THALES

Thales and Digital Transformation

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www.thalesgroup.com

OPEN

Collective intelligence for a safer world

Whenever critical decisions need to be made. Thales has a role to play. In all its markets (aerospace, space, ground transportation, defence and security) Thales solutions help customers to make the right decisions at the right time and act

World-class technology, the combined expertise of 64,000 employees and operations in 56 countries have made Thales a key player in keeping the public safe and secure. guarding vital infrastructure and protecting the national security interests of countries





Employees

64,000



Global presence

56 countries



Self-funded R&D* 2016

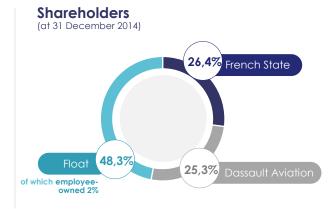
Does not include therefore R&D

A balanced revenue structure

Defence 50%



Revenues in 2016







accordingly.

around the globe.

Markets













EACH OF THE MARKETS
THAT THALES SERVES
PLAYS A VITAL ROLE
IN SOCIETY.

Thales operates as a **single organisation**, drawing on the talent and technologies of the entire Group to act as prime contractor, systems integrator, equipment supplier and value-added service provider on both civil and military programmes.

Global leadership



Payloads for telecom satellites



Air Traffic Management



Sonars



Security for interbank transactions

N°2 worldwide

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Rail signalling systems



In-flight entertainment and connectivity

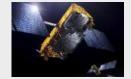


Military tactical radiocommunications

N°3 worldwide



Commercial avionics



Civil satellites



Military surface radars





Long-term vision

- > Self-funded R&D: 731 million euros
- > Focus on key technical domains
 - Complex systems
 - Hardware (sensor technologies)
 - Software
 - Algorithms and decision support

Open research policy

- International network of research centres
- Cooperation with academic and government research institutes worldwide

> Focused product policy

- Shorter development cycles
- Risk reduction





ALBERT FERT scientific director of the CNRS/Thales joint physics unit and winner of the 2007 Nobel Prize in Physics.



Some **25,000** Thales employees, over **70% of them engineers**, are involved in the Group's technical operations from research to engineering.

Inventing tomorrow's products today



Global reach

We are truly global in our outlook and presence



Global revenues in 2016 €15bn

Employees 64,000 globally around 6,500 in the UK

uk revenues in 2016 £1.2bn

Global Presence
56 countries
12 major sites in the UK

A balanced revenue structure

Defence Civil 50%

Self-funded R&D €731m globally £50m uK



Geographical Footprint

Belfast: 496 Missile Systems Platform Survivability **Precision Effects** Cheadle Heath: 598 **Underwater Systems** Transport and Energy Solutions Information Systems Birmingham: 35 Transport Solutions Templecombe: 869 **Underwater Systems** National Security Systems Air Operations Bristol: 408 Naval Systems, Land Defence CIC Consulting

Glasgow: 706

Optronics
Protected Vehicles
Transport Solutions

York: 45

Transport Solutions

Doncaster: 168

High-Security Data Centre Procurement Shared Service

Cambridge: 171

Data Encryption Solutions

London: 1,016

Transport Solutions

Employees in the UK

around 6,500 in the UK

Workforce under management at 31 Dec 2016

Crawley: 2,124

Military Sensors & Systems,
Military Simulation & Training Services
Radio Communications
Data Encryption
Information Systems
Shared Services
Transport Solutions
Commercial and Military Avionics
Air Traffic Management

Reading: 650

Corporate HQ
Missile Electronics
Radio Systems

CIC Consulting
Research & Technology

National Security Systems



Ambition 10: common framework









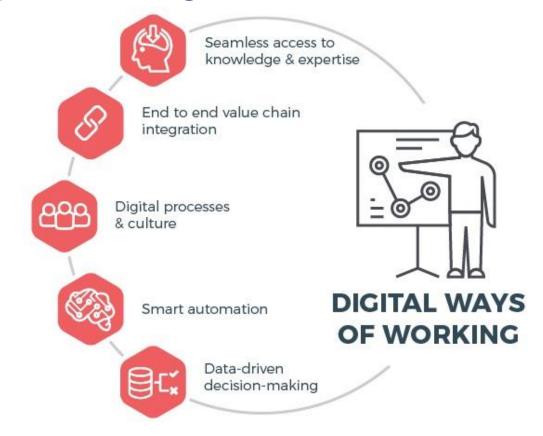
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Tha

■ Video (Olivier Flous, VP Digital Transformation and Digital Factory)

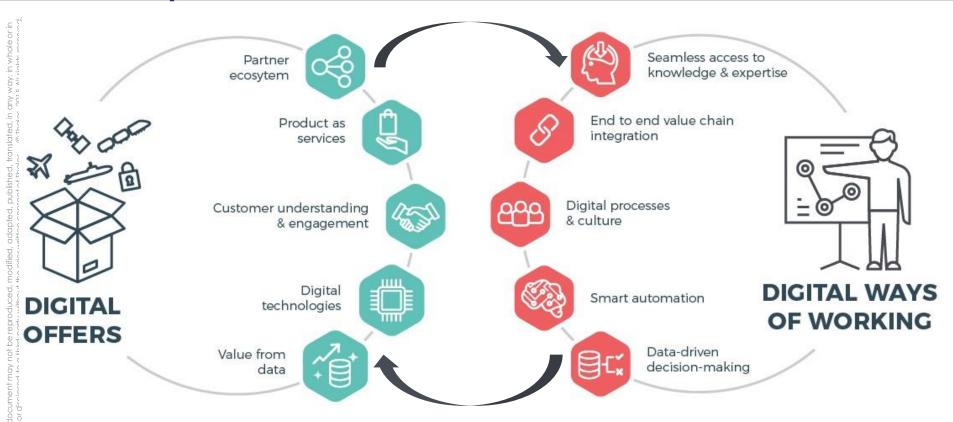


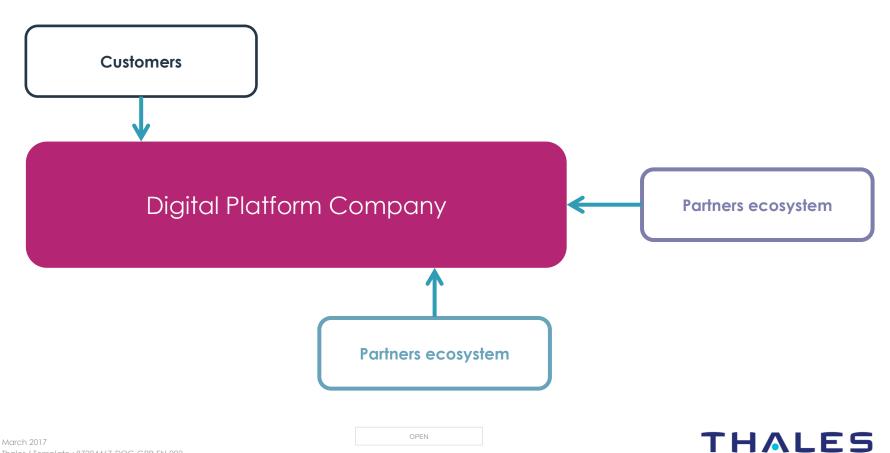




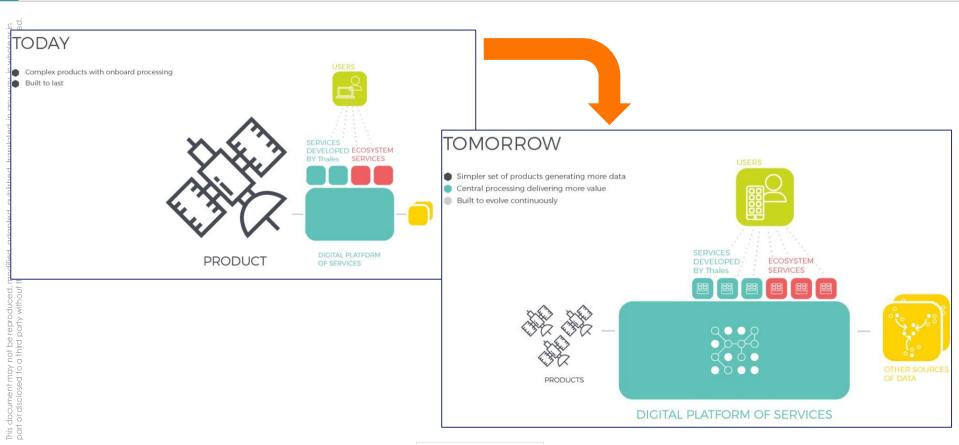


Interdependent Transformations





Value Shift











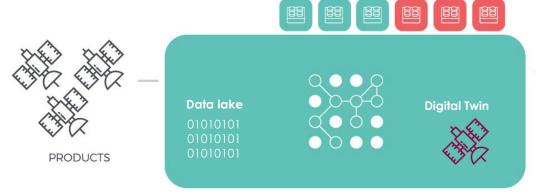


Value from data

Product as a service

Partners Customer ecosystem understanding

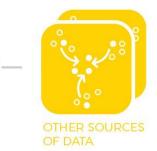
and engagement



SERVICES DEVELOPED

BY Thales

ECOSYSTEM SERVICES

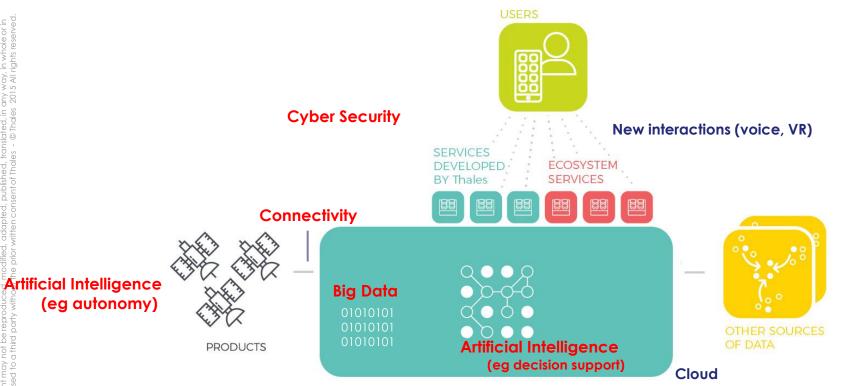


DIGITAL PLATFORM OF SERVICES

OPEN

Key Technological Areas



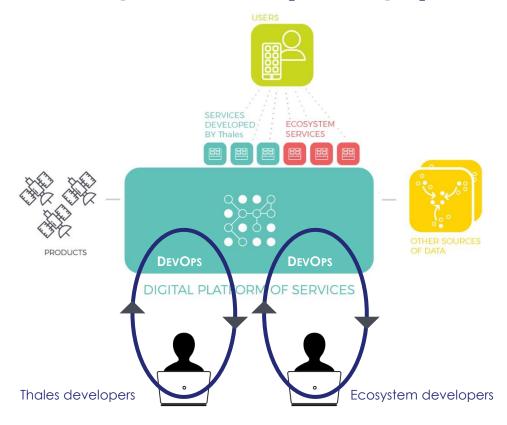


DIGITAL PLATFORM OF SERVICES

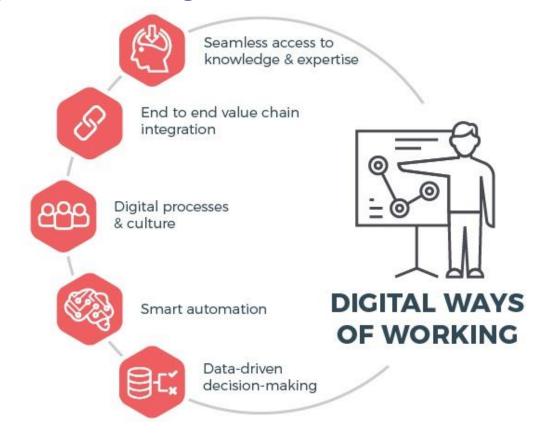


OPEN

Continuous Delivery of Value (DevOps)

















EMPLOYEES



Seamless access to knowledge & expertise

Datadriven decisionmaking

End to end value chain integration

Smart automation







SERVICES









Thales Information System

Digital Culture Manifesto

ole or in



Digital Culture Manifesto

Collaboration Test & Learn **Failure Empowerment** Data Users





OPEN



AWARE

HUNGRY

Thales Digital Factory





that will bring together world-class expertise in key skill areas (Artificial Intelligence, UX designers, cybersecurity, connectivity, etc.)



A DIGITAL PLATFORM

hosting services for our employees and customers.



A START-UP **INCUBATOR**

for both internal and external start-ups to accelerate new businesses and be closer to digital ecosystems.



A DIGITAL ACADEMY

able to disseminate digital culture and technologies, through training and coaching opportunities, digital events, hackathons, etc.



Thales / Template: 87204467-DOC-GRP-EN-002

Launched on 1st October comprising:

- Digital Factory
- ➤ Thales e-Security secure transactions
- Vormetric Data security platform (2016)
- Guavas real-time Big Data analytics platform (2017)
- Patrice Caine outlined the strategic vision underlying this decision, speaking of

the dual need to underscore the strategic importance of the Group's data analytics and data activities, and to drive the digital transformation of all of Thales's businesses by leveraging the key technologies of Connectivity, Big Data, Artificial Intelligence and Cybersecurity.

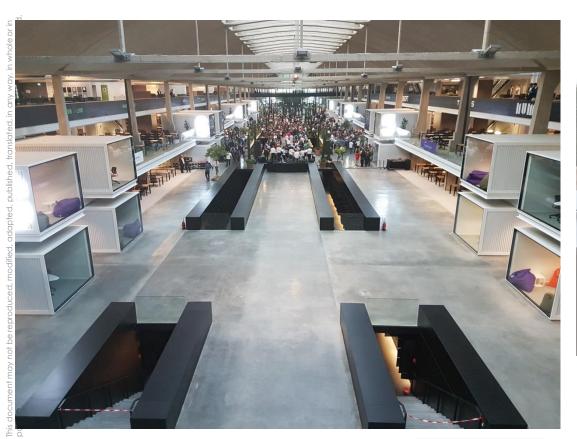


STATION F

- World's largest start-up campus.
- Accelerate the future of cybersecurity.
- Our aim
 - > Drive the emergence of cybersecurity champions
- Thales role
 - Provide advice, technical expertise and access to our technology platforms in order to co-develop the most innovative solutions with applications in the Group's markets.



Thales Cybersecurity Programme @ Station F







26 March 2017 Thales / Template: 87204467-DOC-GRP-EN-002

- The move to digital will transform the Group delivering
 - Product as a service
 - Culture change
- The Digital Factory will only work if
 - > The Platform is effective for the ecosystem
 - There is genuine Corporate support to engage
- The Digital Business Unit focuses corporate energy on something that can be measured
- Services Transformation can happen without Digital Transformation but Digital Transformation cannot happen without the new services business models that Services Transformation will bring

