

FY21 INVESTOR DAY

December 15, 2020



Agenda

VALUE CREATION STRATEGY

Jim Heppelmann Kathleen Mitford



MARKET DEMAND

Jon Hirschtick – Onshape Craig Livingston – Arena Solutions Mike Campbell – Industrial AR Steve Dertien – PTC Atlas Craig Melrose – IoT & Solutions Kevin Wrenn/Brian Thompson – PLM & CAD

BREAK

TOP LINE

Troy Richardson
Mike DiTullio – Go-to-Market Strategy
Eduarda Camacho – Customer Success
Wynn Grubbs – Focused Solutions Group (FSG)

BOTTOM LINE

Kristian Talvitie

LIVESTREAM Q&A

FORWARD LOOKING STATEMENTS

This presentation includes forward looking statements regarding PTC's future financial performance, strategic outlook and expectations, anticipated future operations, and products and markets. Because such statements deal with future events, actual results may differ materially from those projected in the forward-looking statements. Information concerning factors that could cause actual results to differ materially from those in the forward-looking statements can be found in PTC's Annual Report on Form 10-K, Forms 10-Q and other filings with the U.S. Securities and Exchange Commission.

IMPORTANT INFORMATION ABOUT OPERATING AND NON-GAAP FINANCIAL MEASURES

This presentation includes supplemental operating and non-GAAP financial measures and targets. The non-GAAP financial measures are not prepared in accordance with generally accepted accounting principles. The definitions of these items and reconciliations of Non-GAAP financial measures to comparable GAAP measures can be found on pages 211-217.



Value Creation Strategy







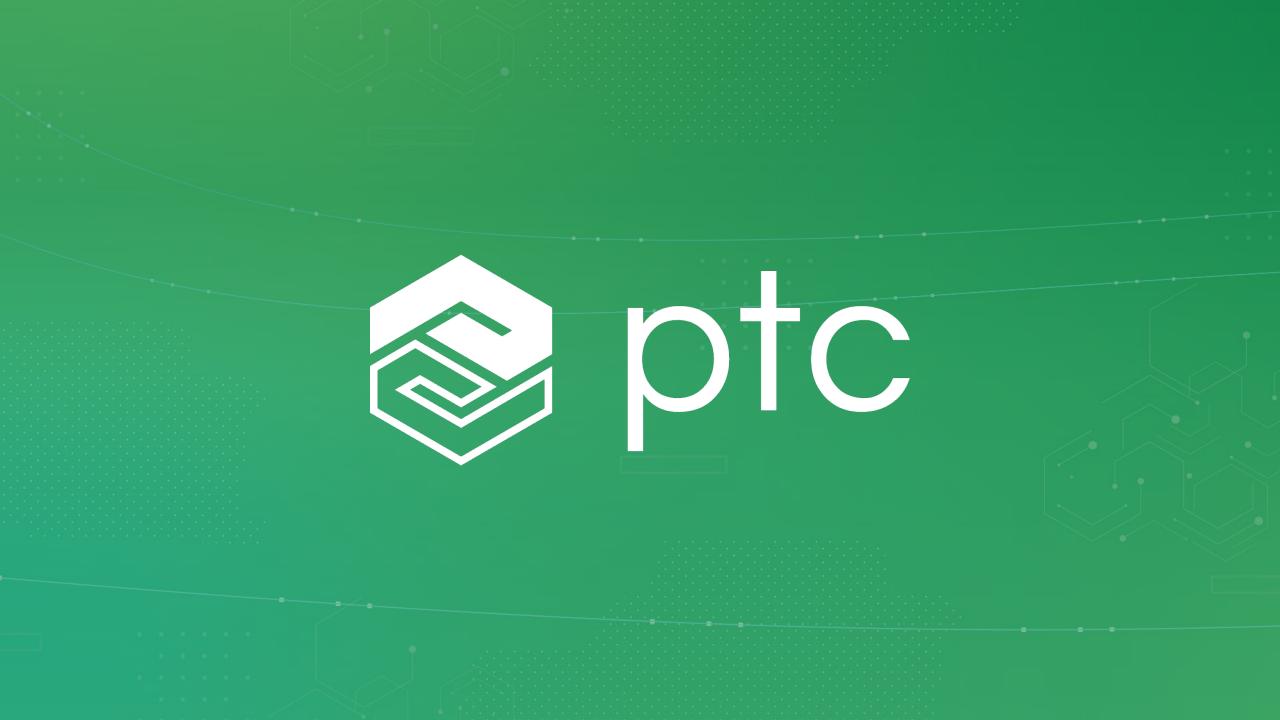


SOCIS



FY'21 ARR Accretive FCF neutral

Mid-Term ARR and FCF Accretive







innovative technology solutions



great products



new business models



double-digit impact



shareholder value

Delivering Shareholder Value









Market Demand

Digital Transformation, Remote/Collaboration, SaaS

Top Line

ARR Growth, Customer Success

Bottom Line

Opex Discipline, FCF growth

Delivering Shareholder Value









Market Demand

Digital Transformation, Remote/Collaboration, SaaS

Top Line

ARR Growth,
Customer Success

Bottom Line

Opex Discipline, FCF growth



Thriving in the New Normal



If there could be a "winner" of the COVID era, it would be DIGITAL

COVID accelerated our digital transformation journey by years

The Genie is not going back in the bottle

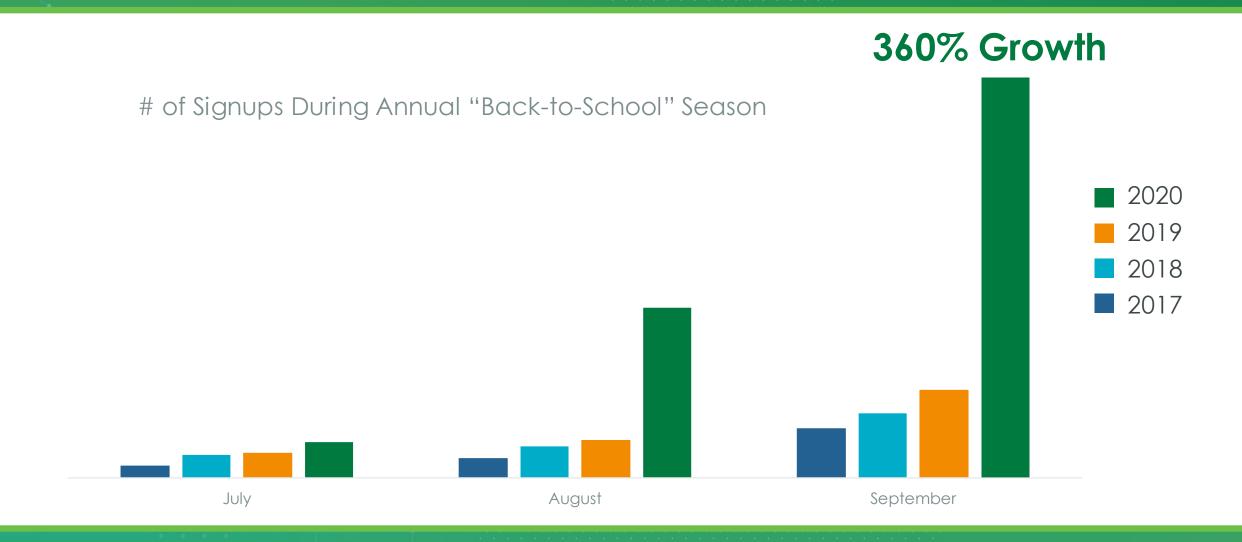




onshape®

Rapid Onshape Educational Adoption





Six Capabilities For Thriving In The New Normal



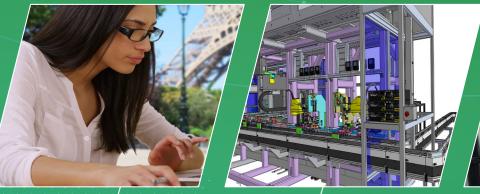
freeing desk workers

frictionless supply chain

connecting products and factories

bringing digital to the frontline

enhancing with Al

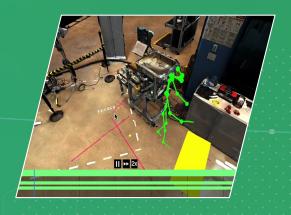








virtualizing
with spatial computing





freeing desk workers



frictionless supply chain





UFGONLINE UNIVERSITY Global Citizens, One University







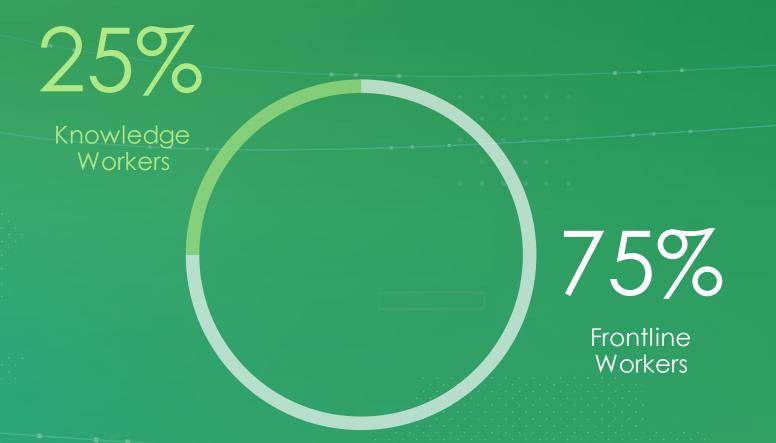
connecting products and factories



bringing digital to the frontline

But Only for Knowledge Workers





COVID has Accelerated Demand for AR



COVID-Driven Requirement

Answer For Knowledge Workers

Answer for Front-Line Workers

Remote Collaboration







vuforia® chalk™



Remote Training







vuforia® studio™



Remote Knowledge Transfer



vuforia[®] expert capture[™]





enhancing with Al



virtualizing with spatial computing

Six Capabilities For Thriving In The New Normal



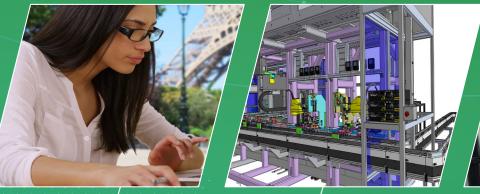
freeing desk workers

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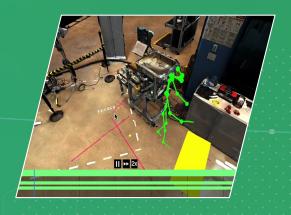








virtualizing
with spatial computing



Key Takeaways



Necessity is the mother of invention Digital
Transformation
is accelerating

PTC is poised to capitalize



Onshape



Celebrating our first anniversary at PTC





Key Themes

The Only Full-SaaS Solution

Commercial and Academic Success

Exciting 2021 Ahead

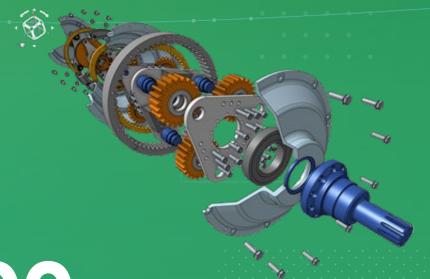


700+

Competitive Logo Displacements in 2020 82% ACV Growth Q4 40+ NPS

Zero

Scheduled Downtime



330%

Education User Growth Q4

15,000,000

Usage Hours

16

Major Releases FY20













musictribe











ABSOLUTE MACHINERY



Onshape In Education

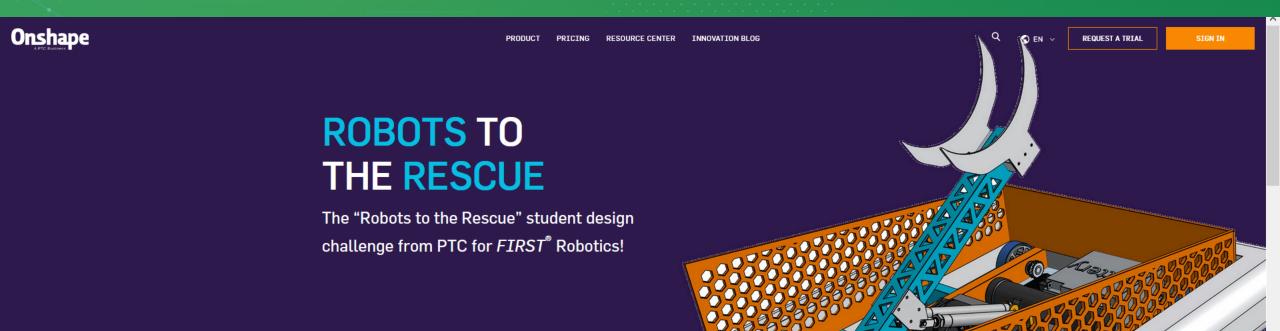
Nearly 1,000,000 Onshape Education Users





FIRST Robotics Competition





In May, we held our first Robots to the Rescue student design challenge! This Online competition brought FIRST teams together on the Onshape platform to design robots that solved a world problem. Watch the recording of our live awards ceremony in case you missed it.



Onshape 2021



Expand our full-cloud SaaS Product Lead

Sales Growth

Market-leading
Customer Success

More depth, more breadth

Continued high pace of enhancement:

Core modeling, data management, collaboration, etc.

Expand into exciting new areas:

Generative, Simulation, and
more

Cross-sell with PTC sales

Global expansion

Monetizing Academic Success

That's what it's all about





onshape®

Key Takeaways



The ONLY
full-cloud,
full-SaaS
Platform in our
industry

Momentum in Commercial and Education Markets Expanding product lead and go-to-market







PLM

PDM

MCAD Tool ECAD Tool Other Tools





PDM windchill®

MCAD creo®

ECAD Tool

Other Tools





PDM onshape

MCAD onshape

AR vuforia

Other Tools





Executive Summary



Helping leading-edge product companies change the world through improved development and quality processes

Arena Solutions – Leader in Cloud PLM and QMS



CORPORATE INFORMATION

- Headquarters: Foster City, CA
- **Employees**: 155 as of 09/30/2020
- **CEO**: Craig Livingston
- Ownership: JMI Equity

COMPANY OVERVIEW

Arena Solutions ("Arena" or the "Company") is the sole provider of a true multi-tenant cloud offering for product lifecycle management ("PLM") and quality management ("QMS") software systems

UNIQUE MARKET POSITIONING

Arena's PLM & QMS solutions are built upon a single cloud platform



World Class Management Team





Craig Livingston, CEO

- Joined Arena in 2008
- 30+ years of experience

Prior Firms

ORACLE think8 PeopleSoft.

Borland



Jeff Cross, CFO

- Joined Arena in 2017
- 30+ years of experience

Prior Firms

abila

TravelClick

dun & bradstreet



Wenxiang Ma, EVP of Engineering and CTO

- Joined Arena in 2011
- 25+ years of experience

Prior Firms

ORACLE

Borland





Andrea Pitts, SVP of Global Sales

- Joined Arena in 2011
- 35+ years of experience

Prior Firms

ORACLE

think3





Fred Waugh, SVP of Marketing

- Joined Arena in 2017
- 30+years of experience

Prior Firms

INVODO

(A) Sail Point

convio¹



Nathan Martin, VP of Customer Success

- Joined Arena in 2006
- 20+ years of experience

- Prior Firms





Erin Teter, VP of Human Resources

- Joined Arena in 2017
- 20+ years of experience

Prior Firms

abila



George Lewis, VP of Business Dev. and Strategy

• Joined Arena in 2005, Oracle / Propel '17-'19, rejoined Arena in 2019

Prior Firms

• 25+ years of experience

ORACLE

prope

Strong Tailwinds Driving the Market Forward



Modern product development needs are becoming ever-more demanding and complex



Digital Transformation

- Increased product complexity
- Shift to the cloud
- Connected products via IoT



Increasing Impact of Compliance

- Regulatory requirements
- Environmental requirements



Global Supply Chains

- Diverse teams
- Numerous suppliers
- Expanding geographies



Accelerating Speed of Innovation

- Release cycles defined in months, not years
- Heightened competition
- Product seasonality

Arena Delivers a Unique 'Operations-Centric' Cloud Platform



Product Lifecycle PDM
Simulation

Design / Simulation

Compliance
Operations
Supply Chain
Product / Quality / Analytics

Legacy Solution Shortfalls

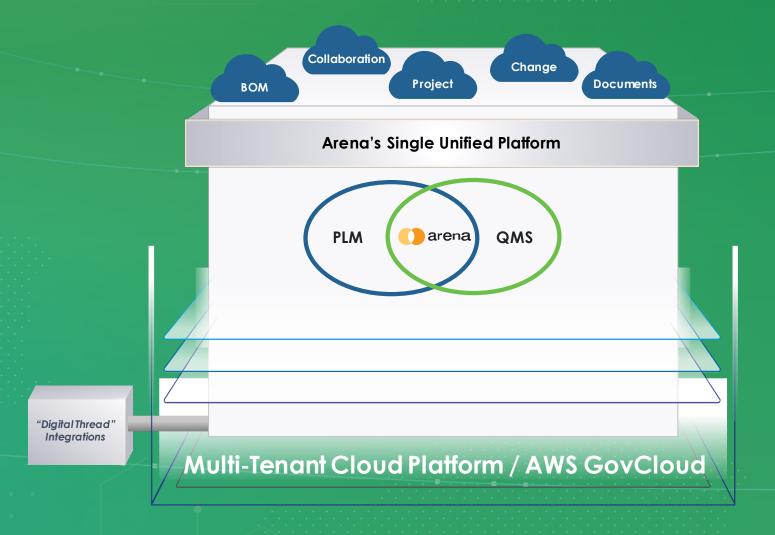






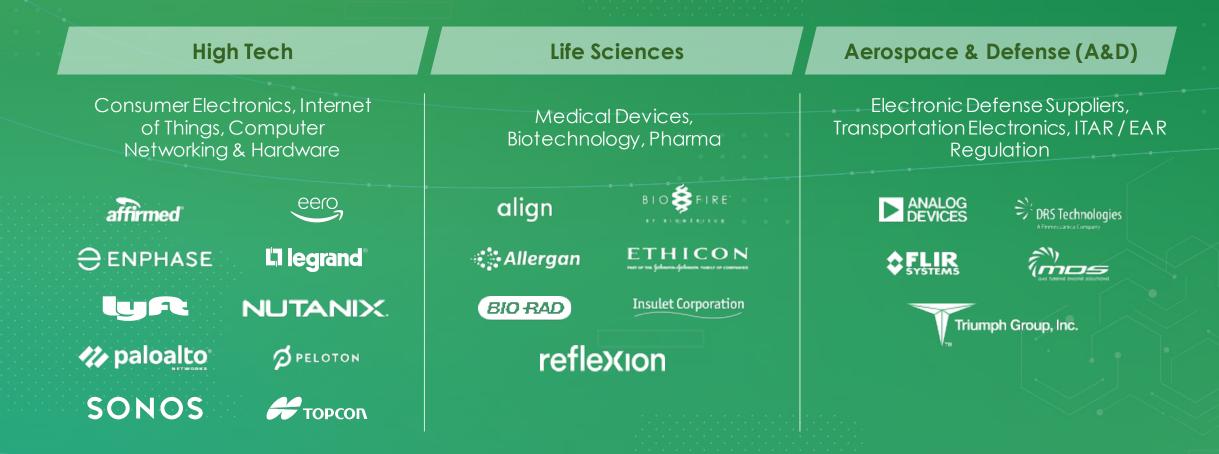
Arena's Modern Cloud Platform





Highly Attractive Customer Base





1,250+ Customers Spanning 80+ Countries Worldwide

Arena's Winning Formula









Easy to Use / Easy to Deploy

Scales with Customer Growth

Deep Vertical Expertise







Unified Cloud Platform

Enables Global Collaboration

Analytics-Driven Insights



Industrial AR



Key Themes AR Opportunity

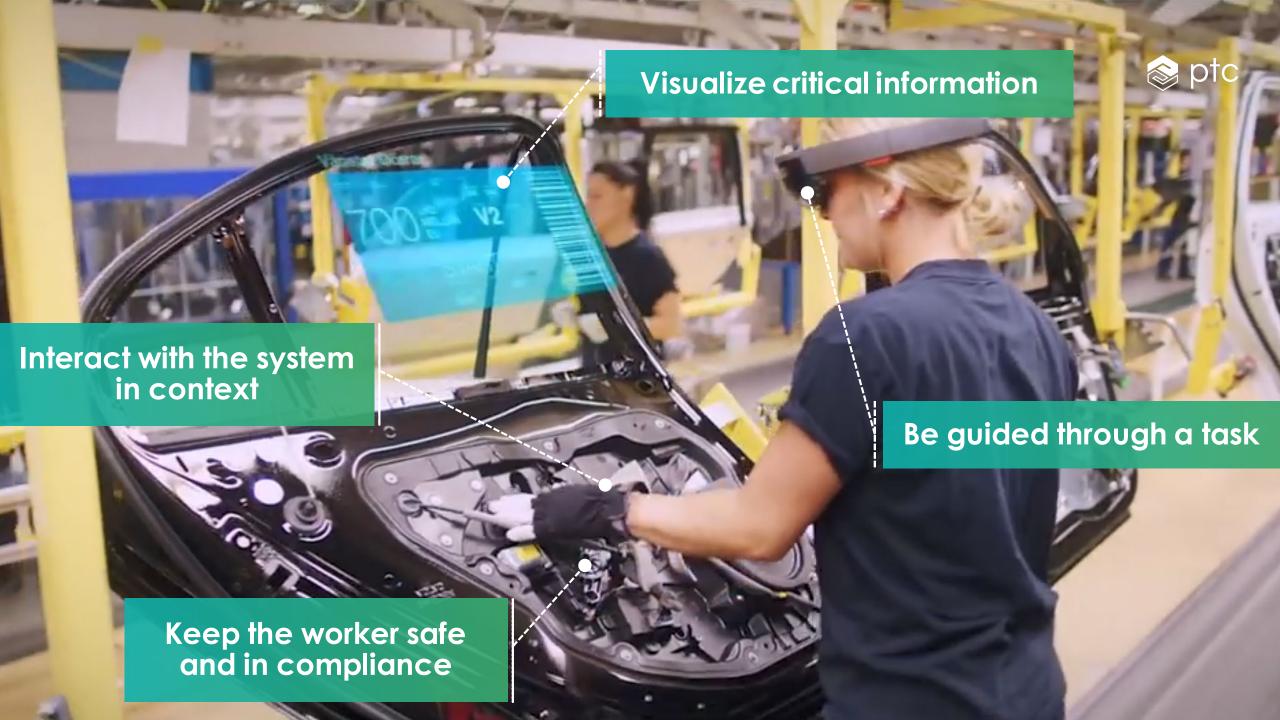
FY'20 Successes

Product Plans

Customer Value







Enterprise AR Software Market Growth And Use Cases



Enterprise AR Software Market (\$M)





Enterprise AR Revenue by Use Case (ABI Research)

Other 28% Digital Design **Assembly** Inspection 7% Field Service 9% Pick and Pack 9% **Training** 18% **Remote Expertise** 22%









2020

PTC Atlas Platform & PTC SaaS Offerings





PTC Atlas SaaS Platform

AWS, Azure, et al.



Easy-to-sell offerings that deliver a fast time-to-value

+ Highly differentiated, innovative, flexible technology



vuforia chalk

vuforia expert capture

vuforia® instruct

vuforia® studio®

vuforia: spatial toolbox:

vuforia engine

"Solution-centric"

"Platform-centric"

PTC Atlas SaaS Platform

AWS, Azure, et al.

PTC Ranked Leader for Enterprise AR Platforms



GreenlightInsights



ABIresearch®



teknowlogy PAC





+80%
ARR Growth

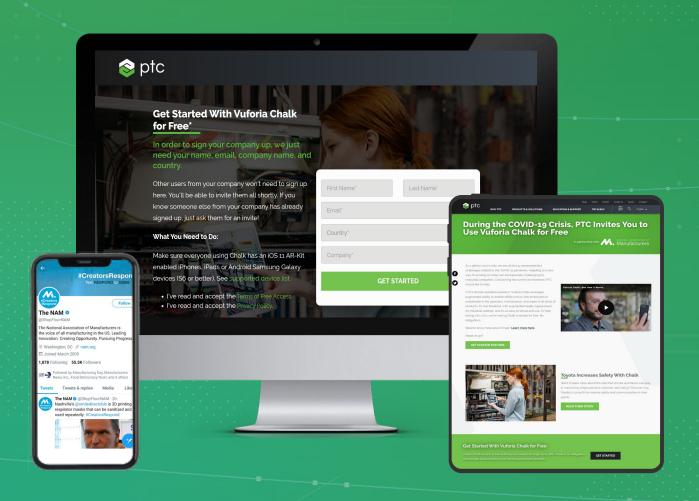
10%
Contribution to PTC New ACV

+75%

FY'20 Growth in Six-Figure Deals

~500 New AR Logos ~100 Expansions





- Keep employees connected and safe
- ✓ Collaborate with remote experts
- ✓ Enable customer self-service



vuforia chalk

"With our 32 Laundry and Home Care plants we are providing household and hygiene products globally. We must ensure that our production continues even in these difficult times and Vuforia Chalk has helped us significantly. The application makes it remarkably easy to maintain uptime for a wide range of users – from line workers, to machine operators, to management and engineers."

—Stefan Goeris

Process Consulting Manufacturing Digital Business



Vuforia Chalk as the Tip of the SpeAR



CAD & PLM

Digital Transformation Solutions





Industrial IoT



Vuforia Enterprise AR Suite





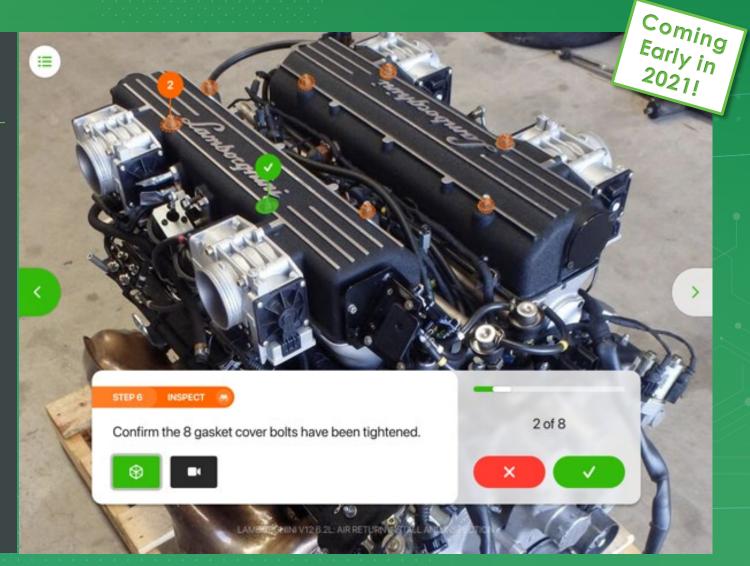
Vuforia Chalk



vuforia® instruct

Fast and scalable authoring and sharing of augmented work instructions

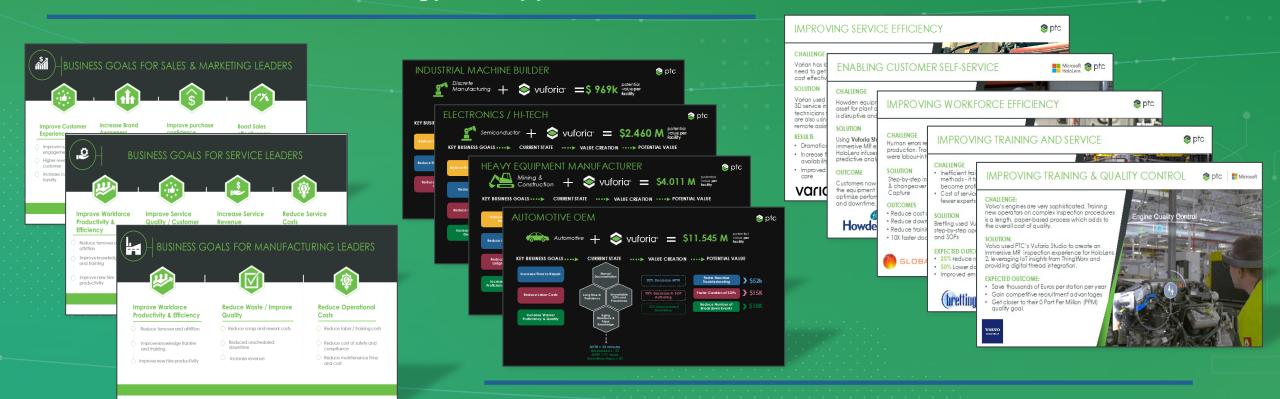
- Scale engineering excellence
- Digitize manufacturing processes
- Improve quality and compliance
- Boost confidence



Value-Centric Customer Engagement Throughout



Value-centric strategy and approach



Value workshops backed by proven metrics and robust customer references



Improving training and reducing cost





Key Themes AR Opportunity

FY'20 Successes

Product Plans

Customer Value

Key Takeaways



Strong Market Demand Compelling New Offerings

Momentum from FY'20

Driving Customer Value



PIC ATIOS



Key Themes Culture

Platform

Capabilities

Schools & Universities Using Onshape & ptc







Continuously Available





Fusion 360 | Autodesk Knowledge Network



AUTODESK KNOWLEDGE NETWORK

Search Fusion 360

You can have as many sessions as you need (not concurrently, of course). Make sure you save the work before ending the session. You won't be able to close the browser's tab until you confirm you want to Leave. This is as designed to prevent an accidental closing of the site.

I get a message that no servers are available. What do I do?

If the system reaches capacity, you will need to wait for someone else to end a session. You should simply retry after a couple of minutes.





Fusion 360 | Autodesk Knowledge Network



AUTODESK KNOWLEDGE NETWORK

Search Fusion 360

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→ 3DEXPERIENCE platform – Customers Cloud Status

US East

https://media.3ds.com/console/rss/customers [US East].rss

12/06/2020 13:22 UTC+2 - US 11/25/2020 09:11 UTC+2 - US 11/25/2020 09:11 UTC+2 - Europe: 11/07/2020 03:04 UTC+2 - Europe: 11/03/2020 15:37 UTC+2 - Europe: 11/25/2020 09:11 UTC+2 - US East: 11/08/2020 18:38 UTC+2 - US East: 11/07/2020 03:04 UTC+2 - US East: West: impossible to access the West: impossible to access the 11/07/2020 03:04 UTC+2 - US impossible to access the platform under maintenance impossible to access the platform impossible to access the platform planned maintenance scheduled under maintenance platform West: under maintenance platform Start: Nov 25, 2020 - 08:55 UTC+2Estimated Start: Nov 25, 2020 - 08:55 UTC+2Estimated Start: Nov 07, 2020 - 03:00 UTC+2Estimated Start: Nov 03, 2020 - 15:25 UTC+2Estimated Start: Nov 07, 2020 - 03:00 UTC+2Estimated Start Dec 06, 2020 - 12:45 UTC+2Estimated Start: Nov 25, 2020 - 08:55 UTC+2Estimated Time of Return: Nov 03, 2020 - 16:00 Time of Return: Nov 25, 2020 - 09:10 Time of Return: Nov 07, 2020 - 18:00 Time of Return: Dec 06, 2020 - 13:30 Time of Return: Nov 25, 2020 - 09:10 Time of Return: Nov 25, 2020 - 09:10 UTC+2Details: We are dedicated to solve this UTC+2Details: Scheduled upgrade to UTC+2Details: We are dedicated to solve this UTC+2Details: We are dedicated to solve this UTC+2Details: During this preventive UTC+2Details: Scheduled upgrade to UTC+2Details: We are dedicated to solve this UTC+2Details. We are dedicated to solve this. UTC+2Details: Scheduled upgrade to 3DEXPERIENCE R2021x FD03 started. issue as soon as possible. Please subscribe issue as soon as possible. Please subscribe issue as soon as possible. Please subscribe issue as soon as possible. Please subscribe. maintenance, only a limited number of cloud 3DEXPERIENCE R2021x FD03 started. issue as soon as possible. Please subscribe to the RSS Feed to get notified of the incident. to the RSS Feed to get notified of the incident Dassault Systèmes Support to the RSS Feed to get notified of the incident to the RSS Feed to get notified of the incident to the RSS Feed to get notified of the incident Dassault Systèmes Support users are impacted and may face issue with Dassault Systèmes Support end Dassault Systèmes Support data (Search, Save, Open). Dassault https://www.3ds.com/support end Dassault Systèmes Support end Dassault Systèmes Support https://www.3ds.com/support. end Dassault Systèmes Support https://www.3ds.com/support end Dassault Systèmes Support https://www.3ds.com/support https://www.3ds.com/support https://www.3ds.com/support https://www.3ds.com/support https://www.3ds.com/support Systèmes Support https://www.3ds.com/support 公 @ 0 ... SOCIPERENCE. 3DEXPERIENCE ☆ ◎ ♂ … ☆ ◎ ♂ …

US West

https://media.3ds.com/console/rss/customers [US West].rss

https://media.3ds.com/console/rss/customers [Europe].rss

Europe





3 3DEXPERIENCE platform − Customers Cloud Status

11/08/2020 18:38 UTC+2 - US East: planned maintenance scheduled

Start: Nov 09, 2020 - 06:00 UTC+2Estimated Time of Return: Nov 09, 2020 - 10:00 UTC+2Details: During this preventive

maintenance, only a limited number of cloud users are impacted and may face issue with data (Search, Save, Open). Dassault Systèmes Support https://www.3ds.com/support

3DEXPERIENCE...







11/07/2020 03:04 UTC+2 - US West: under maintenance

Start: Nov 07, 2020 - 03:00 UTC+2Estimated

Time of Return: Nov 07, 2020 - 18:00 UTC+2Details: Scheduled upgrade to

3DEXPERIENCE R2021x FD03 started.

Dassault Systèmes Support https://www.3ds.com/support

3DEXPERIENCE...







11/07/2020 03:04 UTC+2 - Europe: under maintenance

Start: Nov 07, 2020 - 03:00 UTC+2Estimated

Time of Return: Nov 07, 2020 - 18:00 UTC+2Details: Scheduled upgrade to

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3DEXPERIENCE...











otc at as

PTC Atlas Platform & PTC SaaS Offerings





PTC Atlas SaaS Platform

AWS, Azure, et al.









Enhance the Platform

Expand the Capabilities

Evolve the Rest of PTC to SaaS

High Level Functions







Collaboration



Automation and Scalability



Enterprise Identity
Management



Content and Data Management



Analytics



Orchestration









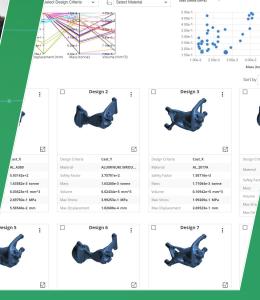
PTC Atlas SaaS Platform





Vuforia

Onshape



Creo Generative Design



Windchill Visualization Service





Vuforia





Windchill Visualization Service



2 Years

Faster to Full Feature Parity





Generative Design



12 Months

Faster to Market





Generative Design









creo® / windchill® / thingworx®

PTC Atlas SaaS Platform







creo® / windchill®



otc at as

Key Takeaways



Full-SaaS Platform Accelerated
Product
Innovation

Highly Scalable Solutions



loT & Solutions



Key Themes Current State of IOT

PTC's Shift to Solutions

Digital Performance Management





Challenges in FY20

+9%
New ACV
Growth

+17%
ARR Growth

Bright Spots

+73%
Expansion ACV
for Deals \$500K+

+57%
Expansion Deals \$500K+

Strong Outlook

33%
Increase in Backlog

3XPipeline heading into FY21 vs. FY19

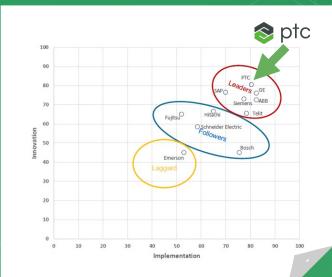












2020

~\$3B

Total Addressable Market

\$600M

PTC Customer Base



~20%

Penetration with existing customers

2023

ptc

~\$6B

Total Addressable Market

~\$1.3B

Cross sell and expansion opportunity with PTC customers

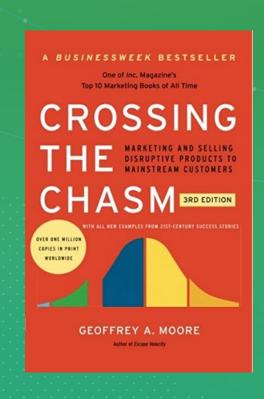


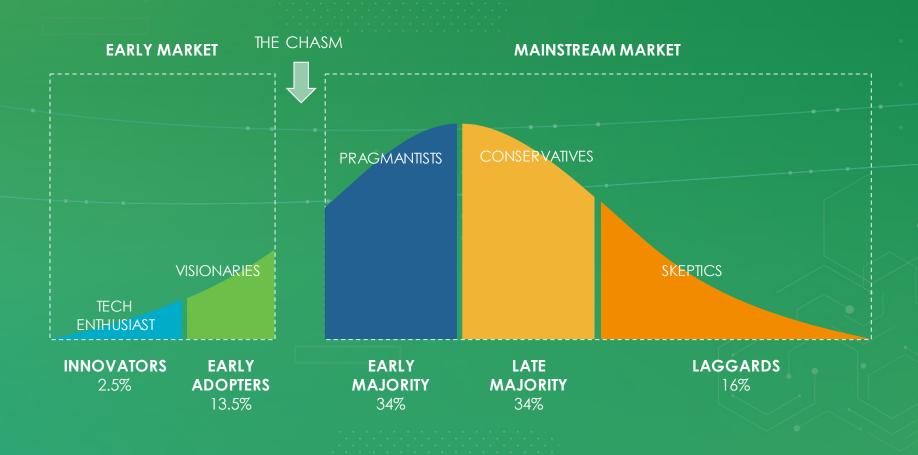


"Despite focus and enthusiasm, companies are experiencing pilot purgatory. They have significant activities underway. But they are not seeing meaningful bottom-line results.

The challenge is to roll out successful pilot projects to the entire organization. That's what makes transformation happen."



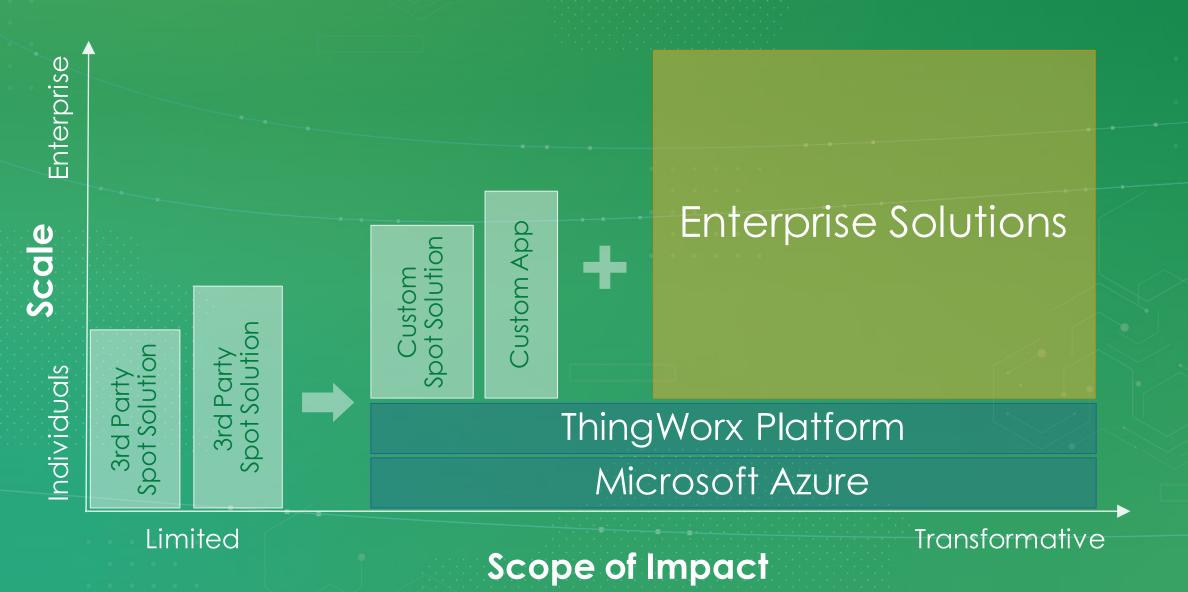




Pilot Purgatory

Enterprise Scale Impact









Product and Service Innovation



Service Optimization

~\$40M

service cost savings

~5%

service cost reduction

~\$55M

planned incremental revenue

incremental revenue growth

~10%

Manufacturing Efficiency

~\$50M-250M

revenue increase

~5-10%

operating cost reduction

Engineering Excellence

~\$20M ~5%-10%

EBITDA improvement

Sales and Marketing Experiences

~\$20M

selling cost reduction

~10%

revenue increase

annual cost

Note: Based on a \$5B manufacturer with 24/7 production and capacity constraints







Engineering Excellence



Manufacturing Efficiency Product and Service Innovation



Service Optimization

Financial Value*

Operational Impact

Top Use Cases

Technologies

\$50M-250M

Increase revenue¹

5-10%

Reduce operating cost²

5-60%

Increase worker productivity

5-20%

Increase throughput

5-30%

Increase yield

20-30%

Reduce un<u>planned downtime</u>

Real-time Production Performance Monitoring

Asset Monitoring and Utilization

Digital and Augmented Work Instruction

Connected Work Cell

Predictive Analytics for Quality and Maintenance

Augmented Remote Assistance







CUSTOMER SUCCESS STORIES

Vestas.

BAE SYSTEMS

Obrembo

CIMC

WOODWARD

arlsberg Group



Digital Performance Management





transform how we measure and manage high performing systems

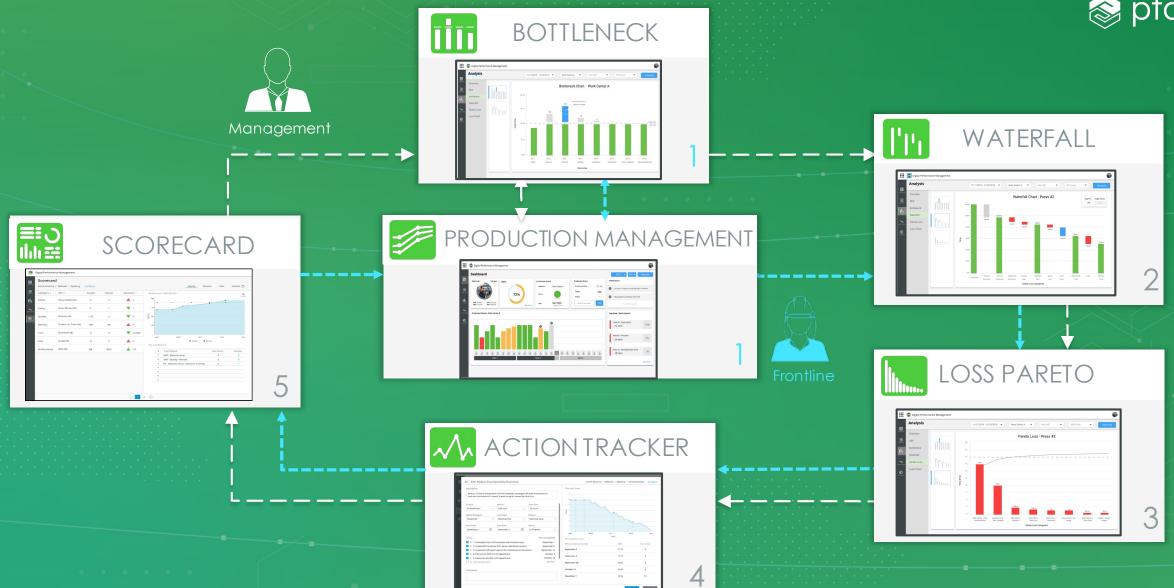




transform your data from high level and lagging to precise and real-time...

...and value creation from diffuse and incremental to prioritized and double digit

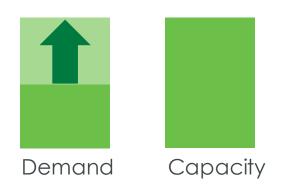




5-20% Increase Throughput Enables ...



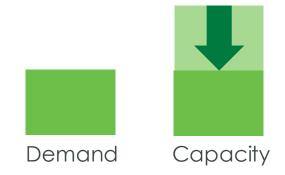
Increase Revenue



~5-20% More Volume ~ \$100+ M

(across 50 plant enterprise ~\$2M per factory)

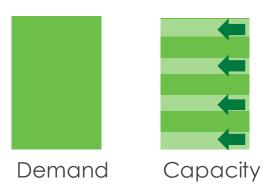
Reduce Operating Costs



~5-20% Less hours ~ \$50 M

(across enterprise 12 hours OT/wk, \$30/Hour, per factory)

Increase Service Level



~5-20% More Changeovers

Shorter lead time
Greater product mix
Higher margin product
Less Inventory/Working Capital

(~1 wk reduction for every 6 wks)



Key Takeaways



loT is strong, healthy, and well positioned for FY'21 PTC developing
Solutions for highest
value use cases to
scale and speed
customer impact

DPM is PTC's first enterprise solution, coming to market in the second half of FY'21



PLM & CAD



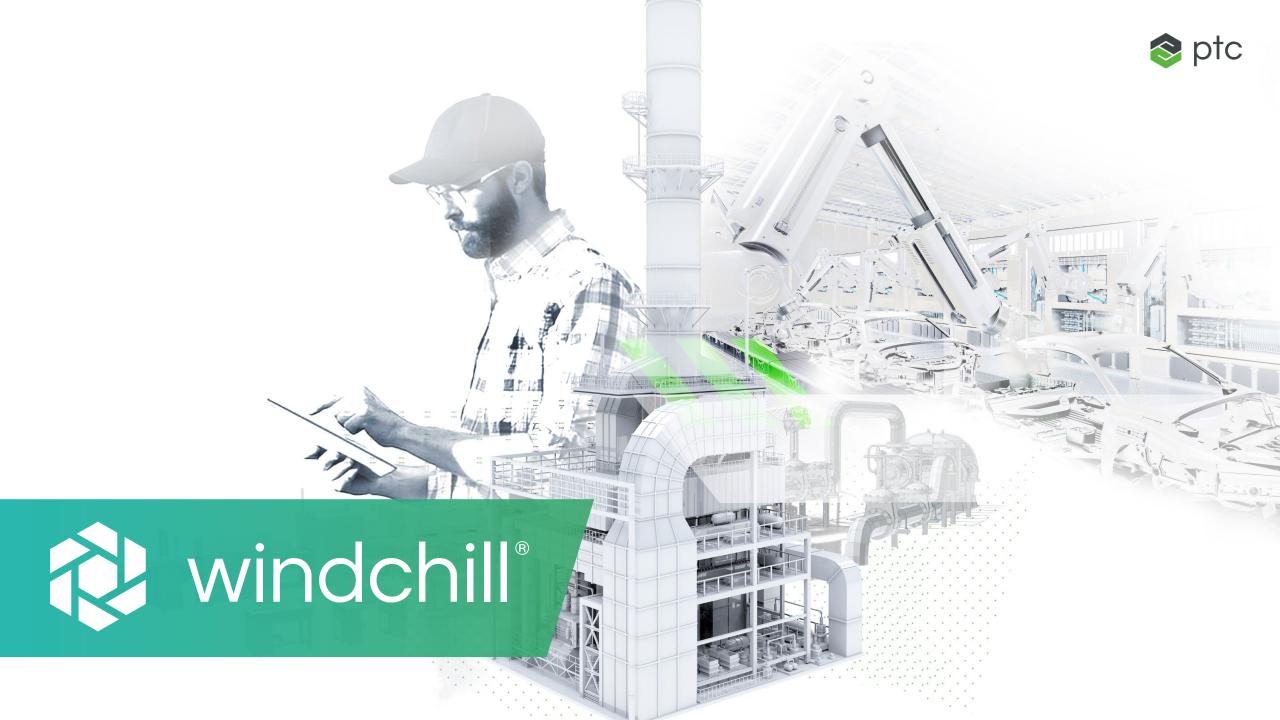
Key Themes Strong Performance

Digital Transformation is Driving Demand

Opportunity in the Base and in Consolidation



Digital Transformation





14% ARR Growth 5% Churn







LOCKHEED MARTIN



THALES







Baxter

JABIL **HEALTHCARE**

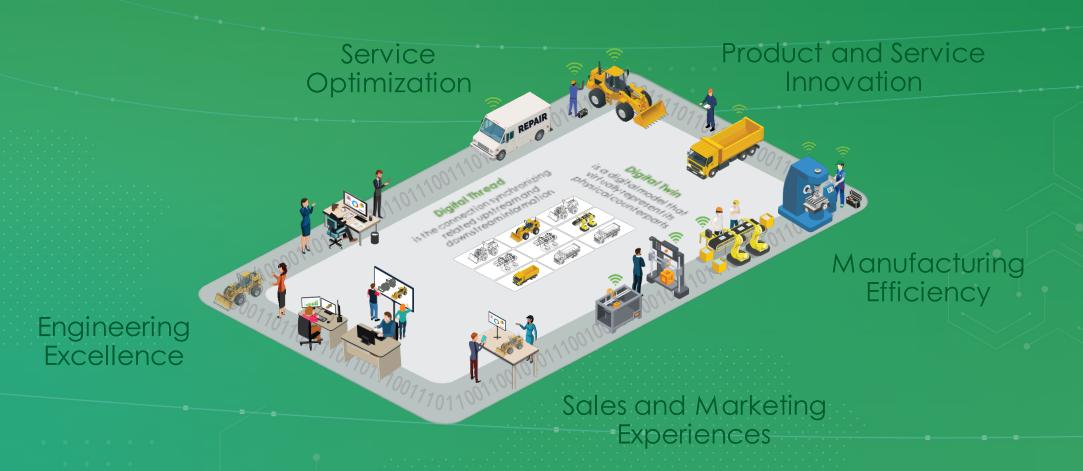
Johnson Johnson





ST. JUDE MEDICAL

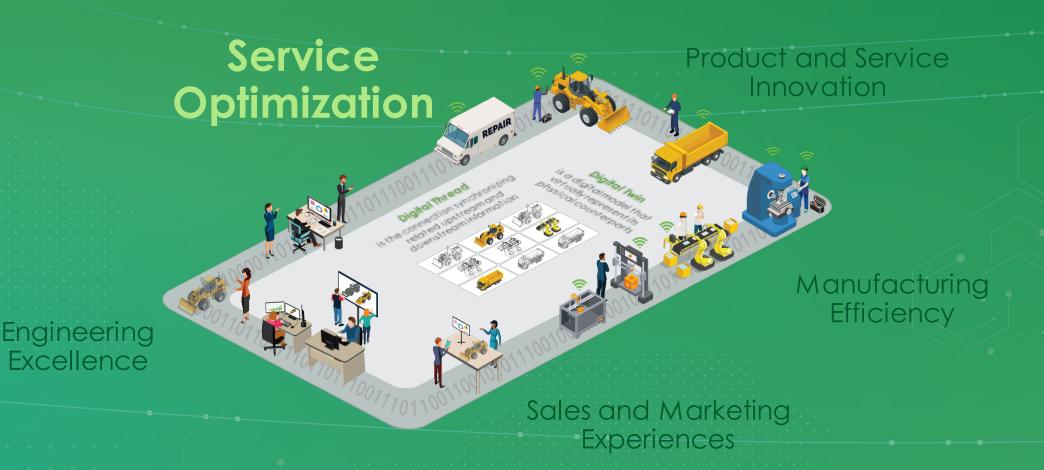


















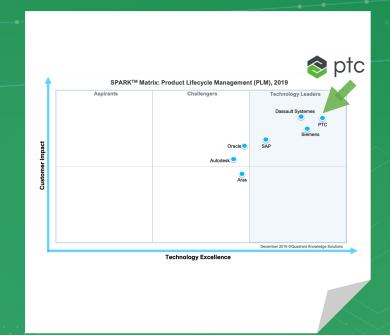


Forrester®









PLM Leader for Digital Transformation

Strongest PLM Solution

Technology Leader in the Global PLM Market



JABIL



increase in number of projects





improvement in first-pass yield





faster Product Development



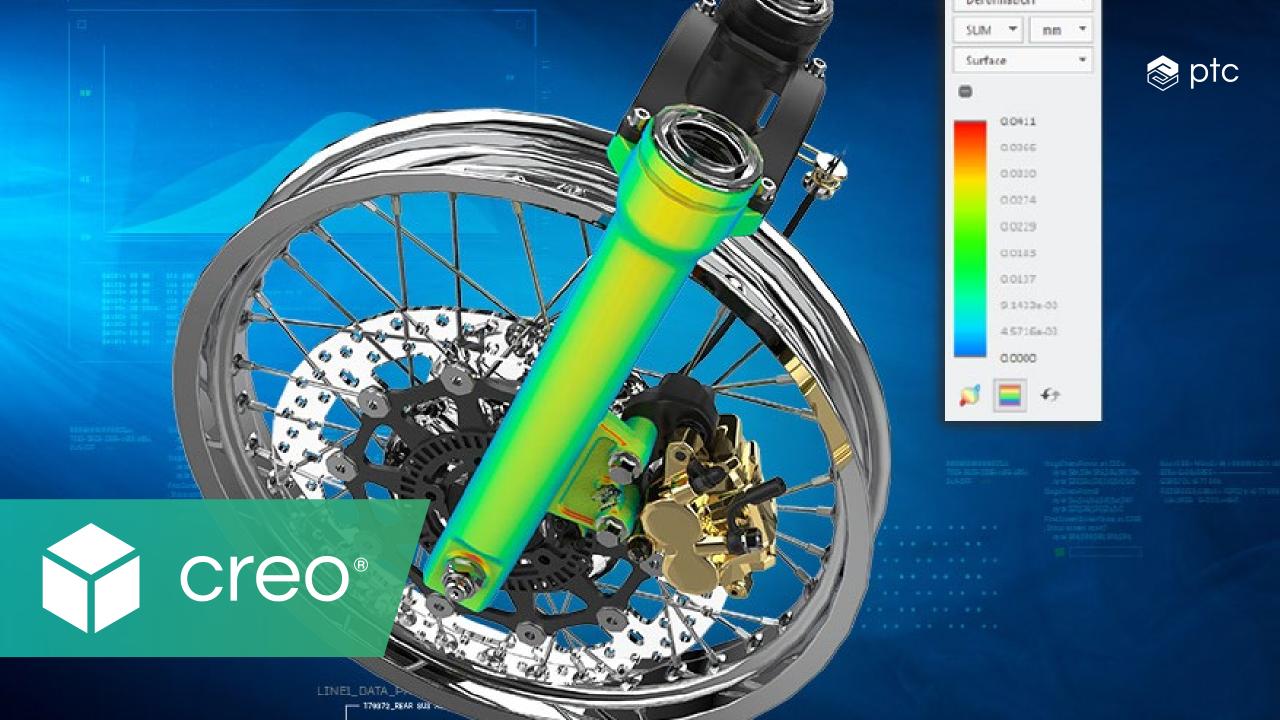


reduction in the cost of poor quality





decrease in time to Industrialization





+8%
ARR Growth

vs. 4%
Market Growth



+7%

Direct ARR Growth +9%

Channel ARR Growth

1,300+

New Customers 6% Churn





Al Dean
Develop3D Editor in Chief

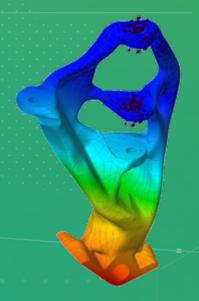
"This, if I'm honest, is one of the most impressive releases of a 3D design and engineering system that I've seen in a good few years."

- Al Dean on Creo 7.0







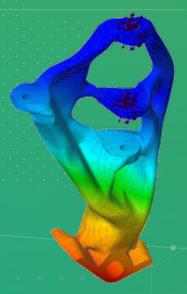


creo® simulation live









creo® simulation live creo® ansys simulation





creo® / ptc® atlas™

Key Takeaways



Strong FY'20 Digital
Transformation
is Driving
Demand

Opportunity in the Base and in Consolidation

Delivering Shareholder Value









Market Demand

Digital Transformation, Remote/Collaboration, SaaS **Top Line**

ARR Growth,
Customer Success

Bottom Line

Opex Discipline, FCF growth

Lifecycle Execution For Sustainable Growth





Drive Top-Line Growth

Drive High **Retention**

A Self-Reinforcing Cycle



Go-to-Market Strategy



Key Themes Our Transformations

Our GTM Orientation

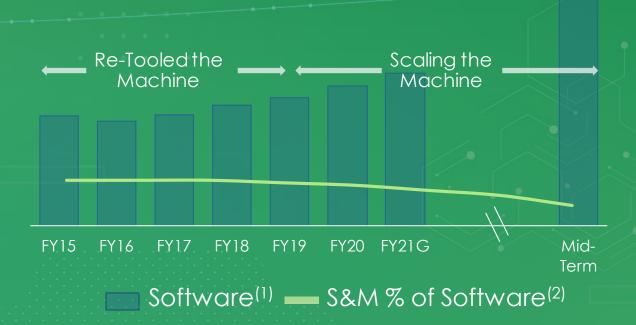
Driving Growth Through Scale

PTC Significant Transformations



- 1. High Growth Markets
- 2. Subscription Model
- 3. Digital
- 4. SaaS Solutions

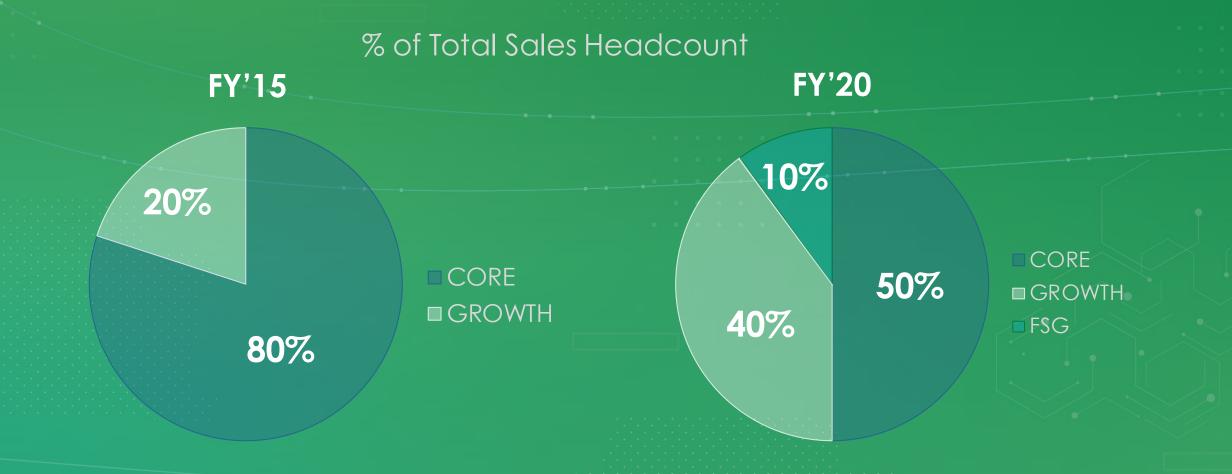




Illustrative purposes only

Re-Tooled Our Sales Engine





...increased Growth Products GTM capacity by over 100% while still driving above-market growth in our Core business

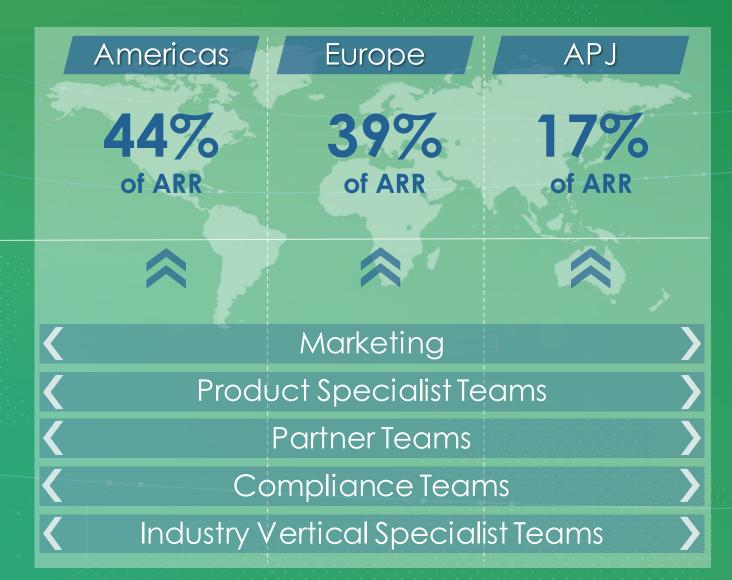
OUR S&M GTM Orientation



Geographic Teams



Horizontal Centers of Excellence



1,300
PTC Sales &
Marketing
Professionals

1,800

Reseller Partner Sales Reps

50+Alliance
Partners

The Right People in the Right Place





Customer-Centric

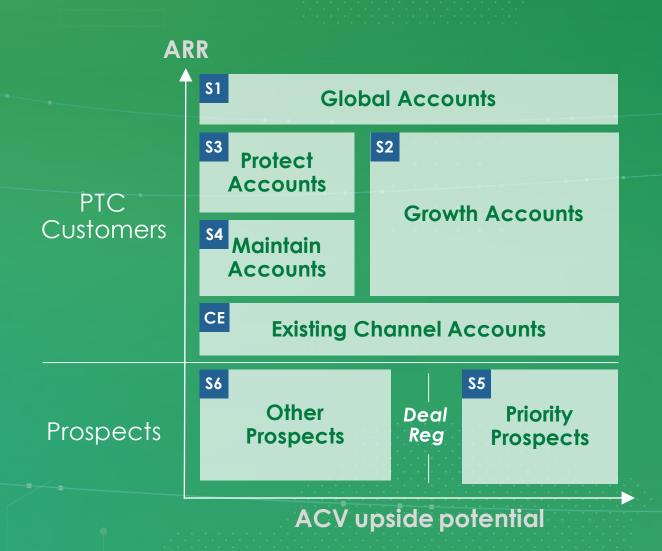


Defined Customer Segmentation

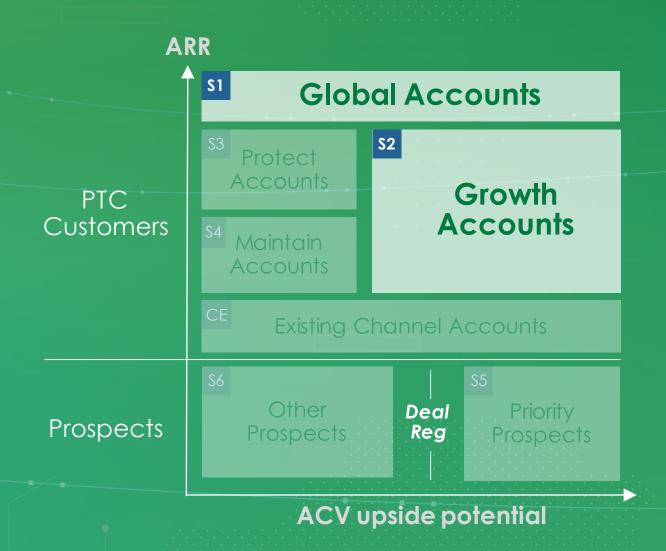


Clear Role Responsibilities

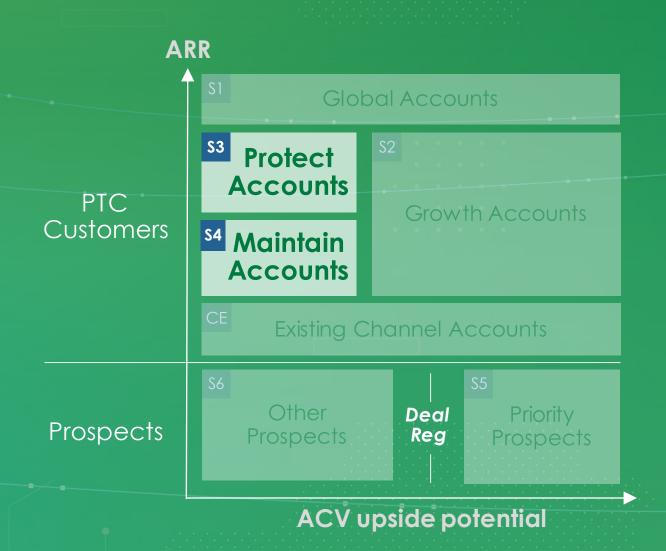




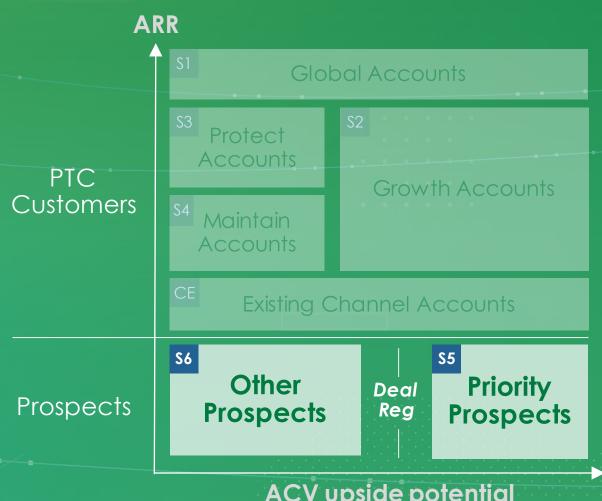






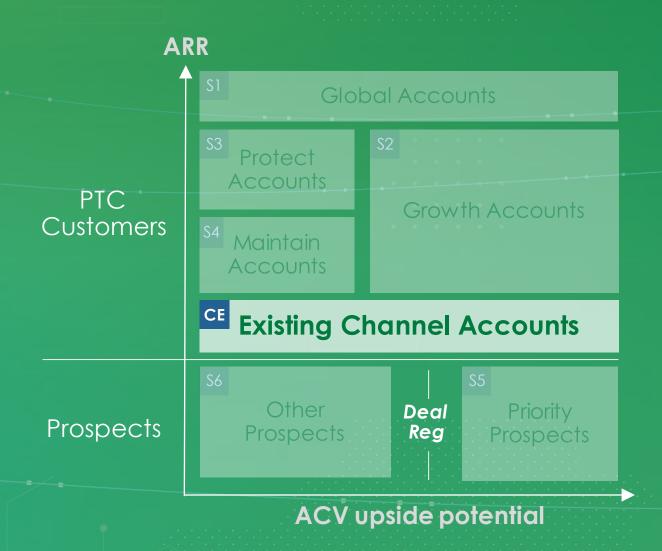






ACV upside potential







Driving Growth Though Scale

Modernized Digital Marketing & Selling



Everywhere. All the time.



- Buyerintent
- Account-based Marketing
- Telemetry data
- Al for predictive selling
- Execution in "PODs"







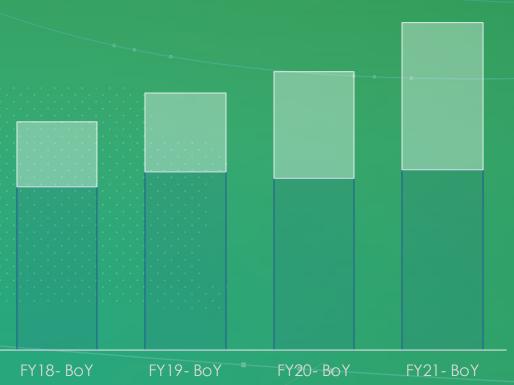




Our Modern Pipeline Engine is Working 🕏 ptc







CORE Growth

- Marketing contributed 30% of pipeline creation in FY'20
- 4Q pipeline growth of ~20% YoY entering FY'21
- FY'21 pipeline provides ample coverage to achieve our bookings plan

Alliance Partners Impacted 30% of New Sales in FY20



Rockwell

has become our largest IOT/AR bookings partner in just 2 years with 1,500 sellers

Microsoft

relationship grew 30% over last year with expansion across IOT, AR and now PLM

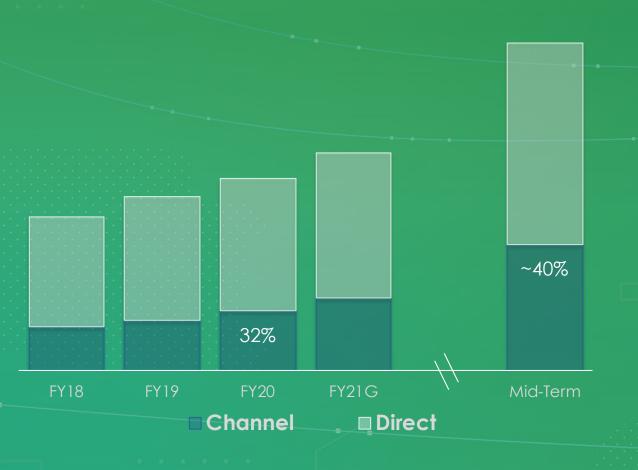


GSIs & Advisory firms assisted with 37% of our IOT deals and 29% of PLM deals in FY20

75% of our top
20 deals in FY20
had one or
more partners
source,
influence or
resell

Winning With Channel Partners

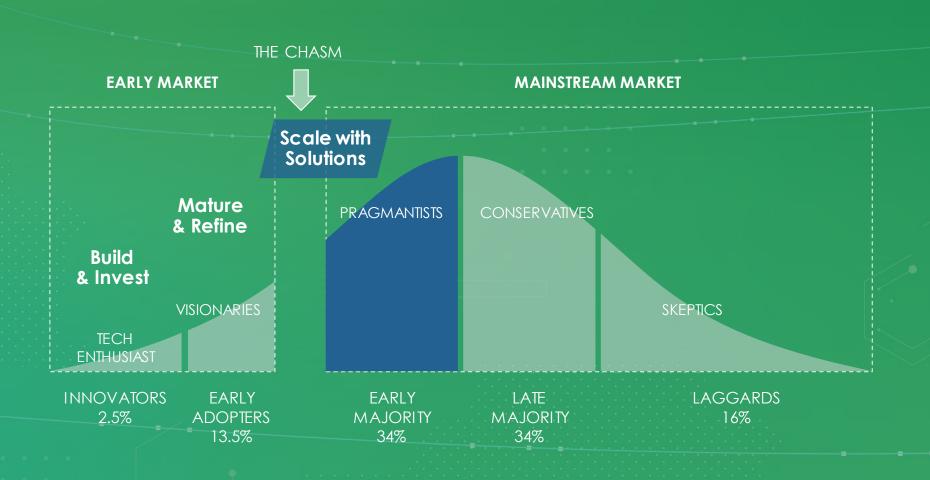




- 32% of ARR in FY'20 growing to ~40%
- Capacity:
 - ~800 Partners (+140% vs. FY'16)
 - ~1,800 Partner Sales Reps (+70% vs. FY'16)

Growth Business Maturing As It Crosses The Chasm In FY'21







Key Themes Our Transformations

Our GTM Orientation

Driving Growth Through Scale

Key Takeaways



Optimized GTM Model

Broad
Partner
Ecosystem

Scalable Growth

Lifecycle Execution For Sustainable Growth





Drive Top-Line Growth

Drive High **Retention**

A Self-Reinforcing Cycle



Customer Success



Scaling Proactive Customer Success

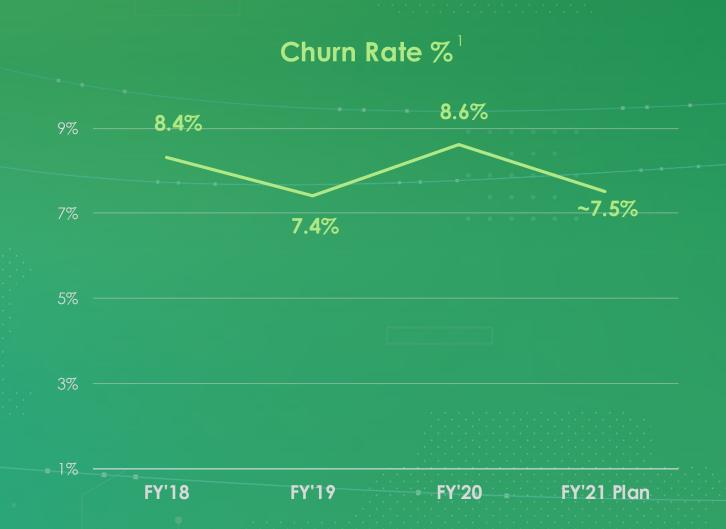
Maximizing Customer Lifetime Value

Elevating the Customer Experience

Key Themes

FY'21 Churn Improvement





Our Mission in Customer Success





Accelerate Our Customers' Success To Go Further Than They Thought Possible

Protect and Grow PTC's ARR

Quick Facts

1,300+

Customer Success Professionals across all Major Geos CSM

Cloud

Customer Experience

Field Services

Renewals

Technical Support

Evolving Customer Success ptc **Pivot to Retention** & Adoption Reactive Response **Customer-Centric Experience Proactive Value** Management Scale & Optimize **Processes** SaaS **Perpetual Subscription & Solutions**



Proactive Customer Success at Scale

Driving Success in FY'21





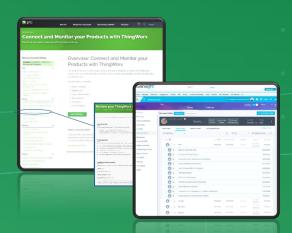
Executing for Growth

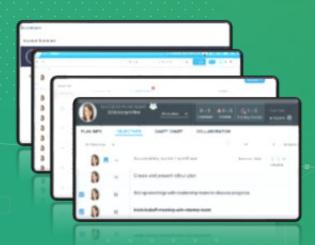




Experience

Engagement







Infrastructure

Coverage



Successful Go-Lives







Hewlett Packard Enterprise





Southwest's valmont of





Maximizing Customer Lifetime Value

Protect and Grow ARR



Commercial Programs Managing the Risk Aligned Execution











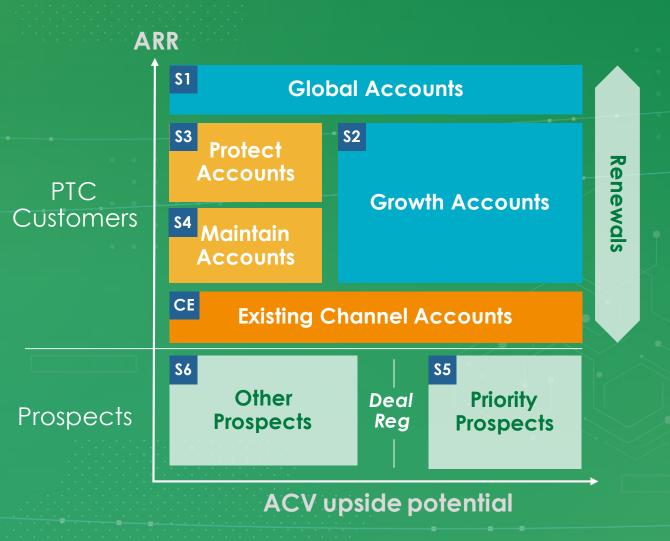
Centralized Strategies



Common Objectives



Tailored Engagement





Strategic Account Sales Managed

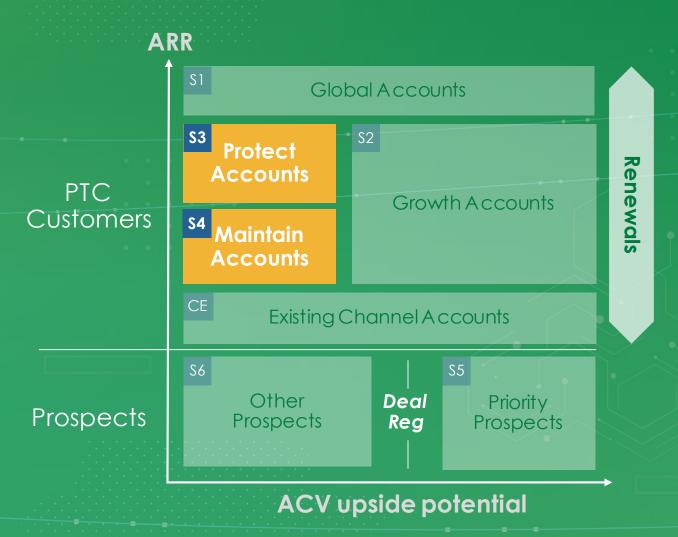
with full suite of expert support

ARR **S1 Global Accounts** \$3 **S2** Protect Renewals Accounts PTC **Growth Accounts** Customers Maintain Accounts CE Existing Channel Accounts Other Deal Priority Prospects Prospects Reg Prospects **ACV** upside potential



Customer Success Managed

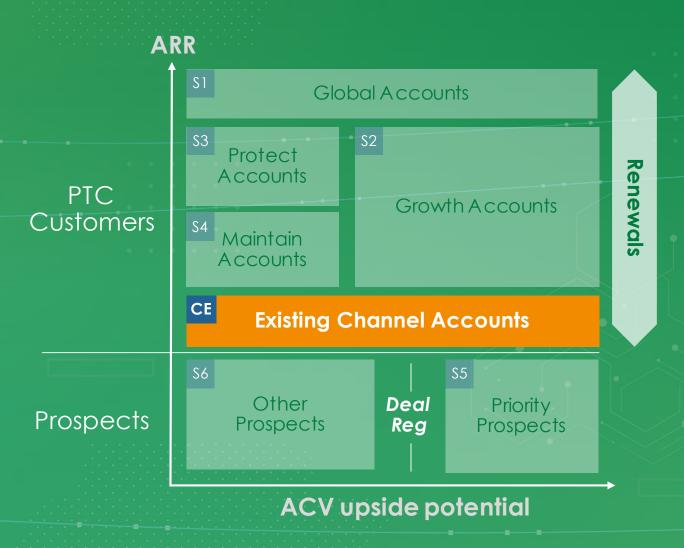
focus on protecting, targeted expansions





Channel Partner Managed

Programmatic and with support to our partner community





Elevating the Customer Experience



Power To Create

values











Customer First

3x

Value delivered by engaged customers in one year

Customer Experience Transformation Office



Aspiration and Purpose



Business Transformation



Critical Enablers



Our Results

Our Results



Mitigating Churn

>8%

100 bps

YoY churn improvement in China

YoY churn improvement in Growth Products

Consistent low churn in Core

Accelerating Expansion

10%

2.2x

Faster Time to Expansion Average ARR expansion

200 bps

More new logos expanding

Improving NPS



"...Always very motivated to solve real problems. They go out of their way to connect you with the right content, right people or right module.".



Key Themes

Scaling Proactive Customer Success

Maximizing Customer Lifetime Value

Elevating the Customer Experience

Key Takeaways



Driving Strong Retention Executing for Growth

Maximizing
Customer Lifetime
Value



Focused Solutions Group (FSG)



Key Themes

Broad FSG Portfolio

Successful Business Framework

Leading Product and Customers

Headwinds, Tailwinds and Look Ahead



Focused Solutions Group

arbortext / classic products group / retail / servigistics / systems & software engineering

Lines of Business

~15% of ARR

Highly Profitable

23 Products ~\$180M ARR

Cloud-First Approach

3,500+ Customers Low Single Digit Growth

BUSINESS FRAMEWORK





Business Units work independently, limit the reliance on PTC ecosystem

Operate healthy bottomline businesses providing funding for other PTC investment areas

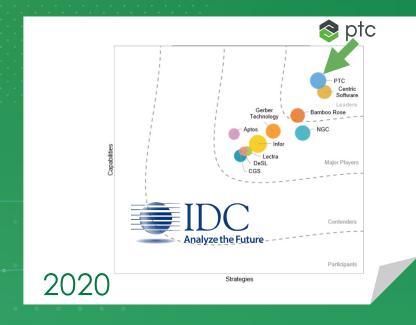
Entrepreneurial mindset



Create loyal longstanding customers

Effective and efficient Execution







Servigistics

cisco















Retail

BURBERRY





















Arbortext



SSE



Johnson "/

Controls























Ontinental **3**

Servigistics







BURBERRY



RALPH LAUREN

Retail















Thermo Fisher SCIENTIFIC











Headwinds

Slower Growth

Markets
(SSE, ATXT, CPG)

COVID-19 (Airlines & Retail)

Large Deal Impact (SVG & Retail)



Tailwinds

Feature-Rich Leading Products Strong Referenceable Customer Base

Cloud First/Stickiness



Outlook

Continued low single-digit growth

High contribution margin

Sustainability

Key Takeaways



Mature Market Leading Solutions

Loyal Customer Base of Industry Leaders

Sustainable FCF Business Framework

Delivering Shareholder Value







Digital Transformation, Remote/Collaboration, SaaS



Top Line

ARR Growth, Customer Success



Bottom Line

Opex Discipline, FCF growth

Delivering Shareholder Value









Market Demand

Digital Transformation, Remote/Collaboration, SaaS

Top Line

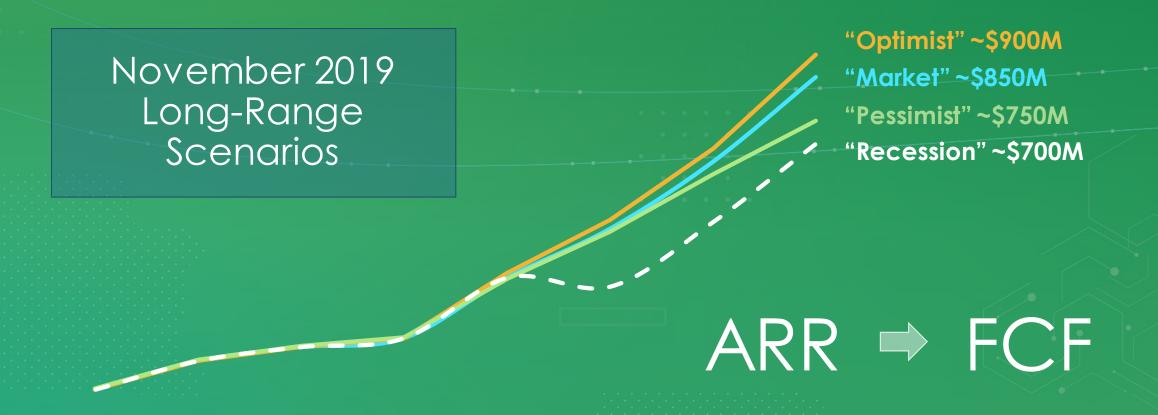
ARR Growth, Customer Success

Bottom Line

Opex Discipline, FCF growth

Range of Strong Outcomes for ARR and FCF





FY17 FY18 FY19 FY20G FY21E FY22E FY23E FY24E



Growth drivers and Opex algorithm intact

Re-affirming ARR and FCF ranges

Go-forward financial guidance to focus on near-term



Key Themes Q1 and FY'21 Outlook

ARR Growth

Margin Expansion

Capital Structure

Outlook



FY'21

ARR growth of 9% to 12% CC

FCF of ~\$340m (+~60% YoY)

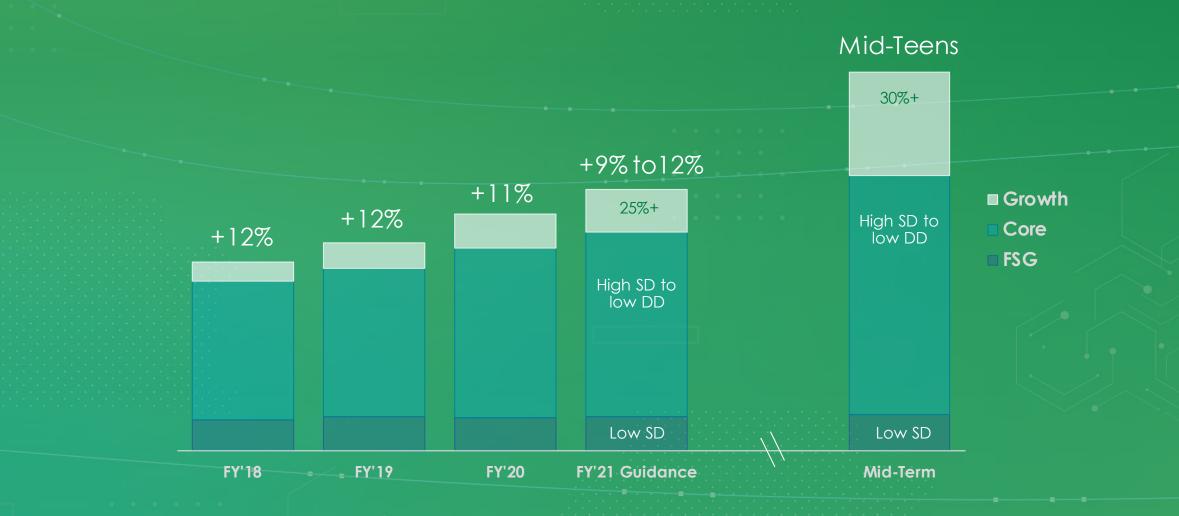
Q1

ARR tracking to midpoint of \$1.28b to \$1.32b guidance range

FCF of \$100m+

Delivering Double-Digit ARR Growth





Growth Products ARR Scaling

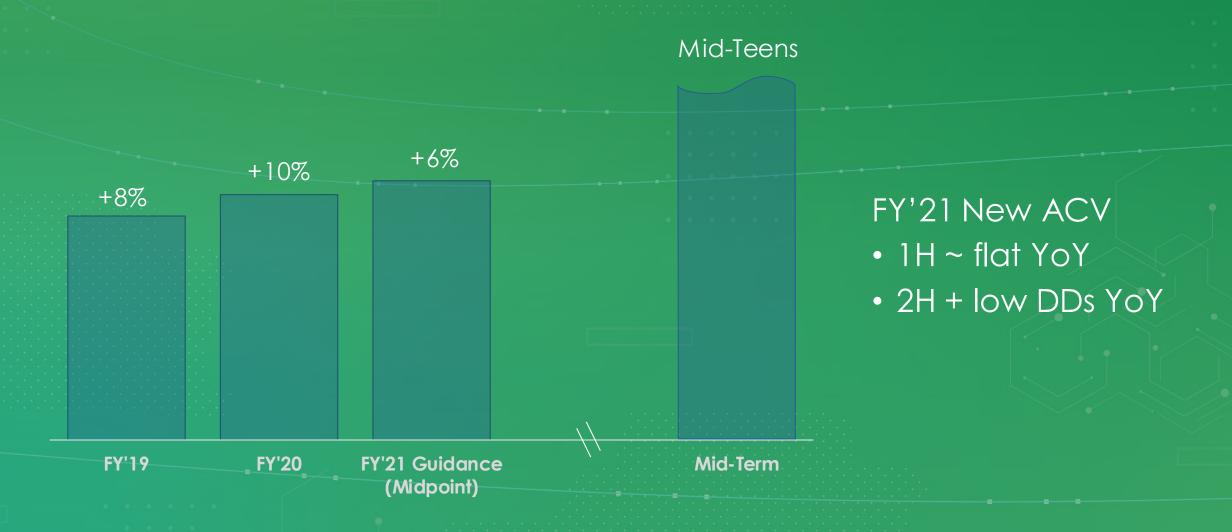




Note: Growth rates in Constant Currency

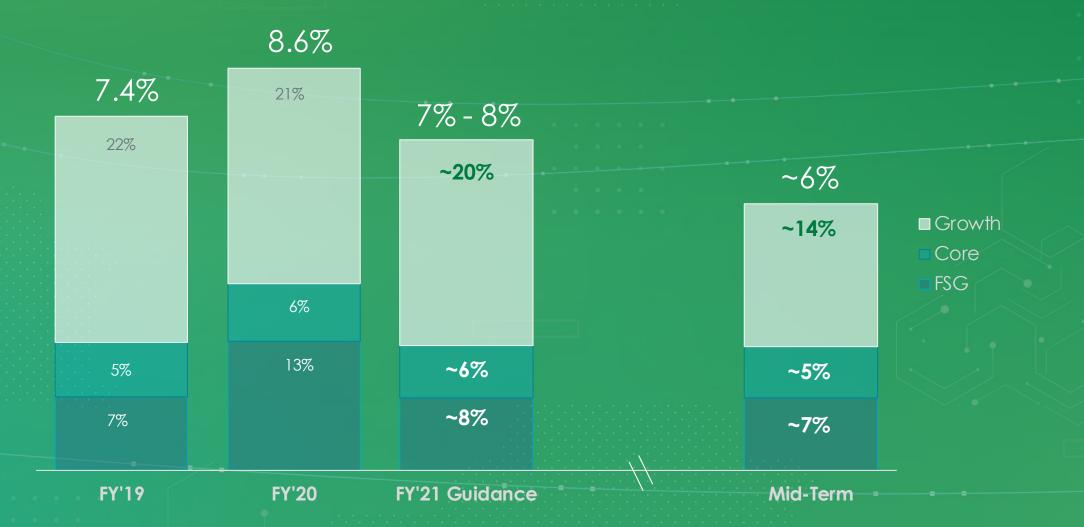
Targeting Mid-Teens New ACV Growth¹ sptc





Targeting ~6% Churn¹





¹Churn = Gross churn net of price increases

Operating Leverage as Business Scales 🕏 ptc



	FY'20 ¹	Mid-Term
Gross Margin	80%	~82%
Sales & Marketing	28%	~24%
R&D	16%	~15%
G&A	8%	~7%
Total PTC	28%	35%+

Attractive Free Cash Flow Growth





Note: Free Cash Flow = Cash from Operations – Capex

Strong Capital Structure



Attractive long-term debt

Aggregate interest rate of 3.8% with long-term maturities

Low Debt/EBITDA ratio

Exited FY'20 at 2.34x leverage

Lean cash balance and ample liquidity

\$335m of cash and marketable securities a/o 9/30/20

~\$1b capacity on revolving credit facility¹

Capital Allocation Framework



Organic Growth Investments

- Targeted GTM
- Strategic R&D
- SaaS (e.g., Atlas)

Enhance Growth through M&A

- Targeted acquisitions
- Deepen Product portfolio
- Enhance SaaS offerings

Return Capital to Shareholders

- Excess capital returned through repurchases
- \$1b authorized through end of FY'23

Key Takeaways



Re-affirming
Mid-Teens
ARR Growth

Strong FCF Growth

Scale Drives Leverage Attractive Capital Strategy

Delivering Shareholder Value









Market Demand

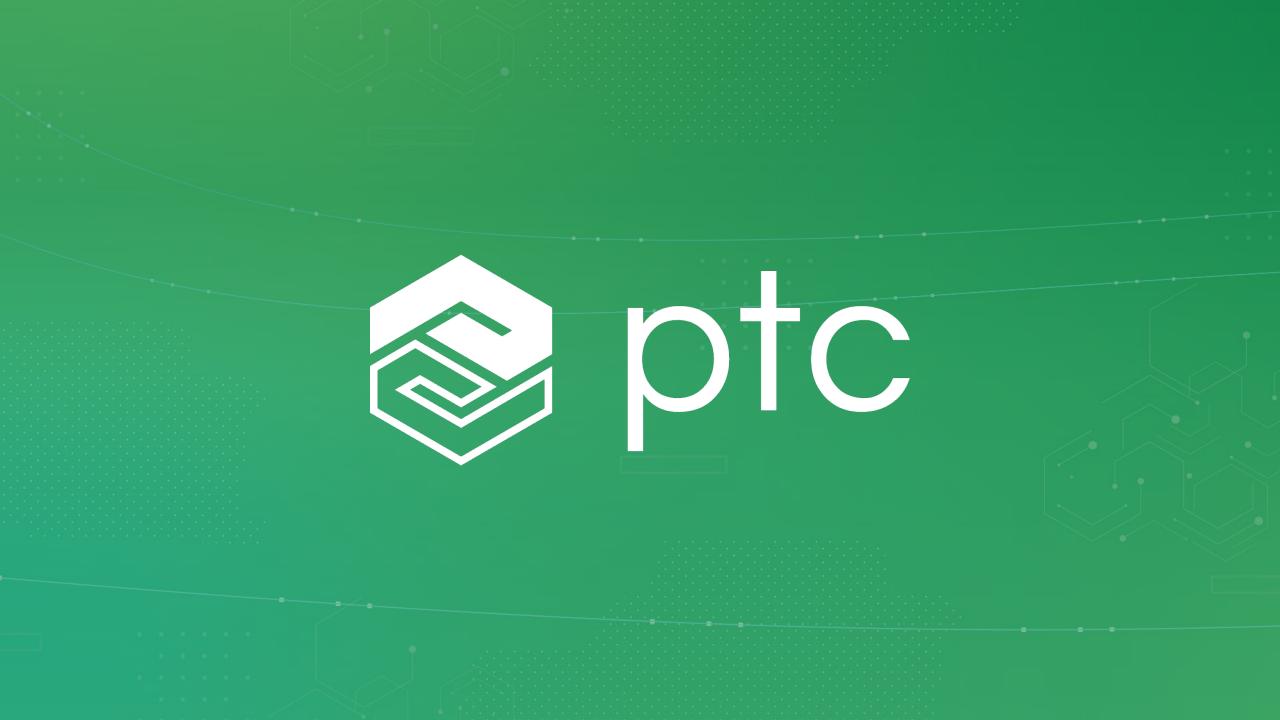
Digital Transformation, Remote/Collaboration, SaaS

Top Line

ARR Growth, Customer Success

Bottom Line

Opex Discipline, FCF growth



FY21 Financial Guidance Summary

In millions except per share amounts	Guidance	YoY
ARR	\$1,385 - \$1,420	9% - 12%
Cash from Operations	~365	~55%
Free cash flow ⁽¹⁾	~\$340	~60%
Revenue	\$1,550 - \$1,600	6% - 10%
GAAP Operating Margin	13% - 14%	~flat
Non-GAAP Operating Margin	28% - 29%	~flat
GAAP EPS	\$1.03 - \$1.23	(9)% - 9%
Non-GAAP EPS ⁽²⁾	\$2.65 - \$2.85	3% - 11%

- (1) Cash from operations and free cash flow include \sim \$15 million of restructuring payments, and free cash flow is net of capital expenditures of \sim \$25 million.
- (2) The FY'21 non-GAAP guidance excludes the estimated items outlined in the table below, as well as any tax effects and discrete tax items (which are not known nor reflected).

In millions	FY21
Intangible asset amortization expense	\$53
Stock-based compensation expense	\$175
Total estimated Pre-Tax GAAP adjustments	\$228

Operating and Free Cash Flow Reconciliation

In millions except per share amounts	FY'1 9 1	FY'20 ²	FY'21 (G) ³	
Free cash flow				
Net cash provided by (used in) operating activities	\$ 285	\$ 234	\$ 36	5
Capital expenditures	(64)	(20)	(25))
Free cash flow	\$ 221	\$ 214	\$ 340)

¹Cash from operations and free cash flow include \$24.7 million of restructuring payments, in 2019

² Cash from operations and free cash flow include \$42.0 million of restructuring payments, in 2020

³ Cash from operations and free cash flow include ~\$15.0 million of restructuring payments, in 2021

Non-GAAP Financial Measures and Reconciliations

PTC Inc.
NON-GAAP FINANCIAL MEASURES AND RECONCILIATIONS (UNAUDITED)
(in thousands, except per share data)

	Three Months Ended		Twelve Months Ended			d			
		September 30, 2020		September 30, 2019		September 30, 2020		September 30, 2019	
GAAP revenue	\$	390,981	\$	335,004	\$	1,458,415	\$	1,255,631	
Fair value adjustment of acquired deferred revenue				192				787	
Non-GAAP revenue	\$	390,981	\$	335,196	\$	1,458,415	\$	1,256,418	
GAAP gross margin	\$	306,366	\$	249,587	\$	1,124,144	\$	930,253	
Fair value adjustment of acquired deferred revenue		-		192		-		787	
Fair value adjustment to deferred services cost		-		(88)		-		(308)	
Stock-based compensation		4,761		3,152		13,969		11,939	
Amortization of acquired intangible assets included in cost of revenue		6,856		6,874		27,391		27,306	
Non-GAAP gross margin	\$	317,983	\$	259,717	\$	1,165,504	\$	969,977	
GAAP operating income	\$	67,012	\$	46,551	\$	210,863	\$	63,042	
Fair value adjustment of acquired deferred revenue	·	-		192	•	-		787	
Fair value adjustment to deferred services cost		-		(88)		-		(308)	
Stock-based compensation		41,544		14,792		115,149		86,400	
Amortization of acquired intangible assets included in cost of revenue		6,856		6,874		27,391		27,306	
Amortization of acquired intangible assets		7,346		6,055		28,713		23,841	
Acquisition-related and other transactional charges included in general and administrative		552		1,895		8,616		3,110	
Restructuring and other charges, net		378		5,650		32,716		51,114	
Non-GAAP operating income ⁽¹⁾	\$	123,688	\$	81,921	\$	423,448	\$	255,292	
GAAP net income (loss)	\$	53,406	\$	9,826	\$	130,695	\$	(27,460)	
Fair value adjustment of acquired deferred revenue		-		192		-		787	
Fair value adjustment to deferred services cost		-		(88)		-		(308)	
Stock-based compensation		41,544		14,792		115,149		86,400	
Amortization of acquired intangible assets included in cost of revenue		6,856		6,874		27,391		27,306	
Amortization of acquired intangible assets		7,346		6,055		28,713		23,841	
Acquisition-related and other transactional charges included in general and administrative		552		1,895		8,616		3,110	
Restructuring and other charges, net		378		5,650		32,716		51,114	
Non-operating charges ⁽²⁾		-		-		18,451		-	
Income tax adjustments ⁽³⁾		(18,295)		29,317		(63,283)		29,719	
Non-GAAP net income	\$	91,787	\$	74,513	\$	298,448	\$	194,509	

Non-GAAP Financial Measures and Reconciliations (cont.)

PTC Inc.
NON-GAAP FINANCIAL MEASURES AND RECONCILIATIONS (UNAUDITED)
(in thousands, except per share data)

	Three Months Ended September 30, September 30, 2020 2019		Twelve Months Ended					
			•		•	ember 30, 2020	September 30 2019	
GAAP diluted earnings (loss) per share Fair value adjustment of acquired deferred revenue Stock-based compensation Amortization of acquired intangibles Acquisition-related and other transactional charges Restructuring and other charges, net Non-operating charges Income tax adjustments	\$	0.46 - 0.35 0.12 - - (0.16)	\$	0.08 - 0.13 0.11 0.02 0.05 - 0.25	\$	1.12 - 0.99 0.48 0.07 0.28 0.16 (0.54)	\$	(0.23) 0.01 0.73 0.43 0.03 0.43 - 0.25
Non-GAAP diluted earnings per share	\$	0.78	\$	0.64	\$	2.57	\$	1.64
GAAP diluted weighted average shares outstanding Dilutive effect of stock-based compensation plans Non-GAAP diluted weighted average shares outstanding		117,097 - 117,097		115,897 - 115,897		116,267 - 116,267		117,724 990 118,714
(1) Operating margin impact of non-GAAP adjustments:		Three Mon	the Endad			Twelve Mor	the Ended	
	Septemi 202	per 30,	Septe	ember 30, 2019		ember 30, 2020	Septe	mber 30, 019
GAAP operating margin		17.1%		13.9%		14.5%		5.0%
Fair value adjustment of acquired deferred revenue		0.0%		0.1%		0.0%		0.1%
Fair value adjustment to deferred services cost Stock-based compensation		0.0% 10.6%		0.0% 4.4%		0.0% 7.9%		0.0% 6.9%
Amortization of acquired intangibles		3.6%		3.9%		7.5% 3.8%		4.1%
Acquisition-related and other transactional charges		0.1%		0.6%		0.6%		0.2%
Restructuring and other charges, net		0.1%		1.7%		2.2%		4.1%
Non-GAAP operating margin		31.6%		24.4%		29.0%		20.3%

- (2) We recognized \$15 million of expense in the second quarter of 2020 related to penalties for the early redemption of the 6.000% Senior Notes due in 2024 and wrote off approximately \$3 million of related debt issuance costs in the third quarter of 2020.
- (3) We have recorded a full valuation allowance against our U.S. net deferred tax assets. As we are profitable on a non-GAAP basis, the 2020 and 2019 non-GAAP tax provisions are being calculated assuming there is no valuation allowance. Income tax adjustments reflect the tax effects of non-GAAP adjustments which are calculated by applying the applicable tax rate by jurisdiction to the non-GAAP adjustments listed above.

Non-GAAP Financial and Operating Measures

PTC provides non-GAAP supplemental financial information to its financial results. We use these non-GAAP financial measures, and we believe that they assist our investors, to make period-to-period comparisons of our operational performance because they provide a view of our operating results without items that are not, in our view, indicative of our operating results. These non-GAAP financial measures should not be construed as an alternative to GAAP results as the items excluded from the non-GAAP financial measures often have a material impact on our financial results and such items often recur. Management uses, and investors should consider, non-GAAP financial measures in conjunction with our GAAP results.

Non-GAAP revenue, non-GAAP operating expense, non-GAAP operating margin, non-GAAP gross profit, non-GAAP gross margin, non-GAAP net income and non-GAAP EPS exclude the effect of the following items: fair value of acquired deferred revenue, fair value adjustment to deferred services cost, stock-based compensation, amortization of acquired intangible assets, acquisition-related and other transactional charges included in general and administrative costs, restructuring and other charges, debt early redemption premium and write-off of issuance costs associated with the extinguished debt and income tax adjustments. We exclude the debt early redemption premium because, although paid in cash in May 2020, it was not modelled in our guidance for the year; excluding it enables investors to view our results in the context of our guidance. Additional information about the items we exclude from our non-GAAP financial measures and the reasons we exclude them can be found in "Non-GAAP Financial Measures" of our Annual Report on Form 10-K for the fiscal year ended September 30, 2020.

Non-GAAP Financial and Operating Measures

Free Cash Flow - PTC also provides information on "free cash flow" to enable investors to assess our ability to generate cash without incurring additional external financings and to evaluate our performance against our announced long-term goal of returning approximately 50% of our free cash flow to shareholders via stock repurchases. Free cash flow is net cash provided by (used in) operating activities less capital expenditures. Free cash flow is not a measure of cash available for discretionary expenditures.

Constant Currency Metric - We present CC information for revenue, EPS, and ARR to provide a framework for assessing how our underlying business performed excluding the effects of foreign currency rate fluctuations. To present CC revenue, current and comparative prior period results for entities reporting in currencies other than United States dollars are converted into United States dollars using the foreign exchange rate as of September 30, 2020, excluding the effect of any hedging, rather than the actual exchange rates in effect during that period.

Operating Measure

ARR - To help investors understand and assess the performance of our business as an on-premise subscription company we provide an ARR (Annual Run Rate) operating measure. ARR represents the annual value of our portfolio of active renewable customer contracts as of the end of the reporting period, including subscription software, cloud, and support contracts. ARR includes IoT and AR orders placed under our Strategic Alliance Agreement with Rockwell Automation and includes orders placed to satisfy contractual quarterly minimum commitments. We believe ARR is a valuable operating metric to measure the health of a subscription business because it captures expected subscription and support cash generation from new customers, existing customer renewals and expansions, and includes the impact of churn, which reflects gross churn, offset by the impact of any pricing increases. Because this measure represents the annual value of renewable customer contracts as of the end of a reporting period, ARR does not represent revenue for any particular period or remaining revenue that will be recognized in future periods.

2020 ARR Growth Rates

Product	Actual	СС
CAD	12%	8%
PLM	17%	14%
Core	14%	11%
FSG	-2%	(4%)
IoT	20%	17%
AR	80%	78%
Growth	34%	32%
Total PTC	14%	11%

Distribution	Actual	СС
Direct	10%	7%
Channel	23%	19%
Total PTC	14%	11%