

# Jane's ATC AWARDS 2019

## Who are the 2019 winners?

World ATM Congress  
Delegate Theatre | 12 March, 3pm

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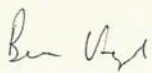
# The 19th edition of Jane's ATC Awards

Welcome to the 19th annual Jane's ATC Awards. Once again, a broad cross-section of the commercial aviation industry submitted high-calibre nominations that highlight significant achievements over the past 12 months to improve airspace capacity, efficiency, safety and environmental sustainability.

We thank all the nominees - both large and small - who took the time to participate in this year's competition. After careful consideration, our panel of industry judges chose the winners based on excellence within each category. The six categories for 2019 are: Environment, Enabling Technology, Innovation, Runway/Approach, Service Provision, and Technology.

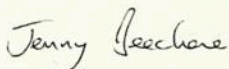
There are many people involved with making the event a success. We thank our sponsor Raytheon, for supporting the Jane's ATC Awards 2019, but we would also like to highlight the crucial role of our panel of judges in making the awards possible. It can be a complex task to pick a winner, so we extend our appreciation to each member of the jury for their assistance and support.

Thank you for joining us at the Delegate Theatre during Day 1 of the World ATM Congress, to celebrate the achievements of our industry. We hope that you enjoy the event and are inspired by the winners.



Ben Vogel

**Editor, Jane's Airport Review**



Jenny Beechener

**Editor, Jane's Air Traffic Control**



#### **EUROCONTROL**

Philippe Merlo, Director  
European Civil-Military Aviation



#### **FAA**

Jeff Planty, Vice President,  
Technical Operations



#### **IATA**

Carlos Cirilo, Director ATM Infrastructure



#### **ICAO**

Richard Macfarlane,  
Deputy Director, Air Navigation Bureau



#### **IFATCA**

Patrik Peters,  
President and CEO



#### **Jane's Air Traffic Control**

Jenny Beechener, Editor



#### **SESAR DM**

Nicolas Warinsko, General Manager

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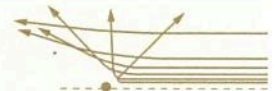
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# Shortlist & Winners

## Environment Award

ENAIRE has used PERSEO-EMISSIONS to assess new PBN procedures, for example **Point Merge** in Lanzarote and Fuerteventura



- Shortlist:**
- CRIDA:** PERSEO-EMISSIONS flight-efficiency monitoring and management tool
  - DSNA and Air France:** Triple, parallel, independent PBN/ILS approach procedures at Paris Charles de Gaulle and Le Bourget
  - GCANS, Iraq CAA, and Serco Middle East:** Re-opening of Baghdad Flight Information Region after conflict zone designation
  - Seville University and project partners:** TBO-Met meteorological uncertainty management for trajectory-based operations

**Winner** **CRIDA: PERSEO-EMISSIONS flight-efficiency monitoring and management tool**

The CRIDA R&D centre developed an automated monitoring and management tool for ENAIRE, to assist the Spanish ANSP in developing its performance-based navigation strategy. Calculations are based on the Advanced Emission Model from EUROCONTROL, and enhanced with a holding stack simulation model from ENAIRE. Flight efficiency metrics are computed in line with the SES Performance Scheme.

## Enabling Technology Award

In the first four full months of eTBS operations, Heathrow averaged **1.4 additional landings** per hour on top of previous benefits achieved by TBS



- Shortlist:**
- Altitude Angel, NATS, Manchester Airport, and Frequentis:** Operation Zenith real-life drone demonstration
  - IANs:** Inside ATM e-learning package for all
  - NATS, Leidos, and Heathrow Airport:** RECAT EU and eTBS implementation at Heathrow
  - SITAONAIR and Collins Aerospace:** VDLm2 Multi-Frequency Deployment according to ELSA Model B

**Winner** **NATS, Leidos, and Heathrow Airport: RECAT EU and eTBS implementation at Heathrow**

In March 2018, UK hub Heathrow became the first airport in the world to integrate enhanced time-based separation (eTBS) with Eurocontrol RECAT EU wake vortex categories for arrivals and departures into live operations. New operational efficiencies with eTBS include Optimised Runway Delivery and Runway Occupancy Time. The former models the compression between each aircraft pair to allow controllers to safely manage separation to runway threshold, and the latter integrates time and wake separation indications to determine the time an aircraft spends on the runway.

## Service Provision Award

An arrival balancing tool applied to Barcelona TMA cut ATC capacity delays by **4.94%**



- Shortlist:**
- AZANS:** Azerbaijan Airspace Supervision & Efficiency Centre (ASEC)
  - Clayton J Lloyd International Airport, Anguilla:** GNSS IAP implementation after Hurricane Irma
  - ENAIRE:** Flow Tools Ecosystem
  - skyguide:** Service Oriented Architecture in ATM Live oPerationS (SOA ALPS)

**Winner** **ENAIRE: Flow Tools Ecosystem**

Flow Tools Ecosystem is a suite of tailored web applications, developed by ENAIRE, to improve flight management efficiency in Spain. The toolkit was implemented with agile methodologies, to achieve very short development cycles and pave the way for swift final clearance to enter the operational environment. The result is a growing set of solutions to solve critical ATM problems, helping the Spanish ANSP achieve its safety, capacity and delay-reduction objectives.

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## Technology Award

Results to date for Qantas include **0.6%** lower fuel burn per flight, leading to lower carbon emissions



**Shortlist:** **DFS, Frequentis:** Full operations for remote tower control at Saarbrücken Airport  
**Frequentis, Qantas, Smart4Aviation:** Flight planning futures/constellation  
**Micro Nav:** Simulated air traffic management training facility and Military Air Systems Control Simulator (MASCS) for UK Royal Navy  
**NAV CANADA, NATS:** Extended Computer Display System (EXCDS) for London Terminal Control

**Winner** **Frequentis, Qantas, Smart4Aviation: Flight planning futures/constellation**  
Frequentis developed a complete flight planning platform for Qantas, centred on an advanced route optimiser. The scalability of cloud computing, and ingestion of rich datasets from external sources, allows Qantas to continually assess and adjust planned paths en-route. This delivers increased safety through more accurate fuel prediction and efficiency via fuel savings.

## Runway Award

Now runway crossing clearances at Zürich take just one click, compared to five interactions with three systems previously



**Shortlist:** **Cranfield University:** Digital control tower and Digital Aviation Research and Technology Centre (DARTeC)  
**FAA, Saab ATM:** Runway Status Lights (RWSL) introduced to reduce runway incursions  
**Indra Navia, SkySoft-ATM, Zürich Airport, skyguide:** Advanced Runway Safety Improvement (ARSI) programme  
**Saipher ATC:** TATIC TWR

**Winner** **Indra Navia, SkySoft ATM, Zürich Airport, skyguide: Advanced Runway Safety Improvement (ARSI) programme**  
Swiss ANSP skyguide – with support from Indra Navia, SkySoft ATM, Swiss International Air Lines, and Zürich Airport – recently completed the rollout of the ARSI system, restoring throughput capacity during complex runway configurations at the airport. The team reduced the complexity of using advanced systems by focusing on how apron and tower controllers use technology. In the process, ARSI has also helped to improve situational awareness for controllers.

## Innovation Award

Results of the COCTA case study showed that the same volume of traffic could be handled with an **83%** reduction in total delay minutes



**Shortlist:** **COCTA project team:** Coordinated capacity ordering and trajectory pricing for better-performing ATM  
**EUROCONTROL:** CONOPS for dual-frequency multi-constellation GNSS  
**MALORCA consortium:** Machine-learning speech recognition system for controller communications  
**R-WAKE consortium:** Wake vortex simulation and analysis to enhance en-route separation in Europe

**Winner** **COCTA: Coordinated capacity ordering and trajectory pricing for better-performing ATM**  
The COCTA team, led by the University of Belgrade, developed an innovative concept to strengthen the role of the network manager by combining co-ordinated capacity provision with a novel approach for demand management. The team developed a complex optimisation model and applied it to a large-scale case study involving more than 11,000 flights from eight ANSPs in highly congested European airspace. The case study combined real-world data with random effects such as non-scheduled flights.

## Are we moving into a new era of air traffic control?

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