

Test and Trials of Border Security Cloud Services

AtkinsRéalis

What We Do

AtkinsRéalis helps clients plan, design and run cloud-based technology experiments and trials for border security systems. This includes desktop studies such as modelling and synthetic environments, lab-based demonstrators, trials in a representative environment and trials in a live port or border crossing. Our borders security team comprises operational research analysts, experiment designers, systems engineers, mechanical and electrical design engineers, test and trials specialists, communications specialists, software developers, trials health and safety and security experts to provide the skills you need to run successful experimentation and trials.

We do this with a wrapper of programme and project management colleagues to ensure successful outcomes for clients wanting to try solutions and processes as part of a wider border security acquisition.

Our activities range from early engagements (feasibility studies and horizon scanning) through to optimizing people, process and technology security systems, lab demonstrators, full scale trials in live port terminals and procurement of operational and measurement solutions.

We are well versed in procuring and integrating experimentation and trials equipment with operational processes, training, logistics, data, people and organisational change from initial trials deployment through to disposal. We are ready to help you specify, procure and manage cloud based border security experiments and trials.

Why us?

AtkinsRéalis experience of border security experiments and trials comes from decades of work at the front end of complex acquisitions and deployment both in private and public sector.

This has helped our clients in:

- **Data quality:** cleaning and standardising data to ensure robust and reliable insights.
- **Optimising technology deployment:** for example in determining the best configuration of kit and people for border security scanning kit in a space constrained environment.
- **Digital twin and digital rehearsal:** to capture exact real-world 3D environments and modelling human behaviour in those environments for improved security, throughput, etc.
- **Feasibility trials:** in determining the best technology for border security. For example, we helped airports decide whether fingerprint, iris or facial biometrics would work best in their environment.
- **Lab based experimentation and trials:** our software teams help clients develop and integrate COTS technology to demonstrate and iterate functionality in a lab condition. This allows for rapid and agile developments and “what-if” scenario testing to de-risk acquisitions.

- **Experimentation:** to determine complex technology performance in representative, but safe and secure environments. We have experience of everything from highly sensitive scanning technologies through to armoured vehicles.
- **Trials in live environments:** to determine if technology can scale and perform in the real world.
- **Technology agnostic:** we design, manage and deliver technology trials for our clients, collecting requirements and developing their use cases to be tested. In parallel we work with diverse technology suppliers to integrate the most suitable solution(s) to meet the needs and benefit of our clients.

