



2017 IATA Air Cargo Innovation Awards

5 finalists shortlisted by the Jury!

The second edition of the IATA Air Cargo Innovation Awards is already a great success! 46 entries received from start-ups, small & medium size companies and multinational corporations on the areas of cloud computing, drones, big data, blockchain, ULD, dangerous goods, screening technologies, ground equipment, digital, track&trace, environment, mobile technologies, sensors, pharma & special cargo, etc.

The submissions were of such high quality that many finalists were tied, therefore we have 5 finalists this year, rather than 3!

- **Astral Aerial Solutions** – UTM Concept for Africa (Kenya)
- **Etihad Cargo** – Smart Electric Cool Dolly (United Arab Emirates)
- **Gatechain** – Redefining trade with blockchain (Switzerland)
- **Jettainer** – Innovative Decision Support System (DSS): synergies from big data and expert system technology for ULD management (Germany)
- **OpenAirlines** – SkyBreathe Fuel Efficiency (France)

IATA is inviting these 5 finalists to present their idea, project or product at the 11th IATA World Cargo Symposium in Abu Dhabi, UAE. Delegates will then vote for their preferred idea and the winner will be announced during the Closing Plenary on the 16th of March 2017.

Each of the submissions are summarized below:



Astral Aviation has established a subsidiary, Astral Aerial Solutions, to handle the Kenyan cargo airline's foray into drone delivery.

<http://astral-aviation.com/>

Kenya

Astral Aerial Solutions – UTM Concept for Africa

"UTM Concept for Africa is a project being undertaken at Astral Aerial Solutions and is targeted for managing UAS operations in remote areas with insufficient infrastructure.

This concept seeks to answer major questions surrounding safe, secure and effective UAS operations and integration into the existing airspace.

We believe integrating UAS into the existing airspace will solve an array of UAS traffic management issues such as UAV-Aircraft collisions and congestion. This in turn will open up the continent to new technologies and associated benefits of UAS operations.

It is also a unique opportunity for regulators, operators and manufacturers to come together and pave the way forward for UAS use."

(UTM = UAS Traffic Management / UAS = Unmanned Aircraft System / UAV = Unmanned Aerial Vehicle)



Established in 2004, Etihad Cargo is the fast growing cargo division of Etihad Airways.

<http://www.etihadcargo.com/>

United Arab Emirates

Etihad Cargo – Smart Electric Cool Dolly

"The Etihad Cargo team wanted to design a sustainable smart electric cool dolly that would not only benefit our business, but also our extended partner network and beyond. The project would set a positive precedence of innovative electric vehicles across the global cargo community positively impacting the Pharmaceutical industry as well as other growing sectors such as Perishables and Live Animals."



Gatechain has developed solutions for trade finance on a decentralised network which allows to seamlessly connect all participants in the trade ecosystem.

<http://www.gatechain.com/>

Switzerland

Gatechain – Redefining trade with blockchain

"Paper is still used as the main mean to transport information and ownership across business processes. Current initiatives do not tie into the processes of the airfreight customers, that simply want to buy and sell goods, get financing and transport the cargo. By using blockchain technology, the two separate streams, finance and goods, can be connected and make the transactions agile and transparent.



Through the exciting new way that the blockchain technology offers, this is the first step into enabling incremental business processes across the whole supply chain. We offer the tools to get started moving into an open, collaborative new way to participate in trade.

We are looking for partners, to engage in proof of concepts and develop an MVP with us.”



Jettainer is a leading international service partner for outsourced ULD management.

www.jettainer.com

Germany

Jettainer – Innovative Decision Support System (DSS): synergies from big data and expert system technology for ULD management

“Using a big data based expert system to support our ULD steering staff to better, more efficient and environmentally conscious manage our customer's ULD fleets.

The System actively supports our Team when making ULD steering decisions. Never the less, the ULD controller remains the one making the last decision. Therefore, the system reduces working time for standard and basic ULD steering tasks, leaving more time for more complex tasks and decisions.”



OpenAirlines is a consulting and software provider founded in Toulouse, France, in 2006 to meet the needs of airlines to optimize their flight operations and reduce their costs.

<http://openairlines.com/>

France

OpenAirlines – SkyBreathe Fuel Efficiency

“Capitalizing on its participation in the European Research Program, Clean Sky, from 2009 to 2014, the company developed SkyBreathe®, an innovative eco-flying solution to save fuel and reduce CO2 emissions.

The software uses Big Data algorithms to analyze a large quantity of flight data (from black boxes, weather data, traffic data...) on each flight operated by airlines. Then, it detects maneuvers or best practices that could be implemented to improve their fuel efficiency.

By providing extensive KPIs, reports and dashboards as well as individual pilot briefing and debriefing tools, it enables airlines to reduce their fuel consumption and CO2 emissions by

2-5%. This expense is strategic for the airlines given that fuel accounts for some 30% of their costs that's why SkyBreathe is extremely cost-effective and provides high ROI.”