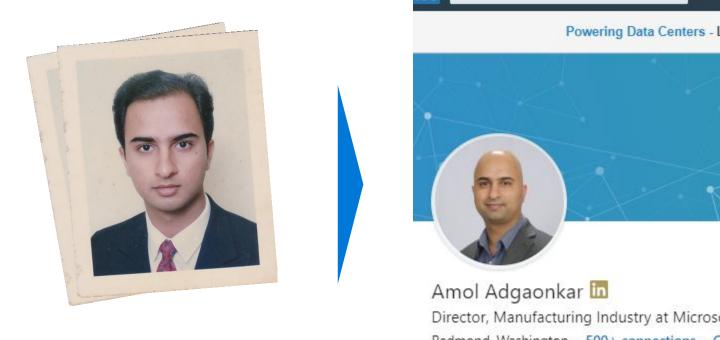


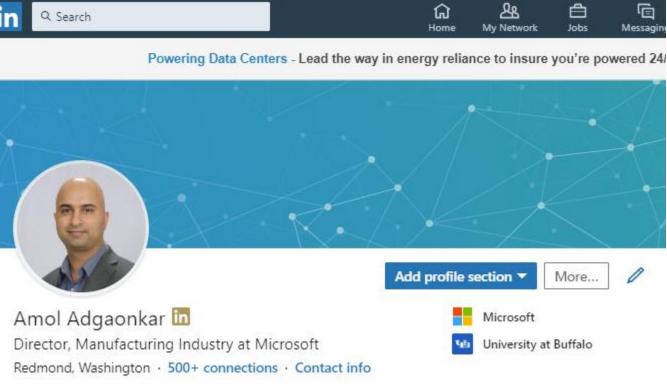
Transforming aerospace products, operations and business models through digital innovation

Amol Adgaonkar Aerospace Industry Microsoft



## Digitization accelerates collaboration





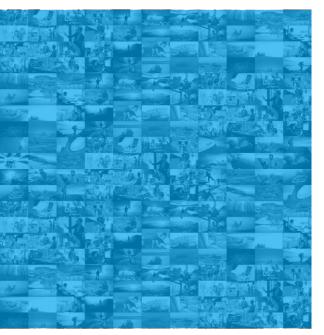
Data Ownership Data Sharing Security Trusted Platform

## Microsoft mission

Empower every person and every organization on the planet to achieve more









2 Mil 100+ Millions 72+ 54+ Azure regions of servers datacenters kilometers Tb per second intra-datacenter fiber . backbone

## While delivering on Microsoft's commitment to...



**SECURITY** — We'll help you keep your data secure



**PRIVACY and CONTROL** — Your data is private and under your control



**TRANSPARENCY** — You know what we are doing with your data



**COMPLIANCE** — We manage your data in accordance with the law



**RELIABILITY** — We provide enterprise grade uptime for cloud services



#### Building a trusted, responsible, inclusive cloud

AccountGuard | Cloud for Global Good | The Future Computed | Microsoft AI Principles | AI for Earth | Cybersecurity Tech Accord

## Workforce transformation – convergence of IT & OT

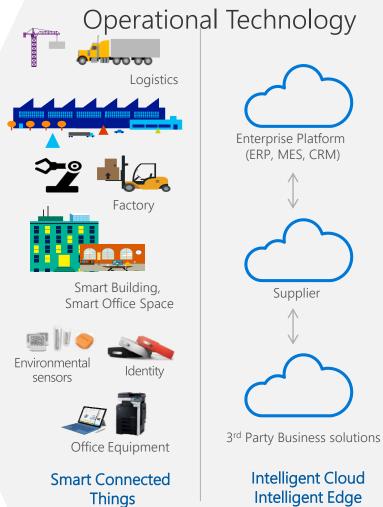








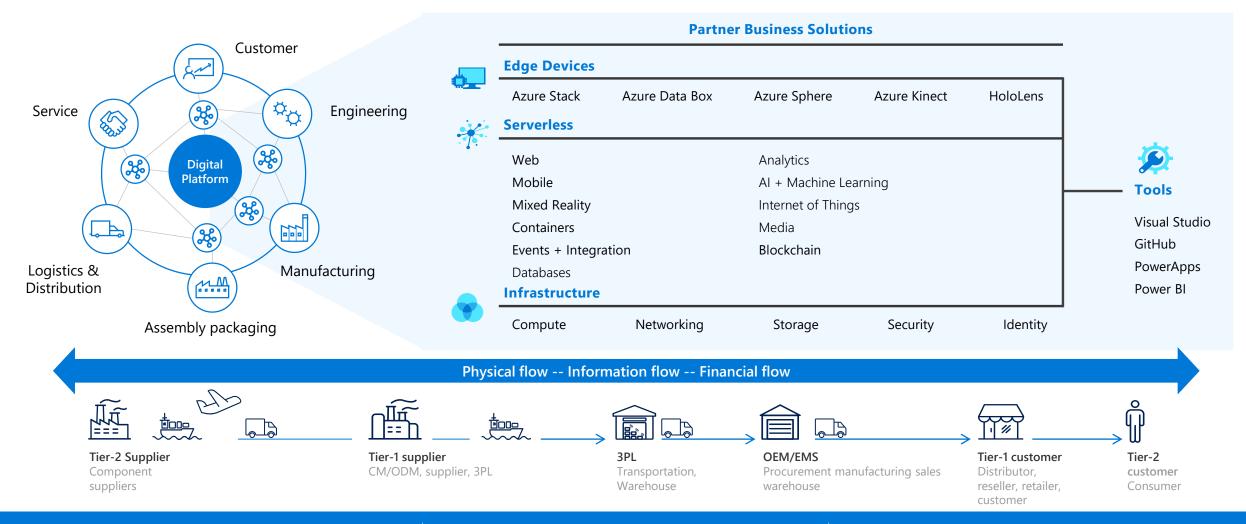




(IoT Enabled Services)

Convergence of IT & OT scenarios

## Intelligent supply chain builds on a digital platform



#### Connected

Leverage the cloud to connect, automate, visualize E2E view of your business



#### **Predictive**

Move from reactive to predictive with big data, machine learning, and IoT



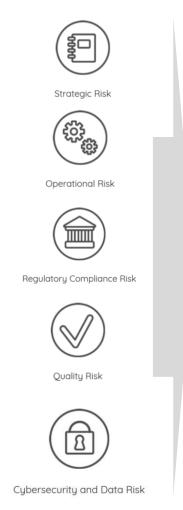
#### Cognitive

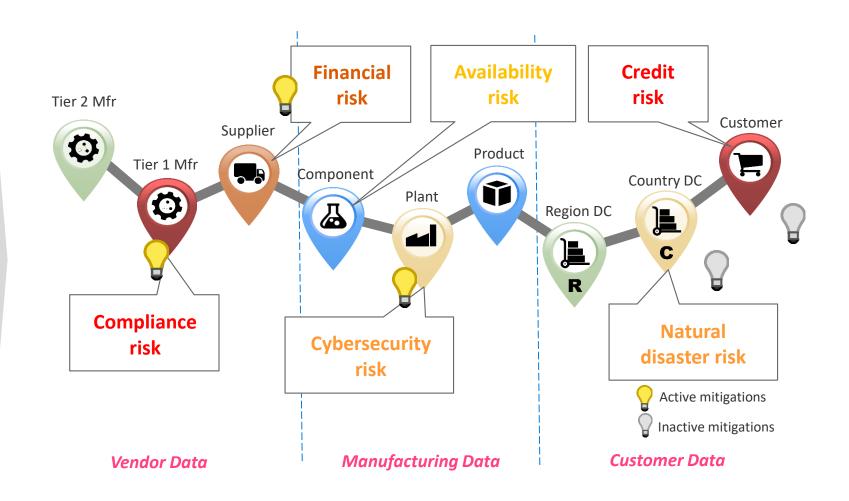
Amplify with algorithmic decision making and automated execution



## Al augments Supply chain risk management









Identify, track, and fix any risk exposure issues, anywhere they exist in the upto-date supply chain





## Big Compute virtualizes design supply chain







## Al and Blockchain secure 3D printing

steps guided by the PLM systems



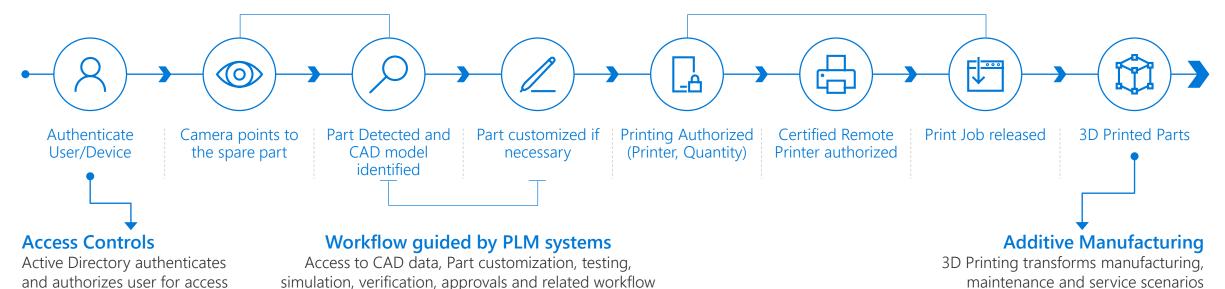
#### **Automated Part detection**

Al based Cognitive Services recognize parts via camera images and identify the right part number



#### **Controlled & Certified 3D Printing**

Blockchain technology enables controlling which files can be printed on which printers and authorize specified users only to print a certain set of copies



Partner | MOOG



Customer:

GE Aviation's Digital Group

Industry:

Manufacturing

Size:

10,000+ employees

Country:

**United States** 

#### Products and services:

Microsoft Azure Azure Blockchain Azure Blockchain Service Azure Logic Apps Microsoft Power Bl

Read full story here





"With Azure Blockchain technologies, we unlock value for our customers by providing verified data in real time. Aviation always operates with the utmost safety, but now we're also improving efficiency and reducing costs."

—David Havera, Blockchain Leader, GE Aviation's Digital Group

#### Situation:

GE Aviation's Digital Group worked closely with one maintenance and repair customer who wanted a better way to track parts and repair history than manually handling paper documents.

#### Solution:

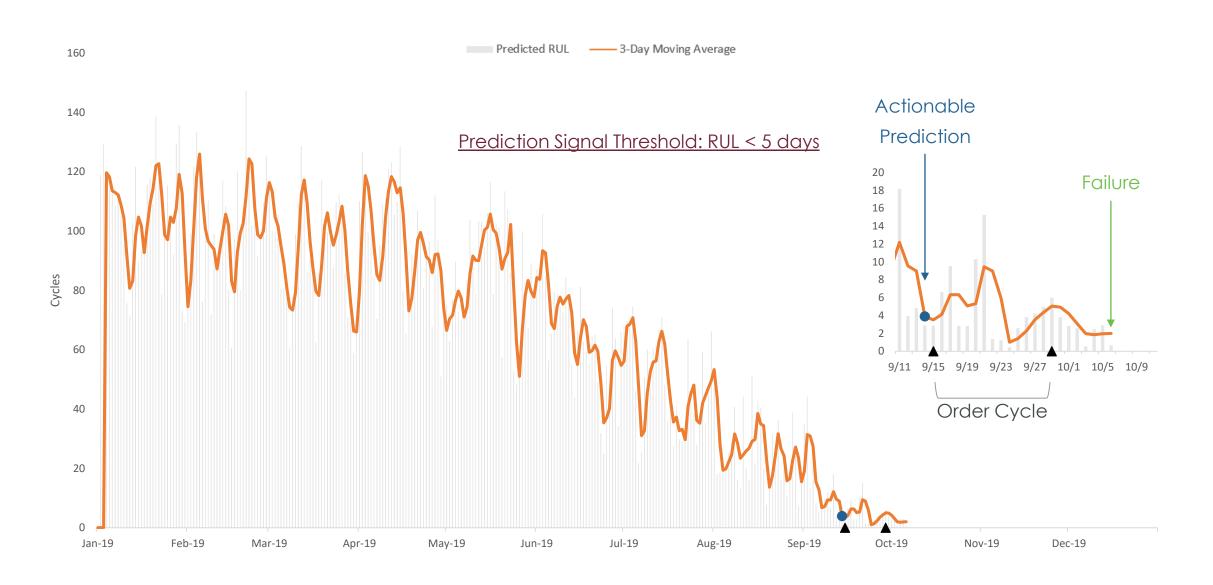
GE Aviation's Digital Group created a data solution to use with its customers that centralizes data in Microsoft Azure and shares and verifies it using Azure Blockchain technologies. The solution cleans, ingests, and analyzes data using Azure Logic Apps and Microsoft Power BI.

#### Impact:

Instead of spending weeks or years searching for scattered paper documentation, people scan a part or engine and get its full history in real time. GE Aviation's Digital Group collaborates closely with its customers, and both parties gain efficiency, cost savings, and trust in the data.

### PREDICTIVE INSIGHTS IMPROVE STOCKING PLANS







Customer:

Airbus Defence and Space

Industry:

Defense and Intelligence

Size:

10,000+ employees

Country:

The Netherlands

Products and services:

Microsoft HoloLens 2 Microsoft Azure Azure Remote Rendering Azure Spatial Anchors

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Read full story **here** 





"Airbus has a history of constant innovation, and with Azure mixed reality and HoloLens 2, we can offer our customers better products and services and bring exciting new ideas to market faster."

—Jean-Brice Dumont, Executive Vice President of Engineering, Airbus Defence and Space

#### Situation:

Airbus built 10,000 aircraft in its first 40 years and aims to build 20,000 more in the next 20 years. To do this, the company needs to deploy cutting-edge tools and technologies to accelerate production and find new ways of working.

#### Solution:

Airbus is using Microsoft Azure mixed reality and services like Azure Spatial Anchors and Azure Remote Rendering with HoloLens 2 to expedite aircraft design and manufacture, facilitate collaboration, and change how complex ideas are communicated.

#### Impact:

Airbus expects to reduce design validation time by 80 percent and accelerate complex tasks during assembly by 30 percent, while increasing quality, safety, and security.



# Thank you

Amol Adgaonkar, Manufacturing Industry, Microsoft Corporation

in LinkedIn: Amol Adgaonkar