

# The Jabil Value Proposition

## JABIL

#### accelerated innovation +

Disruptive experience design, swift prototyping and speedy NPI

#### engineering excellence +

World-class engineers and capabilities

#### manufacturing agility +

Advanced Digital Manufacturing enabled by Industry 4.0, Digital Product Lifecycle Management, and additive manufacturing

#### supply chain orchestration +

Mitigating risk, saving time & reducing costs across the supply chain

#### empowered experts +

Jabil's teams accelerate process innovation, engineering excellence, advanced digital manufacturing and supply chain orchestration

Jabil brings domain-level expertise and industry knowledge in each unique industry in order to enable our customers to win

Our work cells provide a customer-centric approach to managing the unique needs of each customer



# BUILT ON A SOLID FOUNDATION

JABIL

1966

FOUNDED IN MICHIGAN, USA

3<sub>RD</sub>

THIRD LARGEST ELECTRONIC
MANUFACTURING SERVICES
(EMS) PROVIDER

330+

CUSTOMERS ACROSS
DIVERSE MARKETS

45

MILLION SQUARE FEET OF MANUFACTURING SPACE

100+

SITES IN 26 COUNTRIES



TENURED
MANAGEMENT TEAM

200<sub>K</sub>

DEDICATED EMPLOYEES

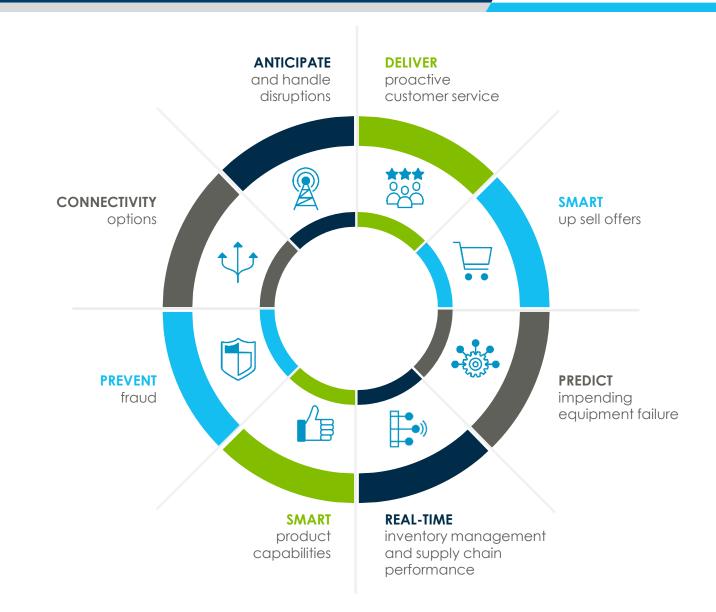
\$22.1

BILLION REVENUE IN FY18

### Deliver IoT Fueled Business Solutions

## JABIL

- Critical business moments begin at the edge and impact every facet of enterprise operations.
- Edge and IoT solutions drive competitive differentiation, customer satisfaction and business success.



## Expand digital business value



#### Expand digital business value through expanded capabilities, insights and offerings



#### **Edge**

Create a Scalable Digital Nervous System with Pervasive Awareness

- Devices and Appliances
- Sensors and Actuators
- Gateways/Aggregation
- Event/Data Generation



#### **Platform**

Achieve Continuous Intelligence, Predictive Operations and Real-time Monitoring

- Data Ingestion
- Data Mgmt. and Analytics
- Policy and Orchestration
- Device and Platform Mgmt.



#### **Enterprise**

Deliver Actionable IoT Insights into Existing Business Systems to Make Smarter Decisions

- Business Applications
- Business Processes
- New Business Models
- Life Cycle Management

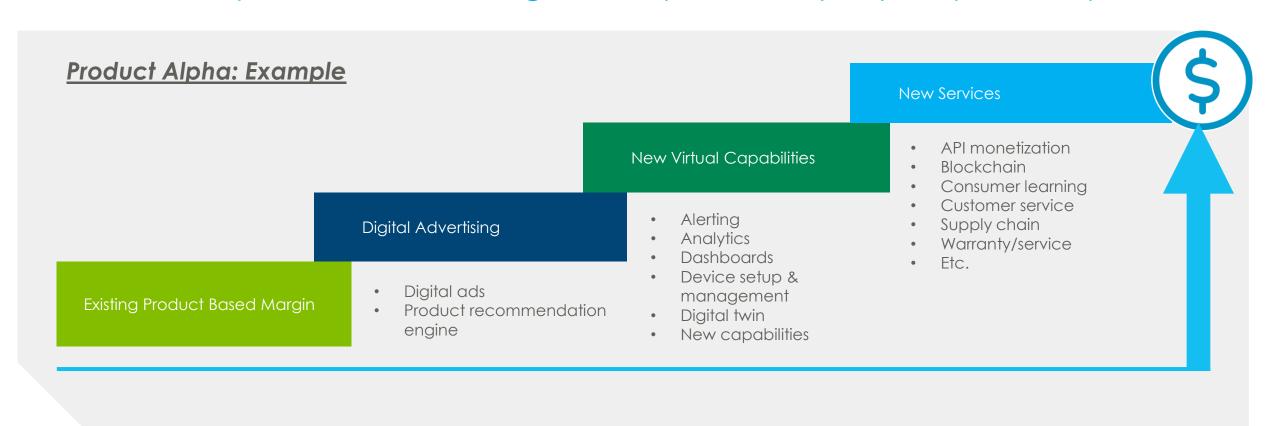
Interaction of physical components with IoT ecosystem

IoT Platform Architecture components build on top of other IoT applications

Integration between enterprise and IoT platform components



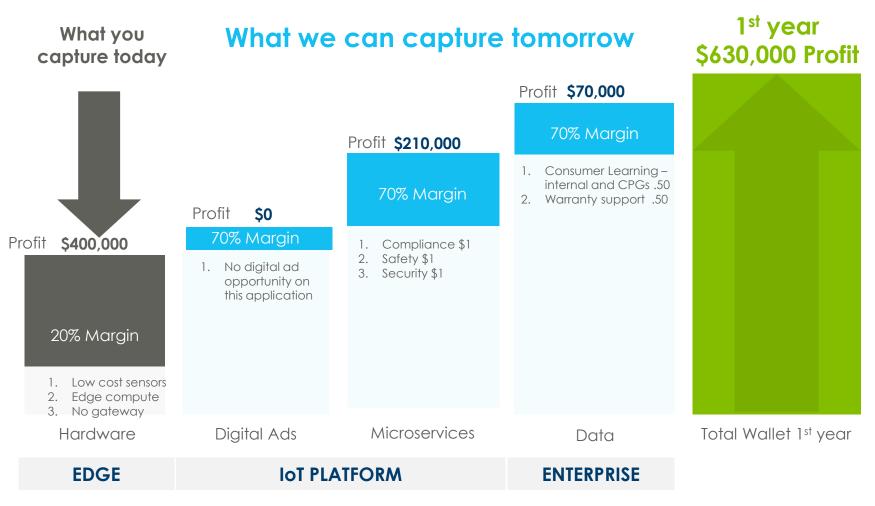
## Take the steps to increase margins and profitability in your product portfolio



# The IIoT Business Model Can Powerfully Disrupt and Transform Financial Results and Overall Value

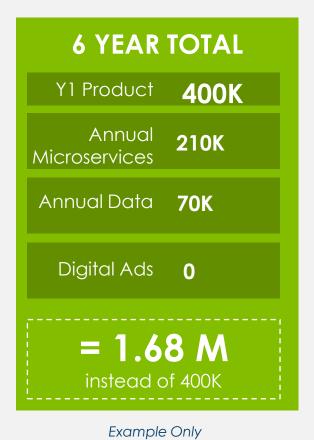
### JABIL

Margin and profit pools with and without IIoT business model



This product is projected to achieve a

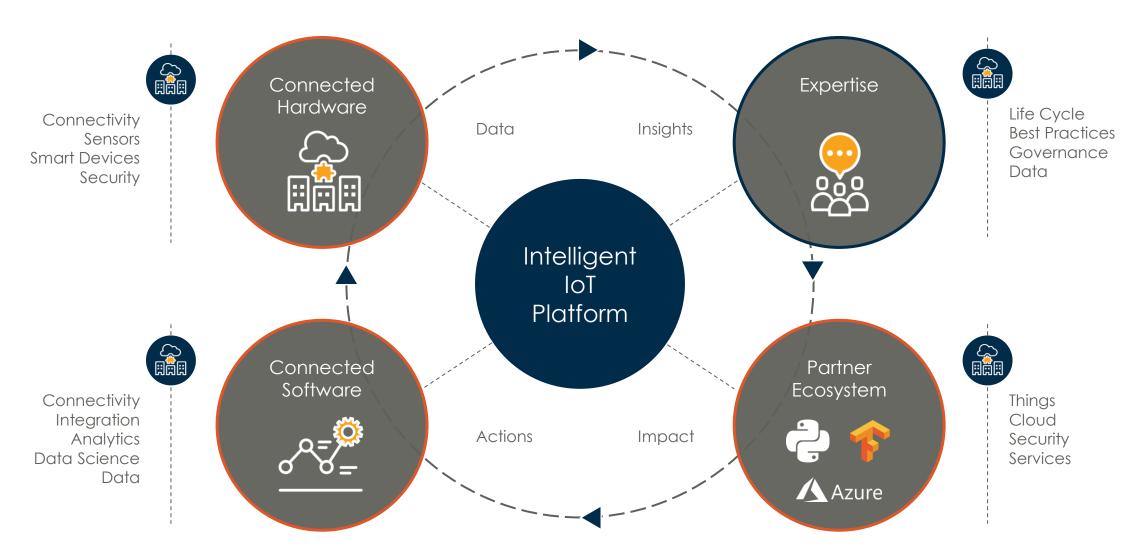
4X+ PROFIT INCREASE!



Assumptions: 1. 100K units per year @ cost of \$20/unit and sale price of \$24

## A Broad Set of Capabilities are Required





## Our Approach

## JABIL

#### » DISCOVER

- UX Report
- Markets/Opportunity Roadmap Report
- Customer/Stakeholder Report
  - Product Requirements workshop
- Determine problem you are solving

#### DESIGN

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- Technical or Product Requirements Document (PRD)
  - Industrial Design
  - EVT Design package
  - BOM/Supply Chain
  - Rapid POC & Field Trial
  - Define Physical & Digital Experience

#### DEVELOP

- Test, Monitor & Refine HW/System Architecture & Components
- Prototype Test Results
  - DVT & PVT Design
- DVT & PVT Field Trials
  - Digital Offering

#### DELIVER

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- Commercial Product Solution Architecture
  - Tooling
  - PVT Production
- Scaled Supply Chain & Operations/Production Plan
- New Business Models and Recurring Revenue Streams with higher margins



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## Jabil's Industrial IoT Expertise





- Co-develop Business Case & Requirements
- Solution Design & Architecture recommendations
- BOM/Supply Chain Specification



- Device Management
- Cloud Storage & Analytics
- Other Software



- Partnership Management
- 4 Staged Deployment Model
- Lab, Field Testing & System Deployment







Cloud / Software



Analytics / Dashboard



Program Management & **Business Models** 

- Design & Engineer Hardware
- Industrial Design & Firmware
- Certifications & Test



- Data Visualization
- Insights/Actionable Intelligence
- **Automated Service**



















































MARKS & SPENCER











































































**10,000**+ **customers** 

#### **Global footprint**

Based in Palo Alto, California, and present in 30+ countries

3,500+ employees

#### 20 years of innovation

Founded in 1997, has fueled digital ever since



# TIBCO Connected Intelligence Cloud Capabilities





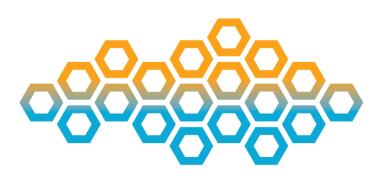
Data Visualization



Data Management



Advanced Analytics





Integration and API Management



Messaging and Events Processing



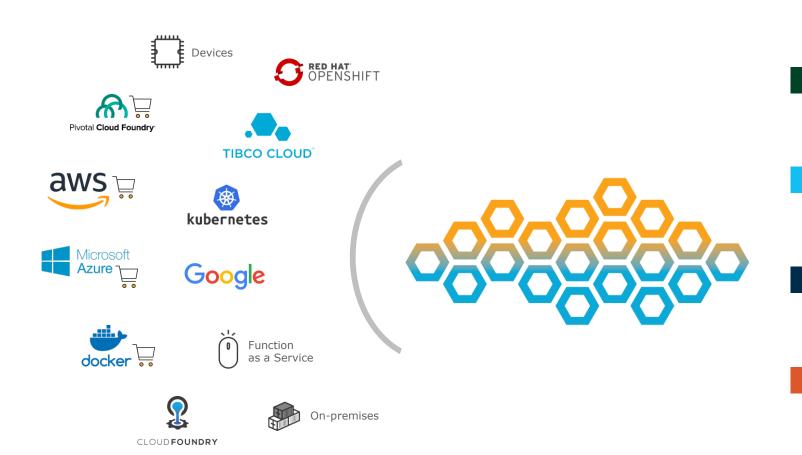
Low Code Apps & Process Management





# Available anywhere, everywhere

## TIBCO Connected Intelligence Cloud



#### **Open Source**

Give developers easy access to core capabilities of the Connected Intelligence Cloud

#### SaaS

Quickly get up and running with a fully TIBCO hosted and managed service

#### Hybrid

With all options for self-host, multi-cloud, or edge deployments

#### **Dynamic Cloud**

Optimize cost by dynamically scaling on cloud infrastructure such as Amazon Web Services



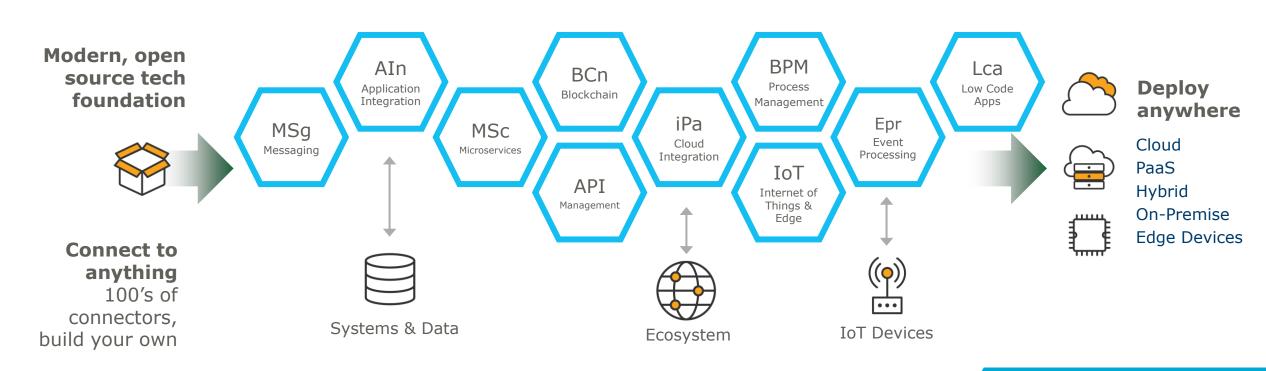


# Only TIBCO provides a *complete* pervasive integration solution

## **Gartner**

Digital business is in its essence collaborative, heterogeneous and continuously changing and expanding. Without a solid underlying integration infrastructure and pervasive "integration thinking," there is no digital business.

 $How \ to \ Achieve \ Digital \ Business \ Excellence \ by \ Mastering \ Pervasive \ Integration \ Analyst(s): \ Massimo \ Pezzini \ | \ Yefim \ V. \ Natis$ 

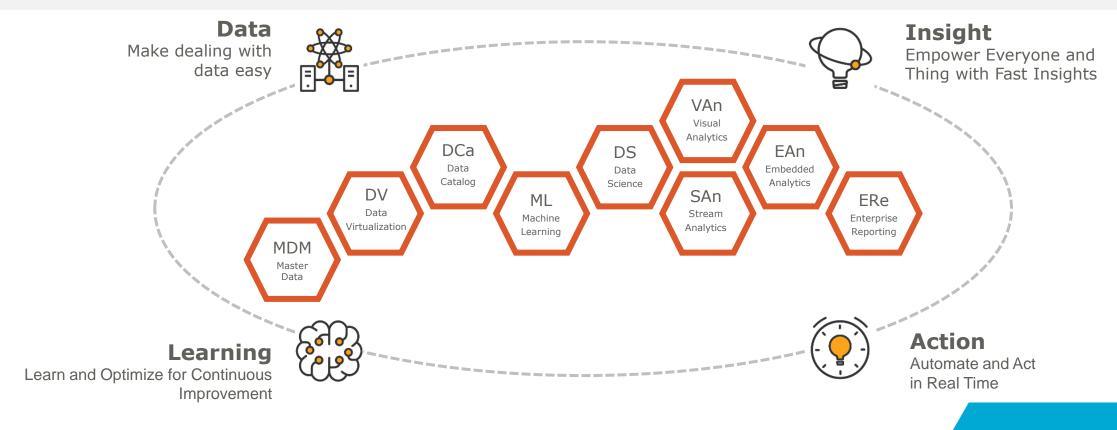


## Interoperable as a System of Insight

## FORRESTER®

Digital startups and advanced firms are taking a new approach we call systems of insight — the business discipline and technology to harness insights and consistently turn data into action. The key to this is multidisciplinary teams and an insights-to-execution process to embed insights in software, digital experiences, and everyday work.

Forrester, Digital Insights Are The New Currency Of Business, January 2018





## Official Team Partner





PE TRONAS

PETRONAS MOTORSPORT



**EPSON** 

300 sensors

**750 Billion** pieces of data

15GB
unstructured
data per car

Races: 100
Wins: 74
Poles: 84
1-2 Finishes: 39
Podiums: 145
Fastest Laps: 53

2MB/s peak throughput

35MB

per car / per cap

50,000

data points/car/second









Official Team Partner







#### **BUSINESS CHALLENGES**

- Acceleration technology development translates into an ever increasing amount of data and shorter times to analyze and compute
- Increased importance of strategy on the outcomes of races
- Changes in regulations requiring an extremely tight balance between reliability and performance of the car

#### SOLUTION

 System of insights architecture based on TIBCO Analytics to access and analyze data at rest and in motion, discover, insights leverage data science for improved awareness and decisions

## **750,000** km of tests

Were done digitally by the car before it was even assembled

#### **RESULTS**

- Faster and more ambitious design of the W09 thanks the improved analysis of the test results
- Improved reliability and performance coming from the identification of the optimum parameters for components such as the gearbox
- More aggressive race strategy enabled by the deeper understanding of the simulation and the access to any data



## Innovation at the Edge



60% Reduction In Deployment Time



800 trains instrumented



**Dutch Railways** 





\$100M+
Savings Per
Year with
Predictive
Maintenance

Oxy Petroleum

Automated logistics processes with real-time data integration

Expanded IoT platform functionalities with VR and AR capabilities

Implemented a predictive maintenance system to monitor train status

Aggressive race strategy with deeper understanding of the simulation and access to any data

Proactive measures to to prevent shutdowns and failures



## IIoT Quick Start POC Programs for OEM's



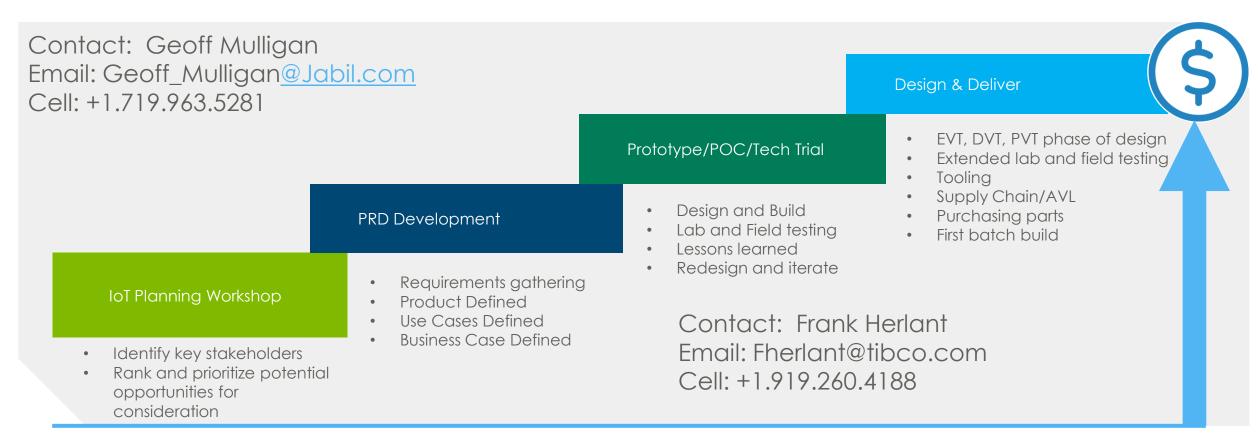
	POC Bundle Name	Example Applications	Use Cases	Description
S	Product Registration / Provisioning	<ul><li>Warranty upsell</li><li>Supply Chain Management</li><li>Product Serialization</li></ul>	<ul> <li>Auto Replenishment</li> <li>Access Manuals</li> <li>Video Training</li> <li>Synchronize provisioning with manufacturing and product assembly</li> </ul>	Simplify and streamline product registration process while adding value add services.
				Life Cycle Management as a Service
	Equipment Monitoring & Predictive Maintenance	<ul><li>Factory of Future</li><li>Wind Turbine</li><li>Engine Monitoring</li><li>Smart Sub Metering</li></ul>	<ul><li>Predictive Maintenance</li><li>Anomaly Detection</li></ul>	Monitor Engines, Utility Meters, Refrigeration on a Scheduled basis. Predictive Maintenance
Q	Asset Tracking	<ul><li>Factory of Future</li><li>Wind Turbine</li><li>Engine Monitoring</li><li>Smart Meter</li></ul>	<ul><li>Precious Cargo Monitoring</li><li>Track &amp; Trace</li><li>Anomaly Detection</li></ul>	Location tracking, environmental conditions, product handling and condition
	Custom	<ul><li>Smart City</li><li>Campus of the future</li><li>Connected Vehicle</li></ul>		Any permutation of the above

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## Contact us today to schedule a lloT Planning Workshop



## Take the first step to increase margins and profitability for your business



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