



Airbus Information Management

Automation, our way to the future

11th October, 2017

AIRBUS

Airbus



55,000
Employees

€45,8billion
Annual revenue*

10yrs
Backlog

400
Operators

Passion

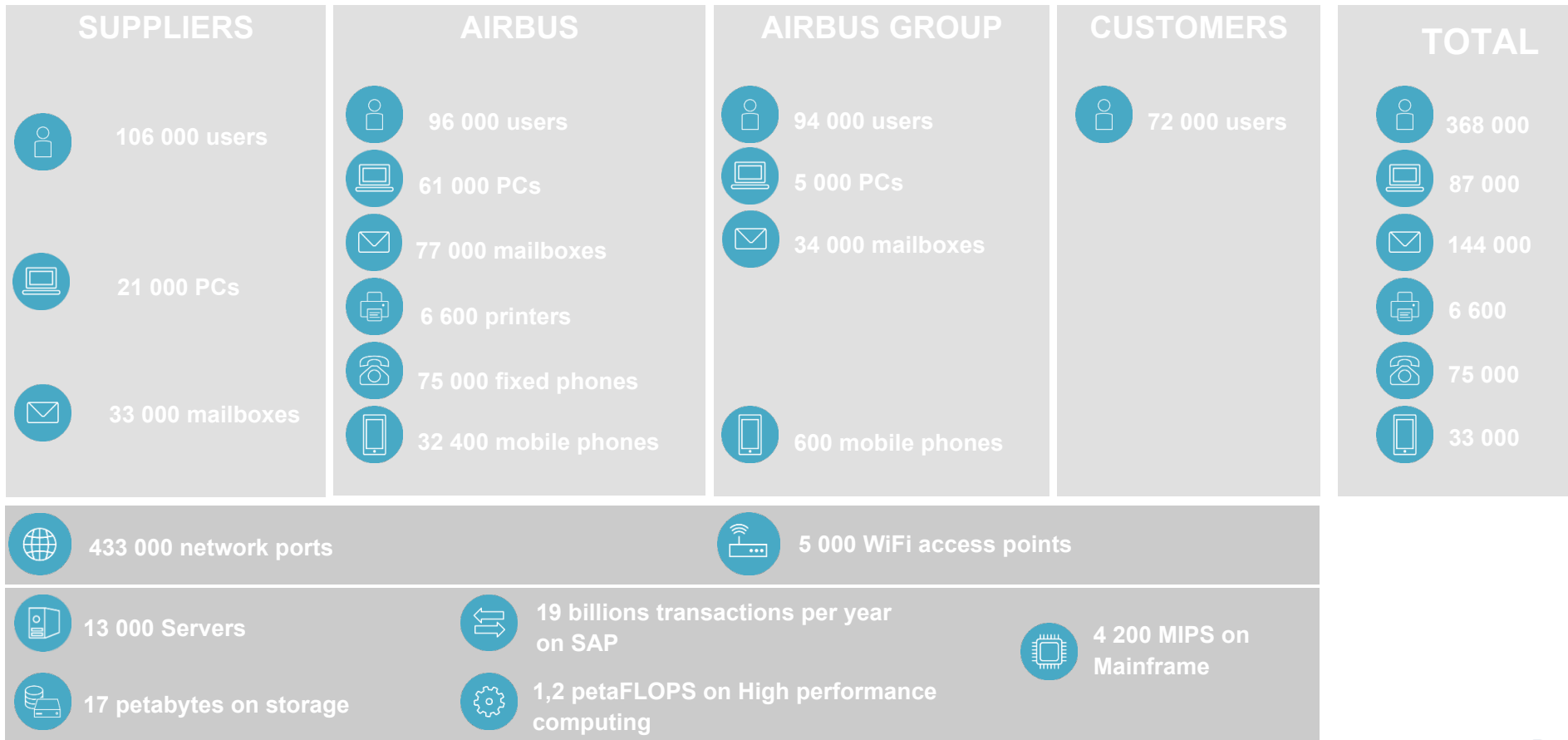
Our global workforce is united by a passion for aviation and restless desire to create better ways to fly

Information & Communication Technology



1300 Information System professionals located around the world wherever Airbus operates.

Airbus IT Infrastructure



Digital Accelerator

Key enabler for the digitalisation

Set-up and support the digital platforms for :

- Public Cloud
- Big Data
- Internet of Things
- API Mgt
- DevOps
- Monitoring & Security
- IT Service Mgt

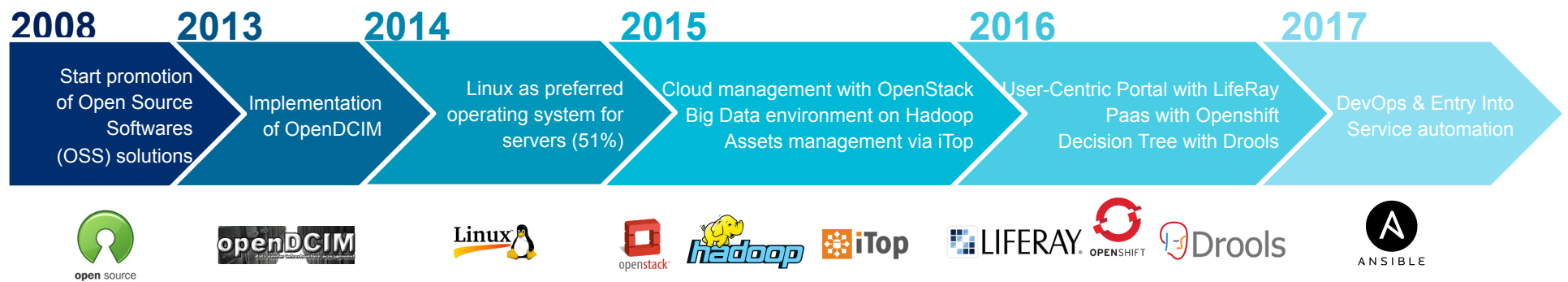
Using the latest technology, build and operate enterprise digital platforms that operate at huge scale and speed

Making digital platforms & services available to the business via self service

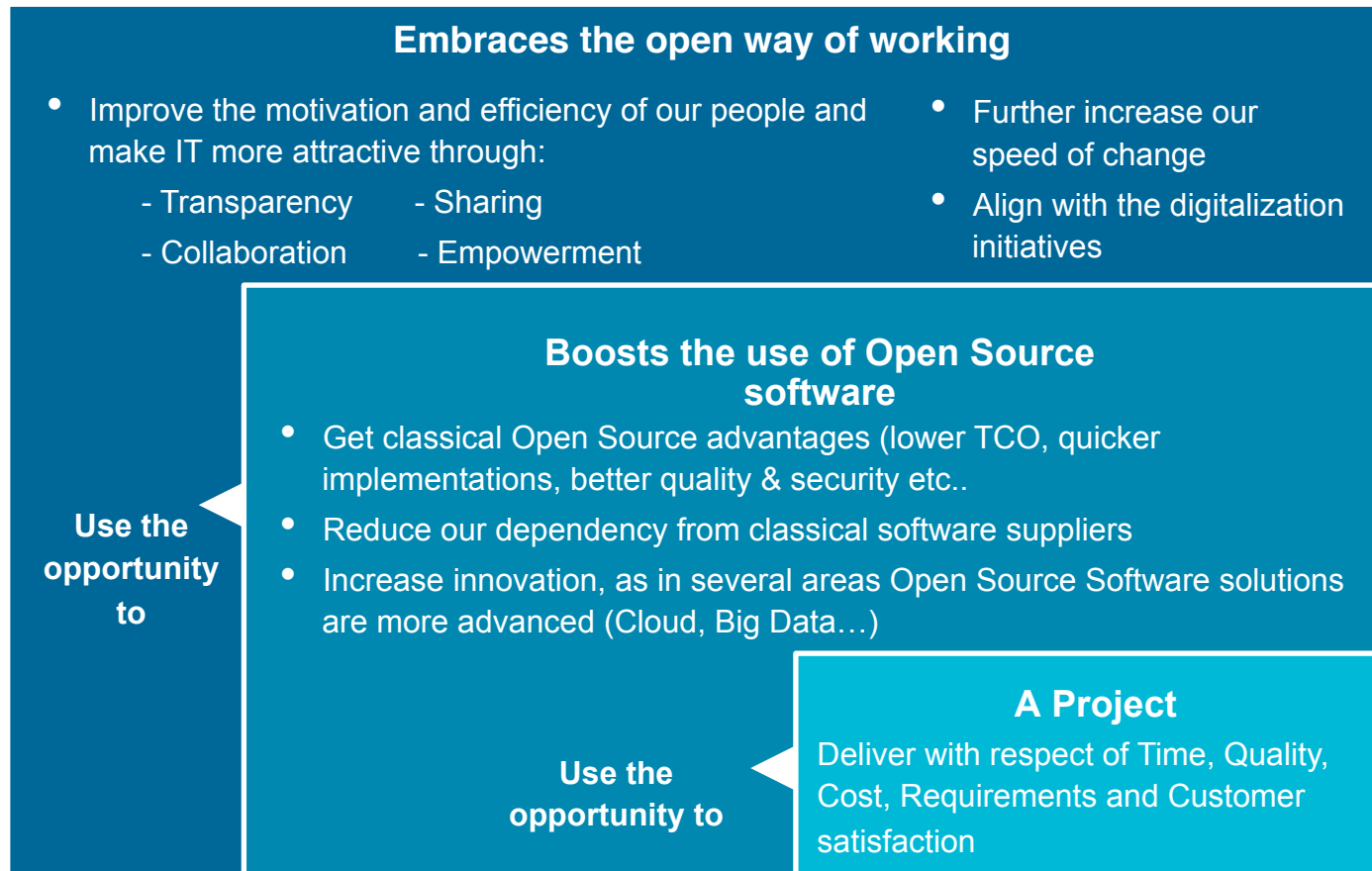
Enables Airbus to bring value to market faster, reducing cost whilst retaining quality

Enabled through **Automation, DevOps, Big Data, IoT, API, Self Service and Cloud technologies**

Open source at Airbus



Open source @Airbus



Why we need to Automate

Drivers

- Large & Multi-Technology environments
- Business critical applications
- Frequent applications updates

Scope

- Deployment of application with low to medium number of components and dependencies

Enables

- Application deployment
- Middleware deployment
- Patch deployment
- Configuration check
- Configuration modification
- Maintenance

Target

- Public Cloud
(Amazon Web Services)
- Private Cloud
(OpenStack)
- LAN - DMZ applications

KEY FIGURES

27 000 Servers

430 OS Releases

2 500 Databases

2 500 Applications

Why we need to Automate

Scope

- Deployment of application with low to medium number of components and dependencies

Technologies

- Ansible Tower & Automic
- DevOps chain including



Automic™

GitHub

JIRA

sonarqube



JFrog Artifactory



Jenkins

Features

- Single Sign On access on Ansible Tower platform
- External access for airbus suppliers
- Collaborative platform on Automation
- Pricing model & catalogue available
- Training capabilities

KEY FIGURES

Built for 20 000 nodes

6 Tower Clusters

Integrated with more than 10 applications

From the PoC to the Project

PoC

Objective is to evaluate the solution

Test the deployment of 5 applications (Win & Linux) with 6 automation solutions

Result

- Despite missing functionalities of Tower vs Competitors, Tower was the first one based on the criteria matrix
- Deployed in Production during the PoC for two critical applications for
 - Release deployment
 - Job scheduler

KEY FIGURES

PoC on 100 Hosts

Target 10 000 Hosts

Deployment <2 years



Challenges

Risks




- Developments are required
- Governance to be adapted
- Multiple technologies to cover
- Partial coverage
- New way of working

Opportunities



- Alignment with market best practices
- Federate existing
- Automation initiatives
- Compliant with customer needs
- Adapt Operational processes
- Mass Reuse

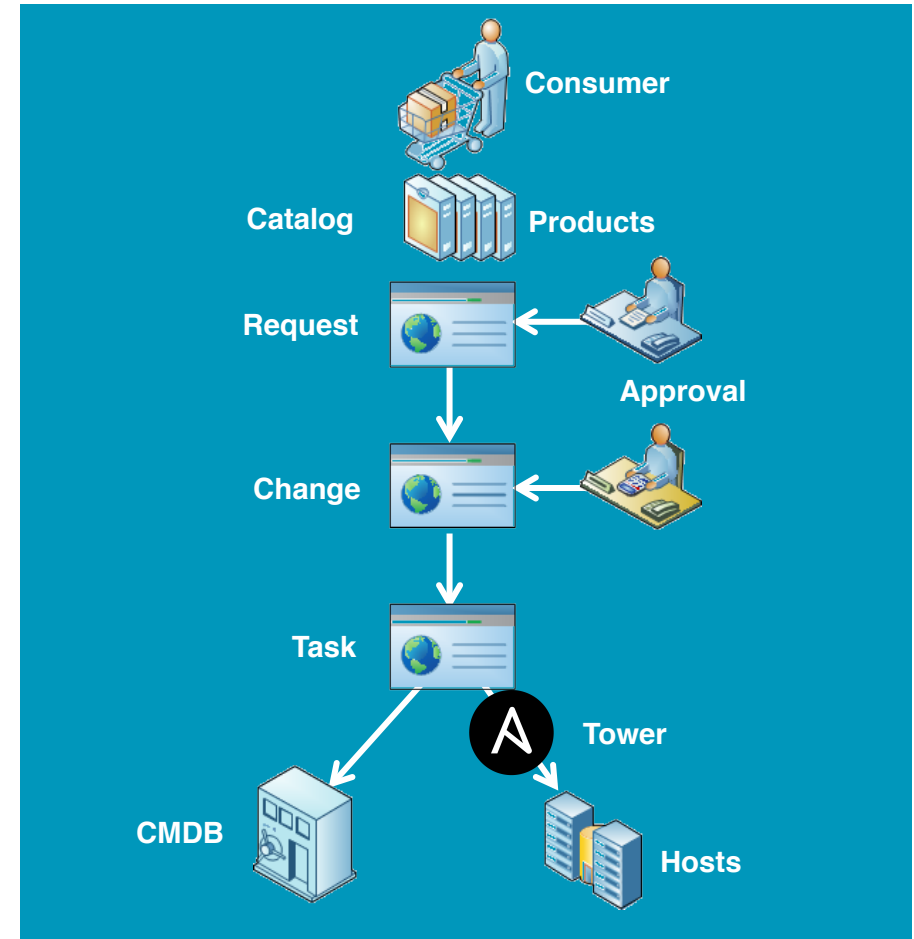
Earnings



- Focus on support and expertise
- Reduce lead time
- Cost savings
- Reinvest remaining budget in added value activities
- Reduced resource
- Enforce consistency

Next, Automation from End to End

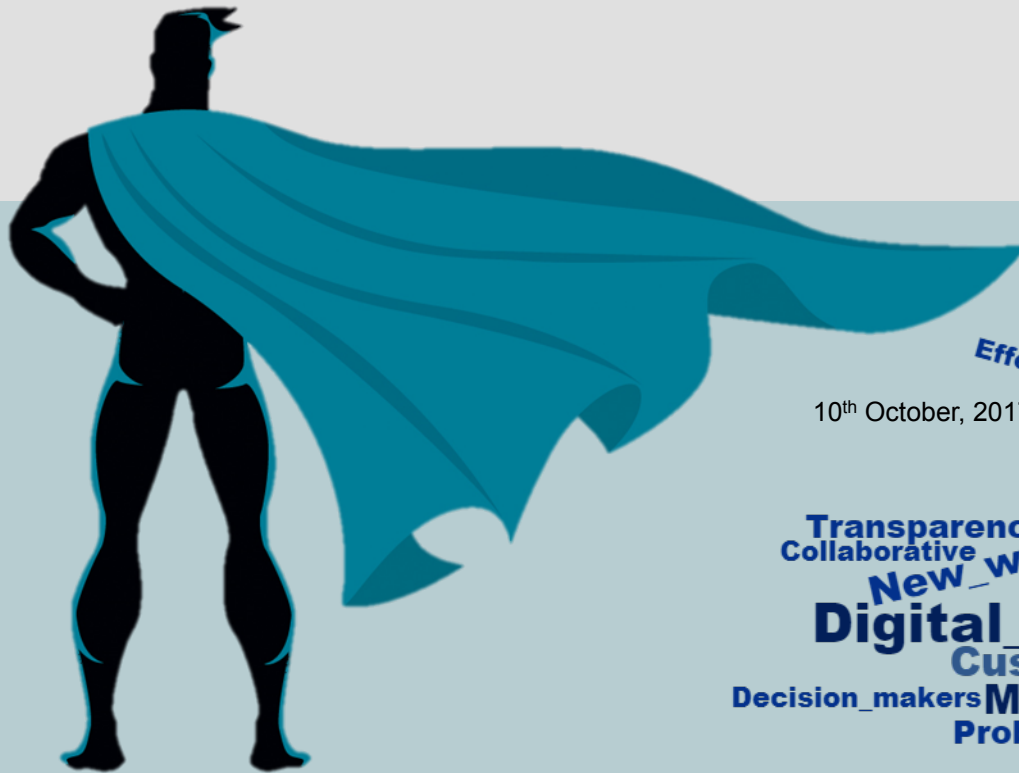
- Full automation from the request to the delivery
- Be user and self service centric
- Propose a single catalogue and point to aggregate all the products
- Fully integrated with ITSM tool to avoid data duplication and interfaces
- In line with ITIL best practices



Open Source Solutions Support Our Ambition To...



We need you!



10th October, 2017

Effective_communicators
Adaptable
Autonomous
Speed
Mindset
New_ways_of_working
Transparency
Collaborative
Customer_focus
Decision_makers
Motivation
Problem_solvers
Creativity
Constant_learners

Digital Accelerator

- Cloud Architect
- Data Governance
- Software Developer
- Technology Platform Owner
- Technology Engineer
- Scrum Master
- Test automation
- Tribe Manager
- Guild Manager
- UX UI Specialist
- DevOps Engineer

Thank you

AIRBUS