

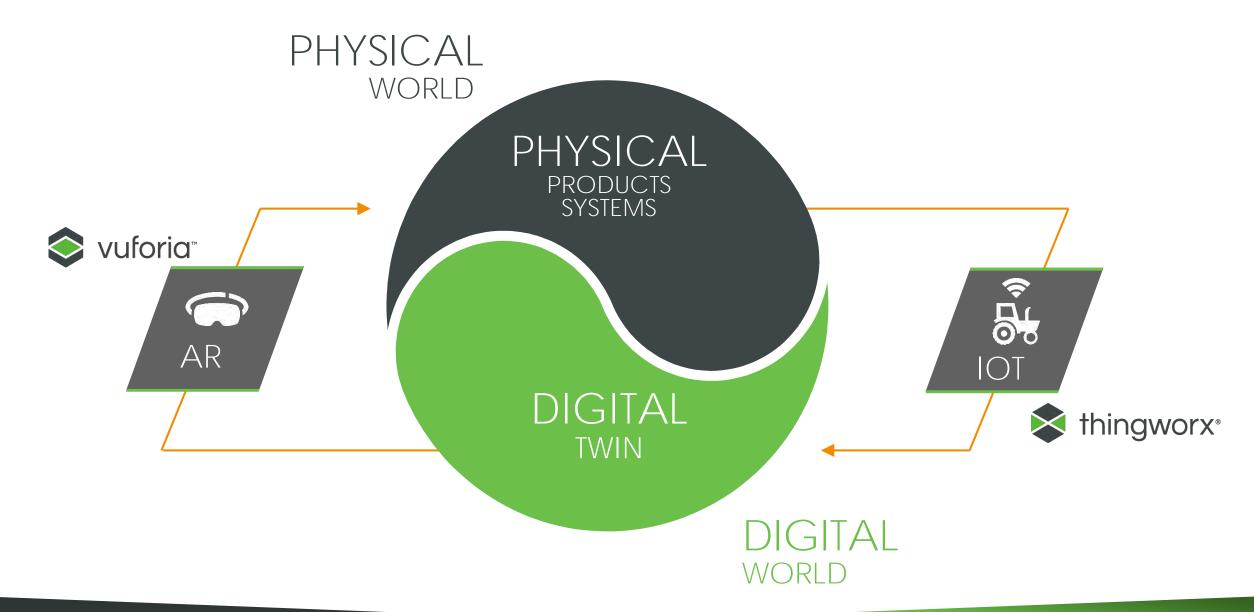
OUR MISSION

Unlock the value created by the CONVERGENCE of the PHYSICAL and DIGITAL worlds.



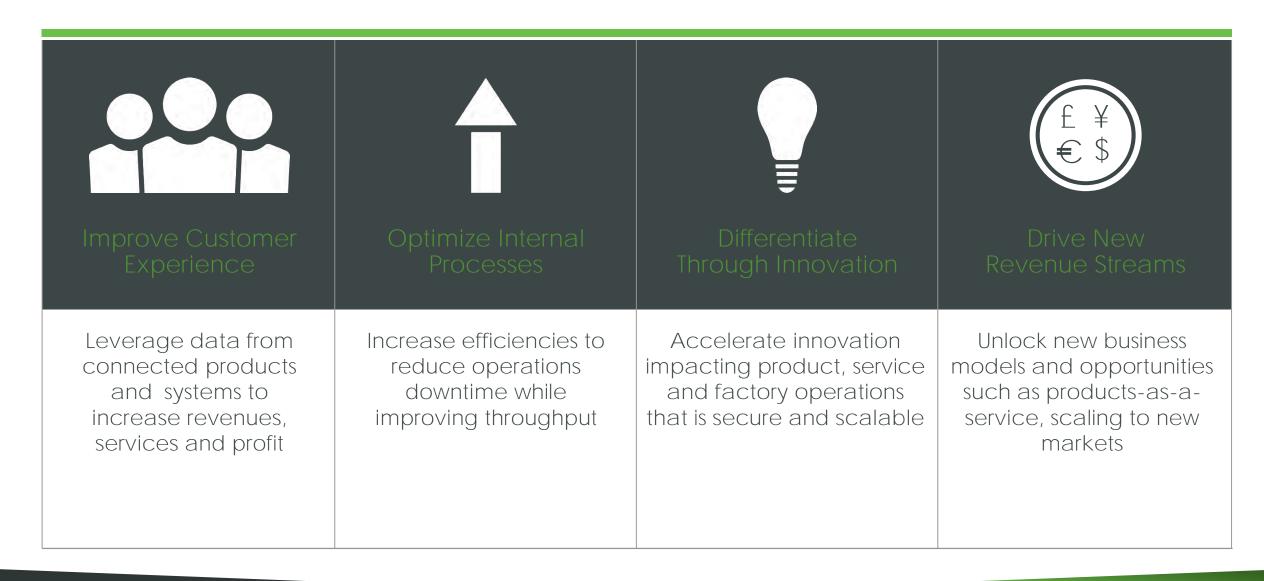
BRIDGING THE DIGITAL AND PHYSICAL





INDUSTRIAL INNOVATION UNLOCKS BUSINESS OPPORTUNITY

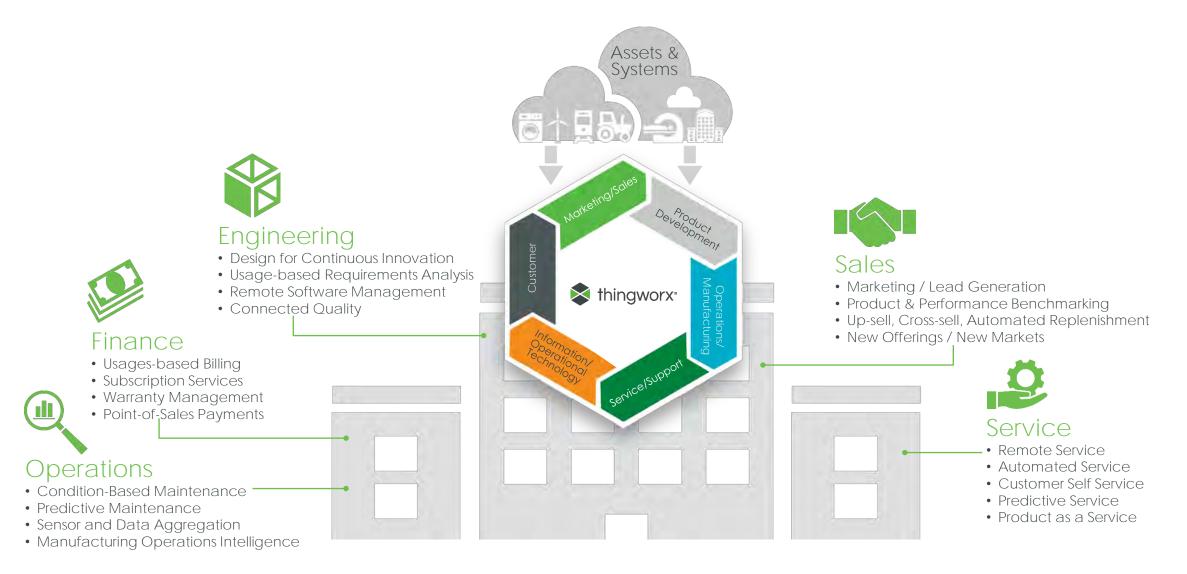




IMPACTS EVERY FACET OF THE BUSINESS



Data from Connected Assets Enables Optimized Processes



THINGWORX ADDRESSES THE CHALLENGES TO REALIZING THAT BUSINESS OPPORTUNITY





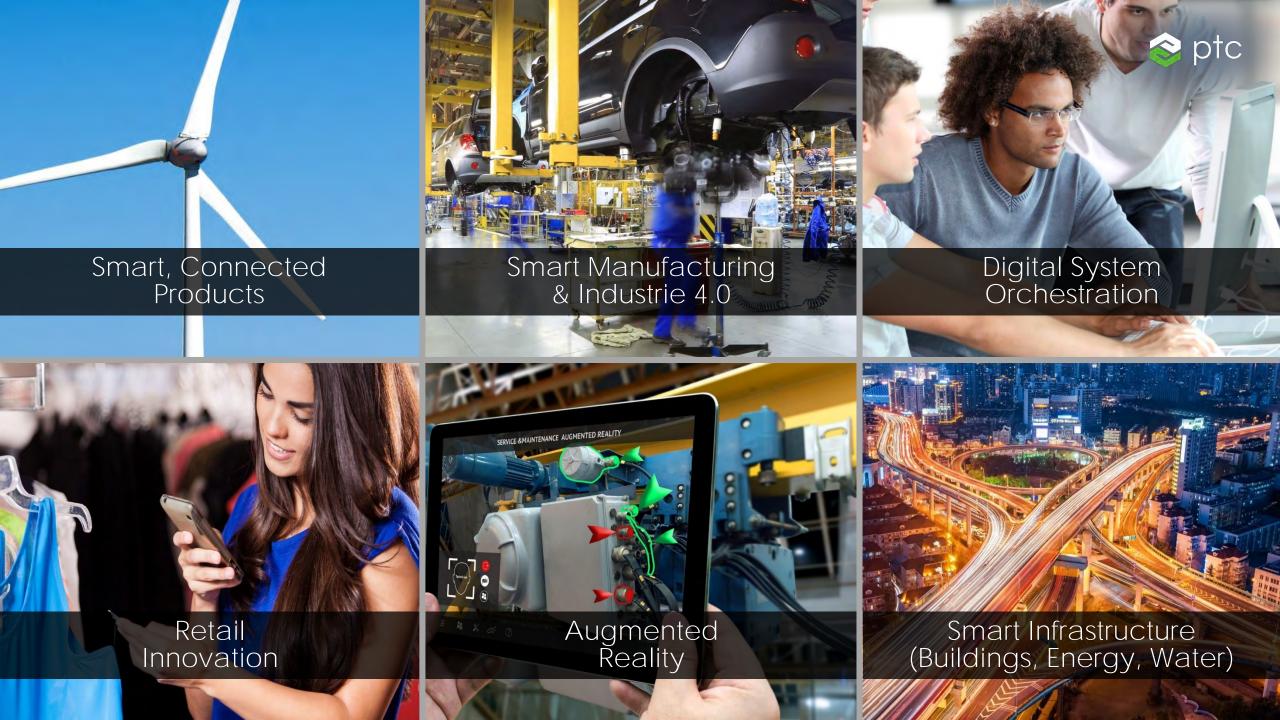


The fastest way for industrial companies to unlock the value of physical digital convergence.





SMART, CONNECTED PRODUCTS







PLATFORM + APPS + ECOSYSTEM





PLATFORM + APPS + ECOSYSTEM

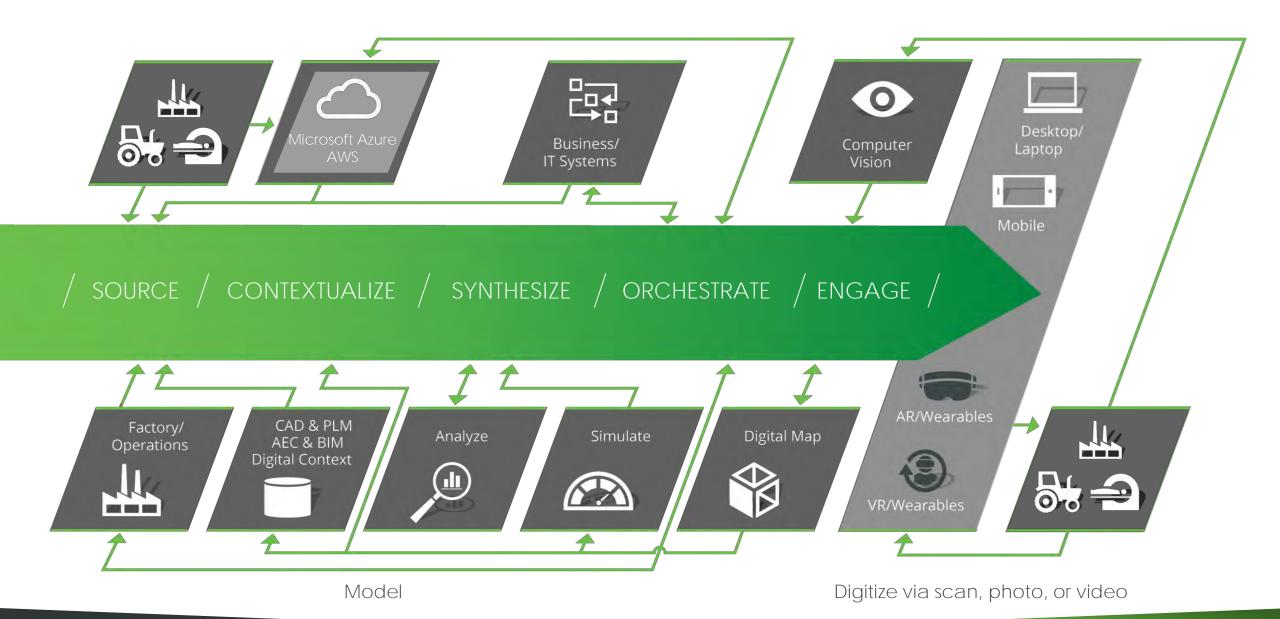
ThingWorx Platform
INDUSTRIAL CONNECTIVITY
FOUNDATION
ANALYTICS
ACCELERATORS

ThingWorx Apps
THINGWORX NAVIGATE
THINGWORX CONTROLS ADVISOR
THINGWORX ASSET ADVISOR

ThingWorx Ecosystem
THINGWORX DEVELOPER PORTAL
PTC MARKETPLACE
PARTNER NETWORK

INDUSTRIAL INNOVATION PLATFORM











Purpose-Built for Industrial Innovation



Quickly Create & Deploy Industrial Apps & AR Experiences



Agile & Flexible



Wrap & Extend Existing Technology



Expansive Ecosystem

PURPOSE-BUILT FOR INDUSTRIAL INNOVATION

- Built with the industrial technology used for connecting 5 million assets at over 75,000 sites around the world
- Benefitting from PTC's ongoing leadership in areas like CAD and PLM, ThingWorx has an unmatched understanding of how "things" are designed, operated and serviced
- Leveraging our experience and understanding of our industrial customers' needs, we have created a platform of unprecedented simplicity, power, and flexibility



QUICKLY CREATE & DEPLOY INDUSTRIAL APPS AND AR EXPERIENCES

 ThingWorx is an end-to-end industrial innovation platform that enables you to rapidly create and deploy industrial apps

 Contains integrated platform components built around version of data – the ThingModel

Create web & mobile apps without writing any code

 Deliver industrial AR experiences with real-time connected asset and system data with Vuforia



AGILE & FLEXIBLE

- Open, flexible architecture that is designed to compliment and extend existing investments
- ThingWorx can be deployed in any way (cloud, on premise & hybrid)
- Connect data from anywhere and deliver applications to anyone on nearly any device (including AR hardware)
- Enables businesses to build, deploy and maintain on their own terms



WRAP & EXTEND EXISTING TECHNOLOGY

- ThingWorx is designed to wrap and extend existing technologies – like other applications, enterprise systems and cloud technologies.
- Enables companies to keep their existing standards while taking advantage of the power and capabilities of ThingWorx
- ThingWorx makes industrial innovation fast and easy through a broad set of deep capabilities designed to work together



EXPANSIVE ECOSYSTEM

- 1,000+ partners focused on industrial innovation
- PTC Marketplace offers hundreds of tools, apps, solutions, and services to accelerate solution development
- ThingWorx Developer Portal delivers trials and content to evaluate the platform
- Streamlined training and customer success offerings



THINGWORX INDUSTRIAL CONNECTIVITY

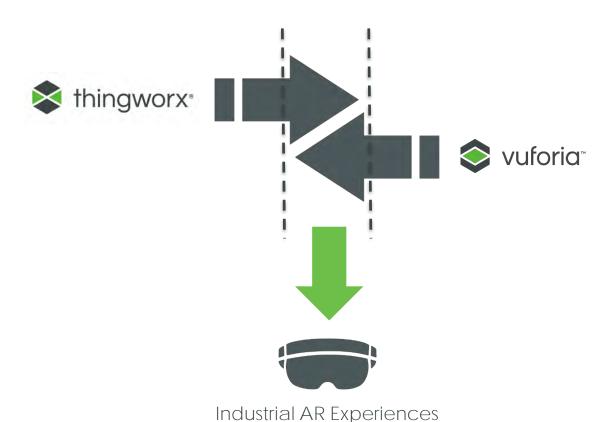


- Powered by Kepware, the industry's leading industrial connectivity platform
- Library of 150+ device & client drivers and advanced plug-ins — supporting thousands of devices and other data sources
- Provides operations data to traditional Industrial Automation clients (via OPC and proprietary protocols) and new IoT solutions (via MQTT & IT-centric protocols)
- Meets the highest standards of quality through third-party validation



THINGWORX & AUGMENTED REALITY





w/Real-Time Asset & System Data

- ThingWorx and Vuforia come together to deliver industrial AR experiences that contain real-time, contextualized asset & system data.
- Vuforia delivers flexible ways for AR developers and designers to create powerful, immersive industrial AR experiences for their end users.
 - Vuforia Engine AR Developers can build highlycustomized industrial AR experiences from the ground-up using computer vision technology.
 - Vuforia Studio AR Designers can reuse existing 3D content and quickly scale industrial AR experiences without writing any code.
 - Vuforia View universal browser for industrial AR experiences built in Vuforia Studio. Download and install Vuforia View on mobile devices and immediately begin consuming experiences.





vuforia studio™

Author & Publish AR Experiences

COMPASS
PHILLIGING

Solidary

2017 Award Winner

vuforia view

Access & View AR Experiences



There is nothing like **Studio**from any other software
vendor. With **Studio**, Microsoft
HoloLens customers can get to
production **incredibly fast**."

Kevin Collins, Microsoft



ENABLES KNOWLEDGE TRANSFER





VIBRANT ECOSYSTEM



Edge, Embedded & Device Clouds	Communication Service Providers	System Integrators	ISV, Business Systems & Analytics	Solution Providers
Microsoft	elis	accenture	NSYS °	Aquamatix
aws	etisalat	Capgemini	DEVICE AUTHORITY IoT Security Simplified	(ge)
ANALOG DEVICES AHEAD OF WHAT'S POSSIBLE ¹⁶	altice	Deloitte.	glass beam ™	Intelligent Vehicle Controls
CISCO	Telefonica	Digital Infosys	OSIsoft.	HXPERIENCE Like Never Before
Hewlett Packard	SFR	Business-friendly Solutions	salesforce	トラステムウェア株式会社 NIPPON SYSTEMWARE CO, LTD.
Enterprise		Tech Mahindra	vm ware	SENSUS a xylem branc
NATIONAL	vodafone	wipro)		servicemax From GE Digital



Centers of Excellence built on ThingWorx.











L&T Technology Services





THINGWORX CUSTOMERS



- Over 1300 customers including 650 major factories
- Integral market leading AR Technology (61% share) with:
 - 50,000 published apps
 - 425,000 developers
 - 525M app installs

















Industrial













FUJ!FILM















































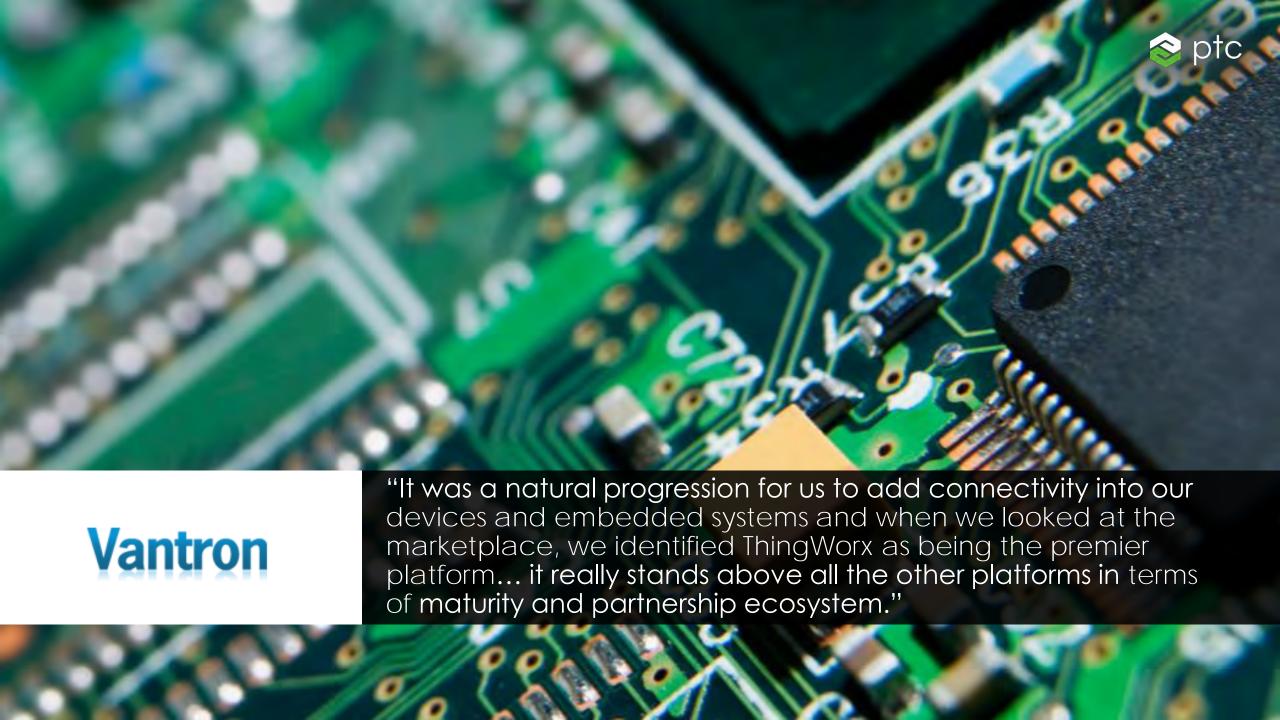
















"By combining the ThingWorx Manufacturing Apps with our current loT initiatives, we will be able to accelerate our efforts to bring real-time, data driven, insights to our world class production processes."



ANALYSTS CONFIRM OUR LEADERSHIP STATUS



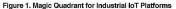
IOT PLATFORM MARKET

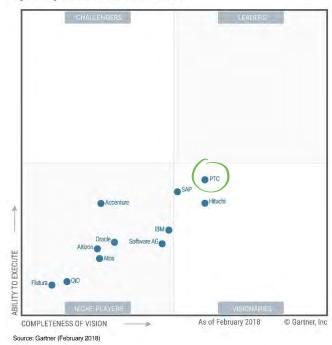


IOT PLATFORM MARKET



Industrial IoT
PLATFORM MARKET





Forrester Research

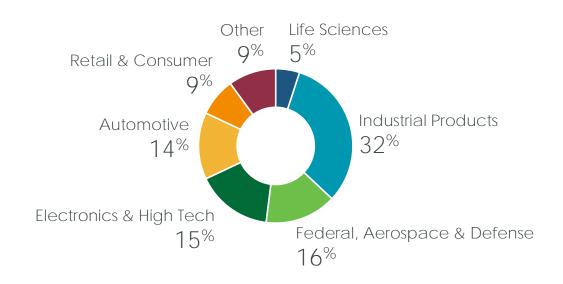
IDC

Gartner

WE ARE A GLOBAL TECHNOLOGY COMPANY







REVENUE BY REGION



FAST FACTS

\$1.16B FY17 total revenue 6K employees

1K partners 400K ecosystem developers



