Whiteley – Head Office
NATS
4000 Parkway
Whiteley
Fareham
PO15 7FL
Tel: 01489 616 001

Middle East Office
Regional Headquarters Dubai:
1201
Platinum Tower
Jumeriah Lakes Towers
PO BOX Number 392497
Dubai UAE

India Office
CoWrks Worldmark 1
Asset Area 11 Aerocity
Indira Gandhi
International Airport
New Delhi DL 110 037
India

Singapore Office
51 Changi Business Park
Central 2 #04-06
The Signature
Singapore
486066
Tel: +65 6850 7210

Hong Kong Office
Suite 609
One Citygate
20 Tat Tung Road
Tung Chung
Hong Kong

Aberdeen Airport
Latitude 57.205254
Longitude -2.206207

Advancing Aviation, keeping the skies safe

NATS

For more information visit or email:
nats.aero
info@nats.aero

Contents

NATS is advancing aviation. As a global leader addressing industry issues and creatively solving them, we are making airports and airspace safer, more efficient and more sustainable.

Underpinned by our unique, industry leading ACE – Airport Capacity Enhancement – programme, our experts can help you distil a clear and safe path to enhance operations and prepare for the future.

Through our in-house expertise and trusted industry partnerships, we have a constantly evolving ecosystem of technology solutions and services to offer.

Our unique industry understanding of air traffic operations means we deliver solutions that are tailored to your specific needs and circumstances, whether that's as a trusted partner supporting you through a project, or an assured deployment of a technology solution.

Take a look at some of our core products and services.

Intelligent Approach

leidos

Intelligent Approach™

Intelligent Approach™ is an arrival spacing tool that helps controllers to safely optimise the gaps between aircraft on final approach to an airport. A range of options cater to each airport's unique needs, while seamlessly integrating into an ATM system.

The Distance Based Spacing functionality can enable at least 2 additional landings per hour by increasing controller consistency. Adding the Time Based Spacing module can enable at least 2 further landings per hour in strong wind conditions.

Intelligent Approach™ helps you to deliver a more efficient arrivals operation at a fraction of the cost of new taxiways and runways.

Find out more about Intelligent Approach™ at intelligentapproach.aero

Benefits

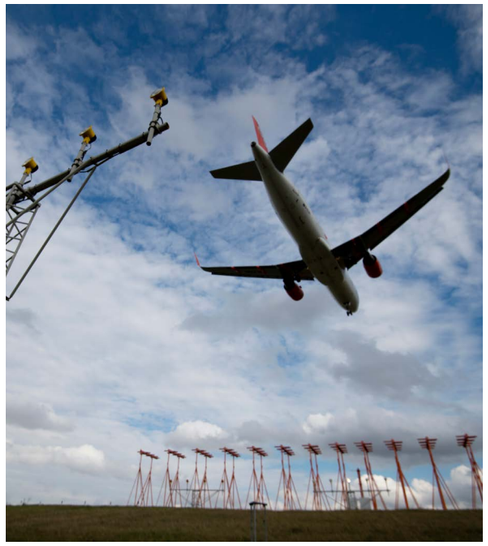
Enables choice in how to exploit existing runway and airspace infrastructure

Reduces fuel burn and emissions through improved predictability and reduced airborne holding

Increases resilience and on-time performance

Increases revenue by enabling additional capacity

Supports growth plans without major capital investment



SEARIDGE TECHNOLOGIES

Digital Towers

Today, digital towers are transforming the way air traffic is controlled. It's a technology that's making airports around the world safer, more flexible and efficient.

But beyond these universal benefits, there are a whole range of different reasons to consider digital tower technology. Maybe you need a cutting-edge control facility for a new or growing airport? Or you're looking to upgrade a tower to handle more traffic?

Perhaps you want to replace an ageing tower to save on maintenance? Or to move a tower to make it more secure, or free up valuable space?

Maybe you're looking to create a contingency facility, so your airport can keep running at full capacity, even if your main tower is out of action?

No one type of digital tower can meet all these different needs. That's why NATS and Searidge Technologies have created a range of digital towers, each designed to address a different challenge while all operating on the same software platform.

Model One: Digital Tower in Tower

A tower within a tower for operating a small airfield remotely from inside the tower of another 'parent' airport.

Model Two: Remote Digital Tower

A fully digital tower for a single runway airport, which can be either on or off-site.

Model Three: Remote Digital Tower+

A fully digital tower for more complex, mid-sized airports which can be operated within the airport or from another site.

Model Four: Hybrid Digital Tower

A hybrid digitised tower, ideal for upgrading an existing physical tower at a larger airport.

Model Five: Hub Digital Tower

A fully digital tower, perfect for replacing a physical tower at a major, multi-runway, multi-terminal airport, or for creating an equally capable contingency.

Demand Capacity Balancer

FREQUENTIS ORTHOGON

Demand Capacity Balancer

Demand Capacity Balancer (DCB) is a powerful prediction tool which provides airports with a digital twin to support data driven decision making. Created by NATS and Frequentis Orthogon, it harnesses a huge range of operational data to provide airports and ANSPs with evidence-based forecasts to support the delivery of co-ordinated, resilient strategic and tactical plans up to six months in advance right up to real-time planning.

DCB bridges the gap between strategic, pre-tactical and tactical planning by extracting data from multiple sources including weather and accurate arrival and departure times, enabling you take action to avoid congestion issues before they materialise.

Benefits

Enables rapid simulation of multiple 'what-if' scenarios so users can plan based on operational outcomes (e.g. punctuality), and data (e.g. arrival times)

Enables pro-active decision-making during planning phases to allow for more effective resource allocation to minimise cancellations and reduce operating costs

Provides the ability to distribute the collaboratively agreed plan across airport systems, reducing queues and improving passenger experience

Target Time of Arrival (TTA) capability makes best use of capacity to improve punctuality, reduce operating costs for airlines and reduce airborne delays

Increased predictability allows airports to pre-emptively mitigate ground and airborne delays and therefore decrease CO2 emissions

DCB supports Airport Operating Plan implementation in accordance with the ACI "Ground Coordinator" concept and the European Common Project One (CP1) regulation.

Our Commercial Portfolio

We work with customers all over the world, supporting and enabling them to achieve their ambitions to sustainably raise levels of safety, performance and environmental responsibility.

With bases in the UK, Middle East, India and Asia Pacific, we're perfectly placed to deliver products and services that help our customers reach their goals, whether that's through training the next generation of ATM expertise, developing capability roadmaps, or deploying innovative tools and technologies.

Opening the Skies to New Airspace Users

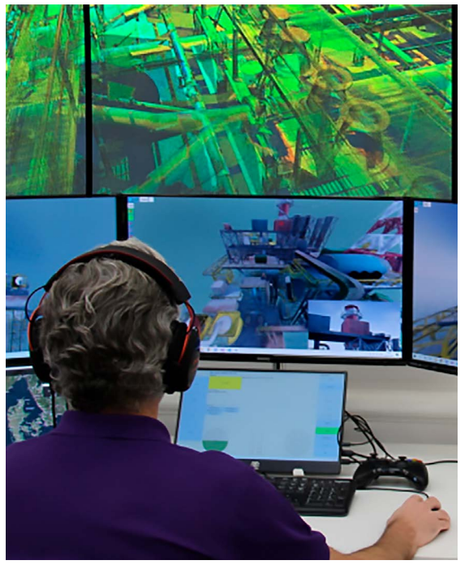
As a global leader in the provision of air traffic services, NATS is well placed to help enable beyond visual line of sight and advanced air mobility operations take flight. As a trusted partner of airports, airlines and governments across the globe, our focus is on safely integrating new types of aircraft, without disrupting existing airspace users, to create a sustainable, modernised and unified future.

As part of our commitment to opening the skies to new airspace users, we are undertaking Future Flight projects that test and develop new and advanced technologies and enable remotely piloted flights to take place.

Working collaboratively with industry partners, we have built the ground-breaking 'Master Control Room' concept to co-ordinate a range of airspace users, including electric air-taxis, drones and commercial space operators. We are enabling drone deliveries of essential medical supplies and developing innovative technology solutions to streamline flight approvals and establish unified air traffic management capabilities that will future-proof operations.

NATS can provide:

- Insight into both UK & International concepts of operations
- Solutions to Infrastructure Challenges
- Safety Management Assurance
- Industry expertise to inform investment feasibility studies



The ground-breaking 'Master Control Room' concept built for Project DBAS - 'Distributed Beyond Visual Line of Sight Aviation System' - used to co-ordinate airspace users, including electric air-taxis, drones, and commercial space operators.

Photo credit: sees.ai