

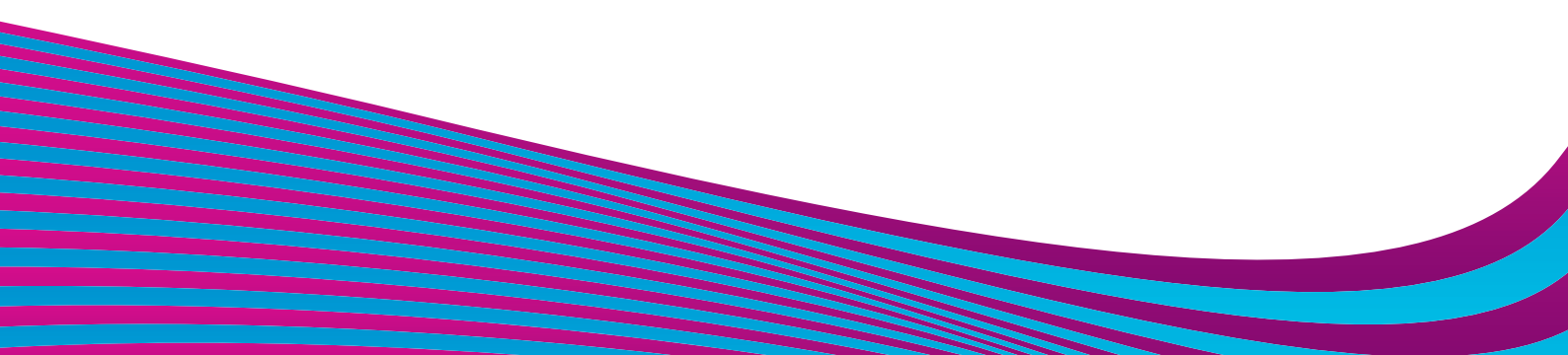
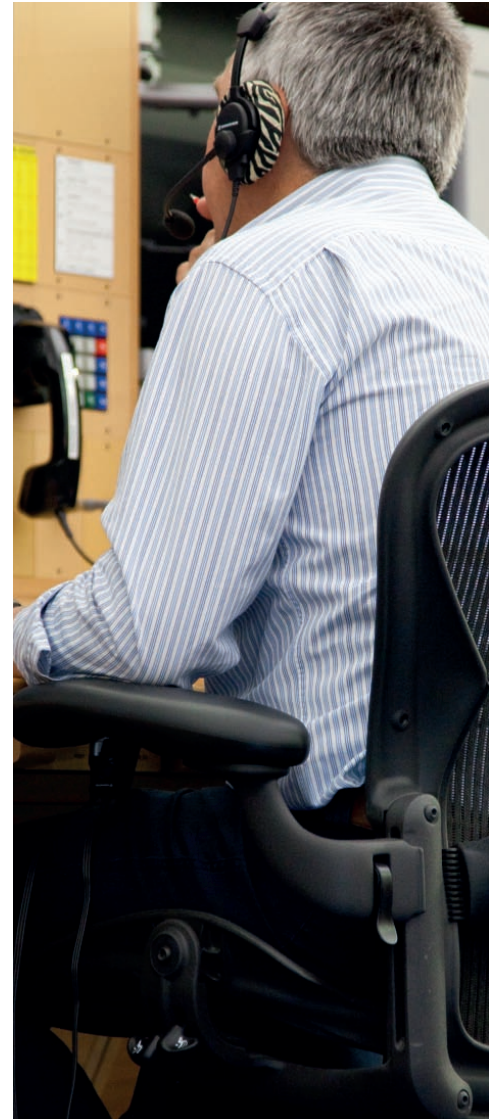
Increasing returns through asset optimisation

As many international airports undergo modernisation and expansion, so asset optimisation has become a priority in order to cut costs and reduce carbon emissions. By implementing an asset optimisation programme, airport operators can increase capacity and revenue and increase returns for stakeholders.

Reducing costs and carbon emissions for Hong Kong

After NATS Services conducted a study of Hong Kong's airspace and two runway operations at Chep Lap Kok Airport, Hong Kong's civil aviation department implemented our recommendations and saved millions of dollars in reduced holding and taxiing times as well as benefiting from a huge reduction in carbon emissions.

We also completed an extensive study to select a location for Hong Kong's proposed third runway on reclaimed land in the sea. After selection, simulations were run to prove the operational concept and determine the maximum capacity from three runways. Missed approach plans and safety cases were also produced for the new runway and for the two existing runways operating with a parallel third runway.

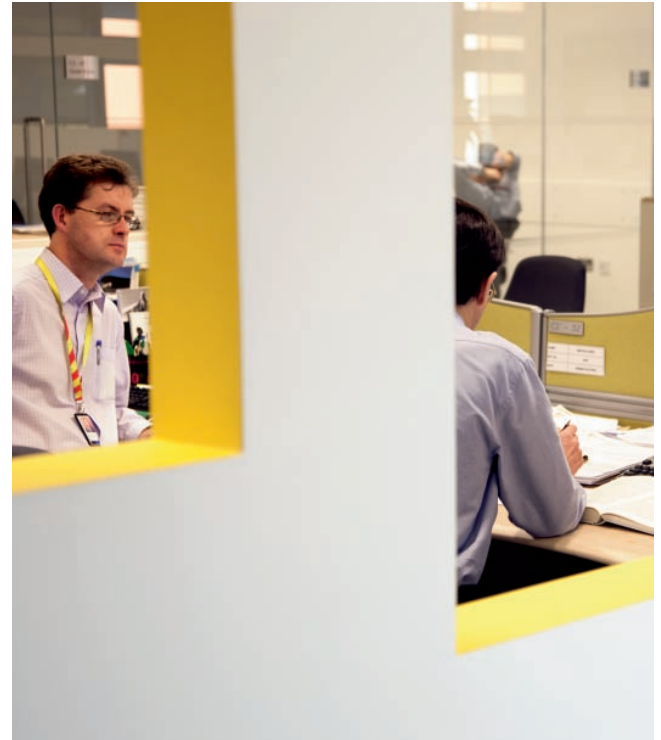


Our range of capabilities

- **Concept of operations**
Assessment and definition of current and proposed operations
- **Fast time and Real Time simulation**
TAAM and HERMES modelling to enable traffic projections and mitigations and to enable complete modelling for Real Time simulations using high fidelity simulations to client requirements
- **Airport planning**
Stand allocation, taxi and traffic flow optimisation at high density airport operations
- **Airspace planning**
Sector planning, holds, SIDS, STARS, missed approach and flow management
- **CNS solutions**
The CNS service performance report provides statistical data and supporting information for the performance of the air-ground-air comms, nav aids and radar surveillance systems provided by NATS
- **Optimisation tools – CDM/EFPS/TAAM/HERMES**
Bespoke tools for optimisation
- **Training**
Ab-initio and on the job training either at our own facilities or at your premises
- **SMS / safety cases**
Full safety management systems or individual safety cases for new equipment or procedures

Proven benefits

- Cost-effective
- Safety issues identified and resolved
- Increased revenue
- Reduced carbon emissions



For more information on how NATS Services can help with asset optimisation, please contact:

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