

PTC BRIEFING:

AUGMENTED REALITY (AR) FOR

FEDERAL AEROSPACE AND DEFENSE (FA&D)

David Segal

Director, Business Transformation, FA&D Industry
October 2018



Augmented Reality Worksho

The Waterford Reception Center Washington DC

PTC IS A GLOBAL, US SOFTWARE TECHNOLOGY COMPANY



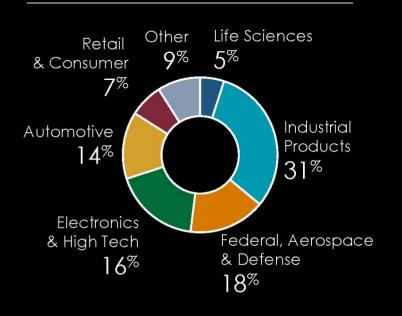
GEOGRAPHIC COVERAGE



NEW HQ: BOSTON SEAPORT



REVENUE BY VERTICAL



BRANDS



\$1.17B FY17 total revenue

\$989M FY17 software revenue

\$856M FY17 recurring software revenue

68% FY17 new software bookings subscription

30.000 active customers partners

FAST FACTS

6.000

1.800 employees universities

PTC: INNOVATION WITH GLOBAL RECOGNITION

CLEAR MARKET LEADER

WITH 18% MARKET SHARE



Source: IoT Analytics

CLEAR MARKET LEADER

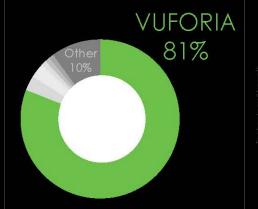
FOR IOT TECHNOLOGY PLATFORMS



Source: BCC Research

CLEAR MARKET LEADER

IN AUGMENTED REALITY



Source: Aeon Mobile

CLEAR MARKET LEADER

IOT PLATFORM MARKET



CLEAR MARKET LEADER

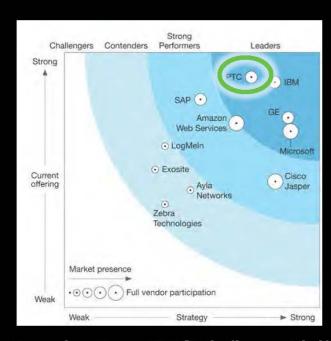


Source: Lux Research, Inc.

Source: Experton
Market Insight

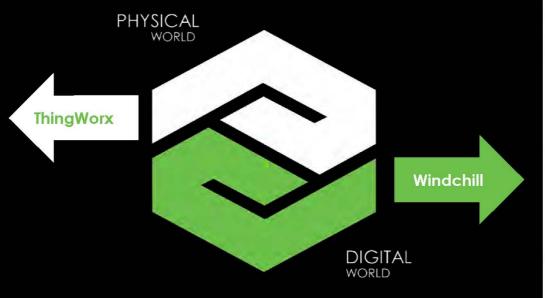


Gartner Magic Quadrant for Industrial IoT Platforms May 2018





FORRESTER





Forrester Wave™, PLM Software November 2017

Forrester Wave™, IOT Software Platforms December 2016

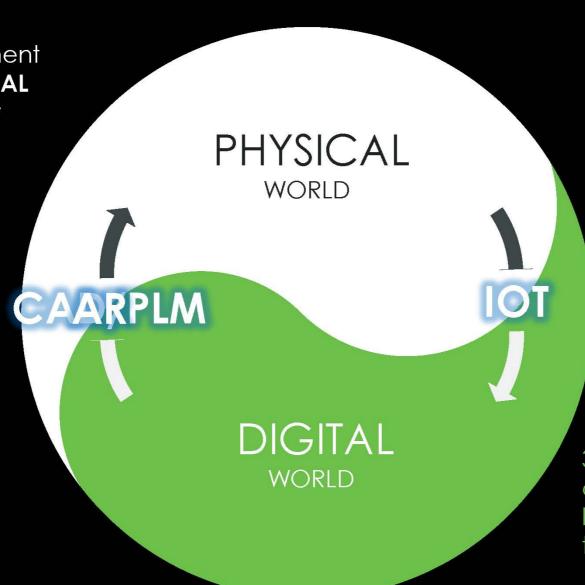
CONVERGENCE HAS SHAPED OUR STRATEGY



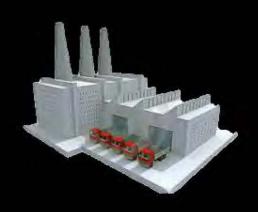
\$1B technology investment connects to the **PHYSICAL** world and enables new experiences

SMART CONNETED PRODUCTS





SMART CONNECTED OPERATIONS



30 year heritage in the **DIGITAL** definition, software, and lifecycle management of things

CONVERGENCE HAS SHAPED OUR IDENTITY



PHYSICAL WORLD

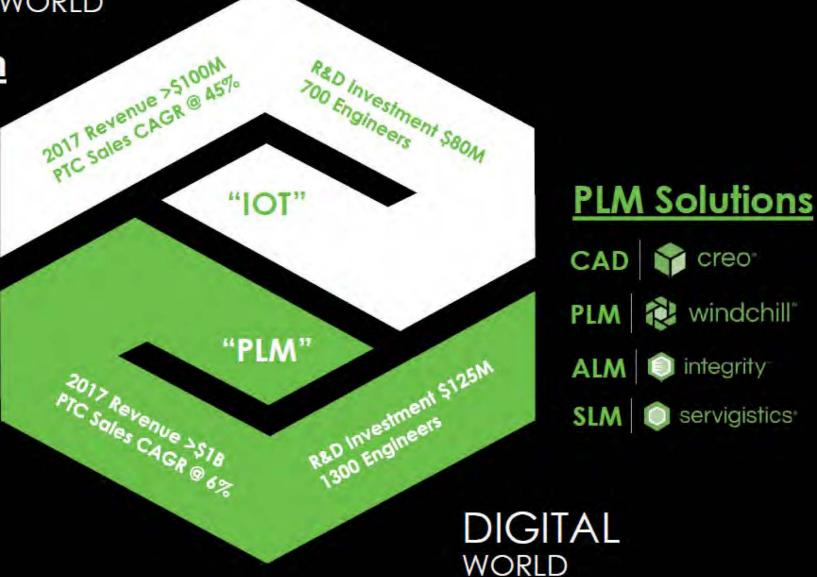
Innovation Platform

IoT & Analytics thingworx

AR/VR 🕏 vuforia

Industrial Connectivity

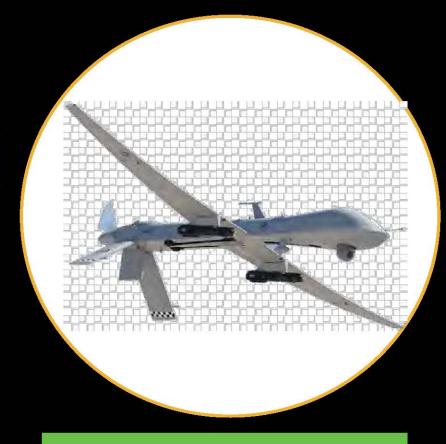




PTC AUGMENTED REALITY (AR) SOLUTION CAPABILITIES

VISUALIZE

Enhance the user's view of the physical world with the overlay of real-world or hypothetical digital information



INTERACT

Manipulate digital graphics or extend a product through an AR interface

Simulate

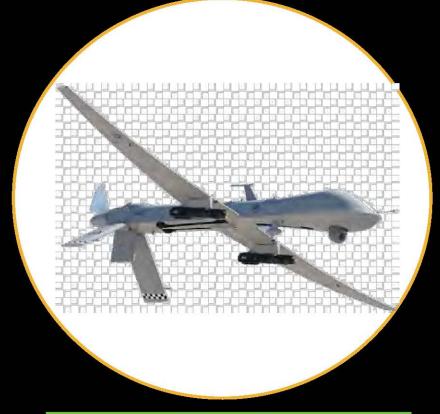
INSTRUCT

Train or guide users on how to perform a task through the overlay of **digital instructions** or **real-time expert guidance**

PTC AUGMENTED REALITY (AR) SOLUTION USE CASES

Service and Maintanance Operations

- Depot Scheduled Operations
- Remote (Field) Operations



Manufacturing

AR-guided assembly / disassembly work instructions

Industrial Workforce Training

AR-guided training and Immersive training
Content creation and scenario development for training



DIGITAL INFORMATION IN CONTEXT WITH IOT DATA



