


DEFENCE AND SPACE
Intelligence

Geospatial Intelligence Centres

Empowered by Airbus



Planning
Collection
Processing
Analysis
Dissemination



AIRBUS

A modular solution that grows with your needs

Defence and security decisions rely on up-to-date intelligence that has taken relevant multisource datasets into account. This requires innovative tools, which allow for the collation, processing, analysis and refining of available information to give decision makers the ability to quickly see an overview of a situation or detail.

Airbus is the expert in intelligence integration, with decades of experience and references from key ministries across Europe and around the globe. Our team of intelligence experts constantly develops and refines customer-centric systems to ensure customer challenges are answered with specific solutions. This is particularly relevant in times where new threats, such as the integration of big data, into the intelligence process gain relevance.

Airbus now offers geospatial intelligence centres: secure platforms that bring multiple intelligence sources together, giving you the visibility you need to make informed decisions. The geospatial intelligence centre brings together imagery intelligence (IMINT) from satellite, aerial and drone images; open source intelligence (OSINT), which includes images, videos, sound and text; as well as geospatial intelligence (GEOINT). In addition, if your organisation wishes to integrate communication, signal or human intelligence reports, they can be easily imported and fused with other intelligence information by the GEOINT cell.



Industry-leading geospatial experts you can rely on.

With over 30 years of experience and the world's largest combined optical and radar satellite constellation, Airbus is the industry's leading geospatial expert. Solutions are built around the operational customer requirements – not just looking at one source but also integrating a variety of datasets to provide timely, accurate intelligence.

State-of-the-art processing and data power

Capturing and processing data is what we do best. Our intelligence and defence specialists constantly develop and advance our solutions, ensuring that our customers get the most accurate, timely and useful intelligence in the sector.

Airbus: a long-term partner you can always rely on

Our solutions are built on mutual trust and strong relationships with our customers. Throughout and after implementation, if desired, Airbus provides professional training, as well as assistance and support – all to ensure customers are getting most out of the implemented technology.

Solutions that grow with your specific operational requirements


Our approach is modular and bespoke. We have off-the-shelf starter solutions, providing your team with cost-effective tools. If your requirements change or grow over time, it's not a problem – you can easily add new operational capabilities to perfectly match your evolving requirements.

Guaranteed usefulness

Our solutions come with a 1-year warranty, as well as training and support as a standard. The system is highly flexible, allowing you to import almost any dataset format, providing you with the most useful, integrated solution on the market.

This brochure presents entry-level solutions, which allow you to start building capacities, and which are designed to grow with your operational requirements over time. This approach gives you the greatest level of flexibility, allowing you to make investments as required. Equally, these solutions are designed to enable rapid implementation, making staged deployment highly cost-effective.

Ultimately, a mature and bespoke geospatial intelligence centre can provide you with full capability and infrastructure to securely and effectively coordinate large-scale and complex defence missions with a large number of operators.



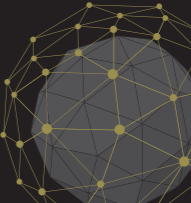
IMINT Starter Kit

Cost-effective, off-the-shelf image visualisation and exploitation software.



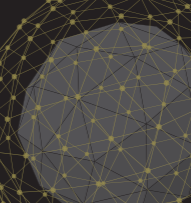
GEOINT Starter Kit

The IMINT Starter Kit's counterpart – a cost-effective geospatial software suite to visualise and combine data on a virtual 3D globe.

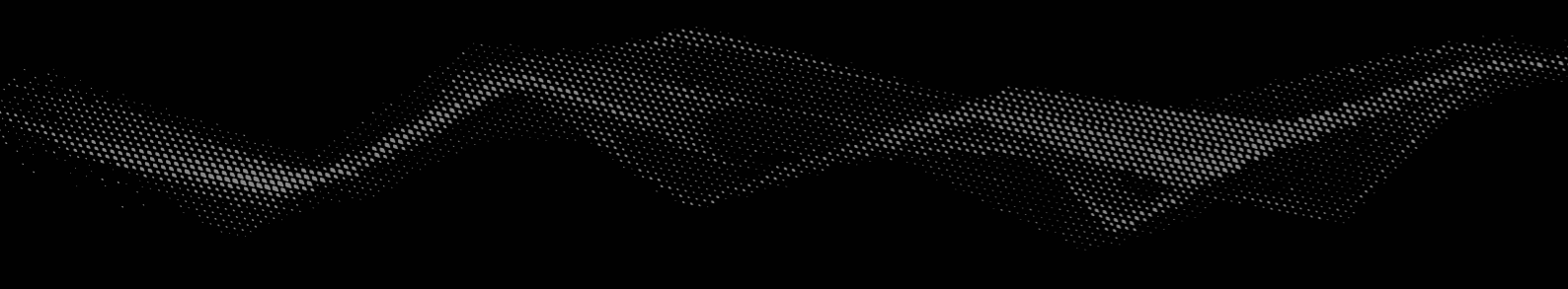
Basic GEOINT Centre

A geospatial intelligence starter centre, combining image analysis and geospatial software with a secure datacentre hardware.

Primary GEOINT Centre

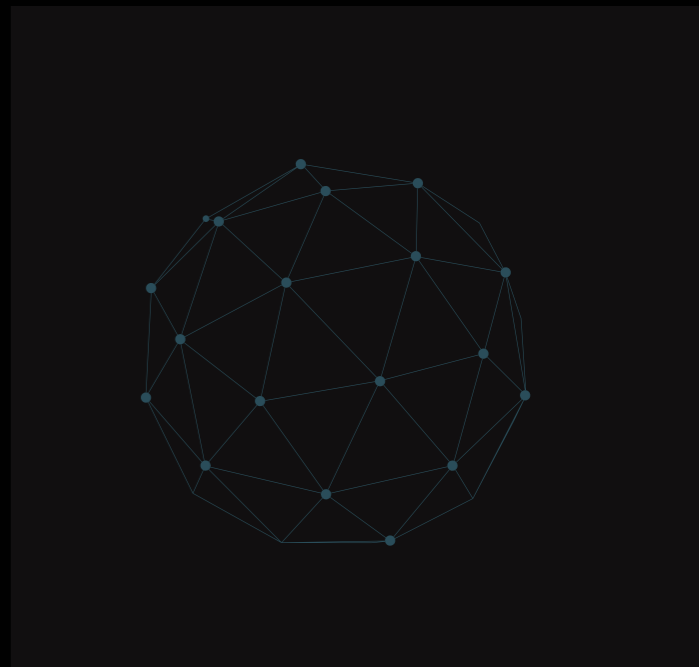
Building on the Basic GEOINT Centre, this more advanced and larger-scale version includes disconnected web-access, integrating OSINT data.



IMINT Starter Kit

Image analysis software suite

This off-the-shelf visualisation and exploitation tool is quickly integrated into your infrastructure, providing a secure and easy-to-use solution for image analysis. The IMINT software suite provides an up-to-date object database (IMINT KDB, RECCE Engine) but also enables you to integrate your own datasets.



Capability

Software

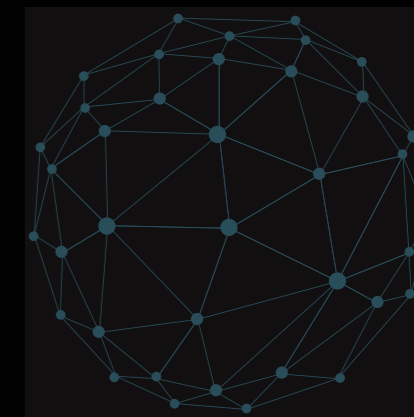
Key features

Options

<p>Capability to visualise and exploit images.</p> <p>A cost-effective starting point for more complex geospatial solutions.</p>	<p>Image Analyst Lite</p> <p>Modern, user-friendly software for the exploitation of multisensory imagery data with the advantage of quick processing times regardless of its size, multi-geoids management, accurate measurements (distance, angle, surface, height, volume), as well as 3D geographical location in the displayed images.</p>	<p>Software solution (no hardware)</p> <p>2 weeks of training</p> <p>On-site installation</p> <p>Level-1 support (hotline), annual on-site visits</p> <p>Scaled for 5 operators</p>	<p>5 additional operators</p> <p>RECCE engine options</p> <p>Image Analyst Lite advanced training (1 week)</p>
	<p>IMINT KDB</p> <p>Image Intelligence Knowledge Database to support the image analyst in the recognition and identification of ground infrastructures.</p>	<p>RECCE Engine</p> <p>Innovative semi-automatic recognition tool to support the image analyst in mobile assets recognition.</p>	

GEOINT Starter Kit

Geospatial software suite



The intelligence starter solution is immediately available off-the-shelf. In contrast to IMINT, the GEOINT Starter Kit delivers the highly advanced I4D Explorer software (Intelligence 4 Decision) at its core. This tool allows you to visualise and fuse all available user georeferenced data in space and time – whatever their format, on a 3D virtual globe. It can be used to collect and perform basic exploitation of geospatial datasets or to issue geospatial analysis reports.

Capability Software Key features Options

Collection of images and geospatial data, edition of vector data and metadata.	I4D Explorer	Software solution (no hardware)	5 additional operators
Intelligence data fusion to create multi-source analysis reports on an easy-to-use 3D virtual globe view.	A most advanced information management software, which visualises any georeferenced data such as satellite data, PDFs, audio recordings or videos in a virtual 3D globe by location and time.	Includes free open source foundation layers	1 week of additional training
	Delivered with free foundation layers including SRTM, free elevation data (at 30m resolution), tactical pilot charts, Open Street Map, and Geoname database, plus a 10m resolution satellite world map.	1 week's training	1 week of legacy database imports
		On-site installation	

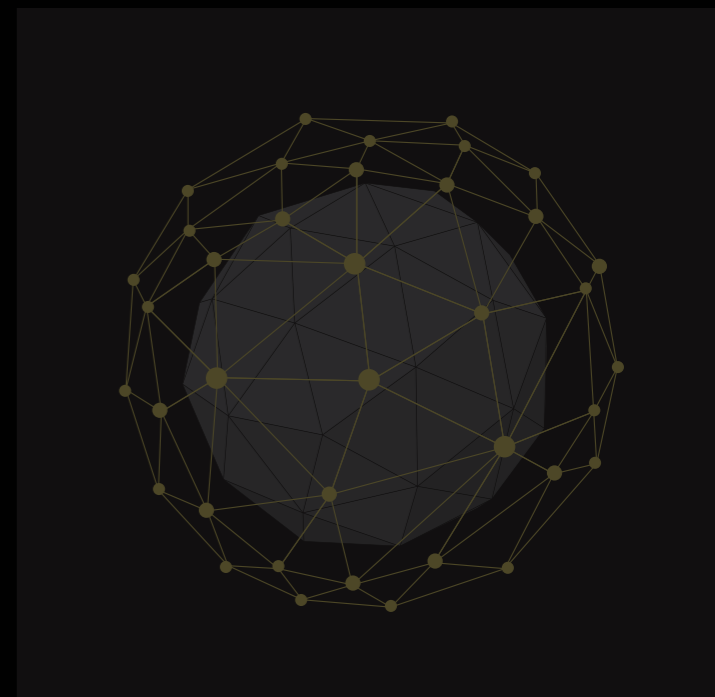


Did you know? More than 2,500 operators from Defence Ministries use I4D on a daily basis to deliver GEOINT analysis reports.

Basic GEOINT Centre

An entry-level geospatial intelligence and image analysis platform

This geo-intelligence centre gives you a starting point to manage the whole intelligence process from collection and visualisation to exploitation and dissemination on one intuitive platform. The baseline solution includes secure datacentre hardware and software, integrating both starter kits. During the set-up period, Airbus will support your operation and resolve any operational requests you may have.



Capability

Integrates I4D Data Centre software for image collection, cataloguing, storage and dissemination.

Integrates Image Analyst Lite for image visualisation and exploitation and I4D Explorer for data access and intelligence data merging.

Software

I4D Data Centre and I4D Explorer
Including software and hardware, I4D provides a turnkey, end-to-end infrastructure and service solution that is secure and scalable. I4D implements international standards for geo-data access (Open Geospatial Consortium – OGC), which makes the access with existing data repositories very easy and opens it to a wide variety of formats.

Image Analyst Lite
User-friendly software for the exploitation of multisensory imagery data as introduced in the IMINT Starter Kit.

Hardware

1 mini server (non-redundant)

5 workstations

Key features

Integration of the IMINT and GEOINT starter kits

Hardware and software

4 weeks' training

Platform configuration, integration, on-site installation

Scaled for 5 operators

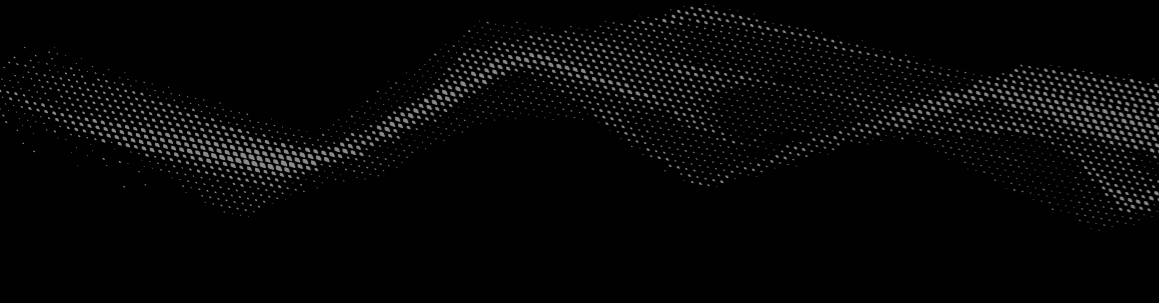
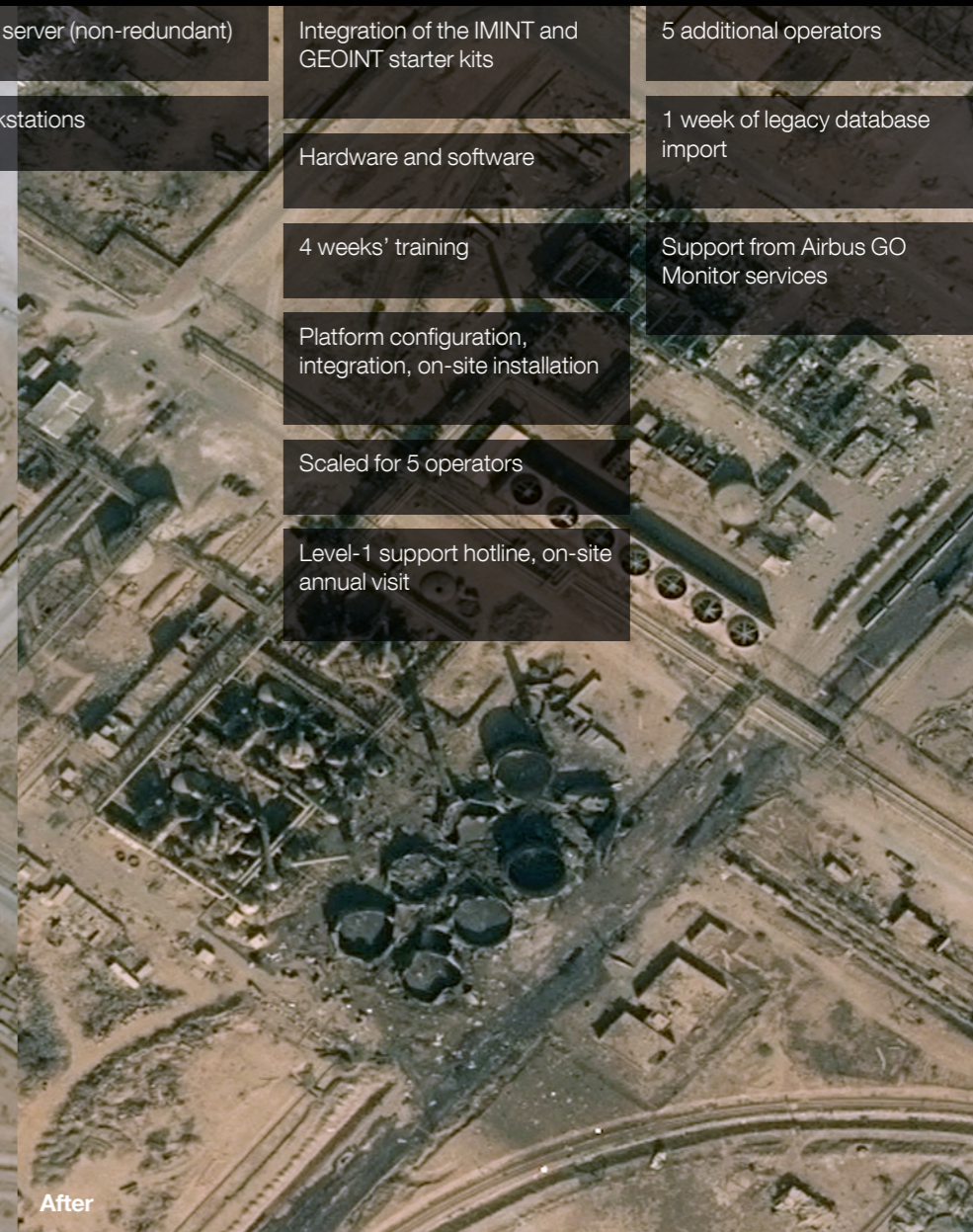
Level-1 support hotline, on-site annual visit

Options

5 additional operators

1 week of legacy database import

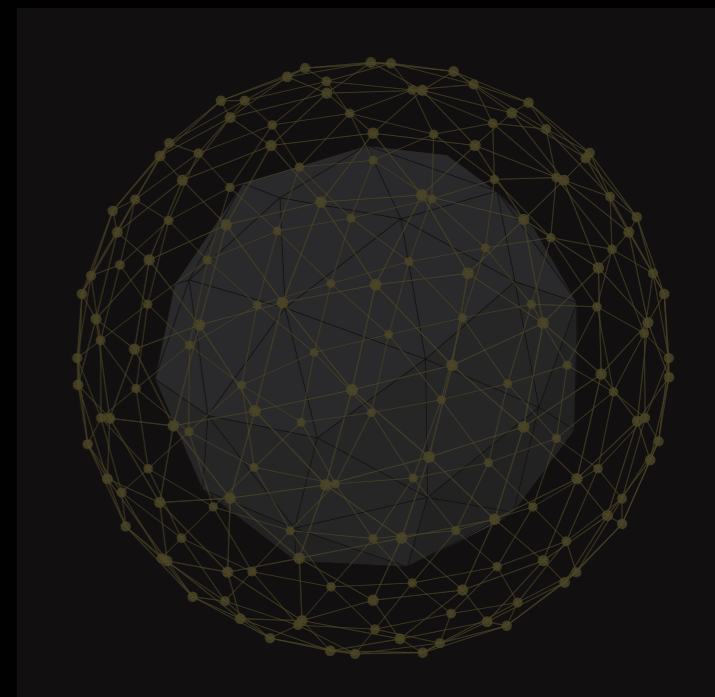
Support from Airbus GO Monitor services



Primary GEOINT Centre

A small-scale, complete integrated geospatial and imagery analysis platform with web access

Building on the Basic GEOINT Centre, the Primary GEOINT Centre offers a more advanced and larger-scale solution. The platform's disconnected web access adds valuable OSINT capabilities to your solution, whilst it provides a high-level of reliability at all times. In addition, the larger and redundant servers provide advanced processing power, and offer a complete and secure geospatial and imagery analysis platform.



Capability

I4D Data Centre for data collection, cataloguing, storage and dissemination.

Image analysis and object databases (Image Analyst Lite, RECCE Engine and IMINT KDB) are employed to visualise and exploit imagery.

Disconnected web access to initiate an OSINT cell.

I4D Explorer guarantees easy access to data, visualisation and merging.

Software

I4D Data Centre and I4D Explorer

Including software and hardware, I4D provides a turnkey, end-to-end infrastructure and service solution that is secure and scalable. I4D implements international standards for geo-data access (Open Geospatial Consortium – OGC), which makes access to existing data repositories very easy and opens it to a wide variety of formats.

Image Analyst Lite

The user-friendly software for the exploitation of multisensory imagery data as introduced in the IMINT Starter Kit.

Secure web access

Secure web access allows the integration of open source datasets.

Hardware

1 small redundant server

9 workstations

Key features

Building on the Basic GEOINT Centre

Secure web access

Hardware and software

8 weeks' training

Platform design, configuration, integration and on-site installation

Level 1 support hotline, on-site annual visit

Options

5 additional operators

1 week of legacy database import

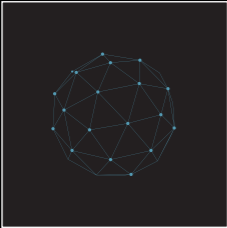
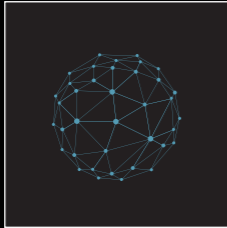
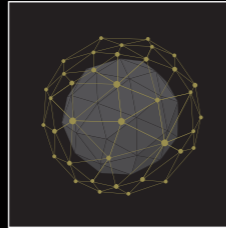
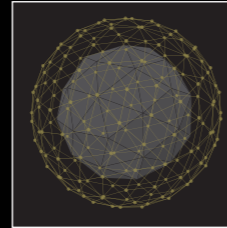
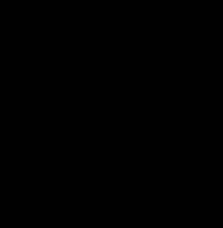
Support from Airbus GO Monitor services

Complementary Airbus Maritime Services



Geospatial Intelligence Centre Building Blocks

At a glance

					
	IMINT Starter Kit	GEOINT Starter Kit	Basic GEOINT Centre	Primary GEOINT Centre	Extended GEOINT Centre
Typical staffing	5 operators	5 operators	5 operators	5 operators	Customised
Hardware	Not included	Not included	1 server	1 server	Customised
			5 workstations	9 workstations	
Software	Image Analyst Lite	I4D Explorer	I4D Data Centre	I4D Data Centre	Customised IMINT
	IMINT KDB		I4D Explorer	I4D Explorer	GEOINT
	RECCE Engine		Image Analyst Lite	Image Analyst Lite	Mapping
				IMINT KDB	OSINT
Data		Free foundation layers: GEOINT Starter Kit, Basic GEOINT Centre, Primary GEOINT Centre, Extended GEOINT Centre			
Customer support	On-site installation	On-site installation	On-site installation	On-site installation	Customised
	2 weeks' training	1 week's training	4 weeks' training	8 weeks' training	
	1 year's warranty	1 year's warranty	1 year's warranty	1 year's warranty	
Specific options	5 additional operators	5 additional operators	5 additional operators	5 additional operators	Customised
	RECCE Engine options	Legacy DB import	GO Monitor Services	GO Monitor Services	
	Image Analyst Lite advanced training (1 week)	1 week's additional training	Legacy DB import	Maritime services Legacy DB import	



Products to add further value to your centre

<h3>Access to Airbus' optical and radar constellation</h3> <p>Airbus has the largest and amongst the most advanced earth observation satellite constellations commercially available, combining radar and optical sensors to provide customers with great clarity of the situation on the ground.</p> <p>Almost real-time imagery or regular monitoring can be received by tasking one of Airbus' optical satellites (Pléiades or SPOT) comfortably online through the One Tasking service. The up-to-date images support the planning of operations and deploying missions, the gathering of regular intelligence over sensitive sites or to make informed decisions in crisis.</p>	<h3>High quality imagery basemaps</h3> <p>As satellite imaging specialist, Airbus provides a number of basemaps:</p> <p>SPOTMaps Nationwide or regional colour imagery coverage at a 2.5 (SPOT 5) or 1.5 (SPOT 6/7) metre resolution orthorectified, which means it is perfect for visualisation, mapping and planning activities.</p> <p>One Atlas Basemap Almost always less than one year old, the fresh imagery seamlessly covers the whole globe from 0.5–1.5 metre.</p> <p>Elevation Product suite Airbus offers the most comprehensive elevation data range available on the market, informing missions with crucial intelligence on terrain heights.</p>	<h3>Strategic and operational information</h3> <p>Conflict Atlas Partnering with IHS Jane's, Conflict Atlas is a unique combination of accurate satellite imagery with daily insights and analysis, whilst the powerful GEOINT tool enables intelligence professionals to share and verify important content, and to quickly identify areas that require immediate focus in order to deliver clear, actionable results. The tool includes strategic information (country profiles, military installations, equipment profiles, etc.), operational information (terrorist events, conflict monitor, country risks, imagery reports), as well as geographic information and on-demand reports.</p>	<h3>Looking into the future</h3> <p>Airbus continuously invests into automated computing and adaptable cloud computing architecture.</p> <p>The future lies in the capability to securely process and fuse massive volumes of multi-source data and to perform predictive analysis. Airbus makes a continuous investment to ensure customers will always have access to the latest innovations, such as big data, with specific investments into cloud computing, data hosting and automated analysis functionalities.</p> <p>As your partner, these solutions are only a phone call away so please get in touch with your sales manager now to discuss the right solution for your current needs.</p>
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🐦@AirbusSpace
www.intelligence-airbusds.com

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