

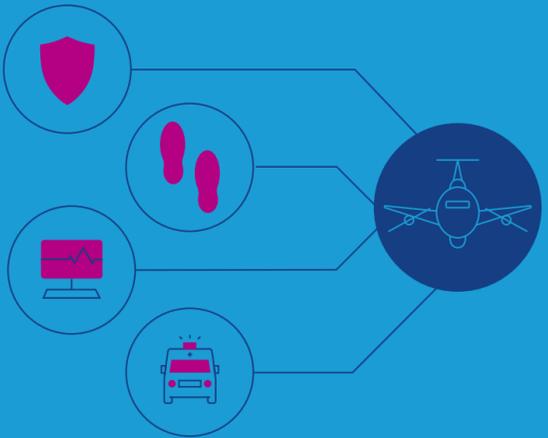
# OPTIMISING AIRBORNE ISR MISSIONS

Intelligence, surveillance, and reconnaissance (ISR) missions are an increasingly important part of government operations worldwide. DEA Aviation Ltd.—a UK-based company specialising in manned airborne ISR missions—capitalises on SES-enabled near real-time connectivity to enhance operational efficiency, ensuring customers such as Frontex can access and action the right information at the right time.

## THE IMPORTANCE OF AIRBORNE ISR

Information gathered and relayed via airborne ISR missions benefit a range of government operations.

- Border patrol and protection
- Tracking and regulating illegal activity
- Environmental monitoring
- Humanitarian assistance and disaster response



## COMPLEXITIES OF DELIVERING ISR SOLUTIONS



### GROWING DEMAND FOR DATA

ISR missions generate and relay large volumes of data from multiple sensors.



### ADVANCES IN SENSOR TECHNOLOGY

Improved sensors capture more data, requiring high-throughput connectivity.



### NEED FOR GLOBAL COVERAGE

Near real-time connectivity over a wide coverage area is essential to beyond line of sight surveillance missions.

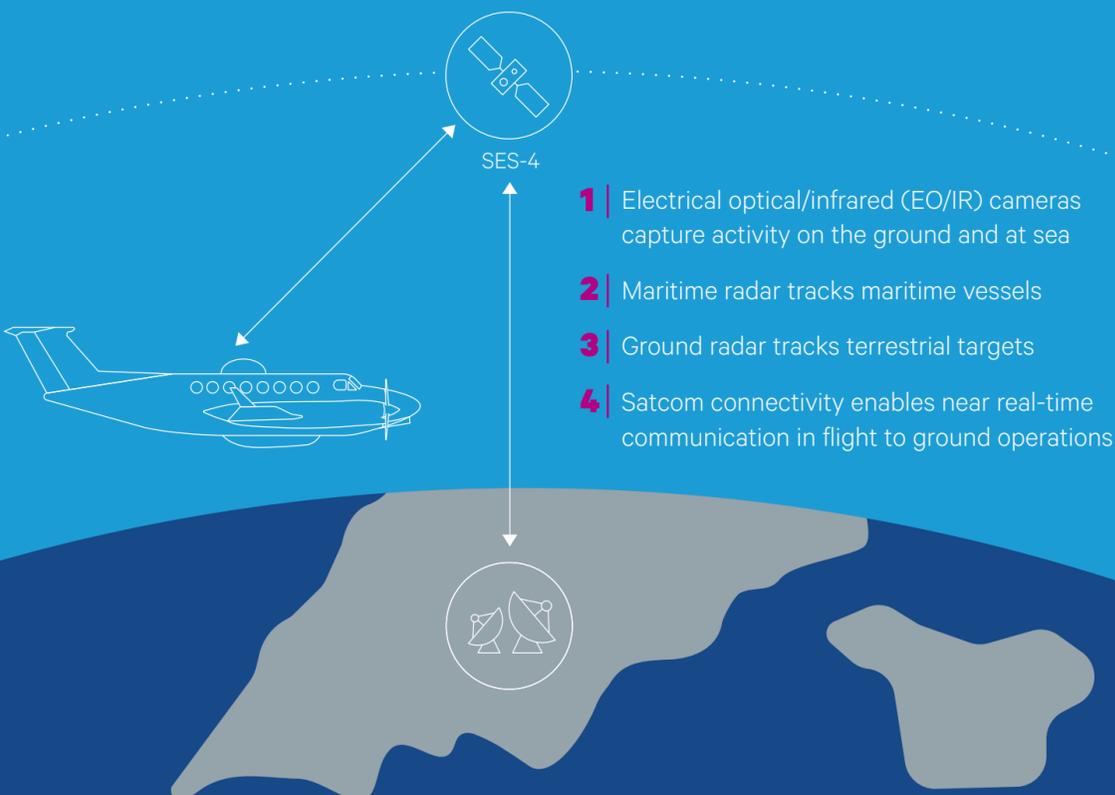


### ADOPTION OF CLOUD-BASED APPLICATIONS

Digital transformation initiatives drive the need for direct connectivity to the cloud.

## DEA AVIATION'S SUITE OF SENSORS

To meet its customers' growing demand for near real-time data, DEA Aviation deploys multiple high-fidelity sensors.



## MEETING DEA AVIATION'S UNIQUE CONNECTIVITY REQUIREMENTS

SES's bespoke solution ensures DEA Aviation can access near real-time connectivity within the desired coverage area, allowing it to gather and deliver large volumes of data from multiple sensors—including high-definition videos and high-resolution images.



### OUR SERVICE OFFERING

- Currently hosted on SES-4
- 24/7 MOC and SMOC service support
- Global GEO service coverage via SES fleet
- High-throughput, low-latency connectivity via SES MEO fleet
- Between 1Mbps and 20Mbps, dependent on terminal

## O3b mPOWER

## REFRAMING THE FUTURE OF ISR

Our next-generation Medium Earth Orbit (MEO) communications system, O3b mPOWER, will continue to support ISR missions—even as their needs grow and evolve.



### NEW LEVELS OF SCALE

High-throughput services scalable to multiple gigabits per second support increasingly large volumes of data generated by sensors.



### NETWORK RESILIENCE AND SECURITY

Jamming and interception resistance and the ability to land traffic at government-owned gateways ensure maximum information security.



### NEW POSSIBILITIES

Low-latency and high-throughput connectivity optimise off-boarding capabilities for multi-sensor missions.



### CLOUD-SCALE CONNECTIVITY

Low-latency performance and dedicated, private connections from remote sites to the nearest cloud data centre support time-sensitive cloud workloads.



### MISSION FLEXIBILITY

Flexible bandwidth allocation on forward and return links enables capacity in line with changing mission requirements.



### PROVEN TECHNOLOGY

O3b mPOWER is the only non-geostationary orbit (NGSO) solution based on commercially and operationally proven technology.



Read the DEA Aviation Case Study [www.ses.com/case-study/dea-aviation-ltd](http://www.ses.com/case-study/dea-aviation-ltd) to learn more.