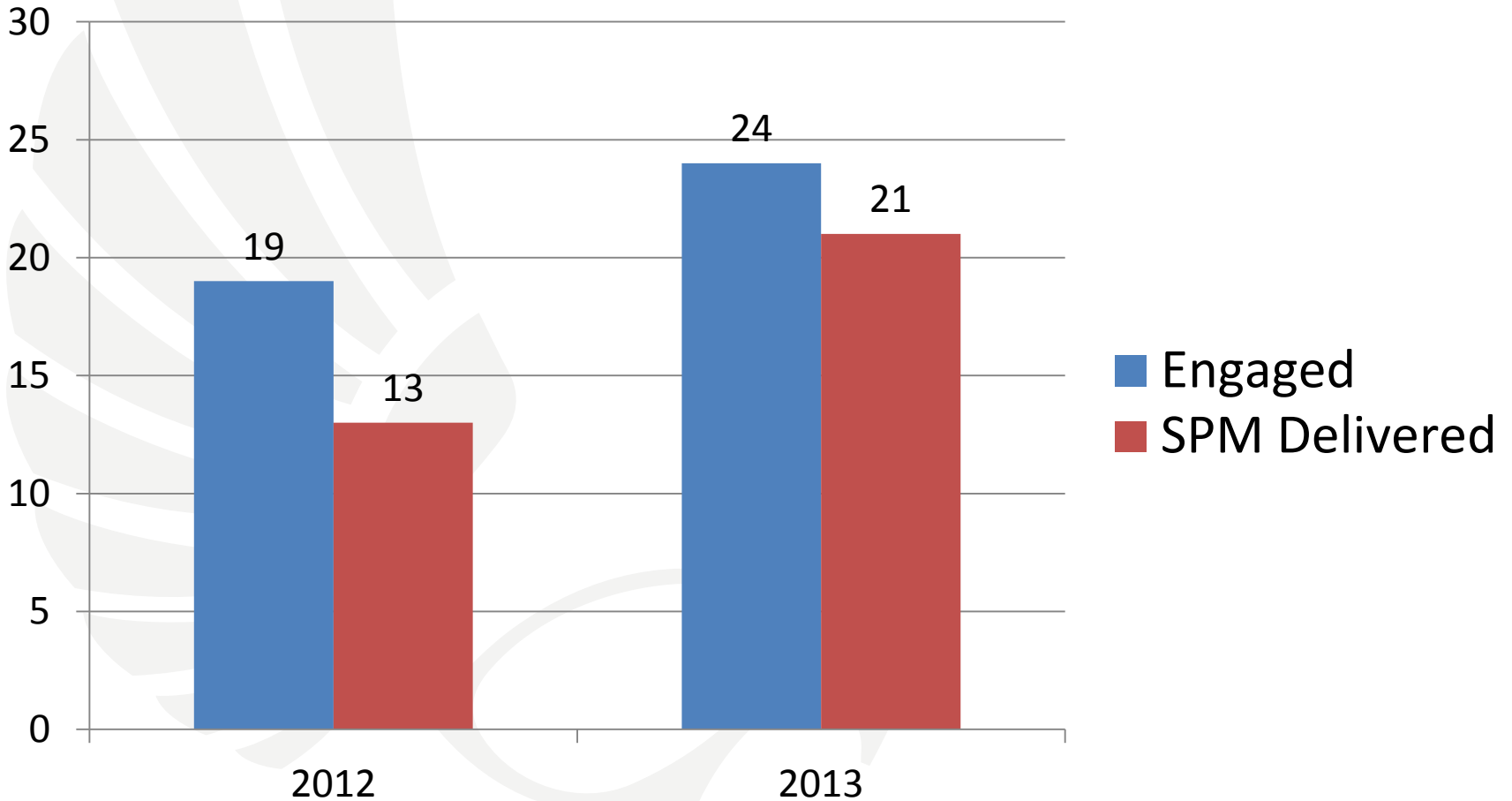


# SPM IMPLEMENTATION IN UAE

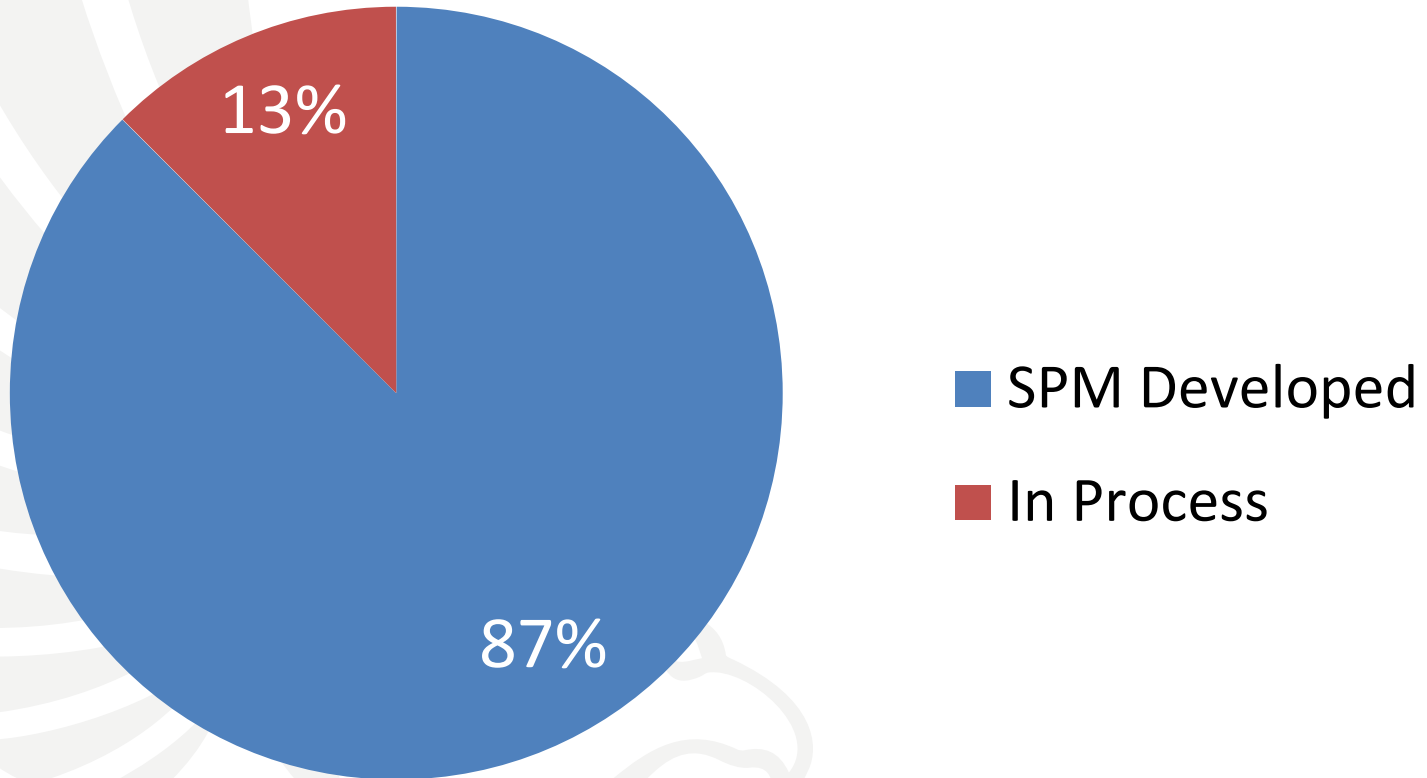


62% Increase  
By  
31 March 2014

# SPM DEVELOPMENT



# SPM DEVELOPMENT THROUGH GCAA MODEL





# STATE SAFETY RISK MANAGEMENT

- 2.2 Agreement on Service Providers Safety Performance
  - Industry education/ Assistance – Continues
  - Achievement being monitored by PMO
  - 2<sup>nd</sup> Cycle in process - Completion by Jun 2014
  - Soft ALoSP - June 2014
  - Initial ALoSP - 31 Dec 2014

- 3.1 Safety Oversight
  - Annual Oversight Plan
  - Q Pulse for Audit Management
  - SMS Audit Criteria established in 2012
  - SMS Audits Completed by 2013
  - Detailed SMS Audit criteria development in process
  - SPMs incorporated in SMS Audits - 2014

- 3.2 Safety Data Collection, Analysis & Exchange
  - SDCPS
    - ROSI – 2010
    - VORSY – 2012
    - RODGO/ROSB – 2013
  - On line Reporting systems – Investigations/Inquiry
  - Data Analysis – 2013
  - Safety Information Protection Law – In process
  - Accident & Incident reporting to ICAO – In Place
  - Data Sharing & Information Exchange – Development in process
  - ALoSP – 31 Dec 2014

# ROSI DATA

- PERIOD 1 JAN 2010 – 31 DEC 2013
  - TOTAL – 15193
  - OPS ROSI (AOAW) – 5469
  - ANA ROSI (ATC, AOP, BWI) – 9724



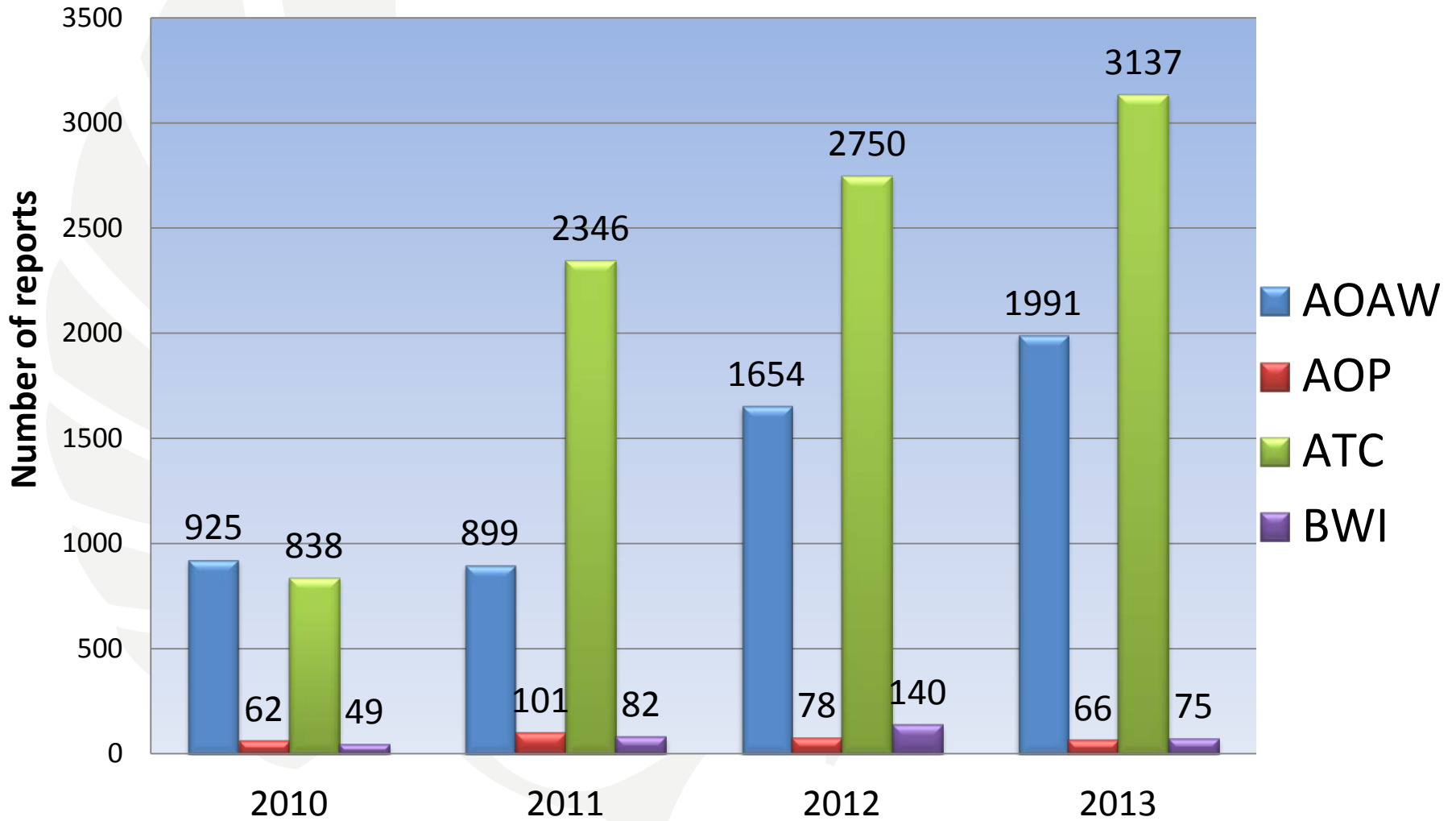
The screenshot shows the GCAA website interface. At the top, there is a navigation bar with a home icon, a language dropdown set to 'عربي', and the date 'UAE Tuesday, February 04, 2014'. There are links for 'CAREER | FAQ | SITEMAP | CONTACT US' and a search bar with 'Search a keyword' and 'Advance Search' buttons. Below the navigation bar, there is a welcome message: 'Welcome, GCAIniqbal | My Profile | Change Password | Sign Out | Sign in as Different User'. The main header features the United Arab Emirates logo on the left and the GCAA logo on the right. The central text reads 'UNITED ARAB EMIRATES GENERAL CIVIL AVIATION AUTHORITY'. Below the header is a menu with links: 'ABOUT GCAA', 'DEPARTMENTS', 'E-SERVICES', 'E-PARTICIPATION', 'OPEN DATA', 'DOWNLOADS', 'LAWS', 'QUICK LINKS', and 'TOP REQUESTS'. At the bottom of the screenshot, there is a breadcrumb trail: 'GCAA > English > Reporting of Safety Incident (ROSI) > ROSI - Aircraft Operations & Airworthiness' and a set of social media and utility icons.



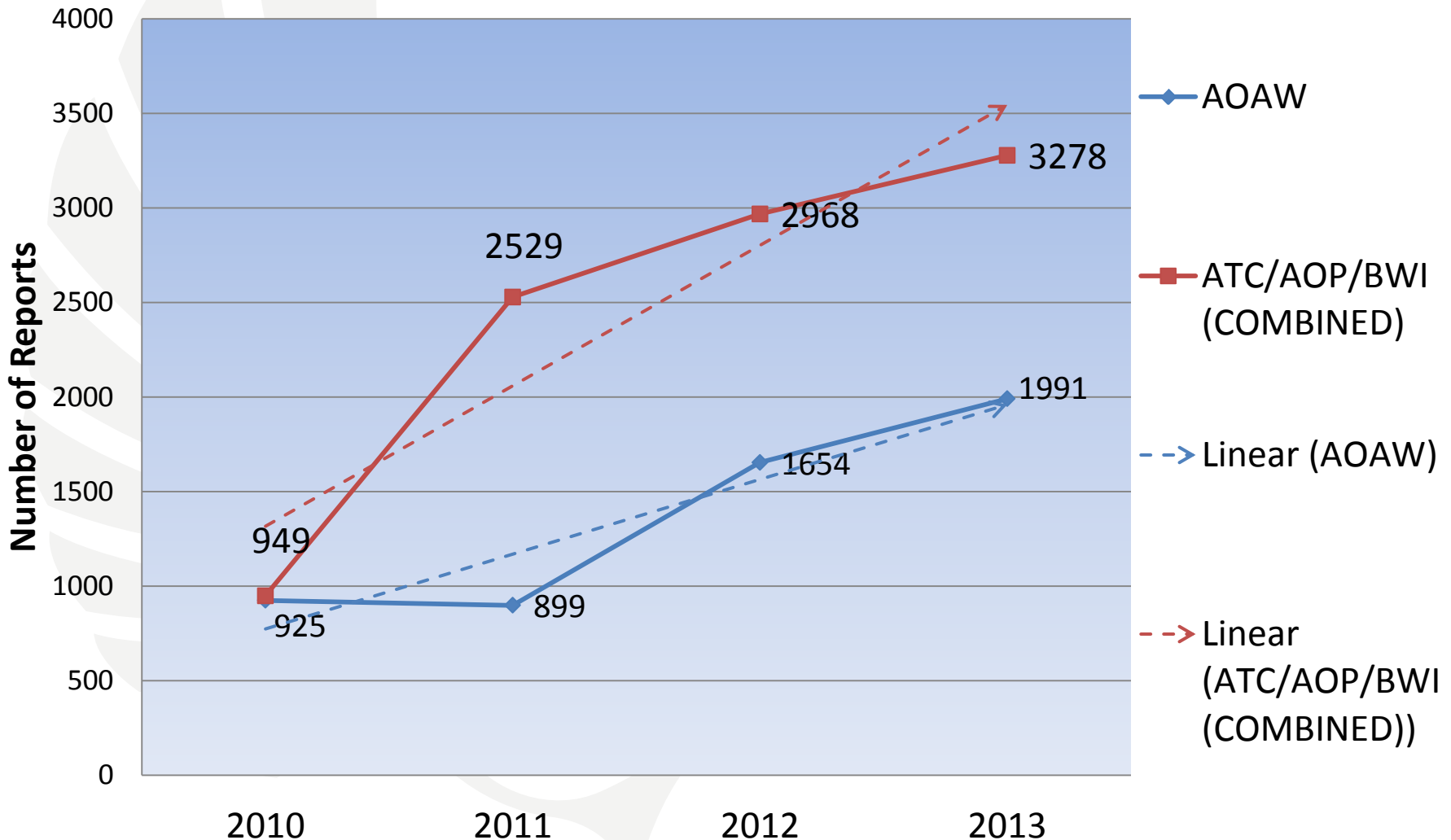
## ROSI - Aircraft Operations & Airworthiness

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# ANNUAL ROSI DATA



# ANNUAL ROSI STATISTICS



## Analysis

- a. Exploratory data analysis (EDA) : Analyzing data sets to summarize their main characteristics
- b. Descriptive statistics : Quantitatively describing the main features of a collection of information

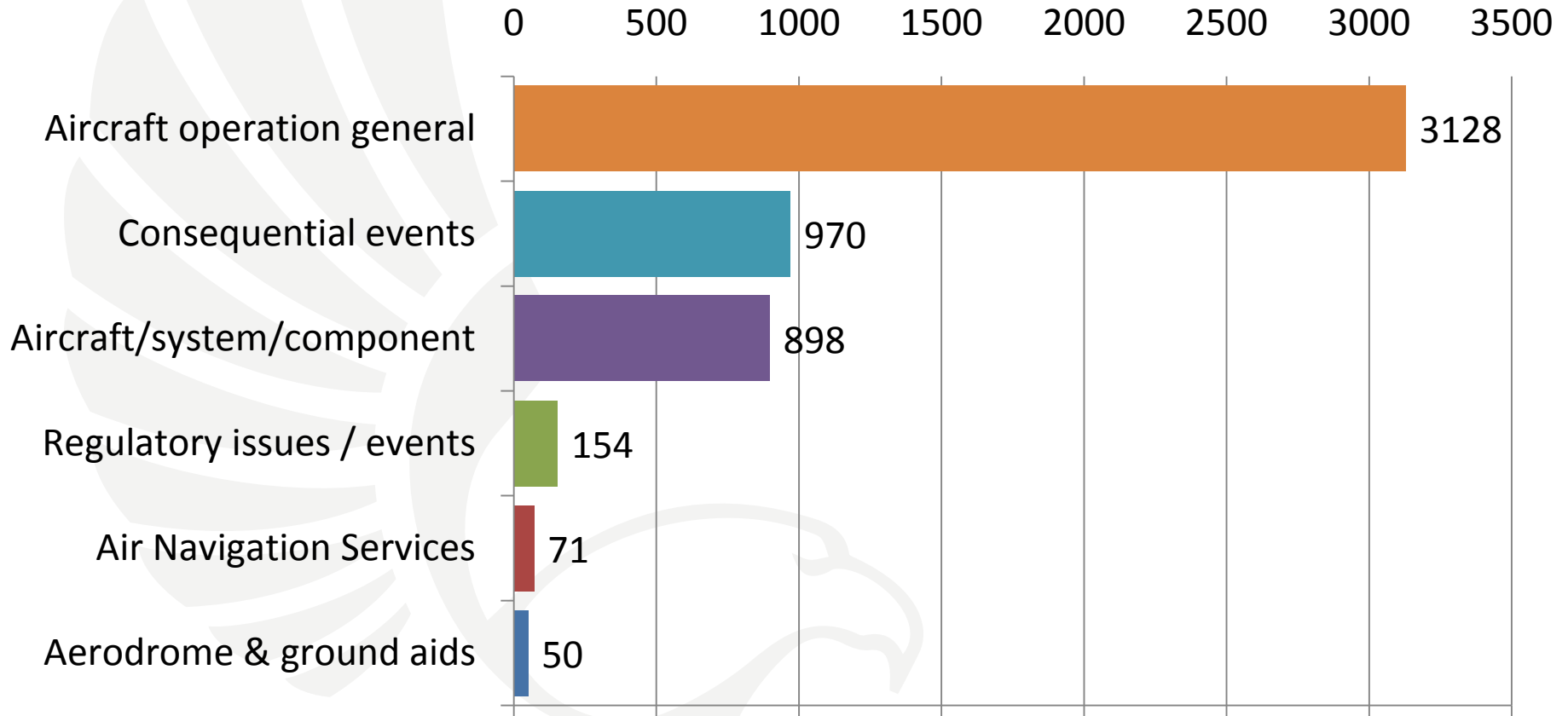


# OPS ROSI DATA ANALYSIS - QLIKVIEW



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## ECCAIRS LEVEL 1



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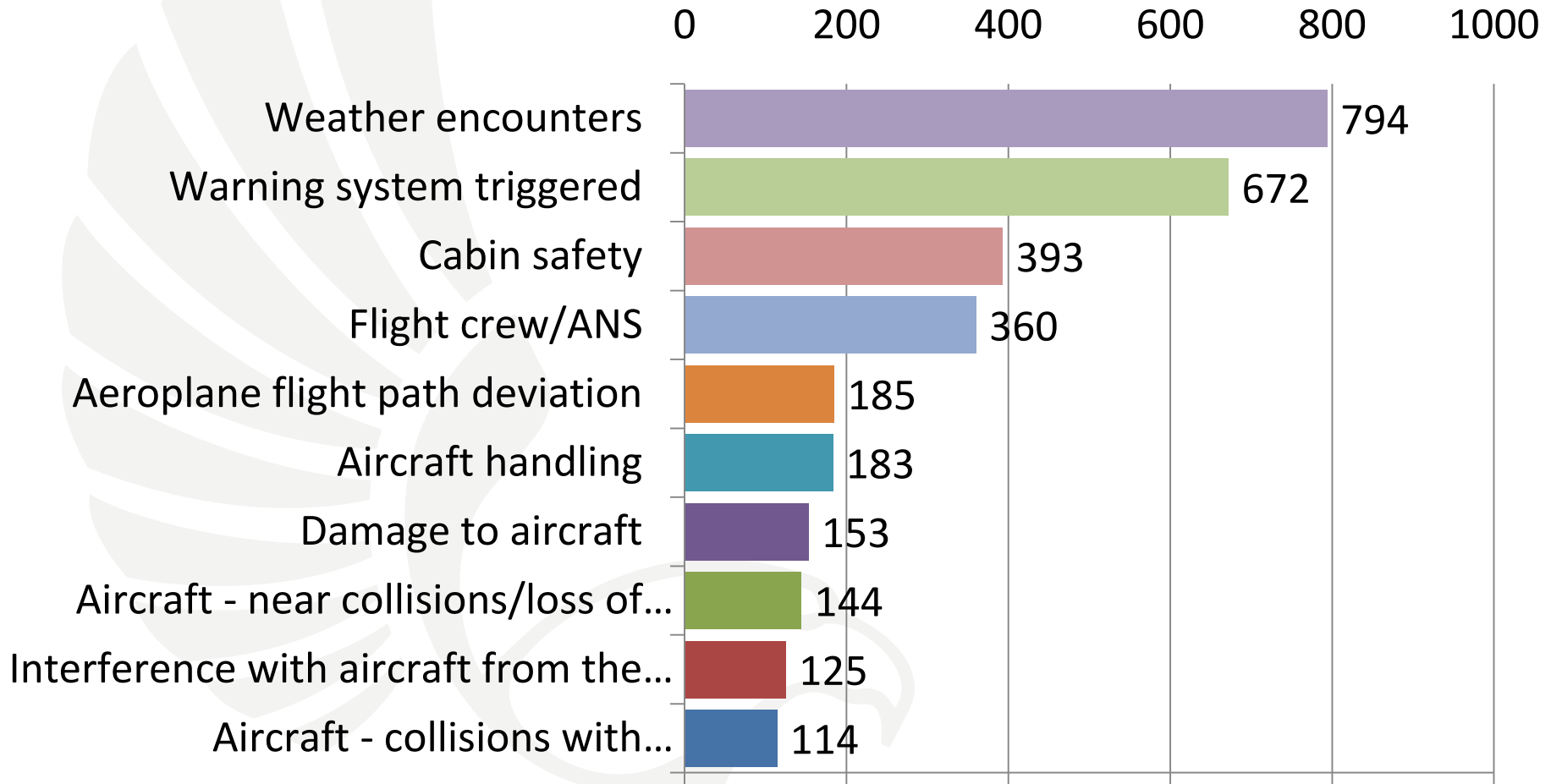


United Arab Emirates

# AIRCRAFT OPERATIONS LEVEL 2



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# SUPPORTING INFORMATION FOR SAFETY ISSUE SELECTION PROCESS

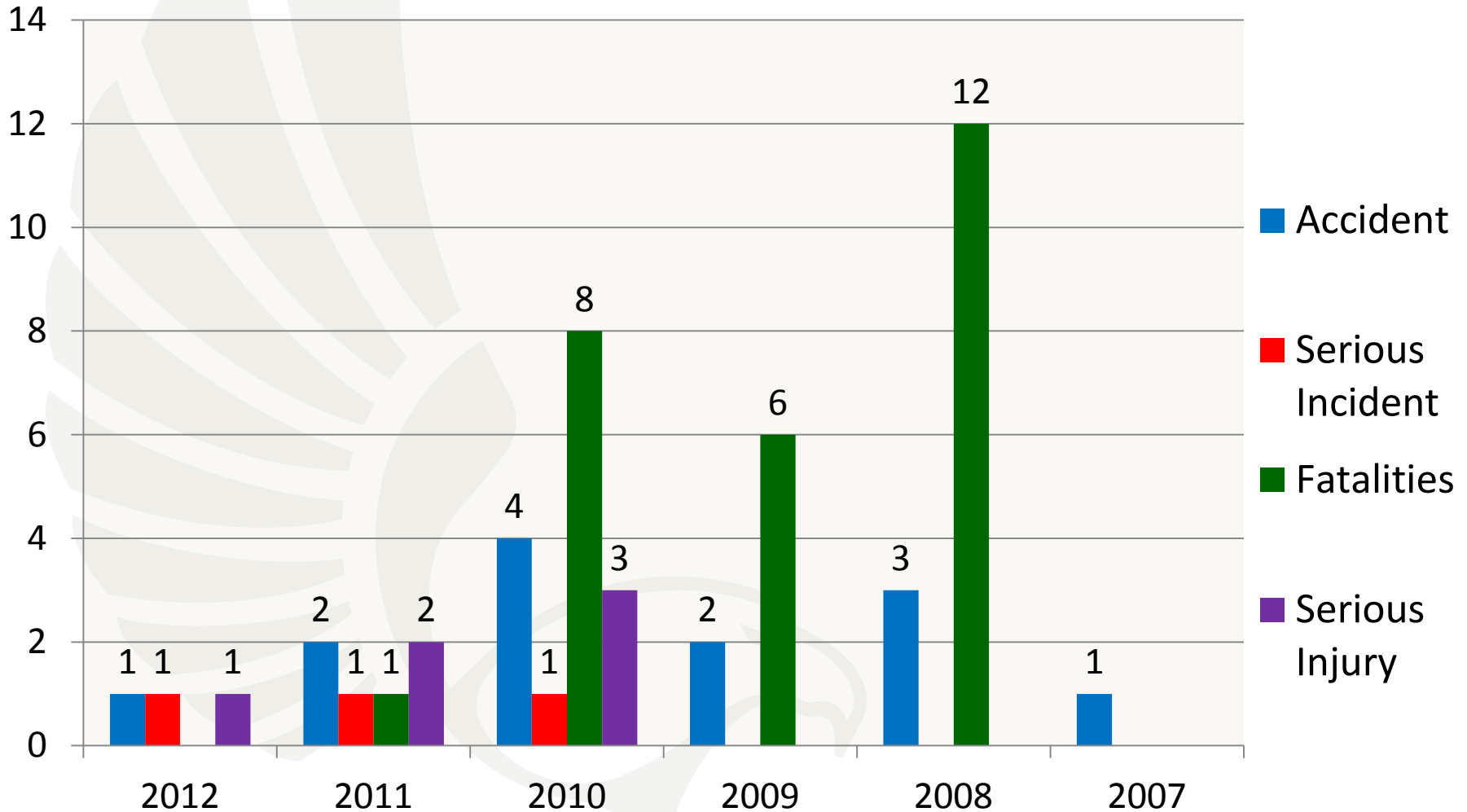




# ACCIDENTS STATISTICS AAIS



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# ACCIDENTS STATISTICS

## AAIS



United Arab Emirates



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Year	Category	Accident	Serious Incident	Incident	Fatalities	Serious Injury
2012		1	1			1
2011		2	1		1	2
2010		4	1	2	8	3
2009		2		5	6	
2008		3		2	12	
2007		1		1		
Total		13	3	10	27	6

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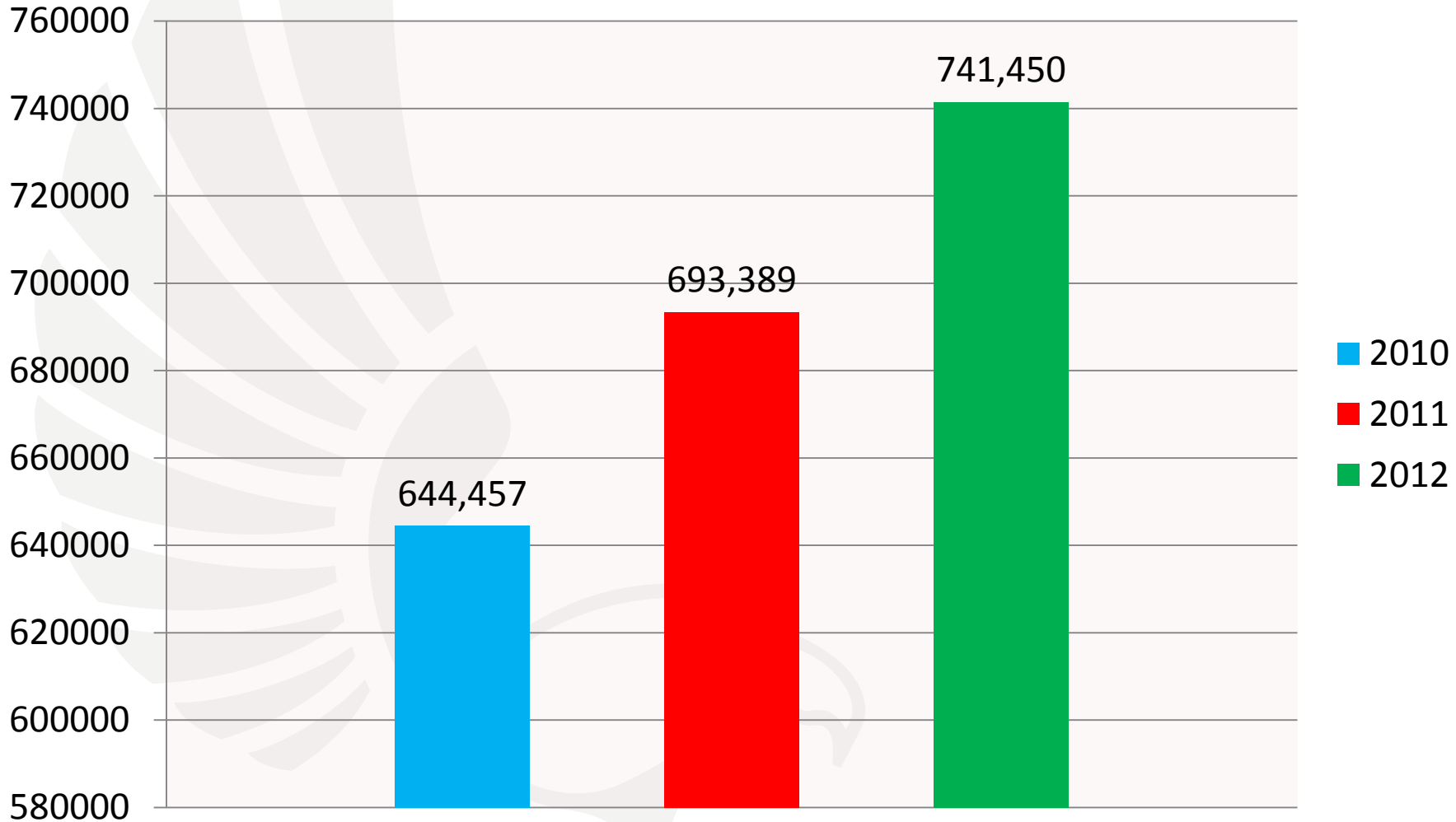
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# TOTAL FLIGHT MOVEMENT DATA - SZC



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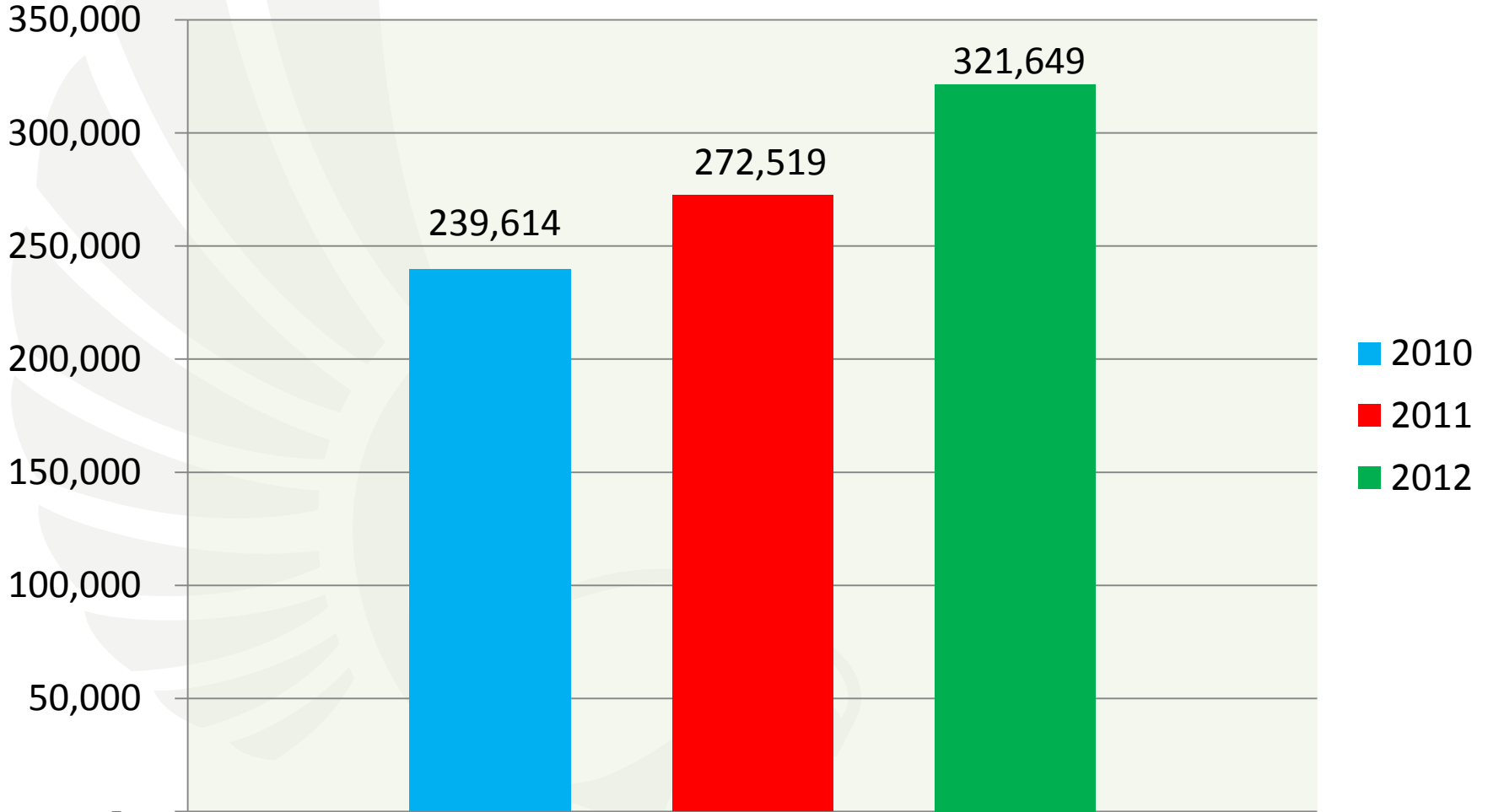
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# UAE AIRCRAFT FLIGHT MOVEMENT DATA - SZC



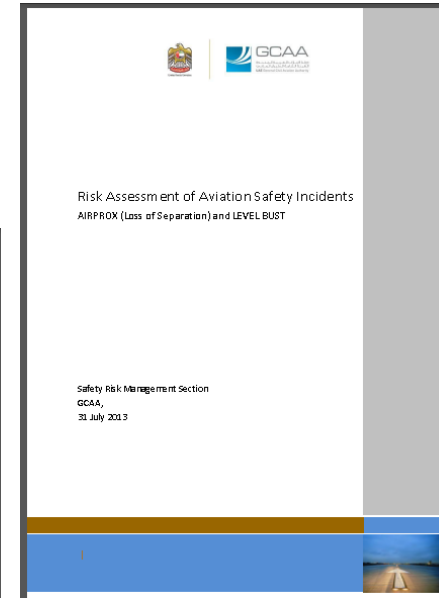
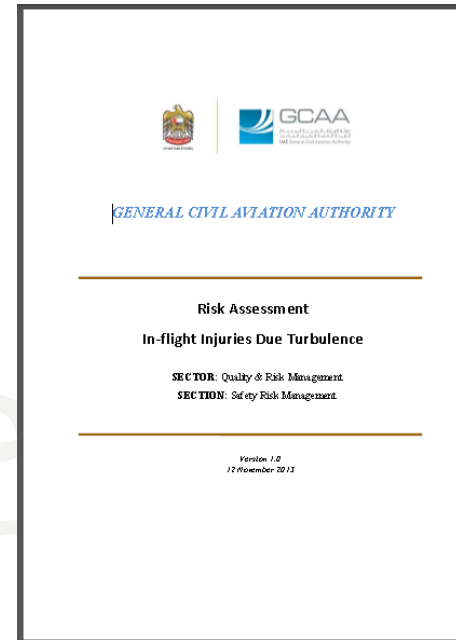
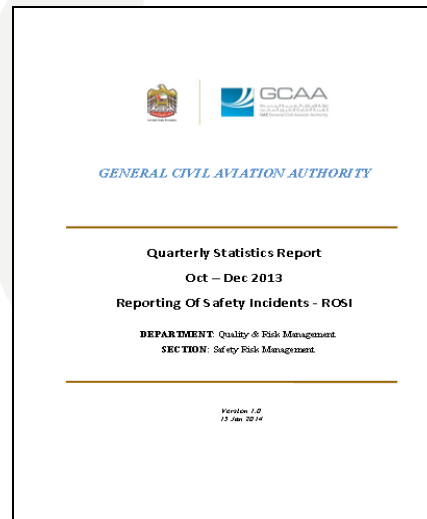
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## STATE LEVEL

- Airprox & Level Bust – Jul 13
- Inflight Injuries due turbulence – Nov 13
- ROSI Stat Reports
- Annual Report



# VOLUNTARY OCCURRENCE REPORTING SYSTEM



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GCAA > English > Voluntary Occurrence Reporting System



-  **E-Publication**  
GCAA Regulations
-  **UAE AIP**  
AIS Publications
-  **Service Fees**
-  **En-route ANS Online Payment**



## Voluntary Occurrence Reporting System

Welcome,



# VOLUNTARY REPORTING SYSTEM (VORSY)

Launched 2012







## Objective

- To capture hazards, incidents and errors which may not have been reported through mandatory reporting system
- Voluntary System
- Confidential

## VORSY Reports

- 2012 – 20
- 2013 – 36
- 2014 – 04 (till 31 Jan 2014)



SERVICES	
	Aviation Security Reporting System
	ROSI
	Voluntary Occurrence Reporting System
	To report a voluntary occurrence
	Security Clearance
	Reporting of Dangerous Goods Occurrence (RODGO)
	Reporting of Security Breach (ROSB)

- 3.3 Safety Data Driven Targeting of Oversight of Areas of Greater Concern or Need
  - Initiated in 2013
  - Organization Risk Profiling Criteria – 2013
    - Developed from ICAO guidelines for UAE Air Operators

- 4.1 Internal Training, Communication and Dissemination of Safety Information
- 4.2 External Training, Communication and Dissemination of Safety Information
- Ongoing & Continuous Process/Program
  - Conferences
  - Seminars
  - Workshops
  - Newsletters
  - Promotional Materials

# SSP & SMS

