## famf

The Standard for Apple in the Enterprise

**Investor Presentation: Second Quarter 2021** 



## Safe Harbor

Unless otherwise specified, financial information and other data presented in this presented as of June 30, 2021. The financial results contained herein as of June 30, 2021 and for the three months ended June 30, 2021, June 30, 2020 and June 30, 2019 are unaudited. These numbers are derived from Jamf's unaudited interim consolidated financial statements. The unaudited interim consolidated financial statements and, in the opinion of management, reflect all adjustments, consisting only of normal recurring adjustments, that are necessary for the fair presentation of Jamf's unaudited interim consolidated financial statements. Jamf's historical results are not necessarily indicative of the results that may be expected for the full fiscal year.

#### Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, including but not limited to statements regarding our financial outlook and market positioning. Forward-looking statements give our current expectations and projections relating to our financial condition, results of operations, plans, objectives, future performance and business. You can identify forward-looking statements by the fact that they do not relate strictly to historical or current facts. These statements may include words such as 'anticipate," "expect," "project," "plan," "intend," "believe," "may," "will," "should," "can have," "likely" and the negatives thereof and other words and terms of future operating performance or other events, statements about the potential benefits of the acquisition, possible or assumed business strategies, potential growth opportunities, and the potential value creation as a result of combined offerings.

All forward-looking statements are subject to various risks and uncertainties that may cause actual results to differ materially from those that we expected, including; statements regarding our future financial and operating performance (including our financial conditions and financial conditions are substantial portion of our revenue, our ability to mentary to expense and expense our research and development feforts; changes in our continued relationship with final final portion of current customers; the potential and an advanced and

Additional information concerning these and other factors can be found in our filings with the Securities and Exchange Commission. Given these factors, as well as other variables that may affect our operating results, you should not rely on forward-looking statements, assume that past financial performance will be a reliable indicator of future performance, or use historical trends to anticipate results or trends in future periods. The forward-looking statements included in this presentation relate only to events as of the date hereof. Jamf undertakes no obligation to update or revise any forward-looking statement as a result of new information, future events or otherwise, except as otherwise required by law.

#### **Market and Industry Data**

This presentation includes information concerning economic conditions, the Company's industry, the Company's markets and the Company's including information from independent industry analysts and publications, as well as Jamf's own estimates and research. Jamf's estimates are derived from publicly available information released by third party sources, as well as data from its internal research, and are based on such data and the Company's knowledge of its industry, which the Company believes to be reasonable. The independent industry publications used in this presentation were not prepared on the Company's behalf. While the Company is not aware of any misstatements regarding any information in this presentation, forecasts, assumptions, expectations, beliefs, estimates and projects involve risk and uncertainties and are subject to change based on various factors.

#### **Non-GAAP Financial Measures**

This presentation contains the financial measures Non-GAAP Gross Profit, Non-GAAP Gross Profit Margin, Non-GAAP Gross Profit M

In addition to our results determined in accordance with generally accepted accounting principles in the United States ("GAAP"), we believe the non-GAAP measures are useful in evaluating our operating performance. Certain of these non-GAAP measures exclude stock-based compensation, amortization expense, acquisition-related expenses, acquisition-related earnout, costs associated with our secondary offerings, foreign currency transaction loss, payroll taxes related to stock-based compensation, legal reserve and discrete tax items. We believe that non-GAAP financial information, when taken collectively, may be helpful to investors because it provides consistency and comparability with past financial performance and assists in comparisons with other companies, some of which use similar non-GAAP financial information is presented for supplemental informational purposes only, and should not be considered a substitute for financial information presented in accordance with GAAP and may be different from similarly-titled non-GAAP measures used by other companies. The principal limitation of these non-GAAP financial measures is that they exclude significant expenses that are required by GAAP to be recorded in the company's financial statements. In addition, they are subject to inherent limitations as they reflect the exercise of judgment by the company's management about which expenses are excluded or included in determining these non-GAAP financial measures. Jamf strongly encourages investors review our consolidated financial statements included in publicly filed reports in their entirety and not rely solely on any single financial measurement or communication.

Definitions of Non-GAAP Gross Profit, Non-GAAP Operating Income, Unlevered Free Cash Flow, Non-GAAP Sales and Marketing, Non-GAAP General and Administrative Expenses and reconciliations of these non-GAAP financial measures to the most directly comparable GAAP financial measure can be found at the end of this presentation.



# a jamf



## Jamf - Helping Organizations Succeed with Apple

**53,000+**Active Jamf Customers

23.2mm+
Apple Devices Run Jamf

\$18bn

Total Addressable Market<sup>1</sup>

119%

Dollar-Based Net Retention 50+

Net Promoter Score<sup>2</sup> 96%

Rate Jamf as a Great Workplace<sup>3</sup>

8 out of 10



Top Fortune 500 Companies<sup>4</sup>

23 out of 25



Most Valuable Global Brands<sup>5</sup>

10 out of 10



Largest U.S. Banks<sup>6</sup>

**\$333.0mm / 38%**ARR / Growth<sup>7</sup>

**39%**Revenue Growth<sup>7</sup>

94%

Subscription Revenue

**81%**Non-GAAP Gross
Margin<sup>8</sup>

Non-GAAP Operating Income Margin<sup>8</sup>

26%

TTM uFCF Margin<sup>2,8</sup>



The Standard in Apple Enterprise Management



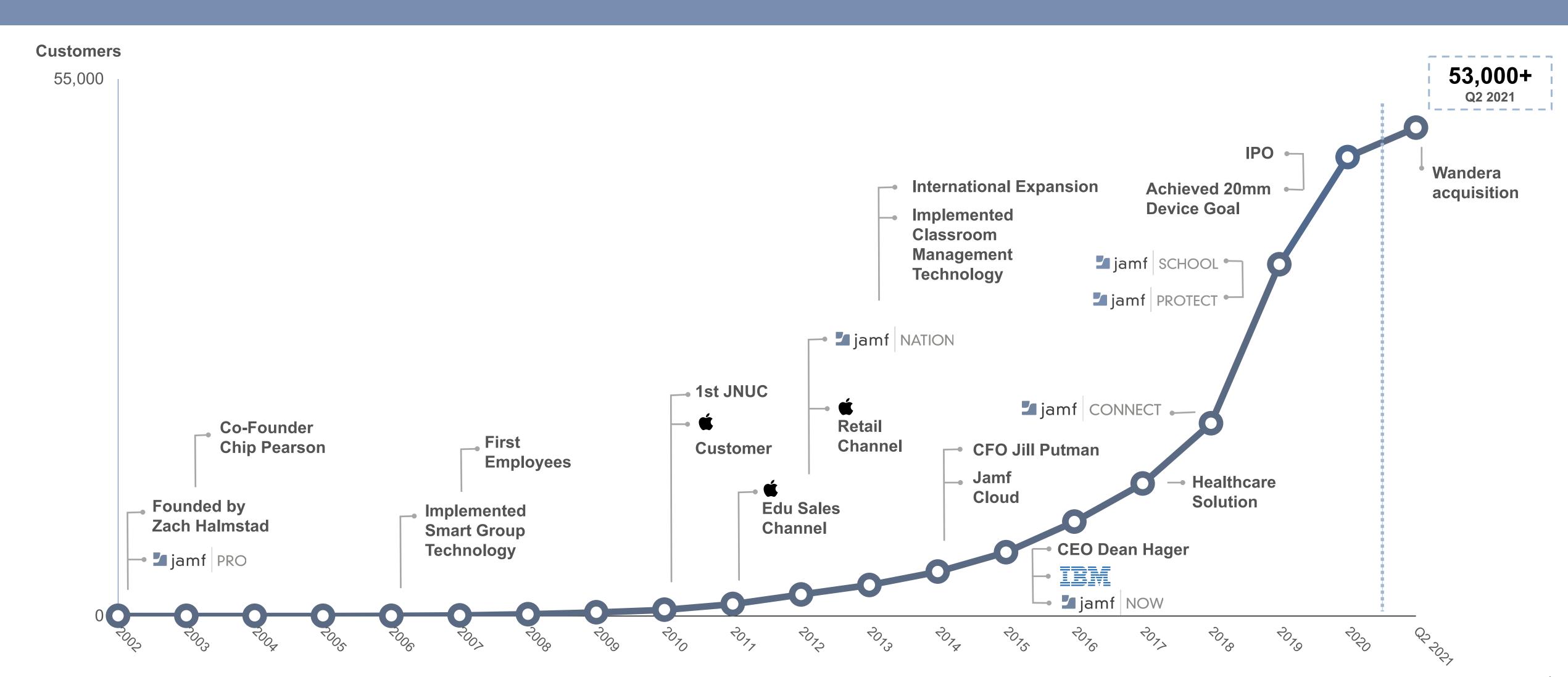
Large and Growing Addressable Market



**Strong and Predictable Financial Profile** 



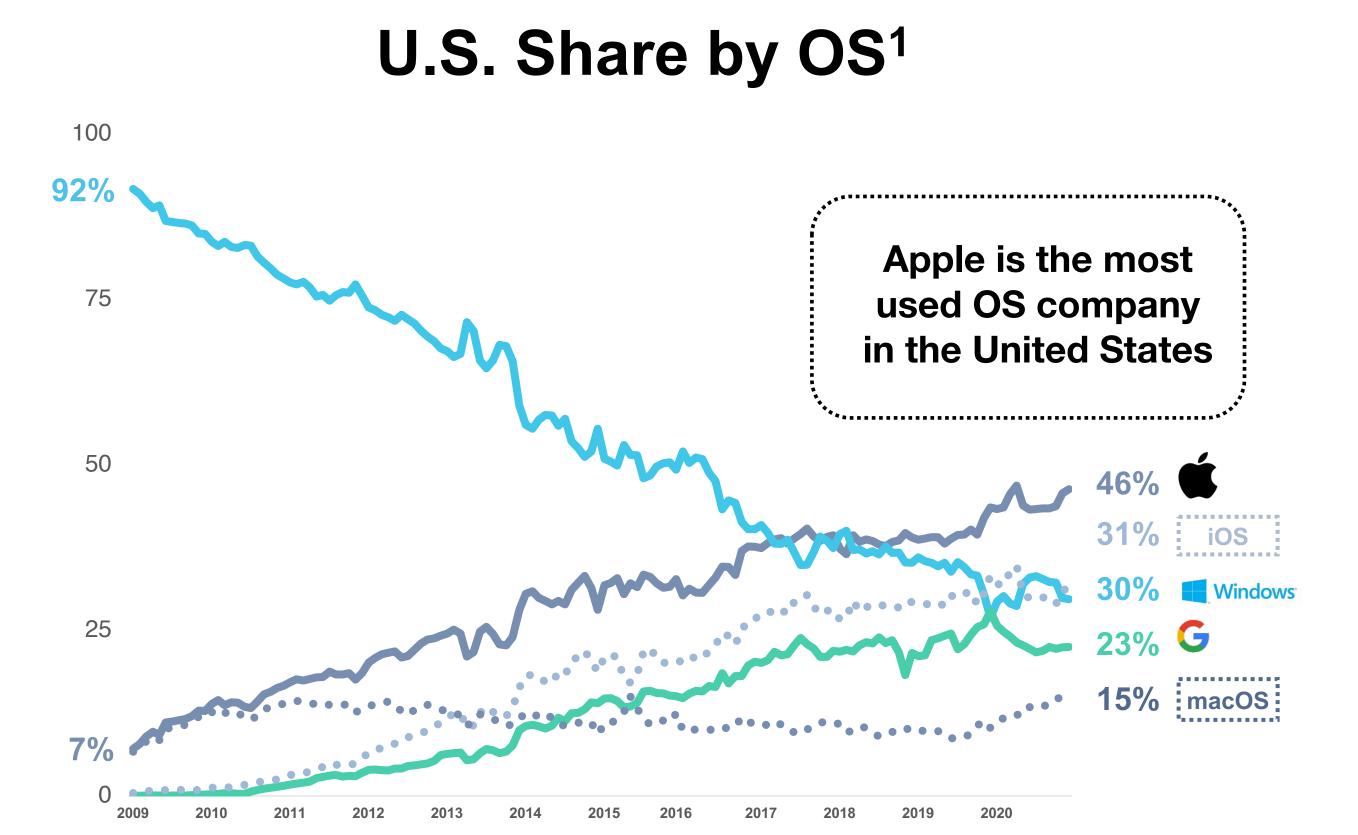
## The Jamf Story





## Apple Market Share in the U.S. and Beyond

**Strong Signs of Continued Growth** 





### Next Gen. Workforce Chooses





71% of college students surveyed would prefer a Mac at work<sup>3</sup>



Calculated as total Internet traffic by operating system for both business and consumer. Data reflects market share within the United States over the time period 1/1/2009 to 12/20/2020. 

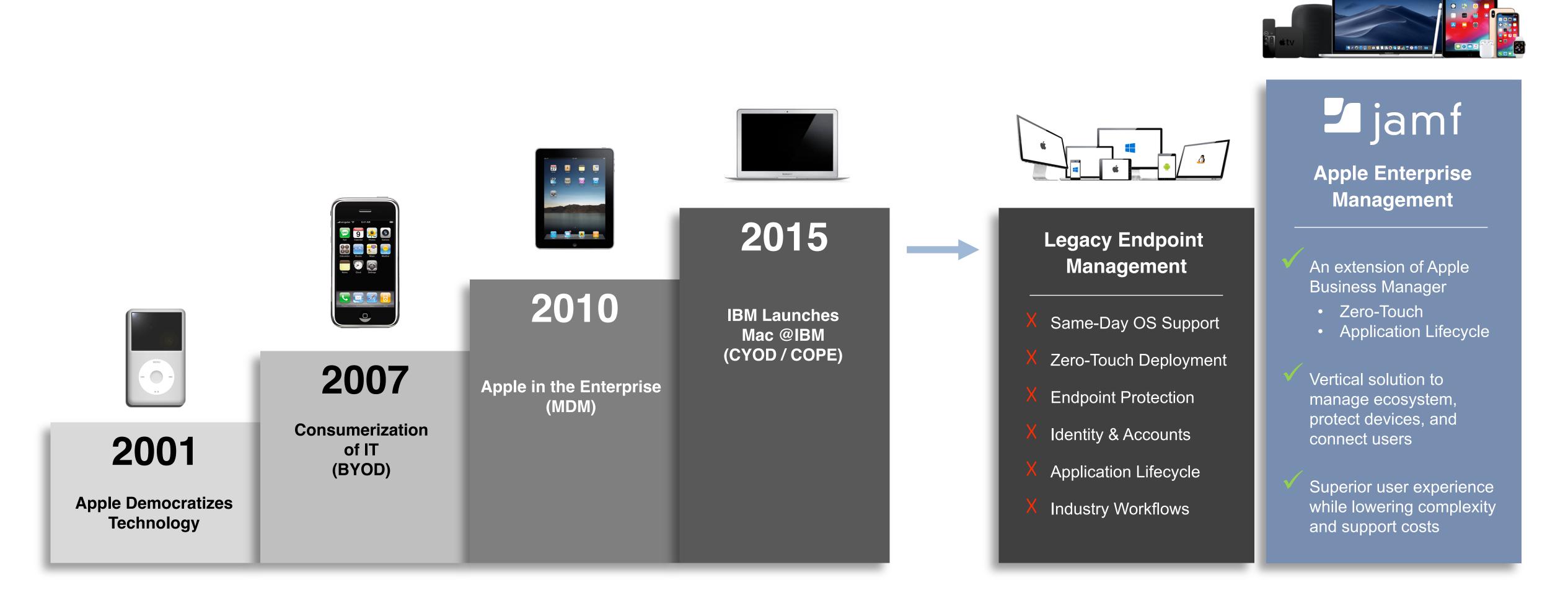
Source: Statcounter.

<sup>&</sup>lt;sup>2</sup> Apple has leading market share in the majority of the Nordic region.

<sup>&</sup>lt;sup>3</sup> Based on a 2019 survey conducted by Vanson Bourne and commissioned by Jamf Software, LLC.



## Jamf Becomes Standard for Apple Enterprise Management





## IT Solutions for the Modern Workplace

		Legacy Solutions	<b>1</b> jamf
19.0	Provisioning and Deployment	Manual, Time-intensive, Inflexible	Zero-touch, Shrink-wrapped Deployment
	Identity-based Resource Access	Device AD-bound or Decoupled from Identity	Streamlined & Singular Cloud-based Identity
	Operating System Updates	Delayed, Vulnerable	Same-Day Compatibility & Features
	Network Risk Management	Intrusive to Privacy, Ineffective for Hybrid Work	Network-aware, Globally-available Content Filtering (Available Across Platforms)
	Application Lifecycle and Licensing	IT-assisted, Resource-intensive, Complex, Middleware-wrapped	Automated, Cloud-delivered, Privacy Preserving, Native with Enterprise App Store
	Endpoint Protection	Windows-centric Facing Apple Deprecation	Architected Apple-native
9 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Self-service	IT Hands-on Service	Empowered Employees Help Themselves



## Jamf's Apple Enterprise Management Platform



## Manage

devices



The Apple management standard. Built for IT pros.



Streamlined device management. No IT required.



Empowering educators with efficient classroom management.

DATA POLICY<sup>1</sup>

iOS-optimized web filtering and cloud analytics.



#### Connect

users



Streamlined Mac authentication and identity management.

#### PRIVATE ACCESS<sup>1</sup>

Zero trust and real-time conditional access for iOS and MacOS.



#### **Protect**

data



Enterprise endpoint protection purpose-built for Mac.

#### THREAT DEFENSE<sup>1</sup>

Mobile threat detection and remediation.



### Complete

the solution

#### EDUCATION

- o Teacher / Student / Parent apps
- Student Safety<sup>1</sup>

#### HEALTHCARE

- Patient Experience
- Clinical Communication
- Virtual Visits

#### X - INDUSTRY

 Setup & Reset for Shared Devices and Workflows

#### DEVELOPER WORKFLOWS

Application Lifecycle

jamf NATION Largest online community for Apple administrators

<sup>&</sup>lt;sup>1</sup> Products and features acquired as part of the Wandera acquisition which closed on July 1, 2021. Further product details on the following slide:



## Wandera Solutions Enhance the Jamf Platform

**Advanced Security and Access Solution for Mobile Devices** 



#### THREAT DEFENSE

#### Mobile Threat Defense (MTD)

- Monitor endpoints for vulnerabilities, from escalated privileges to outdated OSs
- iOS+ app security with static and dynamic analysis; over 90mm total apps supported
- Zero-day phishing prevention with advanced threat intel engine MI:RIAM and in-network protection purpose built for iOS
- Monitor for data leaks and prevent sensitive data loss. Safeguard user privacy.
- Consumer-simple end user app for notifications and remediation

#### DATA POLICY

#### Acceptable Use & Data Limits

- Enforce acceptable use and safe internet policies in the cloud
- Real-time analytics and shadow IT discovery
- Unique context-based policy (by network interface, risk level, location, etc.)
- Zero-touch tamper-proof deployment
- Supports both managed and unmanaged devices
- Data capping provides savings for customers (mobile charges due to data overages)

#### PRIVATE ACCESS

#### Zero Trust Network Access (ZTNA)

- Enables ZTNA for any app in corporate data center or private cloud
- Wireguard protocol optimized for high security and throughput
- Distributed global edge network for super-fast connectivity
- Supports unmanaged devices such as BYOD and contractors
- Lower total cost of ownership and significantly improve user experience vs. legacy VPN





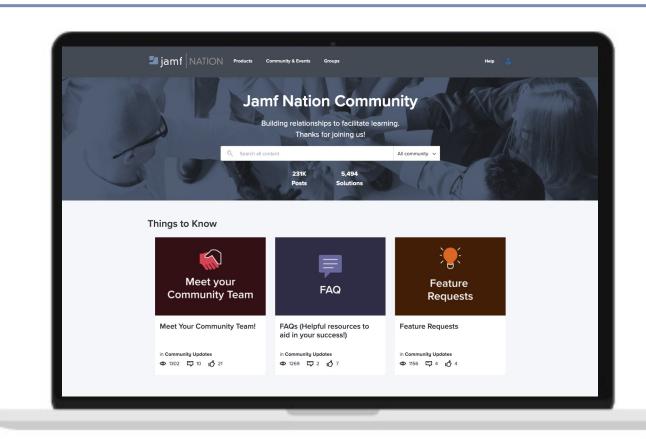




## Jamf Nation and Jamf Marketplace

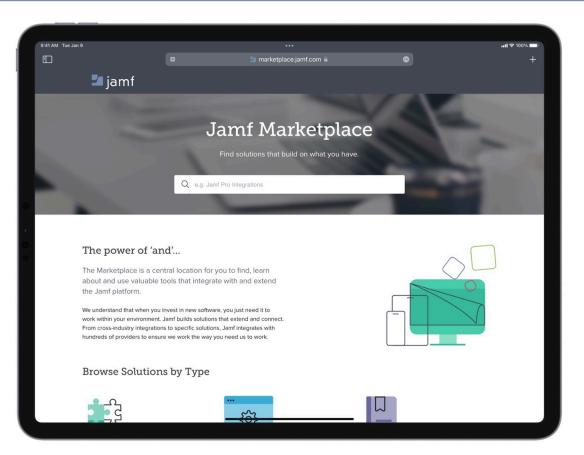
Expanded Ecosystem and Support Strengthen the Jamf Platform and Improve Jamf Efficiency

#### **Jamf Nation**



- Largest online community of Apple IT administrators in the world
- Jamf Nation User Conference (JNUC) is largest Apple IT administrator event
- Builds a social community while improving Jamf efficiency

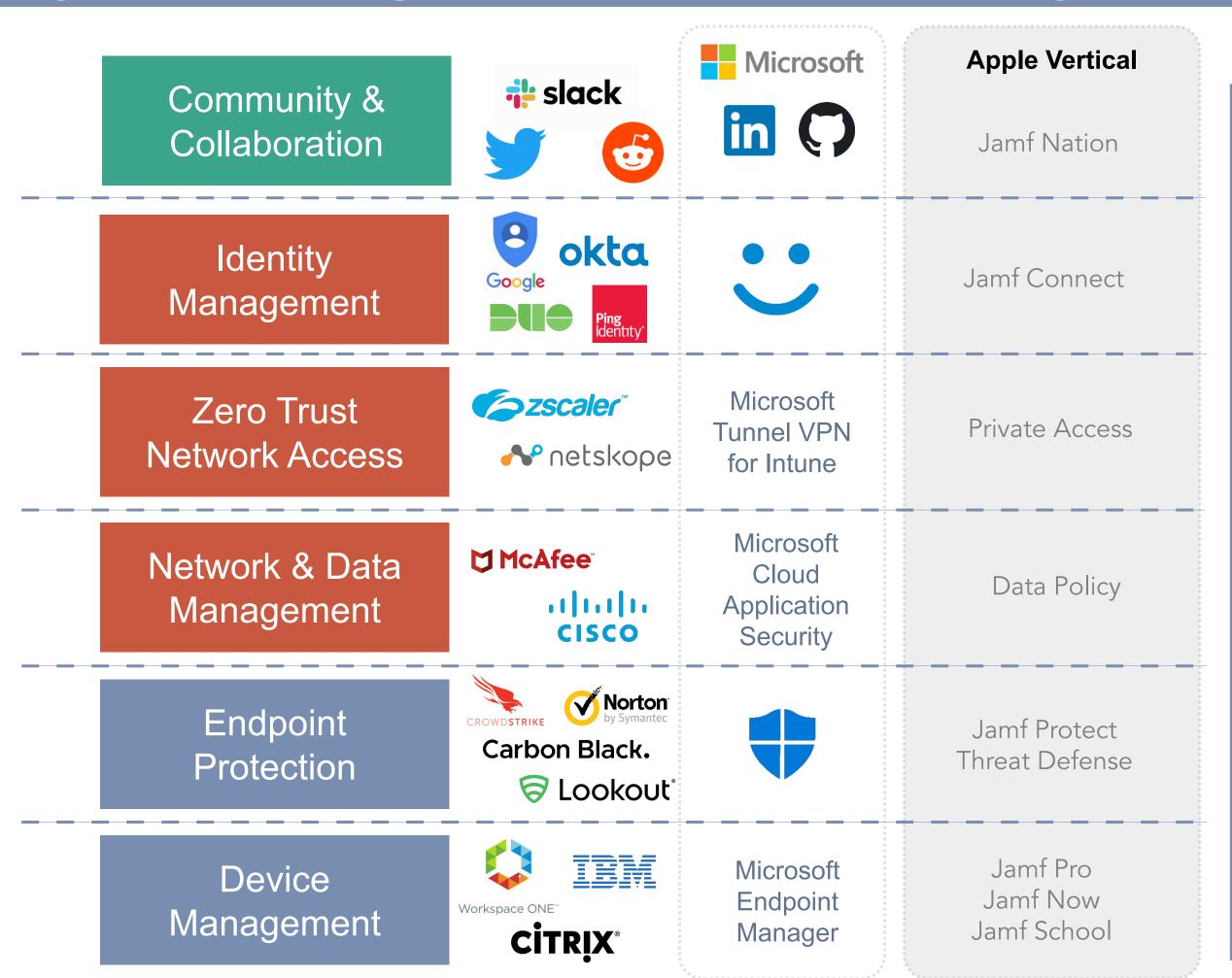
#### **Jamf Marketplace**



- Hundreds of applications, integrations, and partner deployment guides
- Enabled by Jamf APIs, custom configurations, and facilitated by Jamf developer relations
- Evidence of Jamf's market leadership, with significant, sustained traffic and listed application QoQ growth
- Builds a solution ecosystem that strengthens Jamf retention



## Jamf Provides and Realizes Benefits of a Vertical Software Company by Focusing on the Apple Ecosystem



#### **Key Benefits of Vertical Approach**

- Efficient go to market / higher unit economics
- Efficient R&D spend by not being "all things to all people"
- Greater focus and ability to "super serve" a market segment
- Market leader with minimal competition

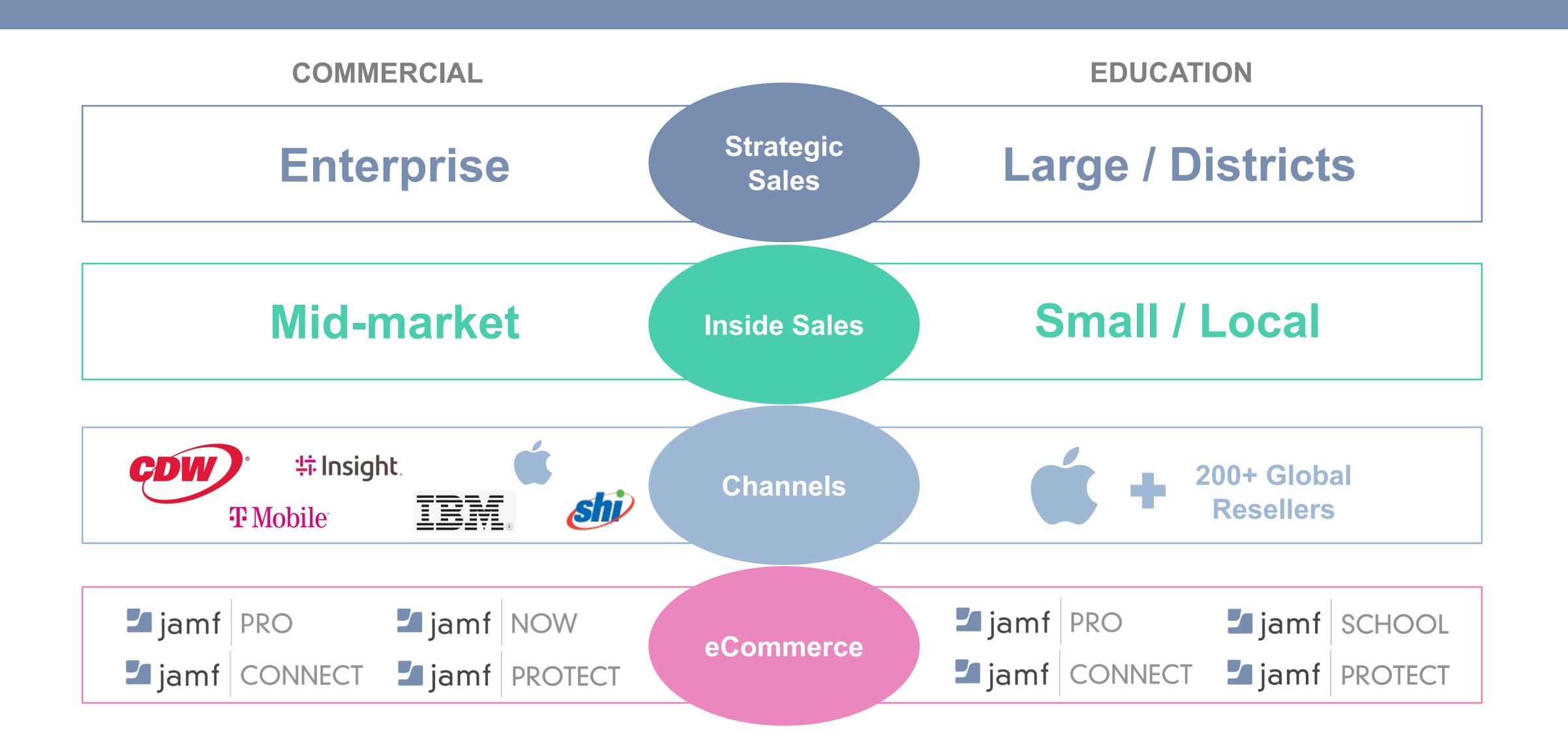


## Our Relationship with Apple





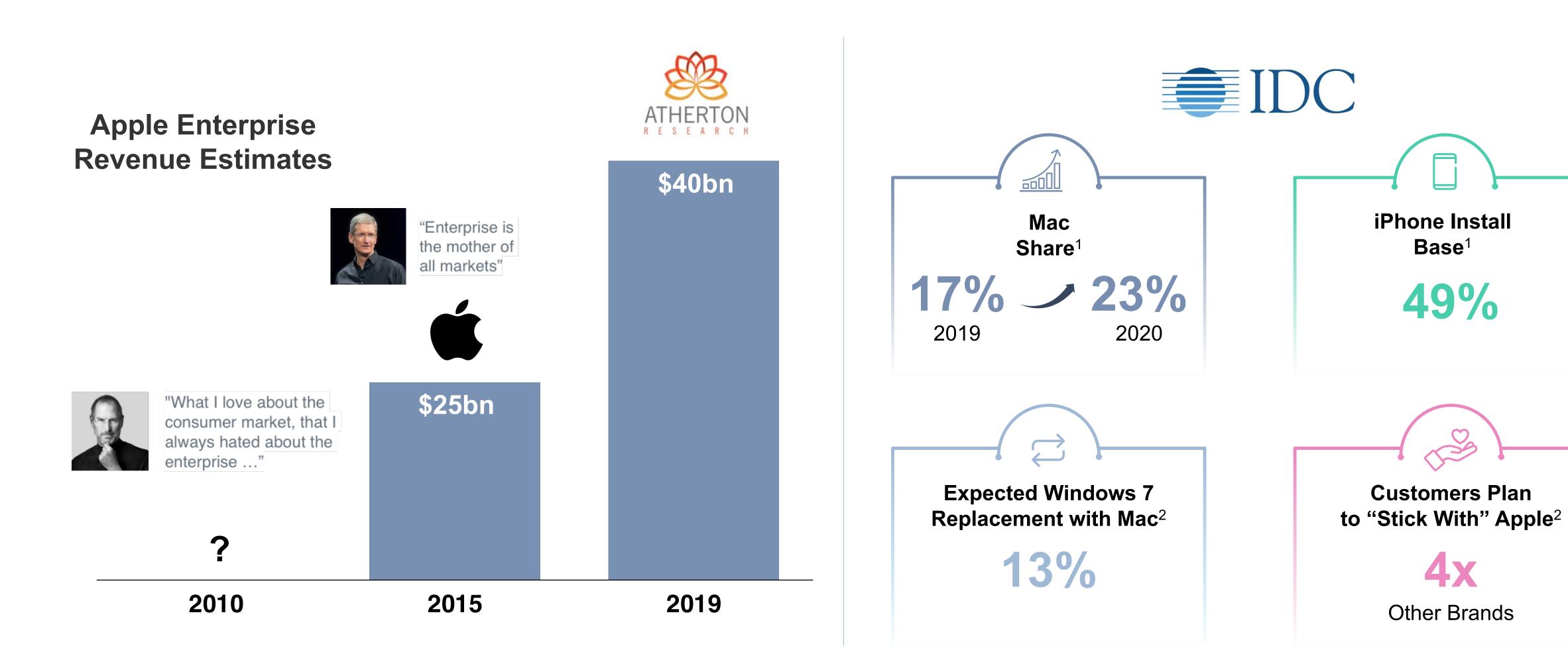
## Effective Go To Market Model





## Apple in the Enterprise

Impact of IT Consumerization, Changing Demographics and User Preference



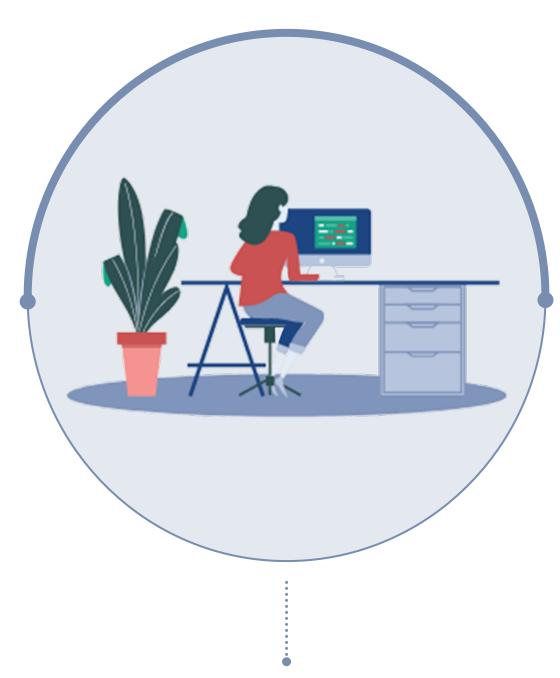
<sup>&</sup>lt;sup>1</sup> Source: IDC MarketScape: Worldwide Unified Endpoint Management Software for Apple Devices 2021 Vendor Assessment.

<sup>&</sup>lt;sup>2</sup> Source: IDC 2019 U.S. Commercial PCD Survey.



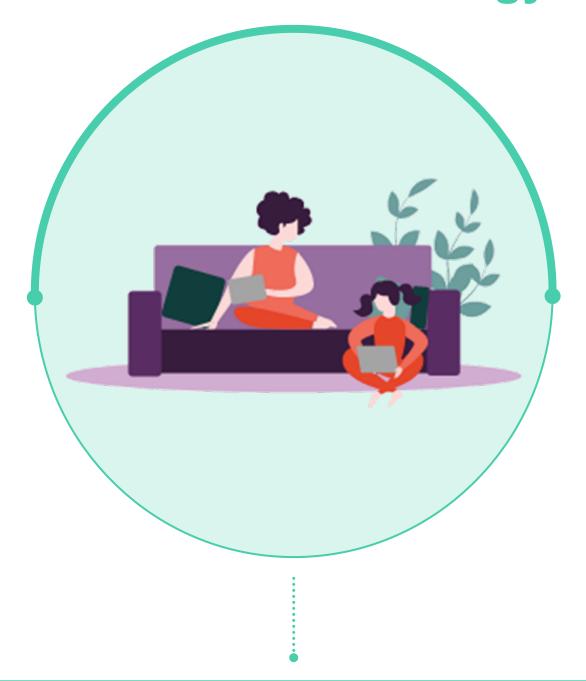
## Digital Transformation Trends

#### **Mobile Work**



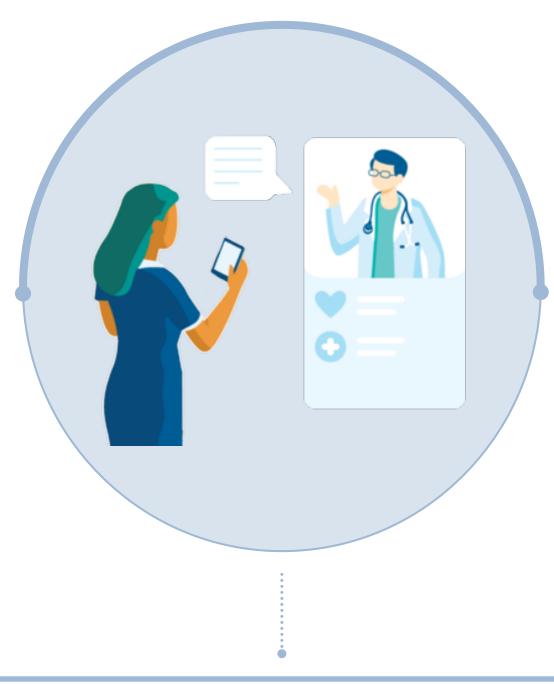
Shipping Apple devices directly to employee homes without IT ever touching them

#### **Education Technology**



Enabling learning both in the classroom and at home, while providing control to teachers and parents

#### **Digital Health**



Using Apple devices to connect care providers to patients in hospital and home in a compliant manner

The COVID-19 pandemic has only added urgency to several fundamental digital transformation trends that already had strong momentum



## **Customer Base**



Valuable Brands 23 of top 25



Top Fortune 500
Technology
7 of top 10



www.

Best U.S. Hospitals 15 of top 20



U.S. Retailers 8 of top 10



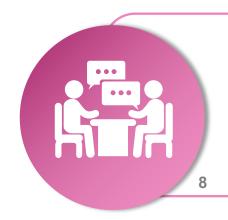
U.S. Banks 10 of top 10



U.S. Media 8 of top 10



Top Fortune 500 8 of top 10



Consulting Firms 8 of top 10



Top Global Universities 10 of top 10



U.S. School Districts
7 of top 10



WW Apparel 8 of top 10

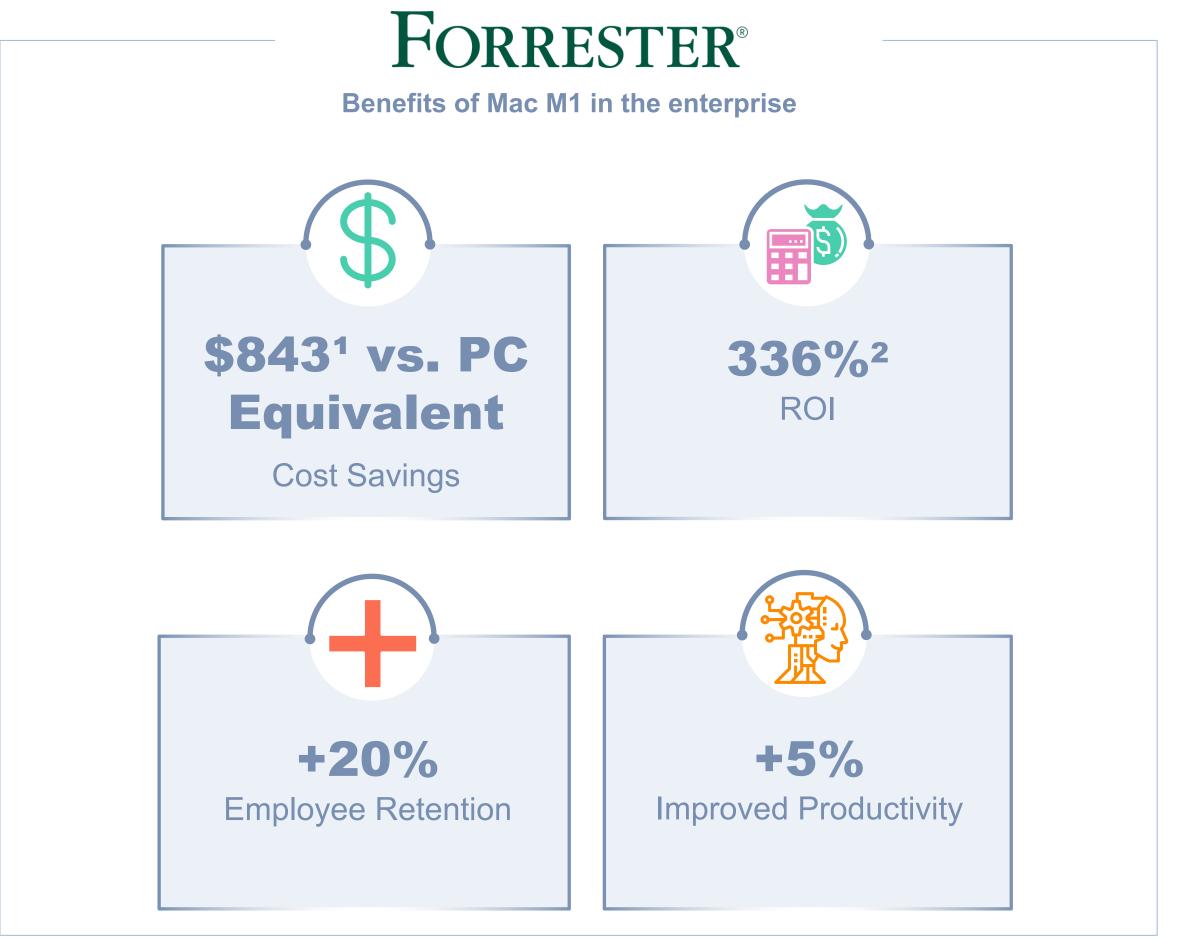


UEM Providers
3 of 3 Gartner
MQ Leaders

<sup>&</sup>lt;sup>1</sup> As ranked by Forbes Most Valuable Brands list as of 6/30/2021. <sup>2</sup> Based on total assets as of 6/30/2021. <sup>3</sup> As ranked by U.S. News and World Report. <sup>4</sup> As ranked by BizVibe. <sup>7</sup> As ranked by National Retail Federation. <sup>8</sup> As ranked by Vault. <sup>9</sup> As ranked by Gartner.



## Substantial Benefits to Enterprises





Note: Based on a 2021 study.

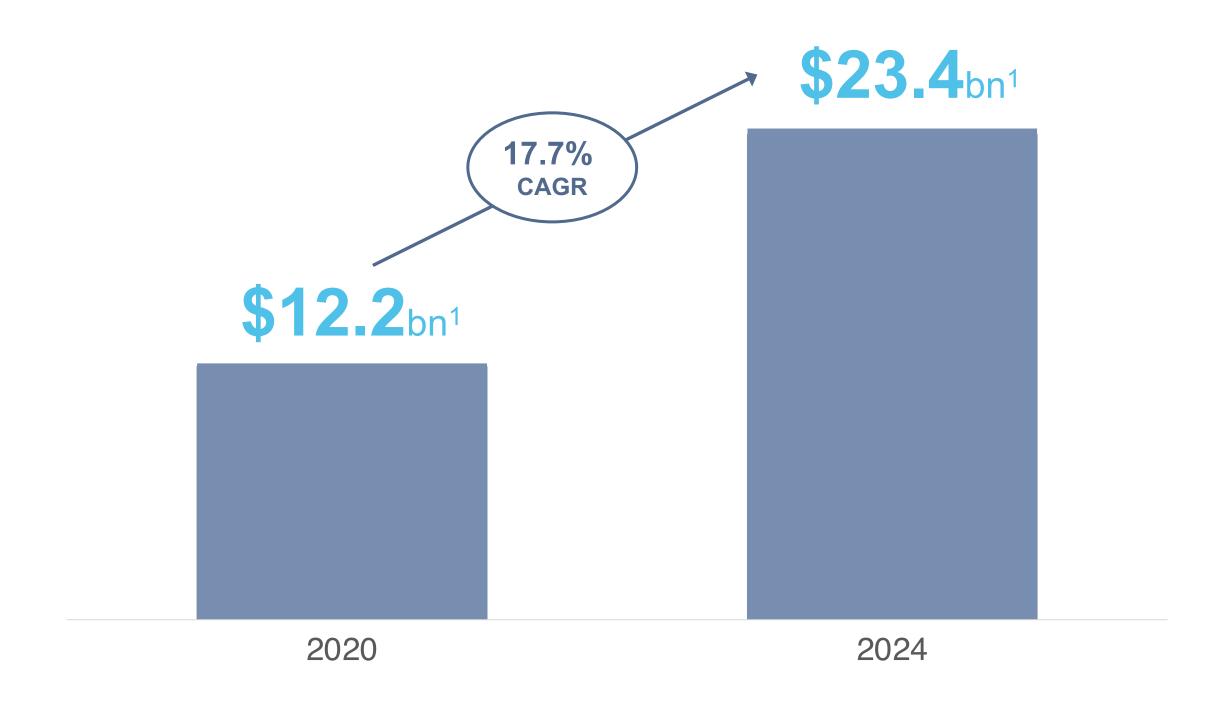
<sup>&</sup>lt;sup>1</sup> Over a 3 year time period, when considering 3-year hardware, software, support and operational costs.

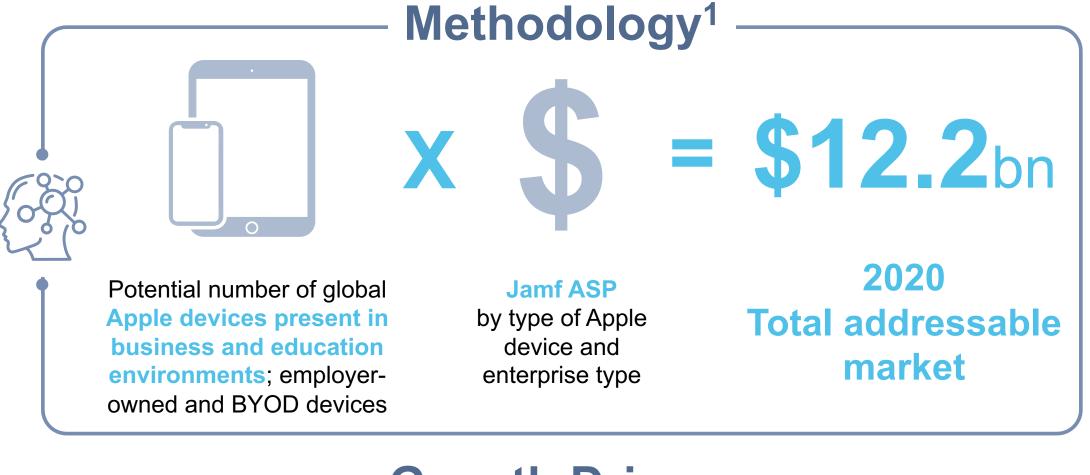
<sup>&</sup>lt;sup>2</sup> Over 3 years.



## Large, Growing Market Opportunity

Reflects market opportunity prior to the Wandera acquisition





#### **Growth Drivers**

- Mac: Enterprise acceptance rates and user preferences
  - Further fueled by Windows 7 replacements
- iPad: Purpose-built industry platform
- iOS: Using a single device for home and work (BYOD or COPE)

<sup>&</sup>lt;sup>1</sup> Sourced from Frost & Sullivan.



## Wandera Acquisition Expands Total Addressable Market by \$6B



+

\$5bn

+

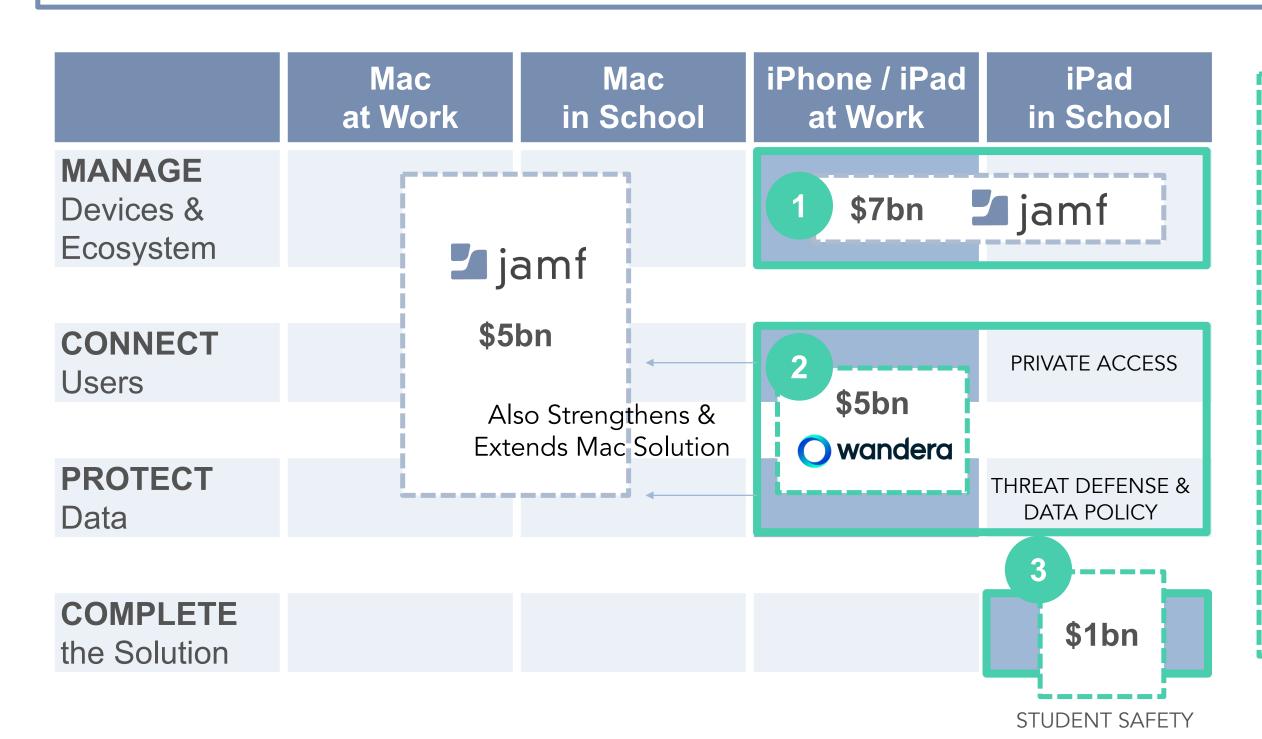
\$1bn

\$18bn

jamf 2020 TAM

WANDERA in COMMERICAL MARKETS

STUDENT SAFETY



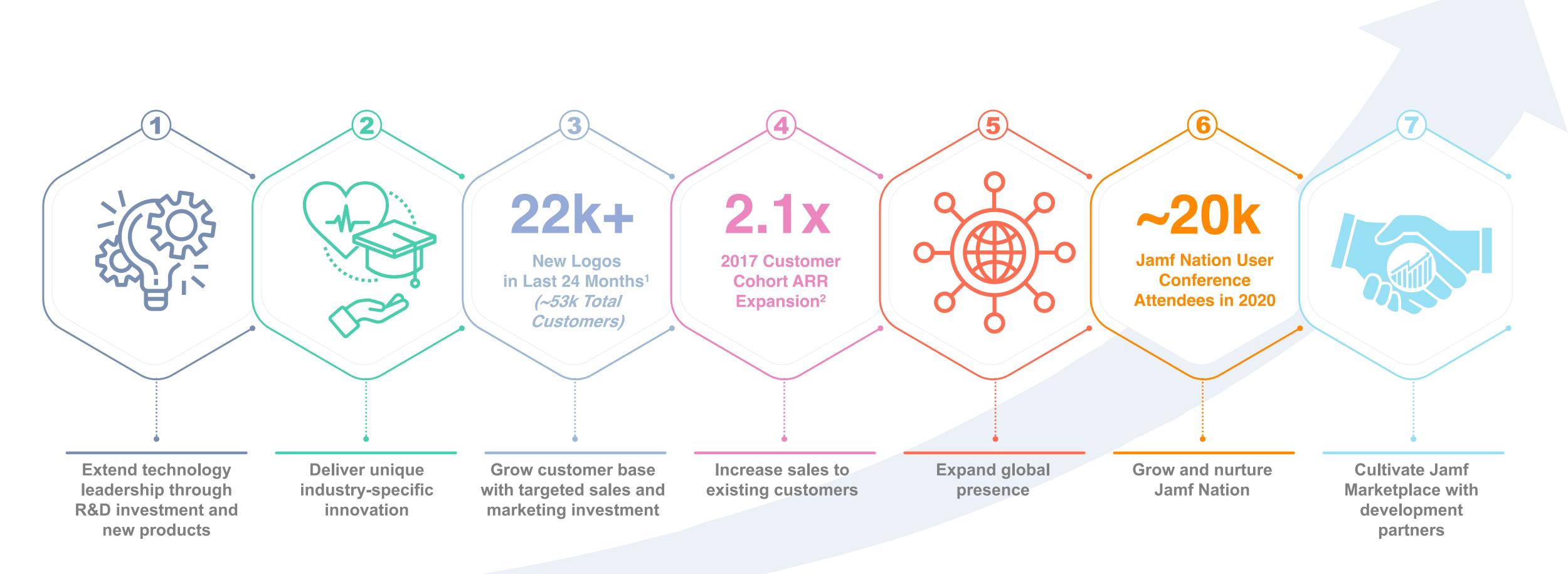
#### **Strengthen and Expand TAM**

- 1. Strengthen Commercial iOS device management competitiveness (existing \$7bn TAM)
- 2. Grow TAM by \$5bn through iOS expansion to Security & Access management
- 3. Grow Education TAM by \$1bn through offering student protection solution

Sourced from Frost & Sullivan.



## Multiple Drivers of Future Growth



<sup>&</sup>lt;sup>1</sup> Represents the period from 7/1/2019 to 6/30/2021. Excludes new logos acquired via acquisitions, <sup>2</sup> Represents the ARR expansion from the 2017 cohort over the period from 12/31/2017 to 12/31/2020. The 2017 cohort is defined as the customers who first purchased Jamf subscription software between 1/1/2017 and 12/31/2017.



## Jamf Management Team



John Strosahl
Chief Operating Officer
(5 yrs.)





Jason Wudi Chief Technology Officer (15 yrs.)

University of Wisconsin Eau Claire



Dave Alampi
Chief Marketing Officer
(6 yrs.)

KrollOntrack infor
Digital River



Dean Hager
CEO
(6 yrs.)
KrollOntrack
LAWS®N\*



Jill Putman
CFO
(7 yrs.)





Jeff Lendino
Chief Legal Officer
(3 yrs.)

VICEO KrollOntrack



Sam Johnson
Chief Customer Officer /
Chief of Staff
(13 yrs.)

Campbell Mithun

University of Wisconsin

Eau Claire



## Financial Highlights: Second Quarter 2021



Strong growth at substantial revenue scale





Highly recurring business model



39%
Revenue
Growth<sup>1</sup>

38% ARR Growth<sup>1</sup>

94% Subscription Revenue



Strong land-and-expand opportunity

Profitable, with further operating leverage

Expanding Profitability<sup>1</sup>

26%
TTM uFCF
Margin<sup>2,3</sup>

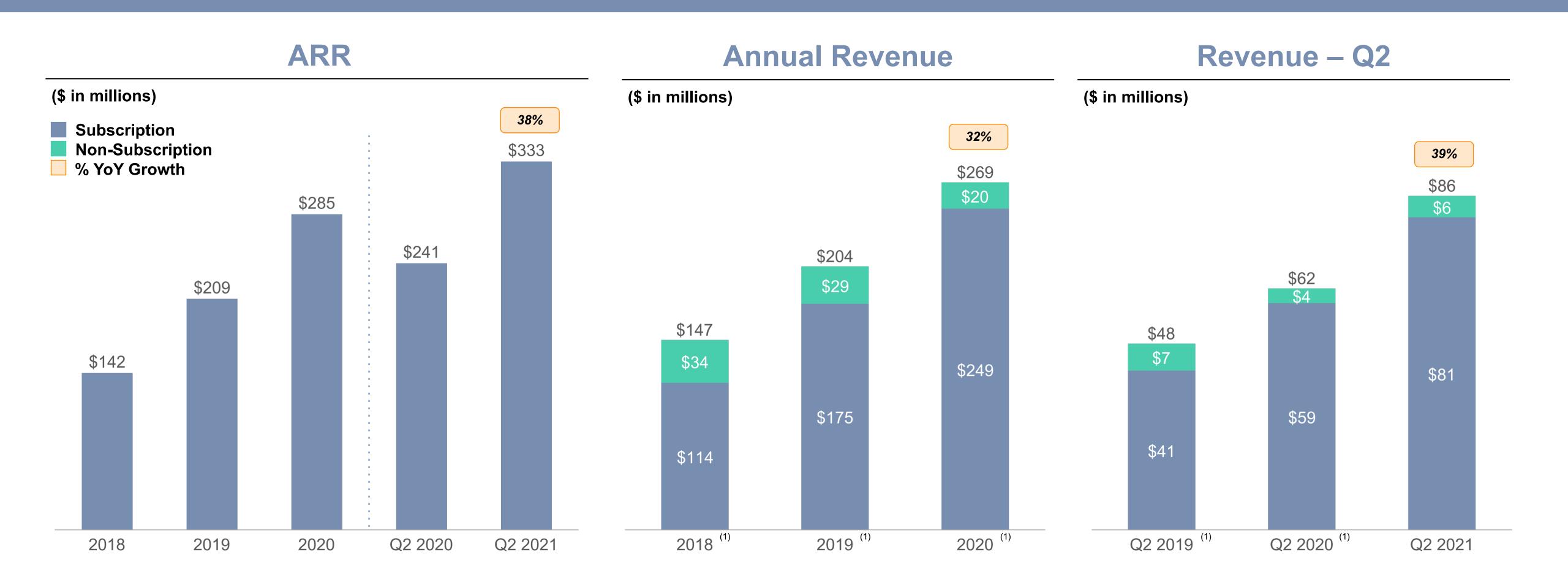
9%
Non-GAAP
Op Inc Margin²

81%
Non-GAAP
Gross Margin<sup>2</sup>

S



## Strong Growth Momentum

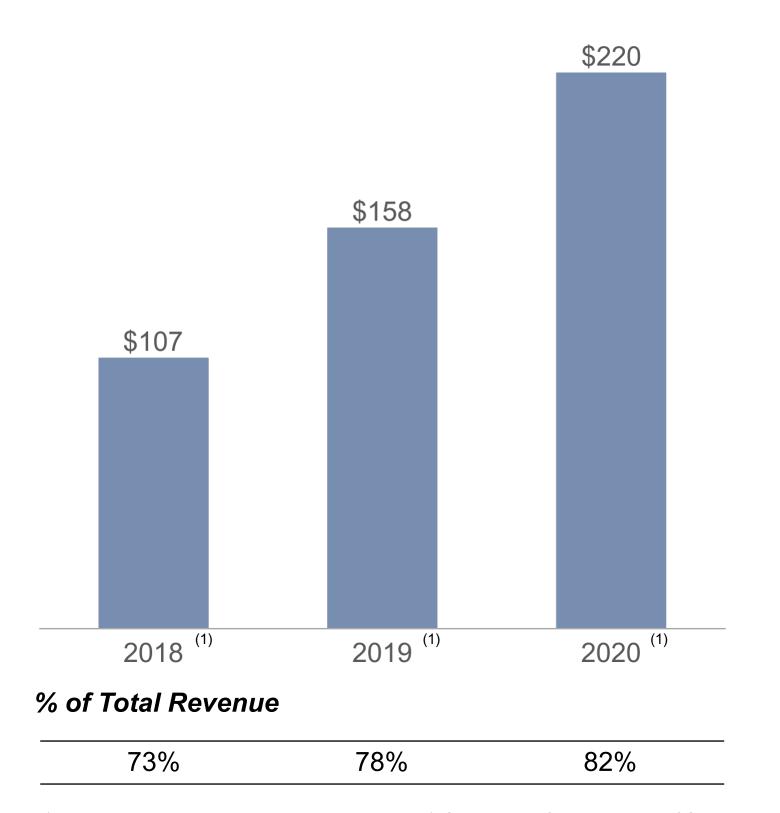


<sup>(1)</sup> Certain prior period amounts have been revised to correct immaterial errors.



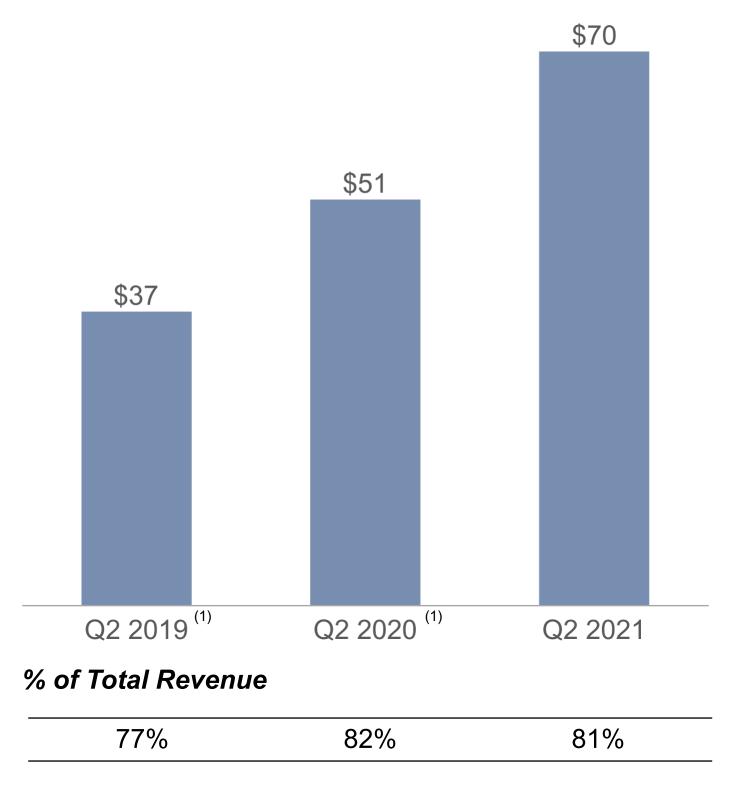
## Strong Gross Margins





#### Non-GAAP Gross Margin – Q2

(\$ in millions)

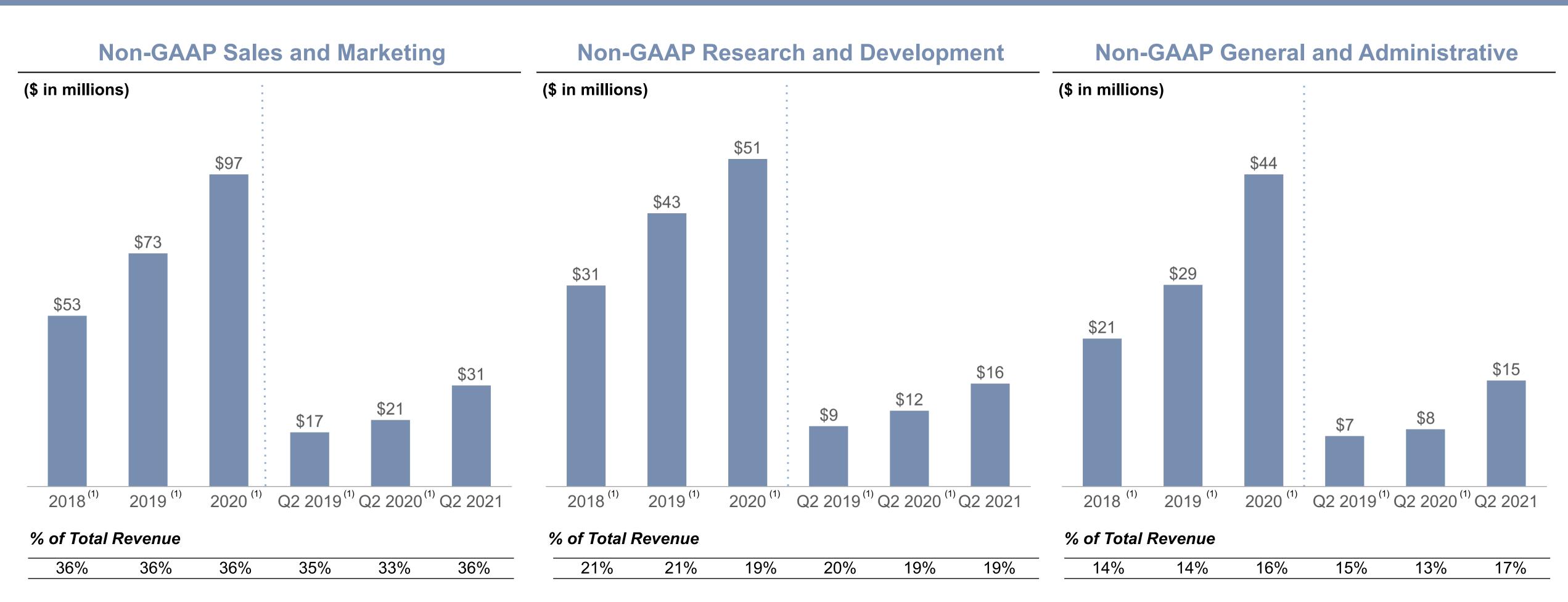


Note: Gross margin is presented on a Non-GAAP basis (excluded stock-based compensation and amortization). See appendix for reconciliation of GAAP to Non-GAAP measures.

<sup>(1)</sup> Certain prior period amounts have been revised to correct immaterial errors.



## Leveraging Efficient Cost Structure



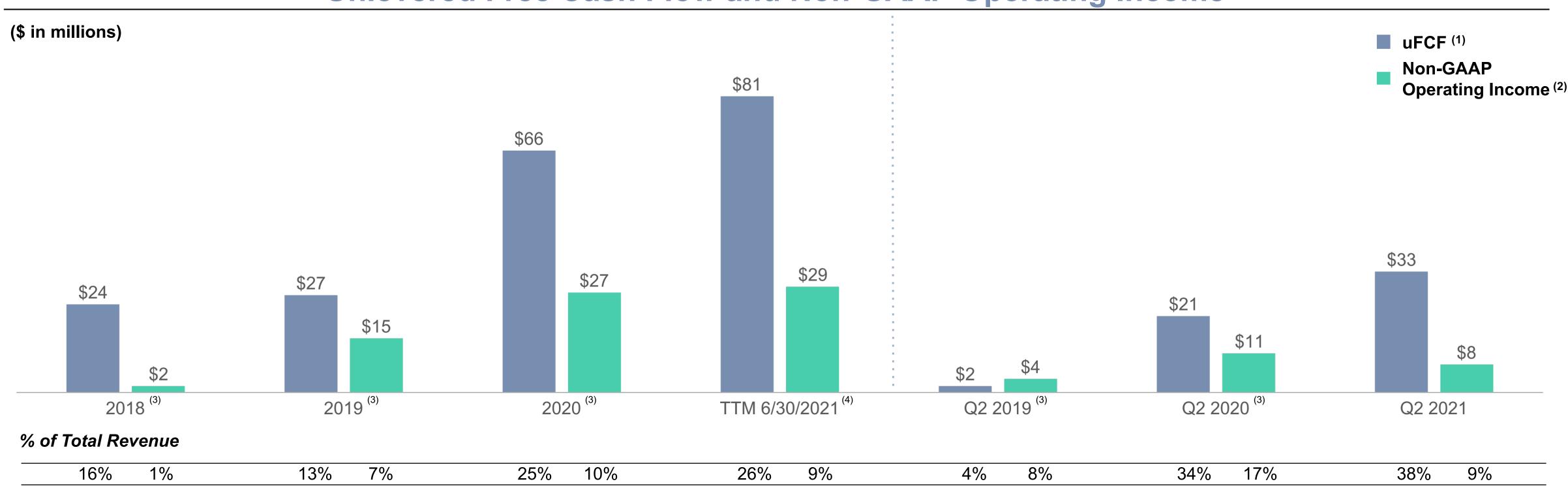
Note: Sales and Marketing, Research and Development and General and Administrative expenses are presented on a Non-GAAP basis (excludes amortization, stock-based compensation, acquisition-related expense, acquisition-related earnout, costs associated with our secondary offerings, payroll taxes related to stock-based compensation and legal reserve expense). See appendix for reconciliation of GAAP to Non-GAAP measures.

<sup>(1)</sup> Certain prior period amounts have been revised to correct an immaterial error related to certain commissions, as well as the associated payroll taxes and retirement plan contributions, were not incremental to the acquisition of customer contracts and should have been expensed as incurred. In addition, certain prior period amounts have been revised to correct other immaterial errors.



## **Expanding Profitability**

#### Unlevered Free Cash Flow and Non-GAAP Operating Income



<sup>(1)</sup> uFCF is a Non-GAAP metric and is adjusted for interest payments, acquisition-related payments and purchases of equipment and leasehold improvements. See appendix for reconciliation of GAAP to Non-GAAP measures.

<sup>(2)</sup> Non-GAAP Operating Income is a Non-GAAP metric and is adjusted for amortization, stock-based compensation, acquisition-related earnout, costs associated with our secondary offerings, payroll taxes related to stock-based compensation and legal reserve expense. See appendix for reconciliation of GAAP to Non-GAAP measures.

<sup>(3)</sup> Certain prior period amounts have been revised to correct an immaterial error related to certain commissions, as well as the associated payroll taxes and retirement plan contributions, were not incremental to the acquisition of customer contracts and should have been expensed as incurred. In addition, certain prior period amounts have been revised to correct other immaterial errors.

<sup>(4)</sup> Includes the three months ended September 30, 2020, December 31, 2020 and March 31, 2021, which have been revised to correct the immaterial errors described above.



## Long Term Target Model



	FY2018 <sup>1</sup>	FY2019 <sup>1</sup>	FY2020 <sup>1</sup>	Long Term Target				
Non-GAAP Gross Margin	73%	78%	82%	81 – 82%				
Non-GAAP S&M	36%	36%	36%	33 – 35%				
Non-GAAP R&D	21%	21%	19%	18 – 20%				
Non-GAAP G&A	14%	14%	16%	9 – 10%				
Non-GAAP Operating Margin	1%	7%	10%	20%+				

<sup>&</sup>lt;sup>1</sup> See appendix for reconciliation of GAAP to Non-GAAP measures.



## Investment Highlights



The Standard in Apple Enterprise Management



**Exceptional Corporate Culture with Talented Management Team** 



Differentiated Apple-focused Technology



Large and Growing Addressable Market



**Loyal, Blue Chip Customer Base** 



**Powerful Subscription Model** 



**Strong and Predictable Financial Profile** 



Strong Combination of Consistent High Growth and Cash Flow Generation

# ia mf The Standard for Apple in the Enterprise Appendix



## Select Definitions

Dollar-Based Net Retention Rate	Measures our ability to increase revenue across our existing customer base through expanded use of our software solutions, offset by customers whose subscription contracts with us are not renewed or renew at a lower amount
Annual Recurring Revenue	Represents the annualized value of all subscription and support and maintenance contracts as of the end of the period
Recurring Revenue	Represents revenue from SaaS and on-premise subscriptions and support and maintenance contracts
Non-GAAP Gross Profit	Gross profit adjusted for stock-based compensation and amortization expense
Non-GAAP Expenses and Operating Income	Expenses / Operating Income (Loss) adjusted for amortization, stock-based compensation, acquisition-related expense, acquisition-related earnout, costs associated with our secondary offerings and payroll taxes related to stock-based compensation
Unlevered Free Cash Flow	Represents net cash provided by (used in) operating activities, less cash paid for purchases equipment and leasehold improvements, plus cash paid for interest and cash paid for acquisition-related expense



## Unlevered Free Cash Flow

#### **Unlevered Free Cash Flow Build**

(\$ in millions)	FY2018	FY2019 (1)	FY2020 (1)	TTM 6/30/21	Q2 2019	Q2 2020	Q2 2021
Net cash provided by (used in) operating activities	\$9	\$12	\$53	\$81	\$(2)	\$17	\$34
Cash paid for interest	\$18	\$21	\$13	\$3	\$5	\$5	\$0
Cash paid for acquisition-related expenses	\$0	\$1	\$5	\$5	\$0	\$0	\$1
Cash paid for purchases of equipment and leasehold improvements	\$(3)	\$(7)	\$(4)	\$(8)	\$(2)	\$(0)	\$(2)
uFCF	\$24	\$27	\$66	\$81	\$2	\$21	\$33
Margin %	16%	13%	25%	26%	4%	34%	38%

<sup>(1)</sup> Certain prior period amounts have been revised to correct immaterial errors.



## GAAP to Non-GAAP Gross Profit Reconciliation

#### **Non-GAAP Gross Profit**

(\$ in millions)	FY2018 (1)	FY2019 (1)	FY2020 (1)	Q2 2019 (1)	Q2 2020 <sup>(1)</sup>	Q2 2021
Gross profit	\$98	\$148	\$208	\$35	\$49	\$67
Amortization expense	\$9	\$10	\$11	\$3	\$3	\$3
Stock-based compensation	\$0	\$0	\$1	\$0	\$0	\$0
Non-GAAP Gross Profit	\$107	\$158	\$220	\$37	\$51	\$70
Margin %	73%	78%	82%	77%	82%	81%

<sup>(1)</sup> Certain prior period amounts have been revised to correct an immaterial error related to certain commissions, as well as the associated payroll taxes and retirement plan contributions, were not incremental to the acquisition of customer contracts and should have been expensed as incurred. In addition, certain prior period amounts have been revised to correct other immaterial errors.



## GAAP to Non-GAAP Operating Income Reconciliation

#### **Non-GAAP Operating Income**

(\$ in millions)	FY2018 (1)	FY2019 (1)	FY2020 (1)	TTM 6/30/21 (2)	Q2 2019 (1)	Q2 2020 (1)	Q2 2021
Operating income (loss)	\$(31)	\$(22)	\$(17)	\$(34)	\$(5)	\$4	\$(16)
Amortization expense	\$30	\$33	\$33	\$34	\$8	\$8	\$8
Stock-based compensation	\$2	\$2	\$7	\$12	\$1	\$1	\$4
Acquisition-related expense	\$0	\$1	\$5	\$4	\$0	\$2	\$2
Acquisition-related earnout	\$0	\$0	\$(1)	\$7	\$0	\$(4)	\$4
Offering costs	\$0	\$0	\$1	\$1	\$0	\$0	\$1
Payroll taxes related to stock-based compensation	\$0	\$0	\$0	\$1	\$0	\$0	\$0
Legal reserve	\$0	\$0	\$0	\$4	\$0	\$0	\$4
Non-GAAP operating income	\$2	\$15	\$27	\$29	\$4	\$11	\$8
Margin %	1%	7%	10%	9%	8%	17%	9%

<sup>(1)</sup> Certain prior period amounts have been revised to correct an immaterial error related to certain commissions that were incorrectly capitalized. The commissions, as well as the associated payroll taxes and retirement plan contributions, were not incremental to the acquisition of customer contracts and should have been expensed as incurred. In addition, certain prior period amounts have been revised to correct other immaterial errors.

<sup>(2)</sup> Includes the three months ended September 30, 2020, December 31, 2020 and March 31, 2021, which have been revised to correct the immaterial errors described above.



## GAAP to Non-GAAP Expense Reconciliation

#### **Sales and Marketing**

(\$ in millions)	FY2018 (1	<sup>1)</sup> FY2019	FY2019 (1) FY2020 (1)		Q2 2019 <sup>(1)</sup> Q2 2020 <sup>(1)</sup>		
GAAP Sales and Marketing	\$54	\$73	\$99	\$17	\$21	\$33	
Stock-based compensation	\$(1)	\$(0)	\$(2)	\$(0)	\$(0)	\$(1)	
Payroll taxes related to stock-based compensation	\$0	\$0	\$0	\$0	\$0	\$(0)	
Non-GAAP Sales and Marketing	\$53	\$73	\$97	\$17	\$21	\$31	
Margin %	36%	36%	36%	35%	33%	36%	

#### **Research and Development**

(\$ in millions)	FY2018 <sup>(1</sup>	<sup>)</sup> FY2019 <sup>(1</sup>	) FY2020 <sup>(1)</sup>	Q2 2019 <sup>(*</sup>	<sup>1)</sup> Q2 2020 <sup>(1</sup>	Q2 202
GAAP Research and Development	\$32	\$43	\$53	\$10	\$12	\$17
Stock-based compensation	\$(0)	\$(0)	\$(2)	\$(0)	\$(0)	\$(1)
Acquisition-related expense	\$0	\$0	\$0	\$0	\$0	\$(0)
Payroll taxes related to stock-based compensation	\$0	\$0	\$0	\$0	\$0	\$(0)
Non-GAAP Research and Development	\$31	\$43	\$51	\$9	\$12	\$16
Margin %	21%	21%	19%	20%	19%	19%

#### **General and Administrative**

(\$ in millions)	FY2018 <sup>(*</sup>	FY2019 <sup>(1</sup>	<sup>1)</sup> FY2020 <sup>(1)</sup>	Q2 2019 <sup>(</sup>	1)Q2 2020 <sup>(1</sup>	<sup>1)</sup> Q2 2021
GAAP General and Administrative	\$22	\$32	\$52	\$7	\$7	\$28
Stock-based compensation	\$(1)	\$(1)	\$(3)	\$(0)	\$(0)	\$(1)
Acquisition-related expense	\$(0)	\$(1)	\$(5)	\$0	\$(2)	\$(2)
Acquisition-related earnout	\$0	\$(0)	\$1	\$0	\$4	\$(4)
Offering costs	\$0	\$0	\$(1)	\$0	\$0	\$(1)
Payroll taxes related to stock-based compensation	\$0	\$0	\$0	\$0	\$0	\$(0)
Legal reserve	\$0	\$0	\$0	\$0	\$0	\$(4)
Non-GAAP General and Administrative	\$21	\$29	\$44	\$7	\$8	\$15
Margin %	14%	14%	16%	15%	13%	17%

<sup>(1)</sup> Certain prior period amounts have been revised to correct an immaterial error related to certain commissions, as well as the associated payroll taxes and retirement plan contributions, were not incremental to the acquisition of customer contracts and should have been expensed as incurred. In addition, certain prior period amounts have been revised to correct other immaterial errors.