Loss of Control

"Through improved flight crew monitoring, understanding of aircraft automation and maintenance of manual flying skills, we are aiming to reduce the risk of loss of control occurrences"

Actions – Pilot Monitoring Skills	
• Report produced on research into current best practice in pilot monitoring and associated training delivery methods	**Nov-11** ✓
• CAA best practice guidance document and associated DVD on training and assessment of pilot monitoring skills produced	**Mar-13** ✓
• Training of CAA inspectors, promotion of best practice and oversight of implementation completed	**Jun-13**
Actions – Understanding Aircraft Automation	
• Report produced on review of FAA study and Cranfield University research on crew interaction with flight deck automation	**Report release + 2 months**
• Workshop held with industry to discuss findings of review and to identify key priorities for action	**+ 4 months**
• Plan developed for implementation of actions to mitigate risk of key findings from review	**+ 6 months**
Actions – Maintenance of Manual Flying Skills	
• Jet Upset Recovery Training Aid Tool and associated DVD distributed to all UK commercial pilots	**Oct-12** ✓
• Prototype set of standardised FDM events developed to monitor precursors to loss of control	**Dec-12** ✓
• Specification for standardised FDM events completed and shared with industry	**Mar-14**

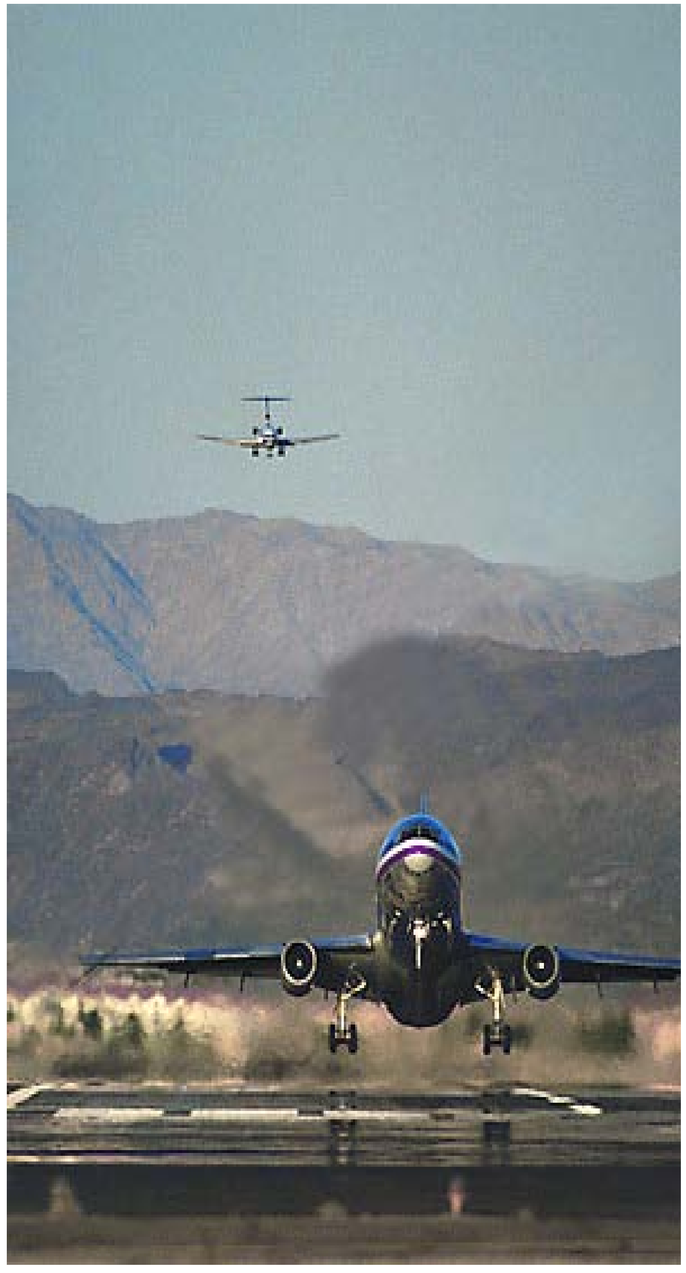
Runway Excursion

"To help reduce the risk of runway excursions, we are aiming to reduce unstable/de-stabilised approaches, introduce capability for aerodrome operators to provide standardised information to pilots concerning runway contamination and improve safety areas around runways"

Actions – Unstable/De-stabilised Approaches	
• Safety Notice issued regarding ATC involvement in unstable approaches	Jan-12 ✓
• Suite of FDM parameters developed and FDM data-stream process demonstrated	Jun-12 ✓
• Runway excursion FDM parameters promulgated to industry where appropriate	Sep-12 ✓
• AOC holders FDM programmes checked to ensure appropriate unstable approach parameters are being used	Sep-13
Actions – Standardised Information Concerning Runway Contamination	
• Consistent definition of 'contaminated runway' published across all CAA documentation (in line with definition in EU-OPS1.480)	Mar-13 ✓
• 2012/13 Winter Runway Assessment Trial performed, reported and recommendations made	Jun-13
Actions – Runway Safety Areas	
• Objective-based requirements and associated guidance for overrun safety areas within EASA and ICAO aerodrome requirements	Mar-12 ✓
• Runway End Safety Area (RESA) risk assessments conducted by appropriate UK licensed aerodromes	Dec-12 ✓
Actions – European Action Plan for the Prevention of Runway Excursions (EAPPRE)	
• Organisations checked for awareness and application of appropriate recommendations contained in EAPPRE	Aug-14

Controlled Flight into Terrain

"We are working to reduce the risk of serious incidents that occur during non-precision approaches (NPAs) through encouraging the replacement of traditional NPAs with Approach with Vertical Guidance (APV) type approaches, and reviewing processes for gaining APV approval"



Actions – APV Approaches	
• Information brochure disseminated on benefits of APV-type approaches	**Sep-11** ✓
• CAA process for gaining APV approval reviewed and simplified	**Dec-11** ✓
• CFIT-risk 'hotspot' destinations that would benefit from an APV-type approach identified and negotiations started to implement an approach at a hotspot	**Sep-12** ✓
• Study completed of the risks posed by altimeter mis-setting	**Jul-13**
• Human Factors Strategy developed with regard to all aspects of CFIT	**Dec-13**
• Study completed of new technologies entering the arena that may have a bearing on CFIT	**Mar-14**

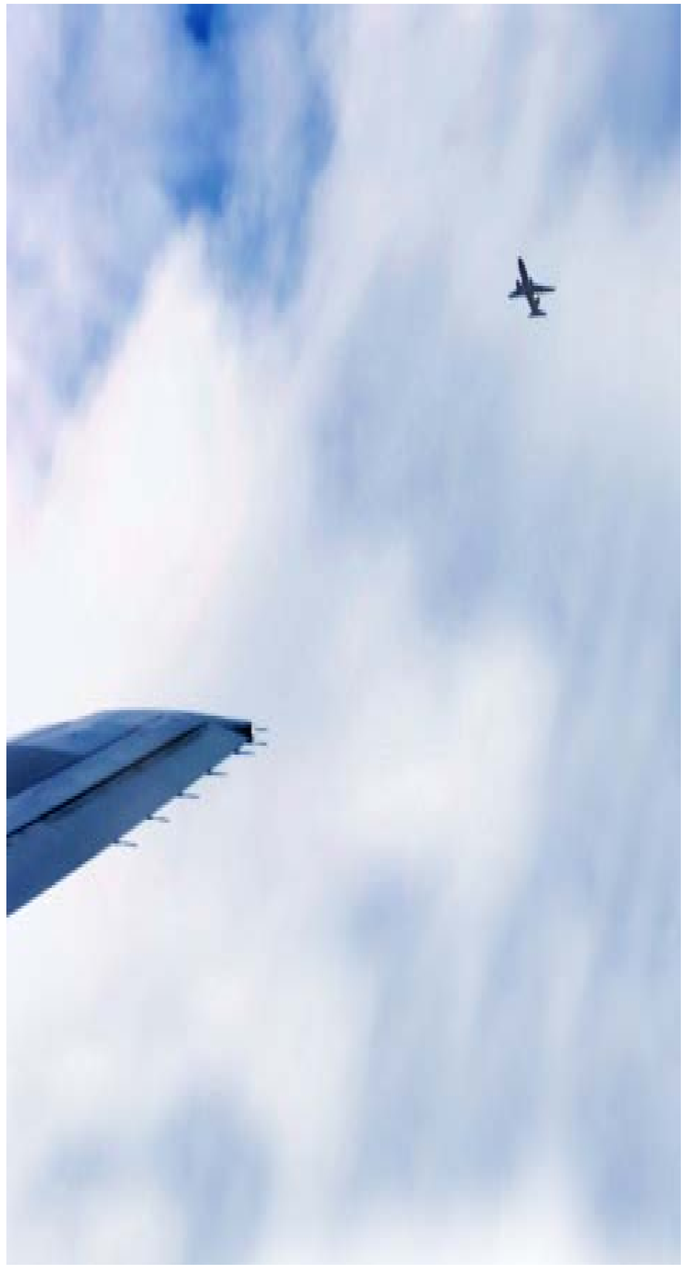
Runway Incursion

"We are actively promoting the European Action Plan for the Prevention of Runway Incursions version two (EAPPRI2) to reduce the risk of these incidents occurring at UK licensed aerodromes"

Actions – Runway Incursions	
• Information Notice on EAPPRI2 disseminated to all UK licensed aerodromes, AOC holders and ANSPs	**Jun-11** ✓
• Strategy, standards and guidance for airside driver training developed and implemented	**Feb-12** ✓
• Local Runway Safety Teams (LRSTs) in place, where appropriate, and working effectively	**Sep-12** ✓
• Implementation of EAPPRI2 recommendations, where appropriate, checked for: • UK licensed aerodromes • UK AOC holders	 **Sep-12** ✓ **Sep-13**
• Technical specification produced for a workable runway incursion prevention technology based on an AGL/Aerodrome solution, and a trial supported (if deemed appropriate)	**Dec-13**

Airborne Conflict

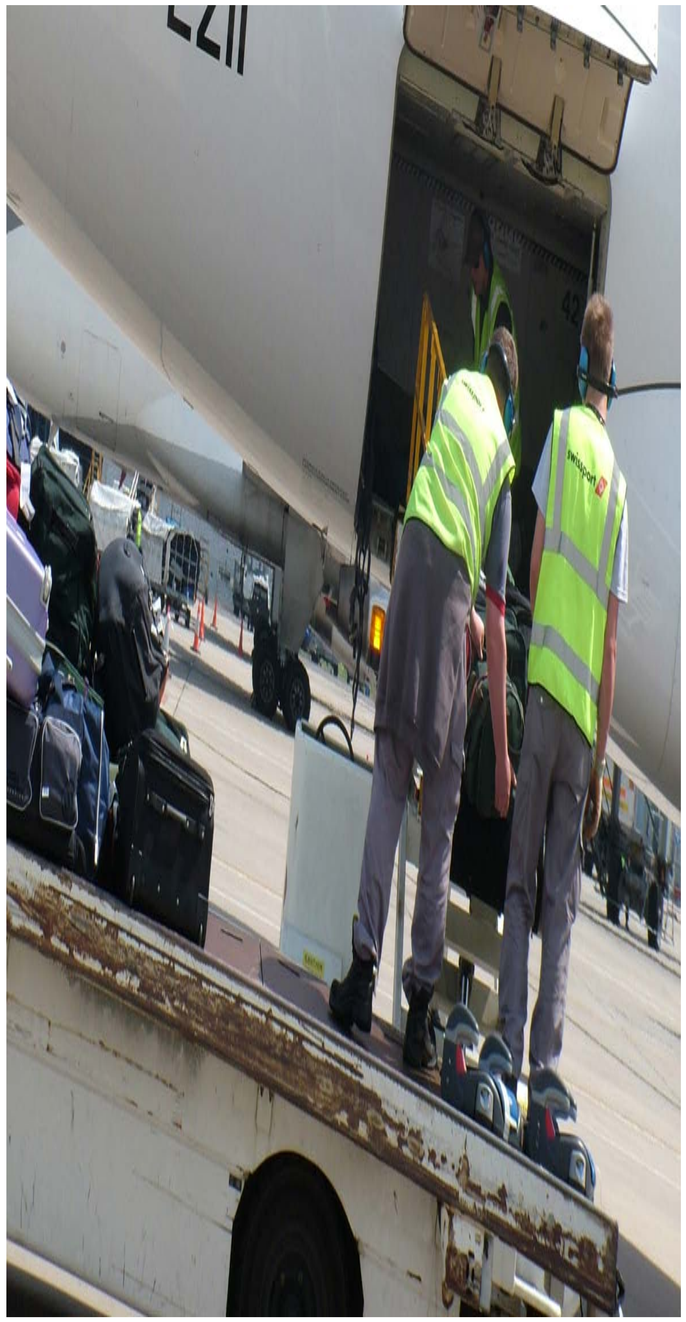
"Continue to pursue initiatives to ensure correct responses to Airborne Collision Avoidance System (ACAS) warnings and through a review of UK and international airborne conflict initiatives identify a more holistic approach to reduce the risk of mid-air collisions"



Actions – Airborne Conflict	
• CAA guidance material on ACAS training updated and recommendations made to ICAO, where appropriate, to amend their guidance (Doc 8168)	**Jan-12** ✓
• Use of part-task/desktop additional training aids for ACAS training investigated and promoted, where appropriate	**Jan-12** ✓
• Report on capability of ACAS simulator training devices to simulate realistic ACAS scenarios produced and advice disseminated to industry	**Mar-12** ✓
• Guidance published for flying instructors on the teaching of navigation	**Jun-12** ✓
• Improved clarity and communication of circuit joining procedures established	**Sep-13**
• Recommendations on reducing AIRPROX in Class G Airspace published	**Oct-13**

Ground Handling

"We are working with industry to raise awareness of the risks associated with ground handling – the primary aim is to reduce the risk of incidents linked to loading errors"



Actions – Ground Handling	
• Loading error educational material produced and promulgated to ground service providers and airlines	**Jun-11** ✓
• Internal auditing standards reviewed, as well as airline and aerodrome oversight of third parties, to determine need for enhanced or direct oversight of UK ground handling activities	**Sep-11** ✓
• Guidance published for industry stakeholders with regards to correct loading of electric mobility aids	**Mar-12** ✓
• Best practice methods for completing 'Last Minute Changes' to load-sheets produced and promulgated for industry use	**Jun-12** ✓
• Checklists for ground handling self-inspections/audits produced and promulgated in line with the internationally agreed IATA Ground Operations Manual	**Mar-13** ✓
• Trial undertaken of improving open reporting at a ground handling company, which can then be rolled-out to all ground handlers	**Sep-13**
• Guidance produced to supplement CAP 382 on the reporting of ground handling incidents, and emphasising the need for a 'Just Reporting Culture'	**Apr-14**

Fire

"We are developing training and guidance material and supporting international research to reduce the risk of in-flight aircraft fires"

Action – In-Flight Fires	
• Training media material produced to raise awareness on best maintenance practices, based on lessons learnt from latest research	**Jun-13**
• Media material promoted with industry	**Jun-13**
• Benefit analysis on cargo aircraft fire suppression systems produced in collaboration with FAA	**Aug-13**

Action – Lithium Batteries	

• Guidance produced on handling and transportation of lithium batteries tailored for:
  • commercial shippers;
  • ground handlers;
  • passengers; and
  • mail users
	Aug-13

Action – Influencing European Fire Research	
• Advice provided to support research on fire detection and suppression	**Sep-13**
• Advice provided on evacuation modelling research to improve operational procedures	**Sep-13**