

# Annual Spend Performance and FY20 Guidance<sup>1</sup>



<sup>&</sup>lt;sup>1</sup> Annual spend is an estimate of the annualized value of our portfolio of term license arrangements.

## By the Numbers

- More than \$50 billion annually in value created for customers worldwide
- Blue-chip customers, more than 2,300 globally
- 90% revenue across Energy, Chemicals,
   Engineering & Construction
- Global presence with over 60% of business outside North America
- **1,600 employees worldwide**, 50% outside U.S.
- 38 years of technology leadership and innovation

World leader in asset optimization software for capital-intensive industries

### Industry Characteristics & Dynamics

#### **Characteristics**

Multi-trillion global industries

Complex manufacturing processes

High capital costs

High volume production

High leveraging of technology and engineering

Diverse business processes, continuous and discrete

#### **Dynamics**

Globalization

Market volatility

Changing demographics

Safety and environmental regulations

Focus on operational excellence

Reliability and service factors



**ENERG** 



ENGINEERING 8
CONSTRUCTION



**CHEMICALS** 



**PHARMACEUTICALS** 



METALS & MINING



POWER



**PULP & PAPER** 

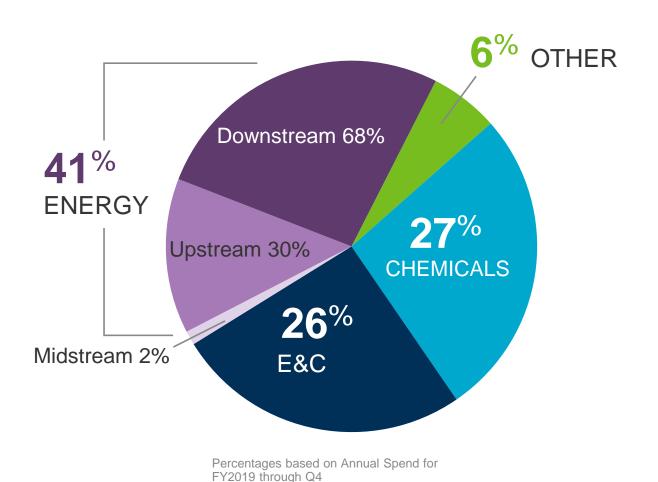


FOOD & BEVERAGE

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#### Customers by Industry



20/20
Largest E&C Oil &
Gas Companies





19/20
Largest Petroleum
Companies

20/20
Largest Chemical
Companies





Pharmaceuticals
Power & Utilities
Metals & Mining
Pulp & Paper
Consumer Packaged Goods

Ranking from ENR, ICIS and Forbes for calendar year 2018

## Asset Optimization Powers the Smart Enterprise



## Asset Optimization — Extending the Lifecycle



- R&D/Conceptual Engineering
- Basic Engineering
- Equipment Engineering
- Debottlenecking & UpgradesPlanning



- Long-term Forecasting & Planning
- Production Planning & Scheduling
- Manufacturing OperationsManagement
- Dynamic Optimization & AdvancedControl



- Predictive & Prescriptive Analytics
- Reliability Management
- Maintenance Strategy

## Asset Optimization — Extending the Lifecycle



Pushing the Boundaries of What's Possible

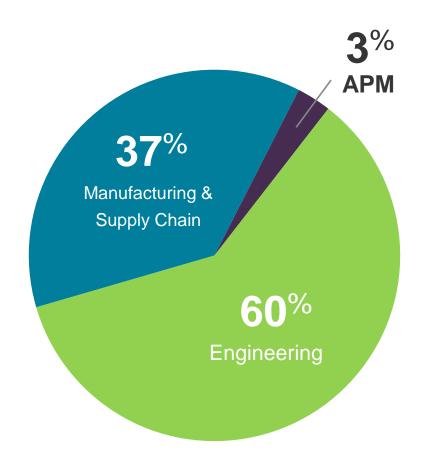


Running to the Limits of Performance



Driving Uptime Through Actionable Insights

### Customers by Product Suite and FY19 Growth

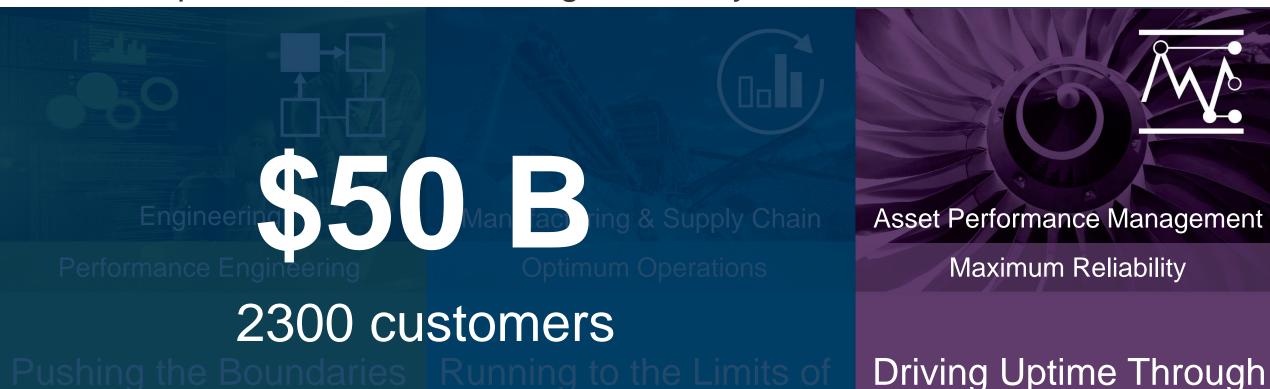


Percentages based on Annual Spend for FY2019

#### FY19 growth in Annual Spend

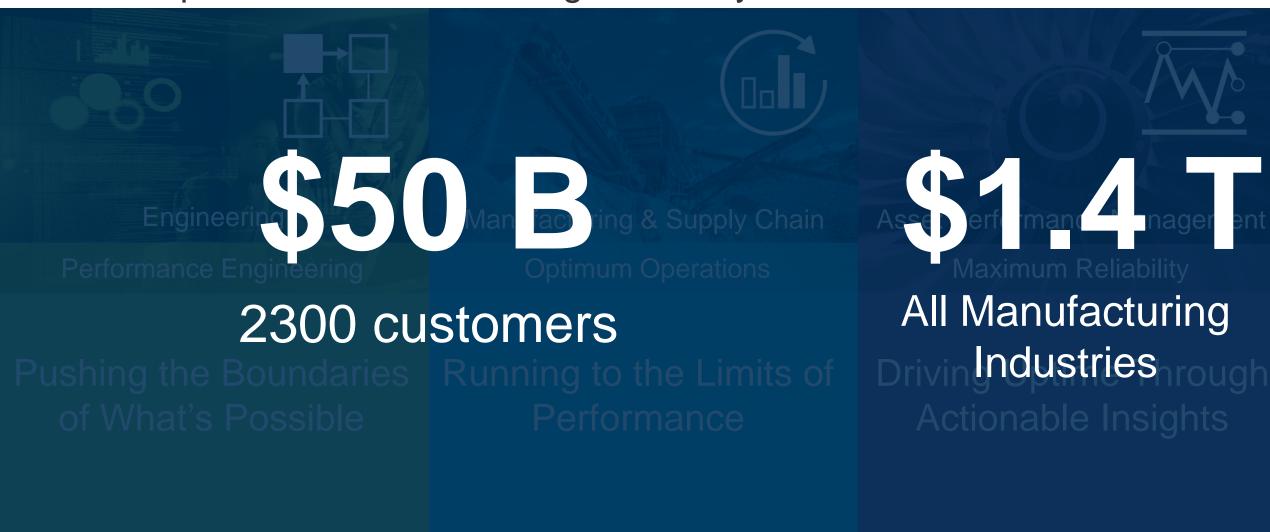
- ENG 6%
- MSC 13%
- APM 256%

### Asset Optimization — Extending the Lifecycle



Actionable Insights

## Asset Optimization — Extending the Lifecycle



## Supporting Sustainability

#### **Safe & Reliable Operations**

- Accurate design plan to operate at limits of performance
- Improve asset and process safety throughout operation lifecycle
- Prevent unplanned downtime from equipment degradation or failure

#### **Emissions Management**

- Apply environmental standards and custom requirements in design process
- Reduce unplanned outages that cause higher emissions and flaring
- Simulate thousands of scenarios for new processes such as carbon capture

#### **Energy Reduction**

- Analyze high energy efficiency and waste reduction during design
- Maximize use of renewable feedstocks
- Efficiently model demand-supply requirements



9 days advanced warning of major fire



Emissions fines of \$60k per day avoided



Refinery reduced energy demand by \$15M per year

# Unplanned Downtime can Trigger Significant Emissions Events



#### Interconnected World



#### A VUCA Environment



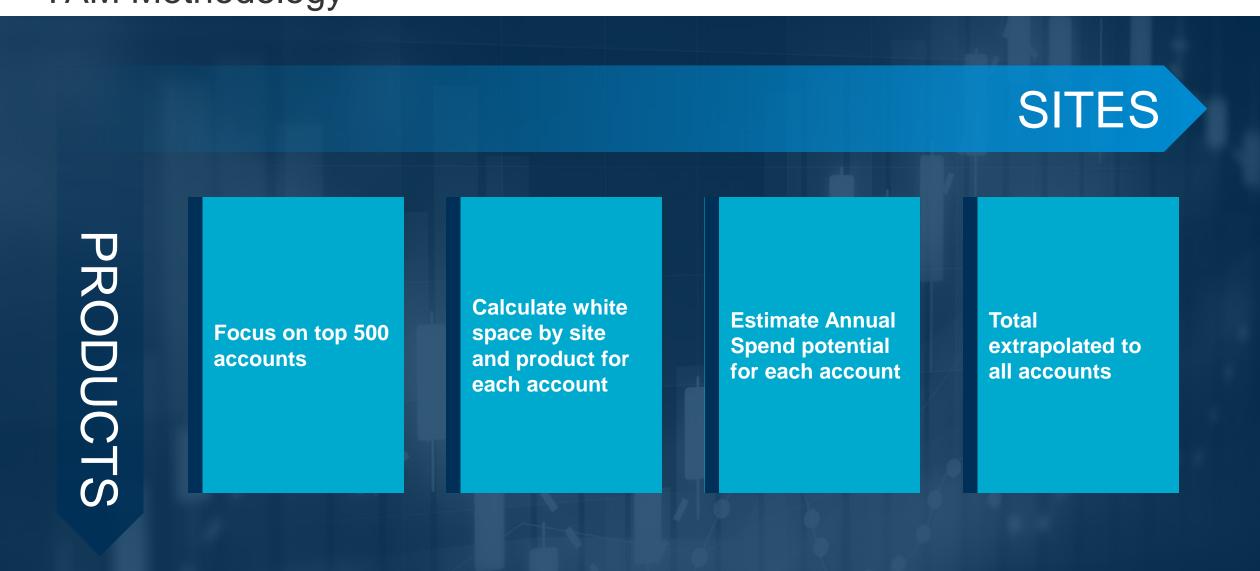
#### Our Mission



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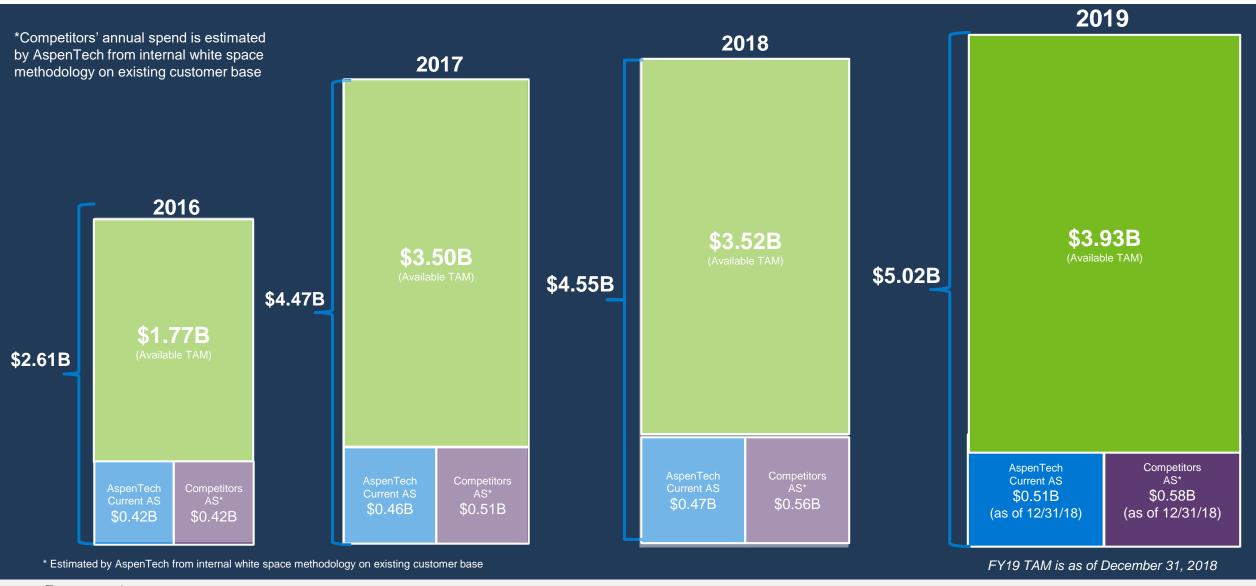
### TAM Methodology



# What Drives TAM Expansion?



# Potential TAM (AS) – Grew by 10% between FY18 and FY19



# Expanding TAM Through Innovation and New Verticals (AS)

2019

#### **Expanded vertical penetration**

\$290M

APM suite: \$270M

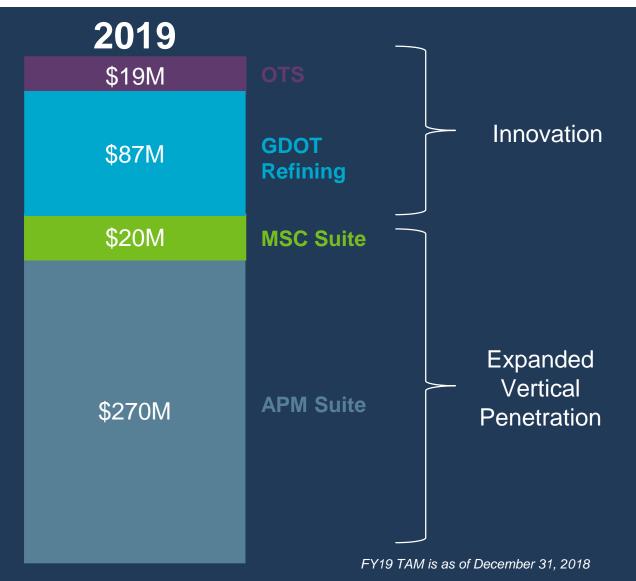
MSC suite: \$20M

#### **GDOT** Refining

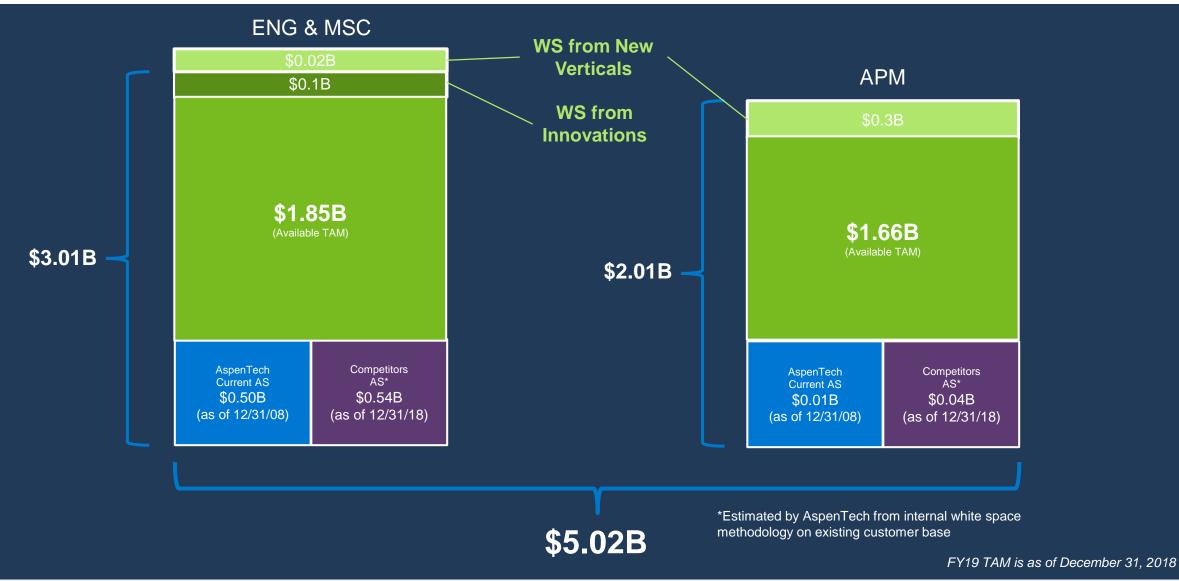
\$87M

#### **OTS**

\$19M



# Expanding TAM Through Innovation and Vertical Expansion (AS)



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## AspenTech Strengths

Multi-Billion Dollar Opportunity Market Leadership Position

World-Class
Customer Base

Long-Term Contracts and Recurring Revenue Model

Best-in-Class Profitability

Focus on Capital
Deployment to Enhance
Shareholder Value

Value Creation for Customers

Mission-Critical Products and Solutions



#### Safe Harbor Statement

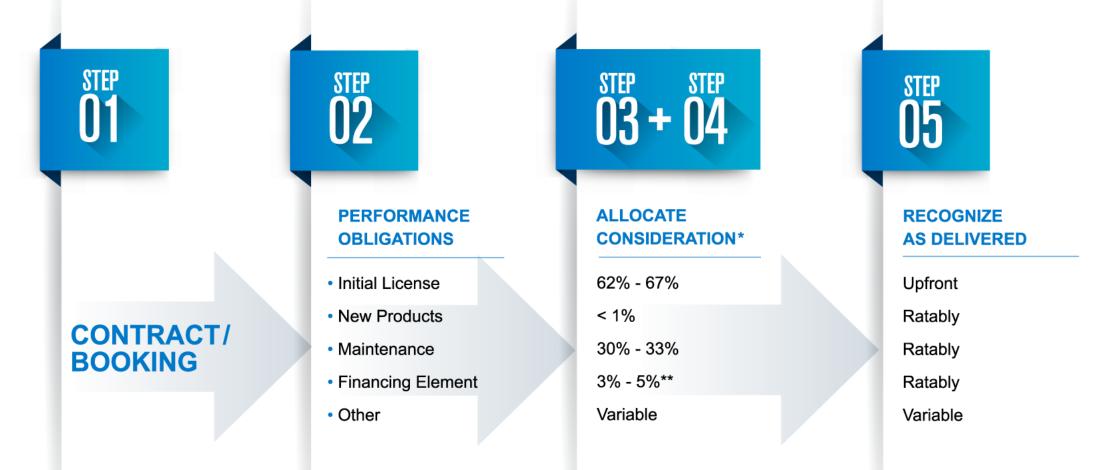
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### Financial Strengths

- Multi-year history of delivering best-in-class profitability and cash flow
- Expense discipline facilitates investing for future growth
- Substantial market white space opportunity
- Disciplined capital allocation strategy
- Topic 606 changed the timing of our revenue recognition, but our value proposition remains consistent



## AspenTech Topic 606 Revenue Model



<sup>\*</sup> Allocation values can change based on business conditions and external factors. The percentages presented are subject to change.

<sup>\*\*</sup> Interest Income is dependent on our estimate for our customer specific incremental borrow rate and is subject to change.

#### **Key Metrics**

#### **Non-GAAP Metric**

• Annual Free Cash Flow – is calculated as net cash provided by operating activities adjusted for the net impact of (a) purchases of property, equipment and leasehold improvements, (b) capitalized computer software development costs, (c) non-capitalized acquired technology, (d) excess tax benefits from stock-based compensation and (e) other nonrecurring items, such as acquisition and litigation related payments. Annual free cash flow is the best metric to assess the overall value our business creates in a period.

#### **Business Metrics**

- Annual Spend is an estimate of the annualized value of our portfolio of term license arrangements. Annual spend is calculated
  by summing the most recent annual invoice value of each of our active term license contracts. Comparing annual spend for
  different dates can provide insight into the growth and retention rates of our business.
- <u>Bookings</u> is the total value of customer term license contracts signed and delivered in the current period. License revenue is heavily impacted by the timing of Bookings, and more specifically renewal Bookings. A decrease or increase in Bookings between fiscal periods resulting from a change in the amount of term license contracts up for renewal is not an indicator of the health or growth of our business.
- <u>Total Contract Value</u> is defined as the aggregate value of all payments received or to be received under all active term license agreements, including maintenance and escalation. Comparing Total Contract Value for different dates provides insight into the total revenue that will be recognized under our active contracts.

## Bookings



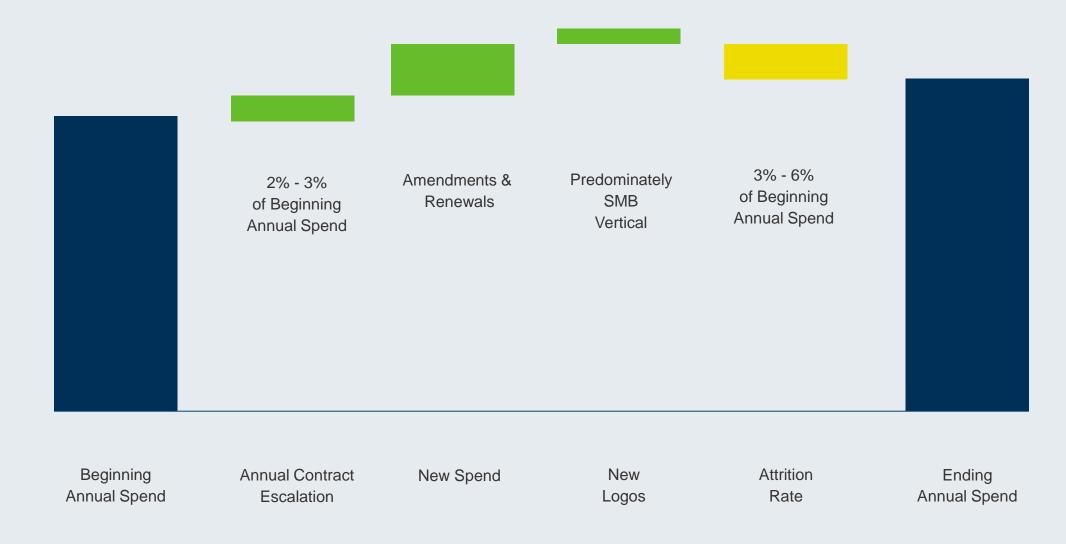
- Bookings include both renewals and growth bookings
- Bookings are heavily influenced by the timing of renewals
- The timing of renewals is not linear between quarters or fiscal years

#### Annual Spend Year-Over-Year Growth



- Provides insight into the growth and retention rate of our customers
- Leading indicator of cash inflow
- Provides financial stability and predictability
  - 5-6 year contracts
  - 2-3% annual escalation
  - High renewal rates

## How Annual Spend Grows

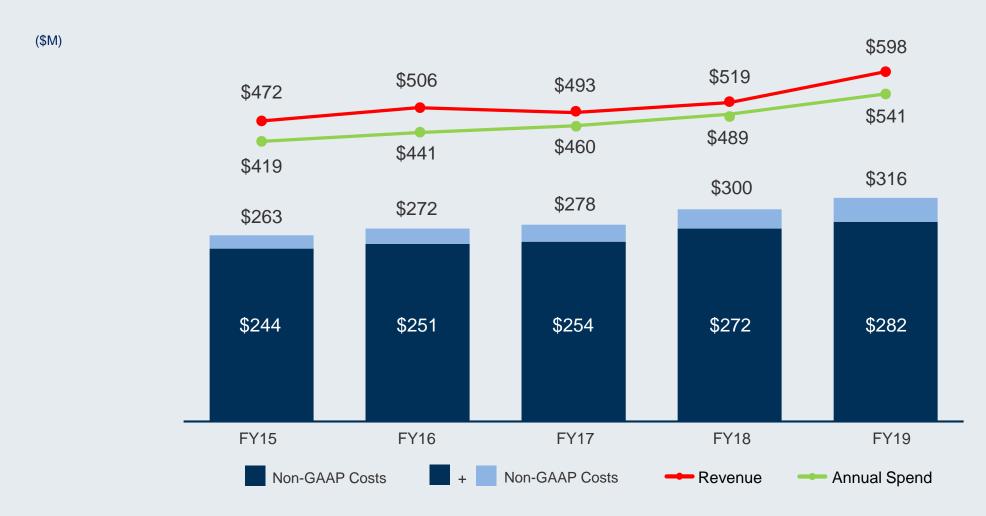


#### **Total Contract Value**



- Total Contract Value is defined as the aggregate value of all payments received or to be received under all active term license agreements, including maintenance and escalation.
- Comparing Total Contract Value for different dates provides insight into the total revenue that will be recognized under our active contracts.
- We will be providing Total Contract Value on an annual basis.

#### Expense Management Revenue and GAAP & Non-GAAP Total Costs<sup>1</sup>



<sup>1 -</sup> Non-GAAP costs are GAAP costs adjusted for the impact of stock-based compensation expense, non-capitalized acquired technology, amortization of intangibles, and other items, such as the impact of litigation judgments and acquisition related fees.

# **Target Operating Model**

	Target Values *
Ending Annual Spend	100%
Cost of Revenue	10-13%
Sales & Marketing	20-22%
Research & Development	14-16%
General & Administrative	8-9%
GAAP Operating Expenses	43-46%
GAAP Operating Margin	42-45%
Non-GAAP Operating Margin	47-50%

GAAP Non-GAAP

<sup>\*</sup> Stated as a percentage of ending annual spend

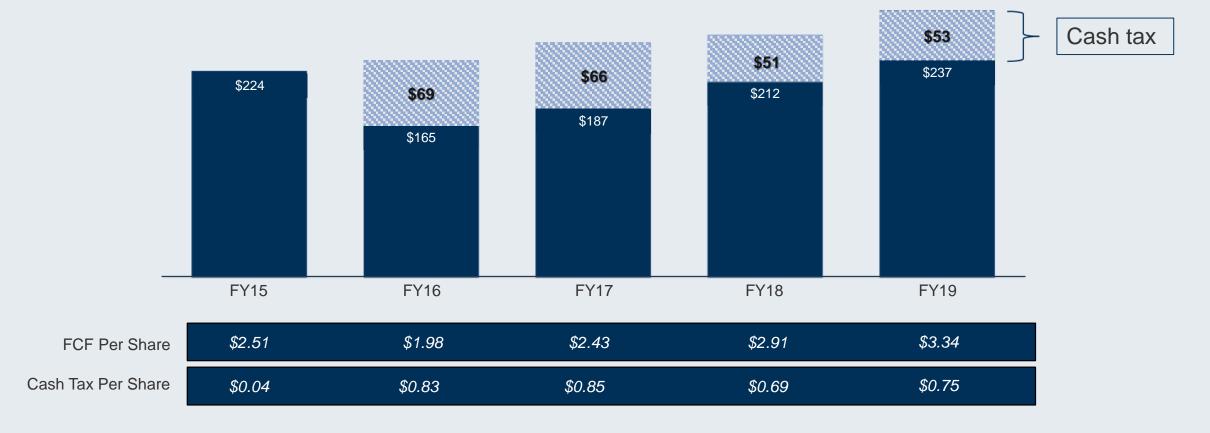
# **Target Operating Model**

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	Target Values	FY2019 Actual
Ending Annual Spend	100%	100%
Cost of Revenue	10-13%	11%
Sales & Marketing	20-22%	21%
Research & Development	14-16%	15%
General & Administrative	8-9%	12%
GAAP Operating Expenses	43-46%	48%
GAAP Operating Margin	42-45%	42%
Non-GAAP Operating Margin	47-50%	48%

\*Totals may not equal 100% due to rounding

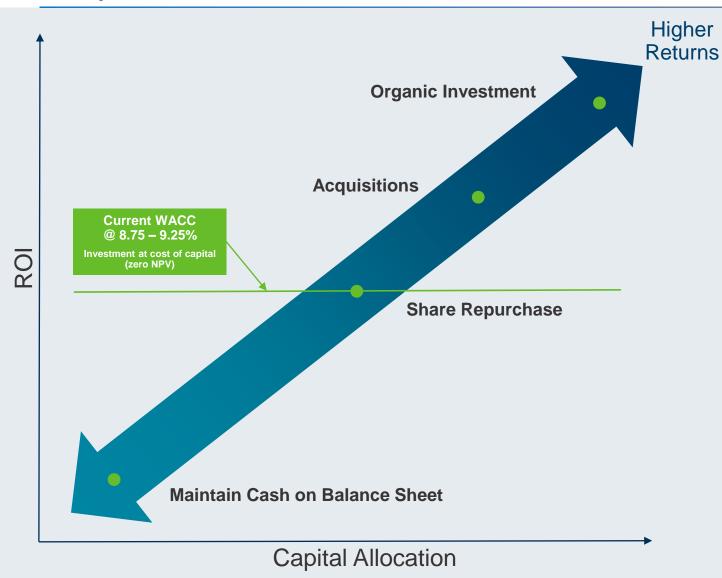
#### Free Cash Flow<sup>1</sup>

(\$M's except per share)



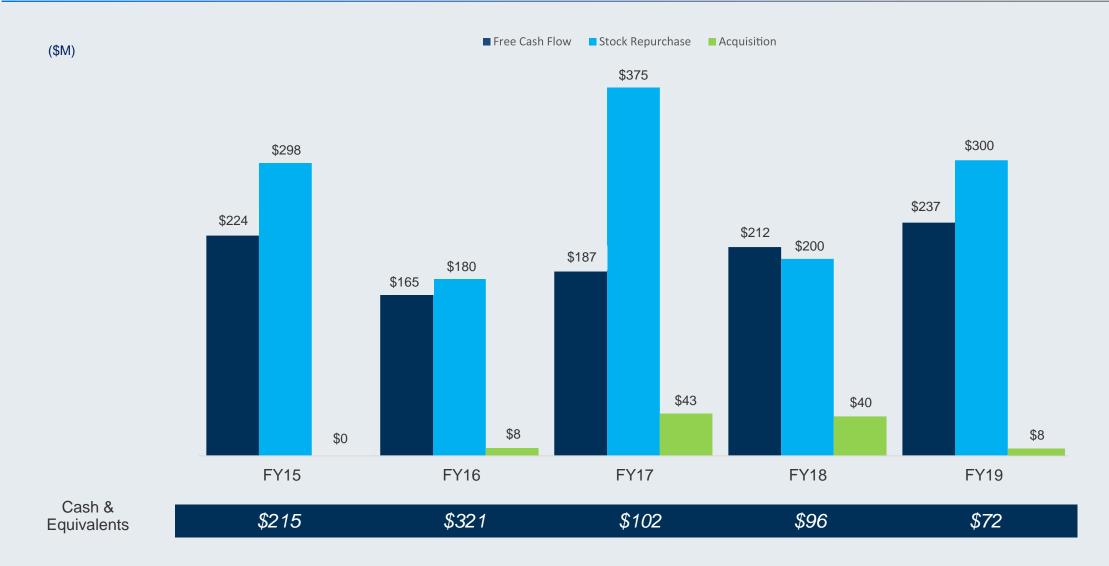
<sup>1 -</sup> Free cash flow is net cash provided by operating activities adjusted for the net impact of (a) purchases of property, equipment and leasehold improvements, (b) capitalized software development costs, (c) excess tax benefits from stock-based compensation, (d) non-capitalized acquired technology and (e) other nonrecurring items, such as acquisition and litigation related payments.

### Capital Allocation

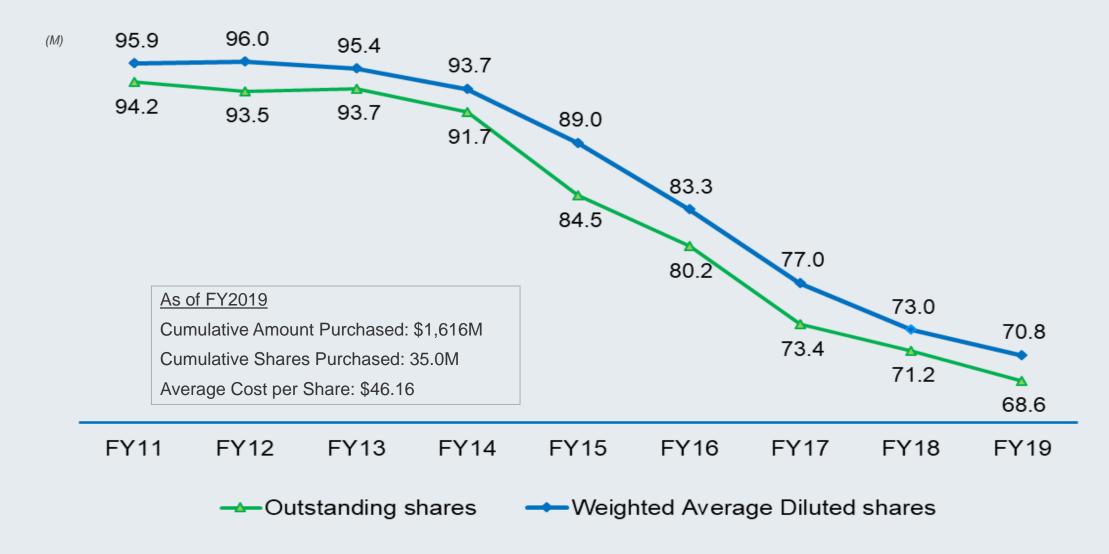


- Goal Allocate AspenTech's capital in the most efficient manner to create long-term shareholder value
- Allocation is based on:
  - Disciplined value based process
  - AspenTech's short and long term strategy
  - WACC driven return on investment of the different options
  - Current and anticipated market conditions
  - Quantitative and qualitative criteria
- Capital allocation is evaluated on a continuous basis
- Target Capital Structure
  - Approximately \$40 million \$90 million in cash
  - Gross Leverage at 0.5 2x turns of annual Free Cash Flow with ability to lever up to 3 – 4x temporarily

## Historical Capital Allocation



#### Share Repurchase Impact on Outstanding and Diluted Shares



# Guidance



#### Annual Spend Guidance



- Targeting 10% 12% range for FY2020
  - 7% 9% from ENG and MSC
  - 3% from APM
- Timing of FY2020 Annual Spend
   Growth
  - Similar to FY2019, we anticipate growth in Annual Spend will be heavily weighted to the second half of the fiscal year
  - Guidance assumes this outcome

## **Bookings Guidance**



- Targeting \$600 \$650 million in FY2020 Bookings
  - In FY2020, we have \$317 million
     Renewal Bookings coming due
- Timing of FY2020 Bookings
  - Timing of bookings does not necessarily correspond with Annual Spend growth
  - Currently we see 40%-45% of Bookings coming in the first half of FY2020 with the remainder in the second half
  - Guidance assumes this outcome

## Renewal Bookings for FY2020 – FY2023



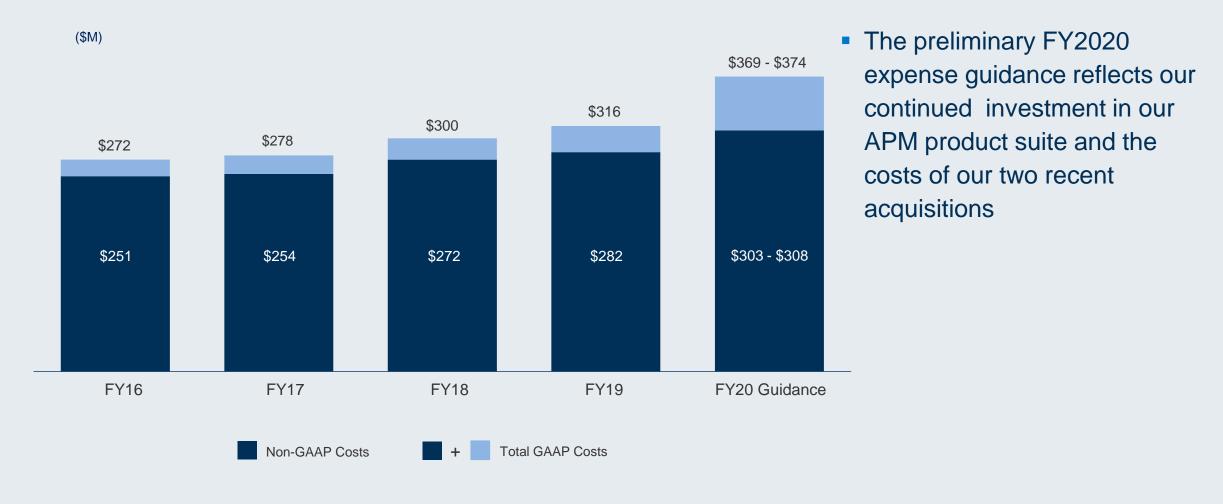
The Renewal Bookings
 information provided is based
 on our current outlook. The
 actual timing of the Renewal
 Bookings can be impacted by
 early renewals

#### Revenue Guidance



- The guidance for FY2020
   Revenue does not include 'one time' revenue items
- Revenue will fluctuate quarterto-quarter based on the timing of customer contracts and renewals, but should generally follow the renewal bookings

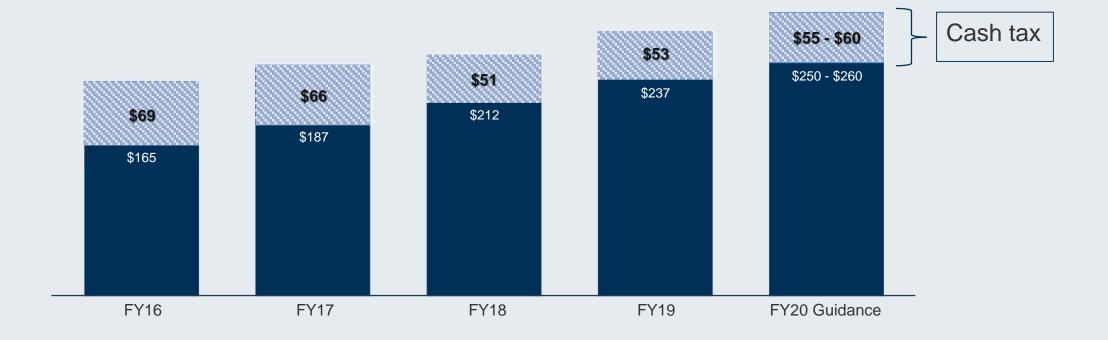
# Expense Guidance Revenue and GAAP & Non-GAAP Total Costs<sup>1</sup>



<sup>1 -</sup> Non-GAAP costs are GAAP costs adjusted for the impact of stock-based compensation expense, non-capitalized acquired technology, amortization of intangibles, and other items, such as the impact of litigation judgments and acquisition related fees.

#### Free Cash Flow<sup>1</sup> Guidance

(\$M's except per share)



<sup>1 -</sup> Free cash flow is net cash provided by operating activities adjusted for the net impact of (a) purchases of property, equipment and leasehold improvements, (b) capitalized software development costs, (c) excess tax benefits from stock-based compensation, (d) non-capitalized acquired technology and (e) other nonrecurring items, such as acquisition and litigation related payments. 2 - Diluted shares outstanding are an estimate for FY2020

#### FY2020 Guidance

(\$M's except per share)	FY2020 Guidance (1)	
Annual Spend Growth	10% - 12%	
Bookings	\$600 - \$650	
Total Revenue	\$575 - \$615	
Total GAAP Expense	\$369 - \$374	
Operating Income	\$206 - \$241	
Net Income	\$188 - \$217	
Net Income per share	\$2.70 - \$3.11	
Non-GAAP Operating Income	\$272 - \$307	
Non-GAAP Operating Margin	47% - 50%	
Non-GAAP Net Income per share	\$3.44 - \$3.85	
Free Cash Flow	\$250 - \$260	

#### Key Assumptions:

- The preliminary guidance for FY2020 Revenue does not include 'one time' revenue items
- Does not reflect potential acquisitions
- FY2020 share count does not assume stock repurchases
- Current plan is to repurchase approximately \$200M of our stock in FY2020

<sup>1)</sup> Guidance assumes 69.9M weighted average diluted shares outstanding

#### Conclusion

- Topic 606 Impacts the Timing of Revenue, not the Value Proposition of AspenTech
- Annual Spend and Free Cash Flow are Best Metrics to Evaluate Performance
- Multi-Billion Dollar Market Opportunity
- Market Leadership Position
- Investing for Future Growth
- World-Class Customer Base with Significant Upsell Opportunities
- Subscription Model with Long-Term Contracts
- Shareholder Value Driven Focus



# Q&A



