INVESTOR DAY 2023

GLOBAL TECHNOLOGY

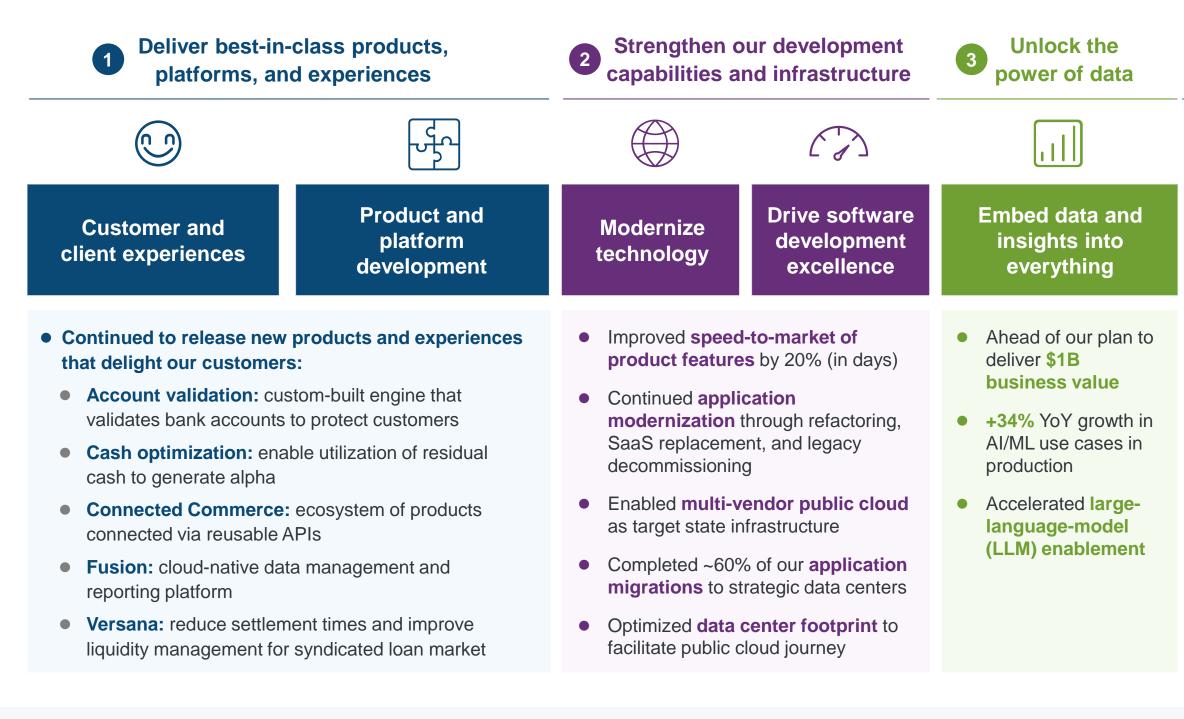
Firm Overview

- ► Global Technology
 - Consumer & Community Banking
 - Corporate & Investment Bank
 - **Commercial Banking**
 - Asset & Wealth Management

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We continue to execute against our technology strategy



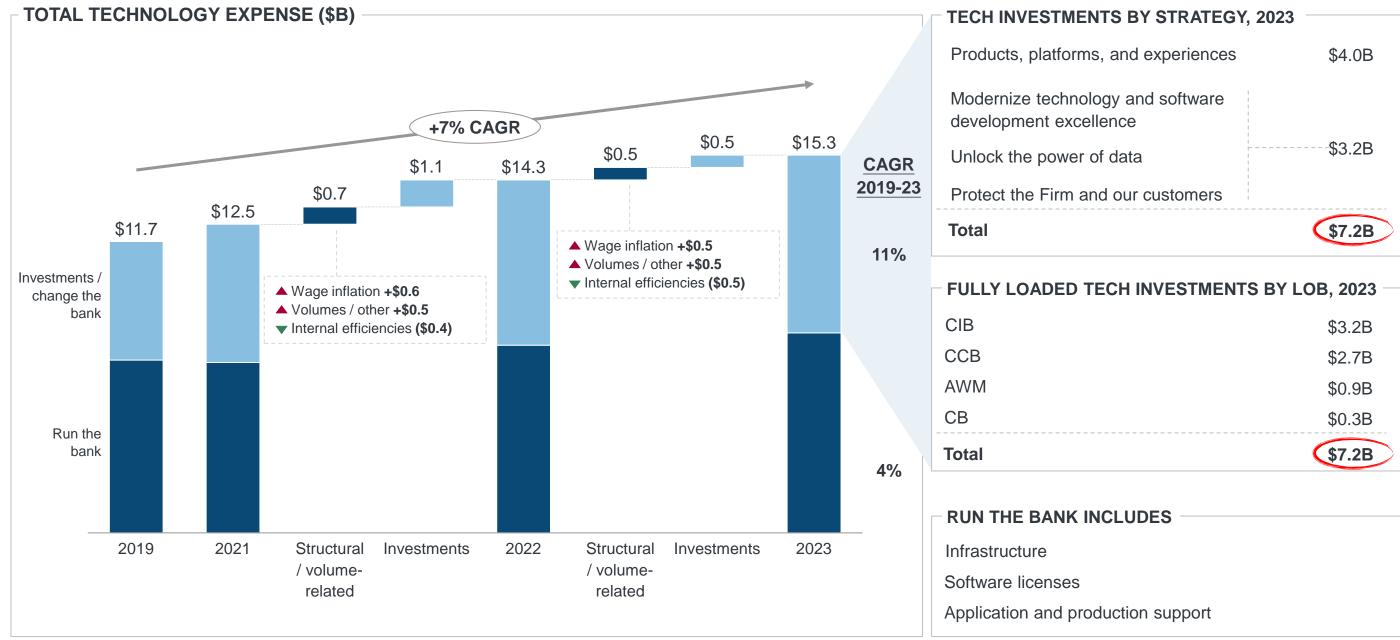




Proactively defend against cyber threats

- Matured ability to respond to new threats, including quantum safe encryption
- Delivered business value through cyber as a differentiator
- Maintained flat expense relative to volume increases

Our expense growth is driven by investments, volumes, and structural factors

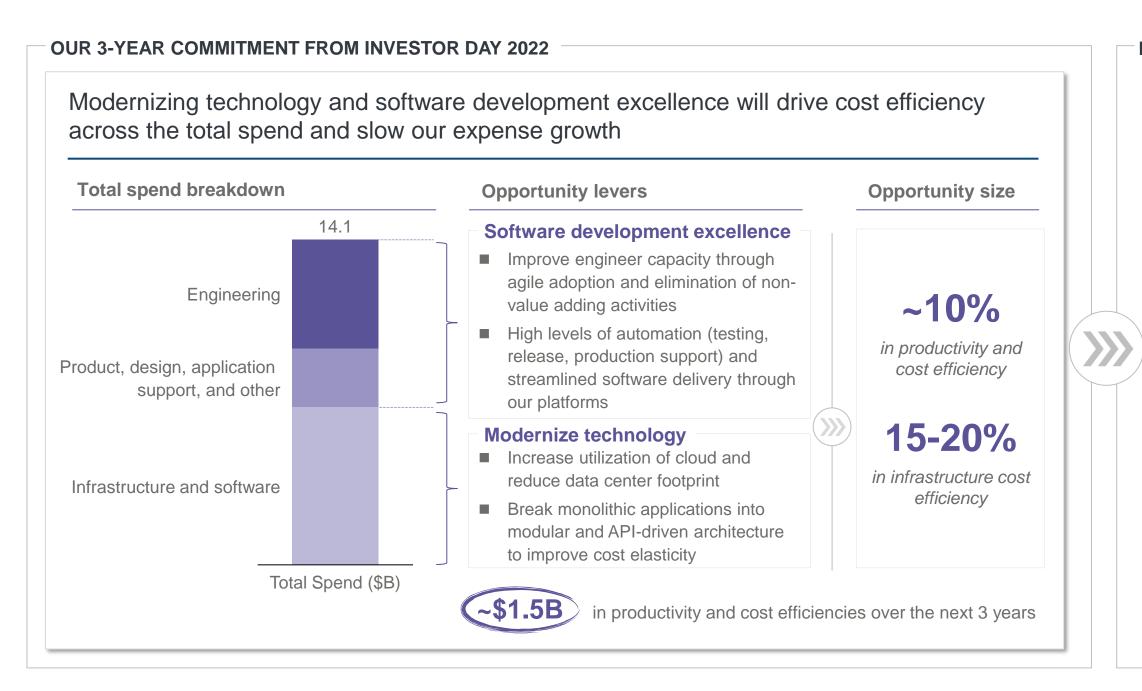


Note that totals may not sum due to rounding

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INVESTMENTS BY LOB, 2023	
	\$3.2B
	\$2.7B
	\$0.9B
	\$0.3B
	\$7.2B

We have delivered \$0.5B against our \$1.5B productivity target



PROGRESS WE'VE MADE

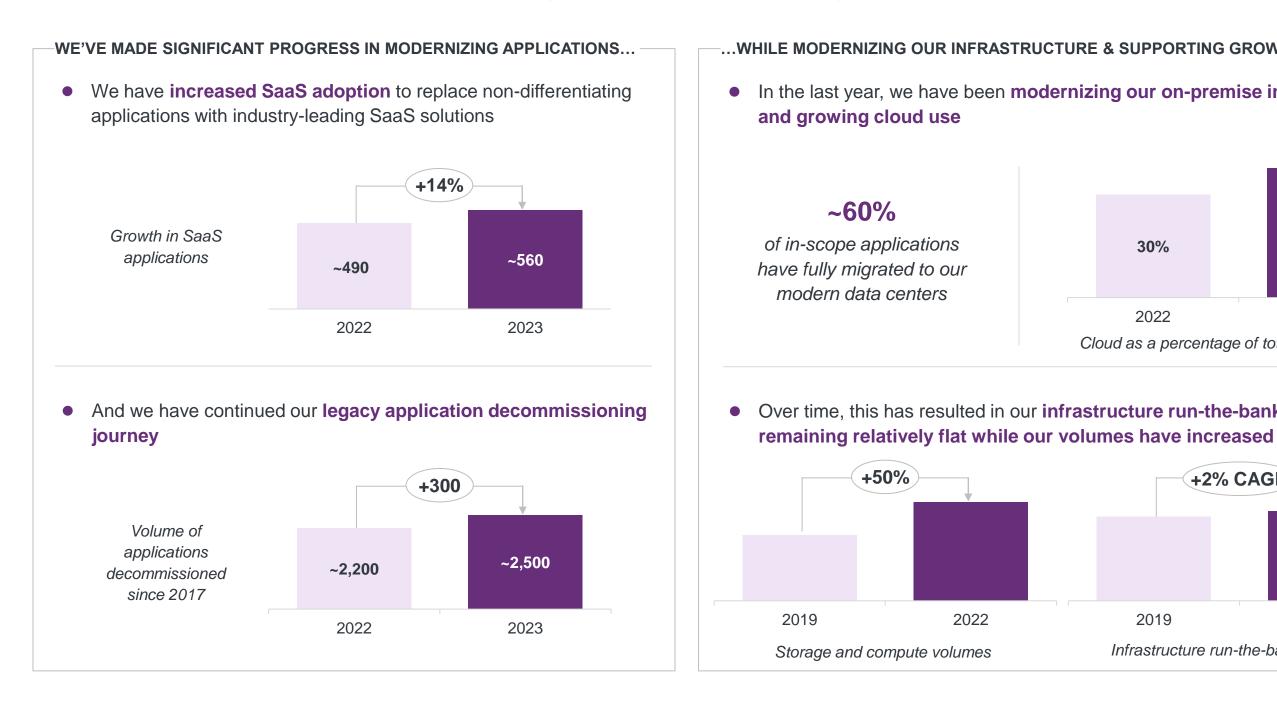
~\$300mm

through engineering efficiencies and labor productivity

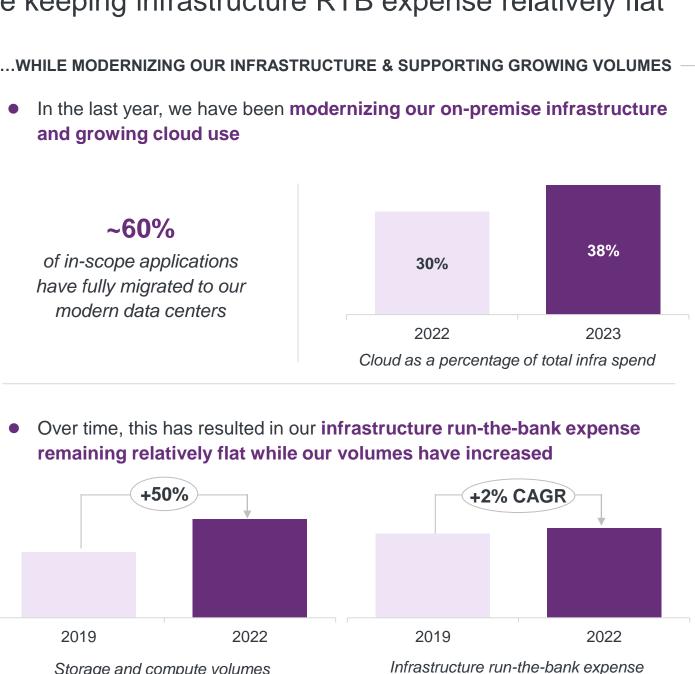
~**\$200**mm

in infrastructure productivity

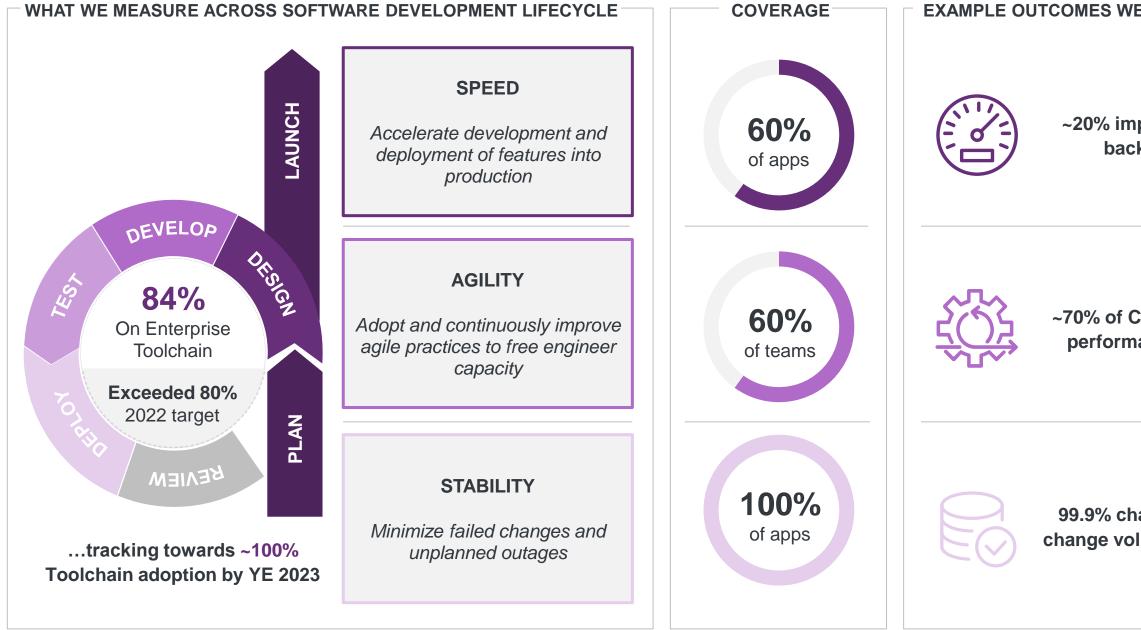
We continue to modernize our technology estate while keeping infrastructure RTB expense relatively flat



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We've made progress on technology modernization and engineering excellence to drive efficiencies in feature delivery and slow our expense growth

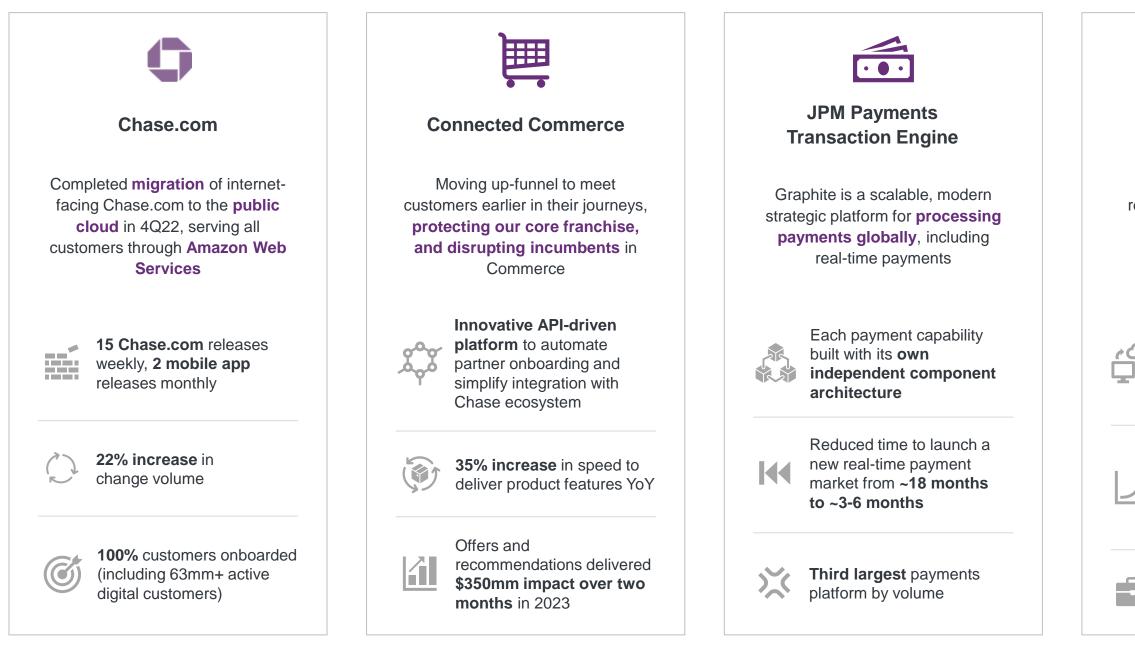


EXAMPLE OUTCOMES WE'VE ACHIEVED IN 1 YEAR

~20% improvement in days from backlog to deployment

~70% of CCB teams improved YoY performance on agile practices

99.9% change success rate while change volumes have gone up ~60% Our modernization strategy is enabling us to deliver significant value across the business





Markets Regulatory Reporting Platform

Regulatory data warehouse responsible for global regulatory reporting for Cash Equities, Futures, and Options in 15+ countries



Running on public cloud, enabling **real-time** audit trail calculation and report generation

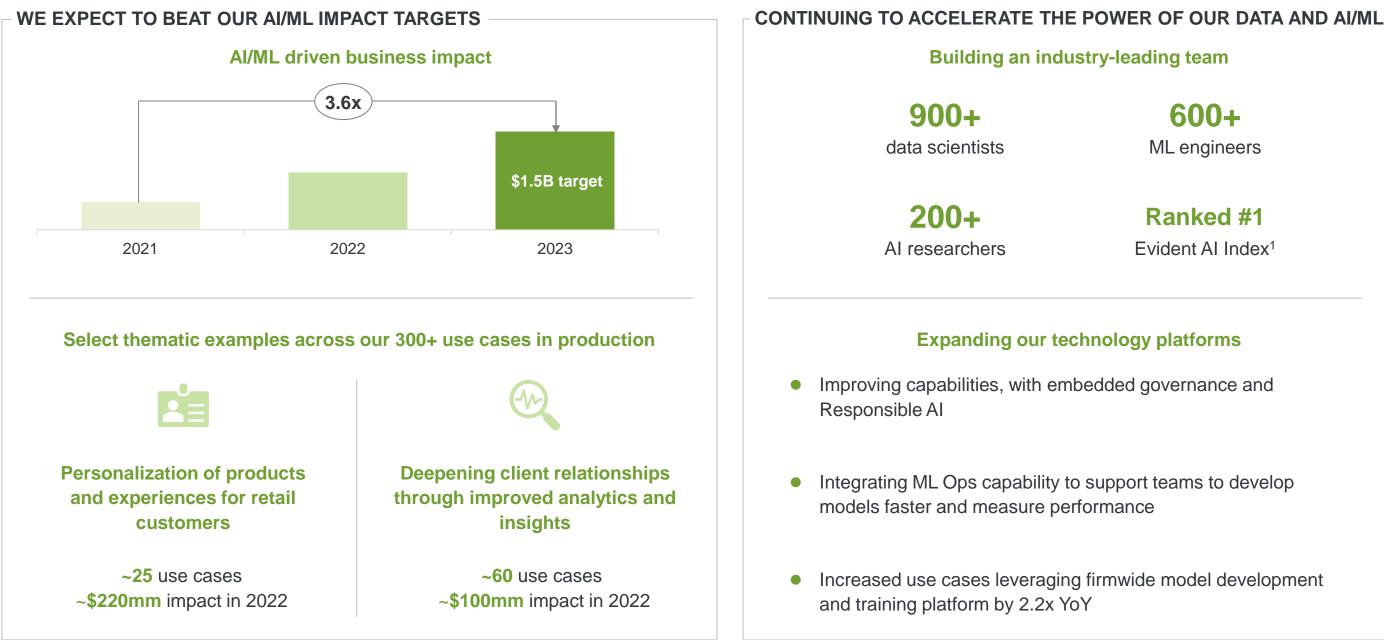


Increased ability to scale to 2.5B trades per day on public cloud from 500mm trades per day on-premise



Reduced monthly running cost by >50%

We continue to prioritize our investment in Data and AI/ML, and see increasing value in our businesses



¹ JPMC ranked number one in the Evident AI Index (January 2023), the first public benchmark of major banks on their AI maturity

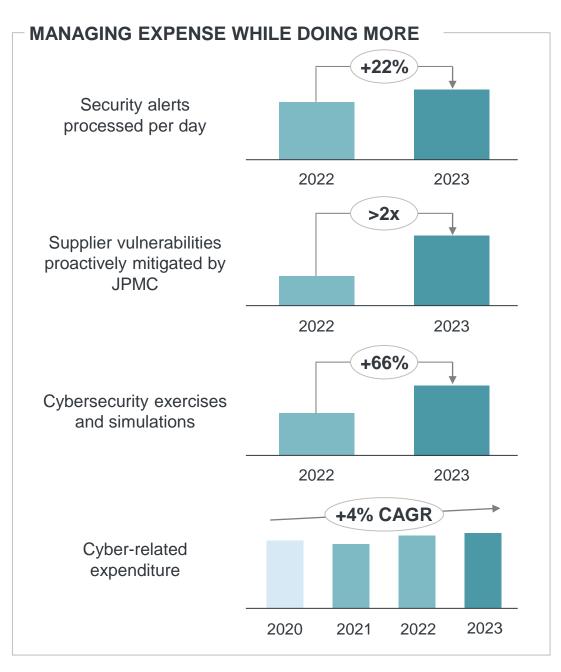
600+

ML engineers

Ranked #1

Evident AI Index¹

We continue to evolve our best-in-class Cyber capabilities through a dynamic threat environment



CREATING VALUE WHILE PROTECTING THE FIRM AND FINANCIAL SERVICES INDUSTRY CRITICAL INFRASTRUCTURE



Further strengthening access and authentication, improving user experience while lowering the burden of managing passwords



Automating security controls by default in development, data, and infrastructure platforms, reducing the number of required developer actions by over 60%



Reduced required actions and introduced straight-through-processing for cloud regulatory compliance resulting in automated approval for over 60% of deployments

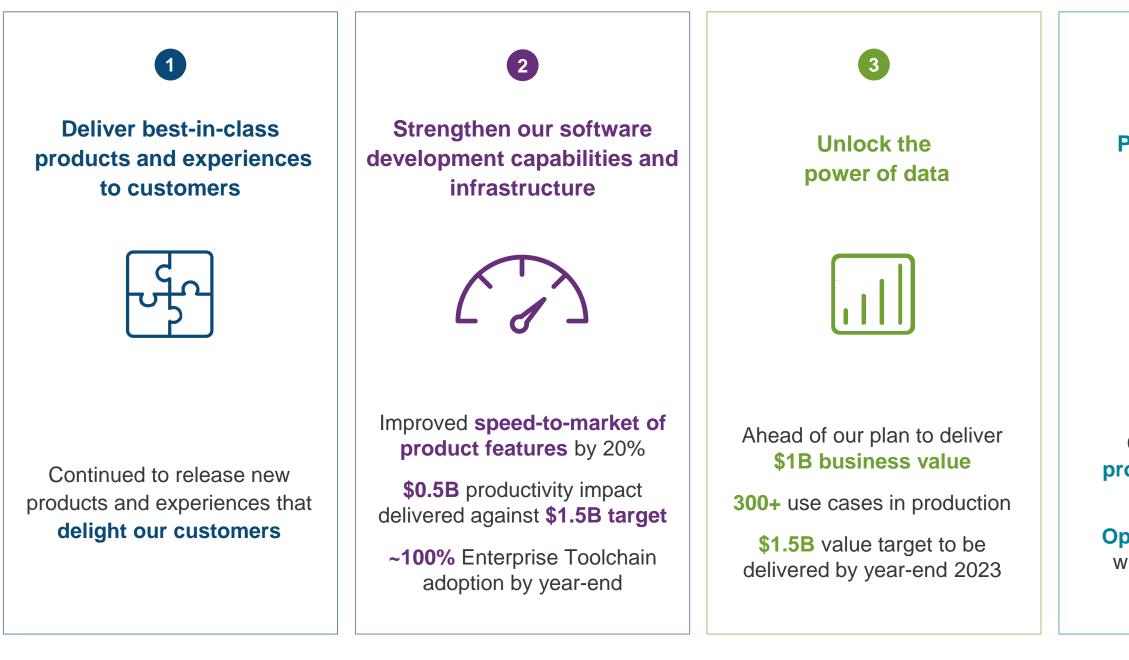


Advising U.S. Government and policy makers to improve public-private partnership and enhance cybersecurity for critical infrastructure

Engaging with NIST¹ as a financial services member of the National Cybersecurity Center of Excellence and collaborating on post-quantum cryptography migration guidelines

¹ National Institute of Standards and Technology

We are well positioned to lead across our businesses, backed by resilient, innovative technology, for years to come





Protect the Firm and our customers



Creating value while protecting our Firm and customers

Optimizing our expense while volumes increase