GHD Airport and airspace simulation
Tight budgets and constantly rising expectations to deliver a safer, faster and enhanced service means the world’s aviation industry is examining every step of an asset’s life and its ability to generate revenue, with minimal impact on the environment.

Whether your vision is to create access or facilities in a new location, increase capacity and movement efficiency for a hard working local or international hub, enable a fly-in, fly-out workforce or improve commercial viability of diverse non-aviation investments - explore resourceful options, limit cost, aircraft noise and carbon emissions with GHD.

**Identifying needs**

Our clients tell us of their need to understand the state of play in industry. They require access to clear, accurate, and relevant airspace data to inform decisions for development, expansion and maintenance of their assets.

This data involves the predicted movement of aircraft, people and associated transportation, highlights impacts of regulatory changes and identifies the opportunities for optimisation.

Increasingly, airport and airspace simulation is used to provide vital intelligence to position aviation asset owners and operators ahead of the curve.

**Services**

Using fast-time simulation software, we:

- Validate operations of different airport design concepts - reducing errors, costs and risks
- Evaluate the benefits of future infrastructure investments including new terminals, additional gates, taxiways and runways
- Measure & improve current and future airport capacity - reducing congestion & delays
- Optimise schedule design from early stages to incorporate ongoing adjustments
- Design and validate new airspace procedures
- Analyse and evaluate airport design concepts for current airports
- Evaluate and compare new or alternative design concepts for planned airports

**Benefits**

Drawing on a team of global simulation smarts, we use the latest in computer analysis, simulation and modelling to support all aspects of airspace and airport planning. The availability of multiple models, along with the capability to use the best model to address the specific issues at hand, gives us great flexibility and responsiveness to assess airspace and airport operations. The end result? The most relevant, dynamic modelling available - backed up by a breadth of knowledge across environment, transportation and associated infrastructure.

**What to expect**

Working with us, you can expect to engage with an integrated team that understands airport operations, planning and air traffic control (ATC) operations - professionals that can provide a comprehensive, client-focused outcome (feel the love). We’ll team with you to provide ongoing support and project-specific assistance.

Our broad experience and knowledge base allows us to consider each issue holistically and assist you in developing robust solutions which are suitable for your design, planning operational and financial requirements.

**To talk airport and airspace simulation, contact:**

Van Tang  
T 61 2 6113 3000  
E van.tang@ghd.com

“Realistic predictions about the growth of air passenger and freight movement to a community and its economy are vital when deciding how to match funding and available finance with greater safety, security and revenue opportunity.”

Ian Dawson, GHD Global Market Leader Transportation