



Since January 31st 2014, EU legislation has required airports to screen certain categories of liquids, aerosols and gels (LAGs) carried in passenger cabin baggage using Liquid Explosive Detection System (LEDS) equipment. Full implementation of the new regulations is planned to take place over a number of phases.

o&i consulting worked with airport operators to prepare for Phase 1 changes and is now involved in helping the industry to establish the operational effects of subsequent potential changes to LAGs legislation.

Our work in this area enables clients to understand current LAGs volumes; assess the likely operational effect of the legislative changes; trial new processes and equipment in live operations; determine the performance and reliability of LEDS equipment; and inform procurement decisions in advance of the new regulations.

We also provide live operational support to operators in implementing new LAGs processes, layouts and equipment, as well as post-implementation performance improvement.



our offering: LAGs screening operational change

Our team provides independent advice based on the needs of your airport. We perform detailed demand studies and manage trials of new processes and available technology, or provide ad hoc, independent subject-matter expertise to guide your decision making, depending on your requirements.

Our range of services to support LAGs changes includes:

- Set up and management of demand surveys - to determine current volume of LAGs by type and to provide a baseline from which to estimate future volumes
- Equipment identification and determining which equipment types would be most appropriate to your demand profile
- Development of processes and procedures to incorporate new equipment and legislation
- Trial planning and set up integrating LEDS screening technology to ensure the end to end process is effective and efficient
- Trial management in live operation - providing independent measurement of individual and combined performance of LEDS screening technology
- Assessment of the impact of changes in permitted LAGs carriage and LAGs volumes in live operation
- Analysis and reporting trial results to inform operational and procurement decisions
- Change management, implementation and post-implementation support
- Modelling possible future demand scenarios to assess potential impact of future phases of legislation change

LAGS screening operations: project experience

With over 10 years experience of passenger security screening process design and improvement, o&i consulting has helped operators to improve their operations performance and introduce change across their screening operation, as well as setting up and managing LAGs and LEDS trials prior to the introduction of Phase I, post Phase I implementation and to assess the potential impact of Phase 2. o&i consulting is a framework supplier to the EC for aviation security and regularly contributes its expertise in this field to EU/ACI working groups and committees.

Heathrow Airport: implementation of LAGs regulations

Our work involved carrying out volume surveys, equipment trials, process design and implementation to prepare Heathrow Airport for the first phase of changes to legislation regarding the screening of LAGs. Helping the airport to determine the most appropriate equipment for its demand profile, we then developed layouts and processes to accommodate the chosen equipment combination. We worked with trainers and operations teams to provide training in the new screening equipment and associated processes.

After supporting the airport in the smooth delivery of these changes, we reviewed the impact of the new regulations. Our team provided Heathrow Airport with an understanding of how the new processes had changed throughput and alarm rates, and quantified the effects on the operation and customer service. Our work identified modifications to improve the process and passenger experience.

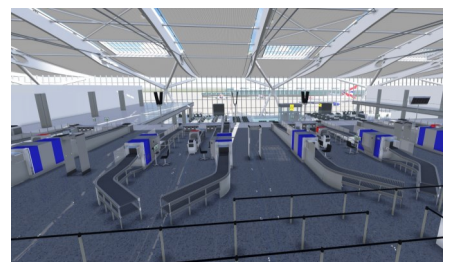
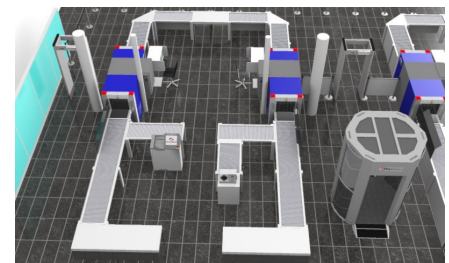
Dublin Airport: passenger screening process optimisation

Similar to the above project, we provided support to Dublin Airport in its preparations for the introduction of Phase I LAGs legislation in the EU. Our role included setting up and leading a survey and trial to assess the impact of LAGs at the airport. Following the trial, our team helped the client to determine the most appropriate equipment combination for its future operation.

Heathrow Airport: trialling Phase 2 LAGS regulations

o&i consulting was asked to conduct a short trial to assess the operational impact of Phase 2 LAGs legislation at Heathrow Airport.

Our team supervised the LEDS screening of a wide range of water bottles discarded and surrendered by Heathrow passengers on a variety of LEDS. Following this, we led a live operational trial of water carriage through passenger screening, increasing the proportions of water carried as the trial progressed. The study provided the operator with the necessary detail for it to understand the potential operational impact and future capacity requirements, should Phase 2 LAGs be introduced.



contact o&i consulting

David Calder
Director, o&i consulting
+44 (0)7990 572 895

davidcalder@oandiconsulting.com

Nigel Marsh
Director, o&i consulting
+44 (0)7919 202 067

nigelmarsh@oandiconsulting.com

o&i consulting ltd.
117a Guildford Street
Chertsey, Surrey
KT16 9AS, UK