CYIENT

ENABLING ACCELERATED VALUE CREATION THROUGH DIGITAL TRANSFORMATION

How we leverage digital technologies to connect systems and re-imagine processes

Imagine the Internet without search engines—isn't it almost impossible? Business processes and IT systems in companies often work independently without efficient inter-connectivity. This has led to large scale cost inefficiencies, schedule delays and lower customer satisfaction—across industries.

Global sourcing, new configurations, growing production rates, and customization require-ments are all driven by the need for an air-line to differentiate. This is resulting in more complexity and data overload; however with effective digital transformation, companies can look to create better business value.

In Digital Transformation, Technology is 'just' an Enabler

Digital technologies such as the Internet of Things (IoT), big data, mobile, analytics, cloud, data visualization, and most importantly, data preparation are transforming the aerospace industry. Digital transformation is about bringing agility to data-driven decisions, re-imagining business processes, as well as developing data value streams to enhance services revenue and customer satisfaction.

At Cyient, we combine aerospace domain knowledge, data science and digital tech-nologies, to enable digital transformation for our customers with an agile and outcome-based approach. Through our unique processes, we convert data into reliable insights, which helps propagate a data-driven organization.

Accelerating Value Creation through Digital Transformation

Digital Aftermarket

Digital transformation enhances operational efficiency and transforms fleet and asset availability. Sensor data, maintenance records, operational records, field event reports, and other data are collated from MRO (Maintenance, Repair and Overhaul), airlines,

field representatives, and systems. However, integrating system-generated data with domain knowledge, and data entered by maintenance engineers is critical to generate reliable insights.

Cyient's digital aftermarket solutions enable scaled digital collaboration across existing geographically-spread teams. Our unique approach has enabled us develop reliable spare parts forecasting solutions, asset maintenance solutions, and 360º dashboard with real-time customer, program and asset information. Our engineering-led maintenance cost optimization solutions enable profit increase in "pay per hour" or FHA (Fleet Health Agreement) programs for original equipment manufacturers (OEMs) and Tier-1 suppliers. Data science creates value—only if effectively combined with domain knowledge.

Digital Supply Chain

The Boeing 787 Dreamliner has about 2.3 million parts[1] manufactured in 135 partner locations across 12 countries on 5 continents. Collaboration and real-time visibility across this vast supply chain is paramount.
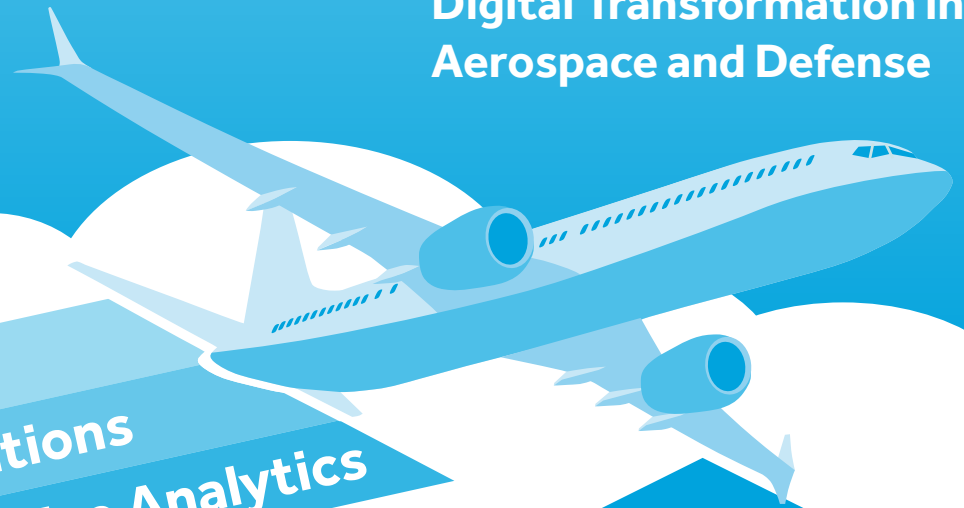
Our digital supply chain solutions combine value engineering, global supplier transition, and inspection trend analytics with digital technologies—to predict future supply chain failures and obtain part-/supplier-level information in real-time.
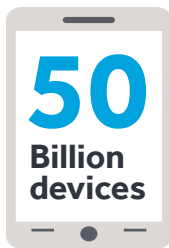
Digital Airline Experience

In January 2016, the US FAA approved an in-flight connectivity system capable of 33 Mbps broadband speed with 99.9% network availability. This new technology can truly enable digital airline experience and service innovation to hyper-connected travelers.

Cyient's avionics solutions enable in-flight wireless device and mobile application development for customized airline services.

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Digital Transformation in Aerospace and Defense

Reinvent Design
Digitalize Operations
Adopt Predictive Analytics

Connected Aircraft
- Intelligent and robust systems
- Improved operational efficiency

Passenger Experience
- Cheaper and more comfortable travel
- Seamless digital experience

Transformed MRO
- Improved reliability
- Reduced maintenance cost
- Increased business visibility

Streaming Entertainment
- Improved on-board WiFi
- Enriched in-flight entertainment
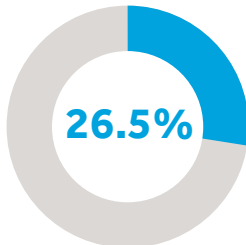- Pay-n-use apps

IoT market by 2020

50 Billion devices

Internet of Things [2]
- Impacts 6% of global economy
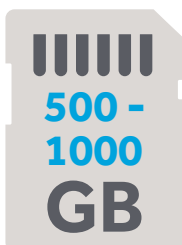- US $1.9 trillion of productivity improvement

CAGR in IIoT by 2019 [3]

26.5%

Internet of Aircraft Things
- Aircraft systems
- Passenger experience
- MRO operations

Average flight produces

500 - 1000 GB

Big Data and AI
- Data-driven decision making
- Embedded intelligence

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- Designing the connected aircraft of tomorrow
- Enabling digital operations for connected aircraft
- Building embedded intelligence in aircraft systems

[1] http://787updates.newairplane.com/787-Suppliers/World-Class-Supplier-Quality
[2] https://www.atkearney.com/documents/4634214/6398631/A.T.+Kearney_Internet+of+Things+2020+Presentation_Online.pdf/af7e6a55-cde2-4490-8066-a95664efd35a
[3] http://www.reportsnreports.com/reports/417490-global-industrial-iot-market-research-report-2015-2019.html

About Cyient

Cyient (Estd: 1991, NSE: CYIENT) provides engineering, manufacturing, geospatial, network and operations management services to global industry leaders. We leverage the power of digital technology and advanced analytics capabilities, along with our domain knowledge and technical expertise, to help our clients solve complex business problems. As a Design-Build-Maintain partner that takes solution ownership across the value chain, we empower our clients to focus on their core, innovate, and stay ahead of the curve.

Relationships lie at the heart of how we work. We partner with organizations in ways that best suit their culture and requirements. With nearly 14,000 employees in 21 countries, we combine global delivery with proximity to our clients, functioning as their extended team. Our industry focus spans aerospace and defense, medical, telecommunications, rail transportation, semiconductor, utilities, industrial, energy and natural resources.

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