

HELICOPTERS



- ① Introduction
- ② Digital Industry
- Where do we stand @AH?
- 4 IoT Architecture
- (5) Roadmap 2019-2021



IoT @Airbus Helicopters

1.0 - Introduction

Airbus Helicopters at a glance



Supporting Customers operating challenging Civil and Military missions









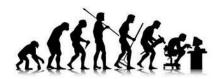








The digital transformation: our path in the coming years



Guillaume Faury mentioned during a Speech "homodigitalus".







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IoT @Airbus Helicopters

2.0 – Digital Industry - MES

Manufacturing Execution System

A transversal solution dedicated to Shop-Floor aiming to:

- Optimize Production Costs
- Reduce Lead-Time
- Increase quality level
- Increase tracking capabilities



For **All Helicopters** Final
Assembly Line
and Airframe,
Mechanical,&
Blades Centers



Jacob's from Gartner highlight that most of the companies having setup a MES notice since the first quarter huge reduction in wasting rates & reworks

- Plan & check condition to start the execution
- Manage Production execution
- Visual Management on progress & performances
- Quality improvement





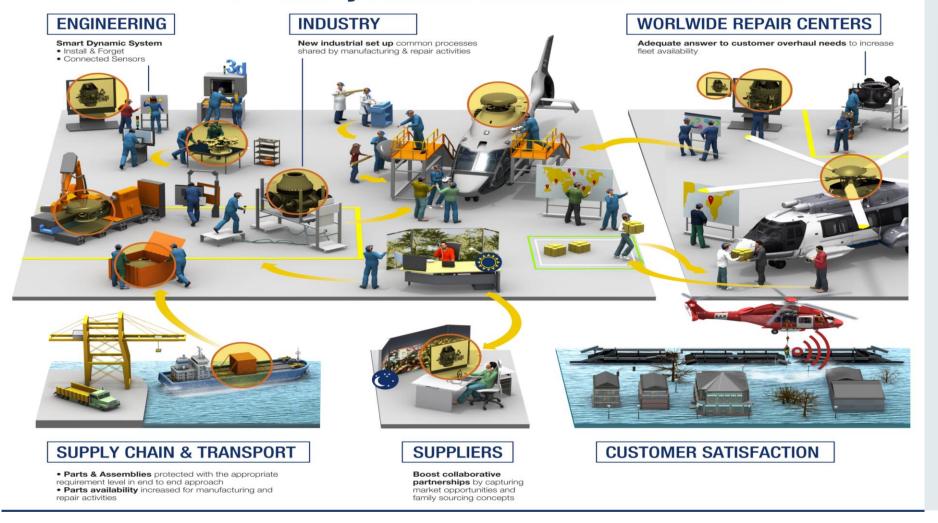


2.1 – Digital Industry – **IIoT**





MECA 4.0 Safety First for Mechanical Assemblies



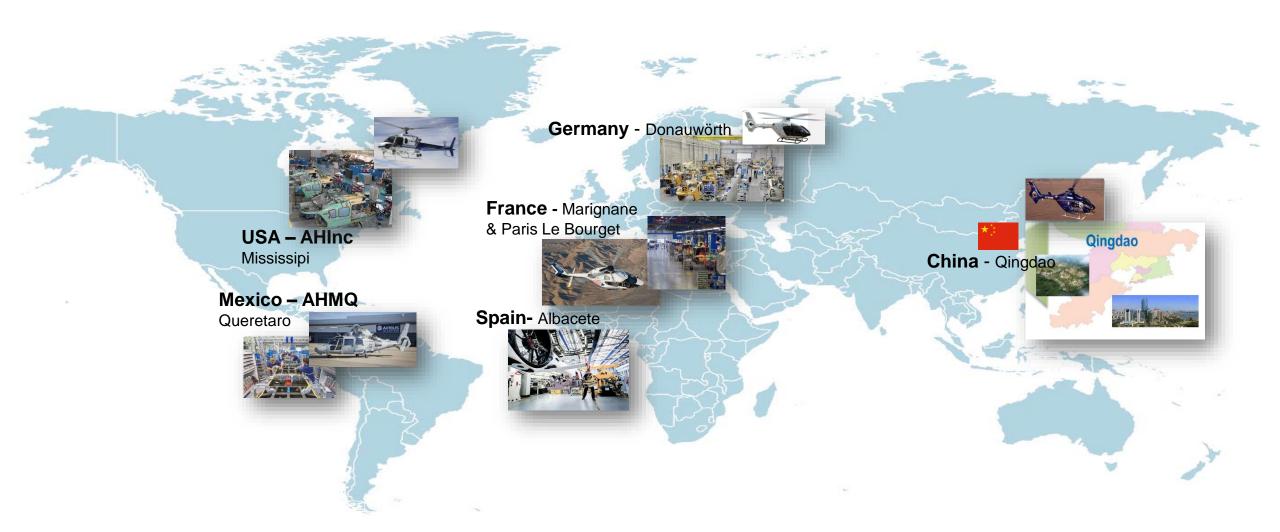








2.2 – Digital Industry - Deployment World Wide @Airbus Helicopters



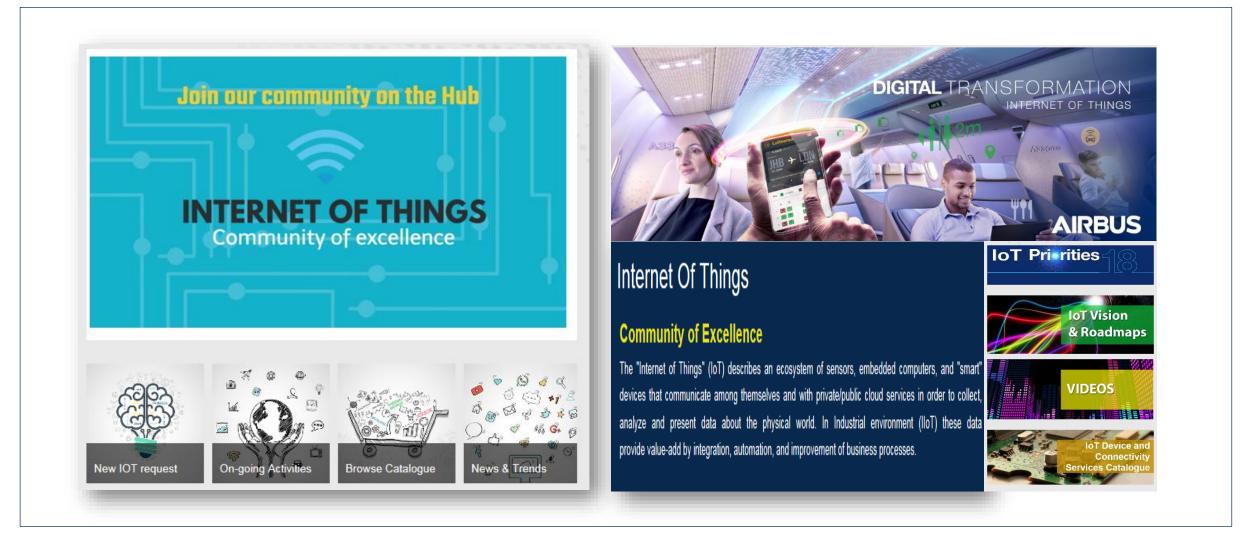


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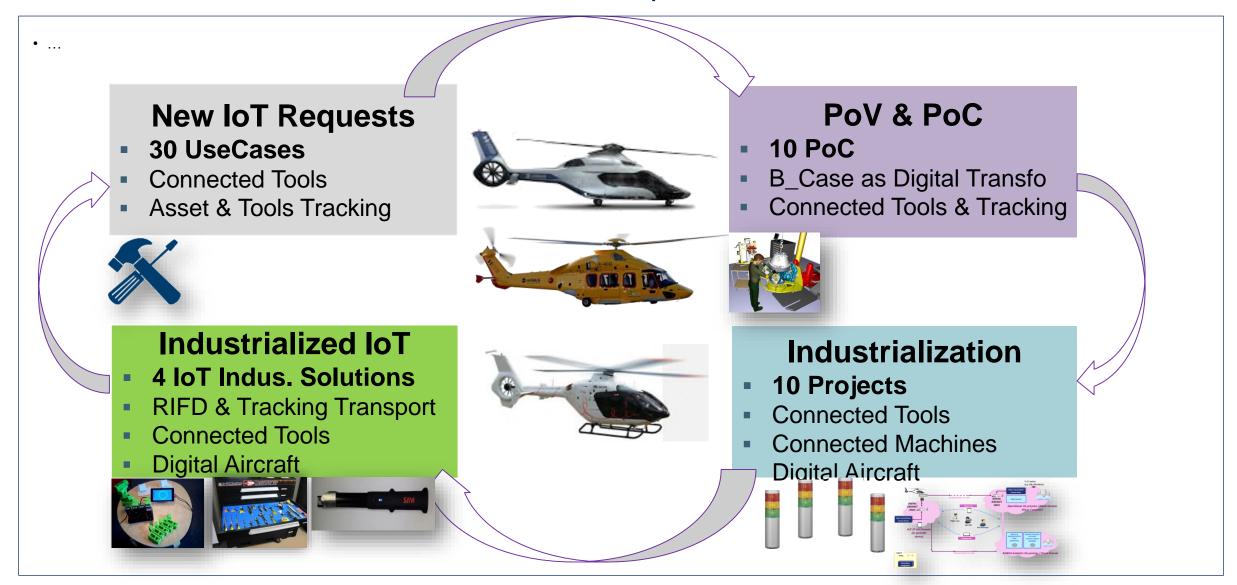
IoT @Airbus Helicopters

3.0 – IoT Community of Excellence @Airbus Live since 2017





3.1 – Where do we stand @Airbus Helicopters?





3.2 – How do we scale-up IoT @Airbus Helicopters?

Technology

- POCs enabling to validate technology
- Scattered Projects starting to capture value
- Development aimed to deliver full value to Airbus Helicopters

People

- Identify and Attract People with IoT Competences
- Embrace and cultivate Agile Ways of Working and Communication: SQUAD
- Prove and deliver the value of IoT by embracing open standards, open collaboration and open communication
- Capability in run mode delivering continuous benefits in terms of new revenue streams, cost reductions

Partner

- Build appropriate Partnerships to enable POCs
- PTC Customer Success Plan has been a key success factor for the Industrialization of the IoT Projects



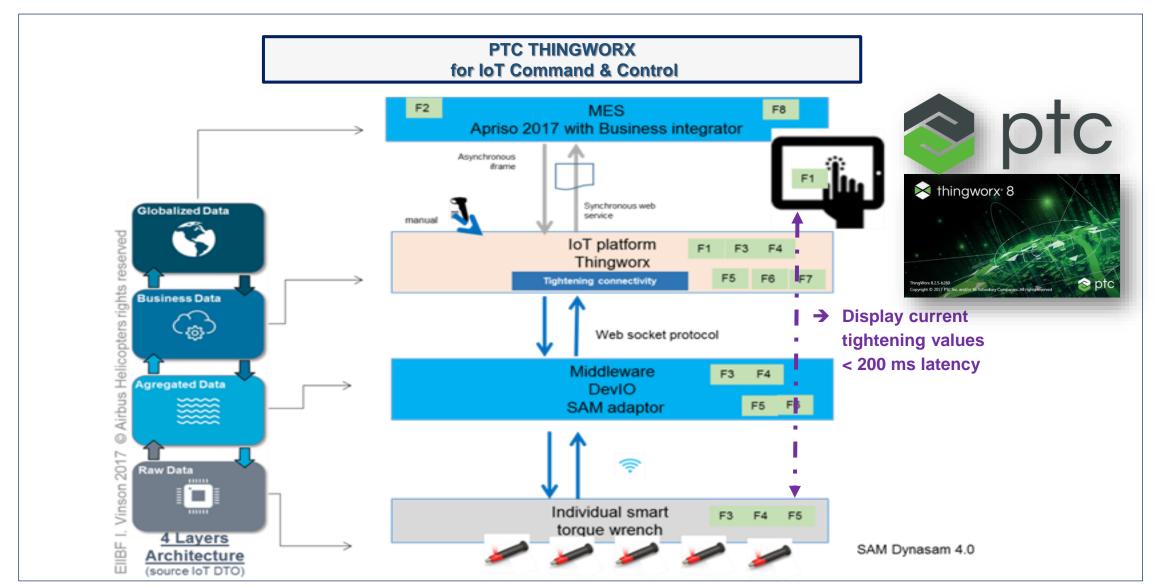


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4.0 IoT Architecture Platform for Command & Control





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5 IoT Roadmap 2019-2021



IoT @Airbus Helicopters

5.0 IoT Main Milestones 2018-2019

Main decisions, Project Milestones, General Information coordinated with DTO



Airbus live IoT event Toulouse, TOU

MDT measurement meeting (Airbus Catalogue)

QG4(M13) 1st Indus E-Torque



Sept. 4th

Steerco IoT

DTO / IM

eTorque Full Industry Deployment

GoLive MES-Apriso DON H135/H145 & A350/A380 Doors



Q4 **2019**

2018

Jan.16th



IoT community Workshop, MAR

May

Apr. 9th

MECA 4.0 Steerco 22 families of Smart means to connect

QG1(M3) MECA 4.0 ANDON Light Steerco IoT DTO / IM

1st AWS / PTC ANDON & eTorque Prototype checkpoint

Digital Aircraft For Customers Q2-2018 Aug.

QG1
MECA4.0
Dynamic System
Shopfloor
incl. 10
metrological
tools to connect

Sept.

GoLive MECA4.0 ANDON Light



GoLive

Q1-2019

MES-Apriso H135 China



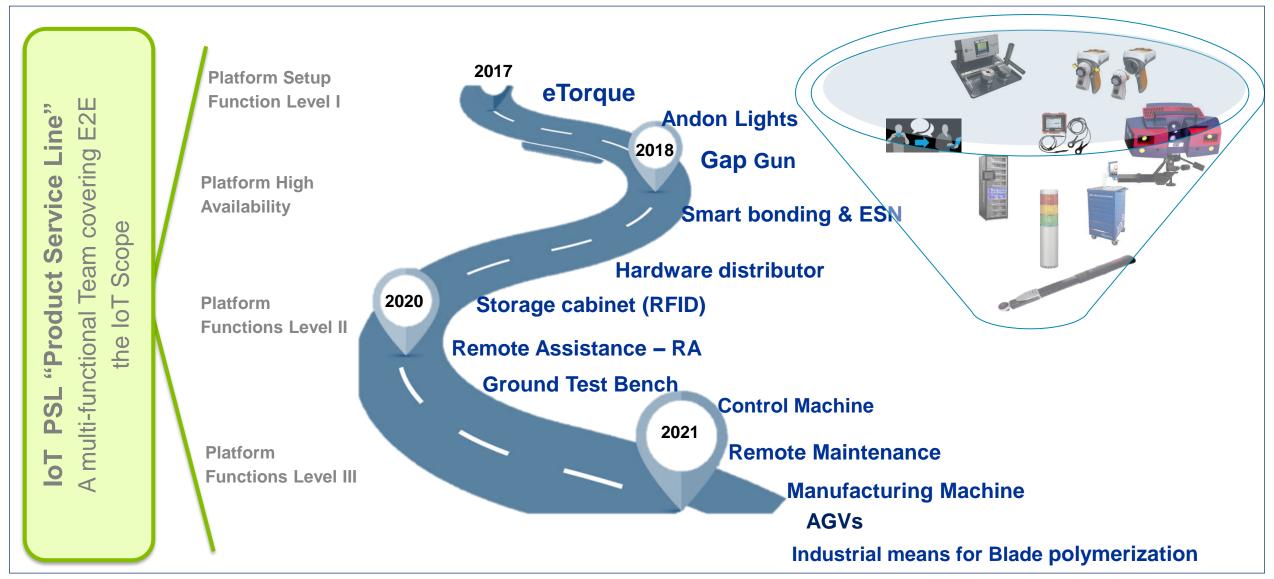
IoT community Workshop, DON Digital
Aircraft for
Customers
Q218-Q419

Q4-2019





5.1 - IoT "Command & Control" Roadmap 2019-2021





Thank you