

# Solution Brief

## Manufacturing Industry

Platform  
**DIGITAL**<sup>™</sup>

The digital economy is remaking how global enterprises create and deliver customer value. For all industries, this forces IT to re-architect towards a decentralized infrastructure, enabling global distributed workflows at centers of data exchange to remove data gravity and scale digital business.

**Manufacturers embrace Industry 4.0 digitalization from the factory floor to the supply chain for full visibility, improved efficiencies, and just-in-time manufacturing and delivery ...**

**... that transform manufacturing through the use of digital technologies such as AI, 3D printing, machine vision, and augmented reality that extend end-to-end integration across the entire supply chain ecosystem and apply advanced analytics for process improvements and production techniques ...**

**... and add and scale infrastructure capabilities through digital ecosystems that directly interconnect manufacturing elements with different business partners across the supply chain and distributed workflows and points of presence requiring centers of data exchange.**

### INSIGHTS



Source: PwC, 2019

#### **91% OF INDUSTRIAL COMPANIES**

are investing in digital factories, but **only 6% are fully digitized**

#### **60% OF MANUFACTURERS**

indicate they have no clear-cut digital strategy

Source: EY, 2019

**75%**



**75% of industrial companies highlight regional manufacturing for better customer proximity**

Source: Accenture, 2019

**75% of large manufacturers will update their operations with IoT and analytics-based situational awareness**

Source: Deloitte, 2019

**Only 14%** of manufacturers are highly confident that they are ready to harness the changes associated with Industry 4.0.

Source: Deloitte, 2019

**Nearly half** of manufacturing executives are not confident their systems and data are protected.

Source: Deloitte, 2019

### CHALLENGES

- Legacy infrastructure is unable to add and scale to add new manufacturing sites and distribution hubs due to network latency and the time and cost associated with provisioning new users and services across multiple regions.
- Inability to gain agility in manufacturing processes, such as implementing new products and cutting down cycle and wait times, changeovers, and feedback loops.
- Disaggregated data stores inhibit workflows and data interconnectivity between manufacturing and supply chain ecosystems while making it difficult to use smart analytics to make better operational decisions.
- Expanded attack surface combined with inability to configure and manage standardized security controls across a disparate set of global datacenter assets ratchets up cybersecurity risks.

### SUMMARY

Digital transformation in manufacturing requires an agile, flexible, and pervasive datacenter platform that integrates physical and virtual infrastructure within proximity to manufacturing sites and supply chain centers tailored to business needs. This removes data gravity barriers in and between production and distribution ecosystems for real-time intelligence that drives smarter decision-making for just-in-time manufacturing capabilities.



# HOW PlatformDIGITAL™ SCALES DIGITAL BUSINESS

PlatformDIGITAL™ provides a global data center platform to host critical infrastructure and interconnect digital ecosystems, providing a trusted foundation to scale your digital business.

## SUMMARY

In order to execute digital transformation initiatives that drive operational efficiencies while shrinking production and delivery times, manufacturers require a decentralized, pervasive infrastructure that facilitates distributed workflows and removes data gravity barriers. PlatformDIGITAL™ is a fit for purpose solution that enables IT infrastructure deployments, matched to business needs, irrespective of data center size, scale, location, configuration or ecosystem interconnections.

## PERVASIVE DATACENTER ARCHITECTURE (PDX)

The foundation to scale digital business in manufacturing.

### PLAN ZONES

Plan distributed workflows at business points of presence requiring centers of data exchange

### DEPLOY FOOTPRINTS

Deploy fit for purpose footprints matched to workflow profiles and workload attributes interconnecting participants at centers of data exchange zones to enable distributed workflows



### IDENTIFY PARTICIPANTS

Identify the users, applications, data and things that will participate in distributed workflows

### MAP WORKLOADS

Map workload types with Performance Attributes required to support participants in distributed workflows

A Pervasive Data Center Architecture results in a decentralized IT architecture, enabling global distributed workflows at centers of data exchange implemented on PlatformDIGITAL™

### 1- NETWORK HUB to

Rewire the Network

### 2- CONTROL HUB to

Implement Hybrid IT Controls

### 3- DATA HUB to

Optimize Data Exchange

### 4- SX FABRIC to

Interconnect Global Workflows

