INVESTOR DAY 2022

GLOBAL TECHNOLOGY

FIRM OVERVIEW

GLOBAL TECHNOLOGY

CONSUMER & COMMUNITY BANKING

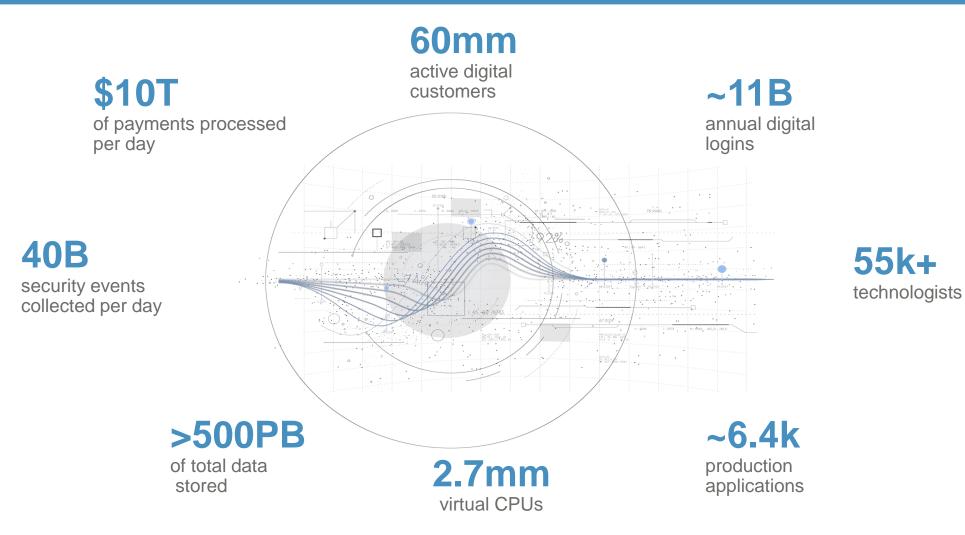
INTERNATIONAL CONSUMER GROWTH INITIATIVES

CORPORATE & INVESTMENT BANK

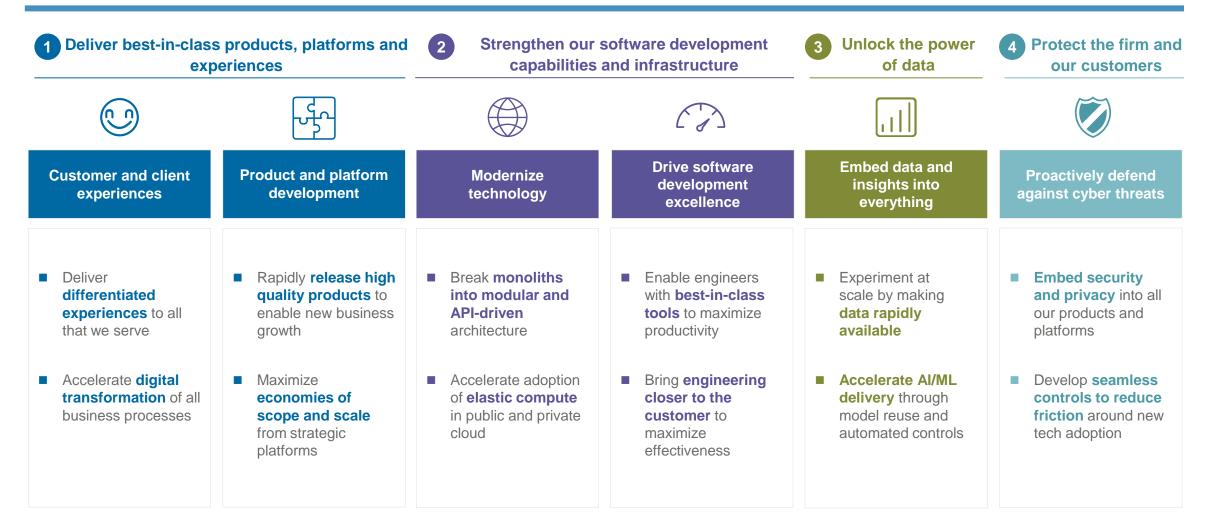
COMMERCIAL BANKING

ASSET & WEALTH MANAGEMENT

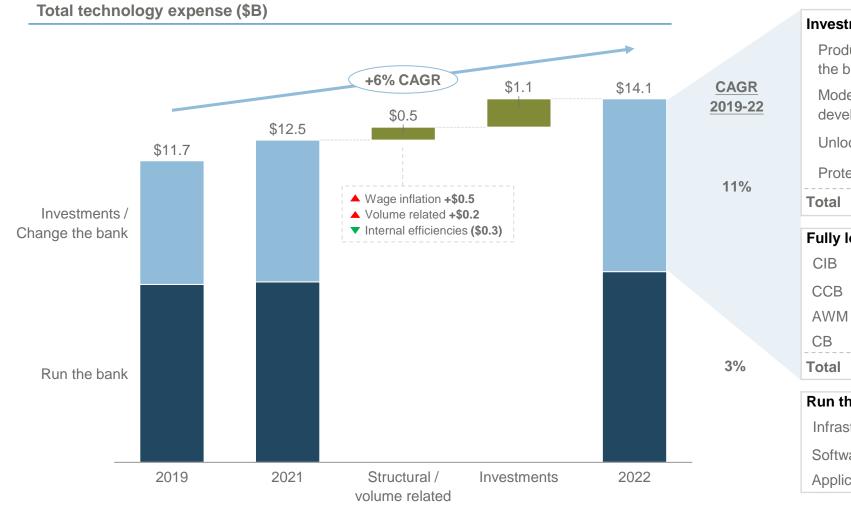
We deliver technology at a global scale



Our technology strategy is aligned to business priorities

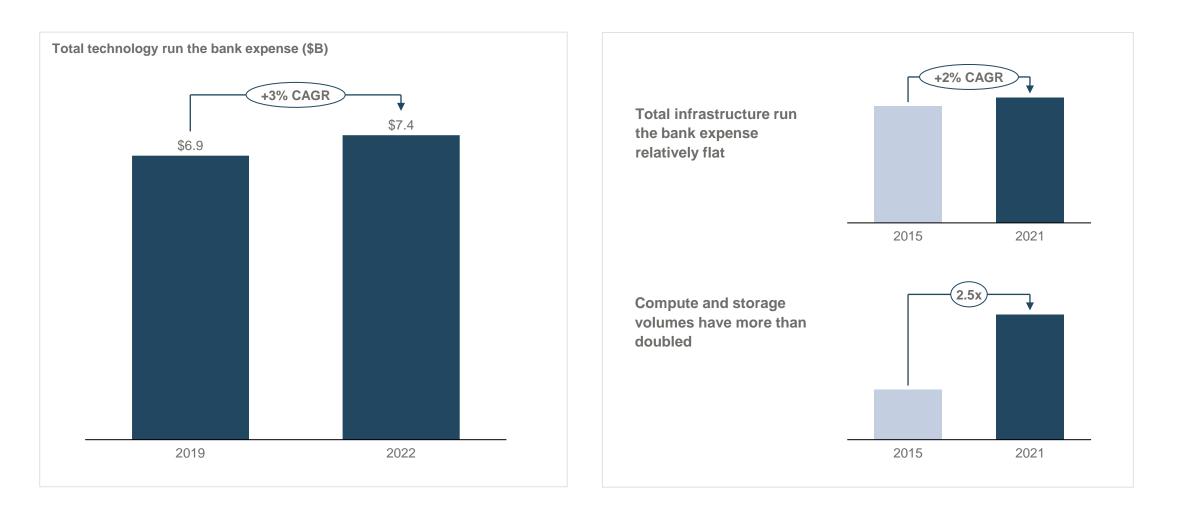


Our expense growth is driven by investments

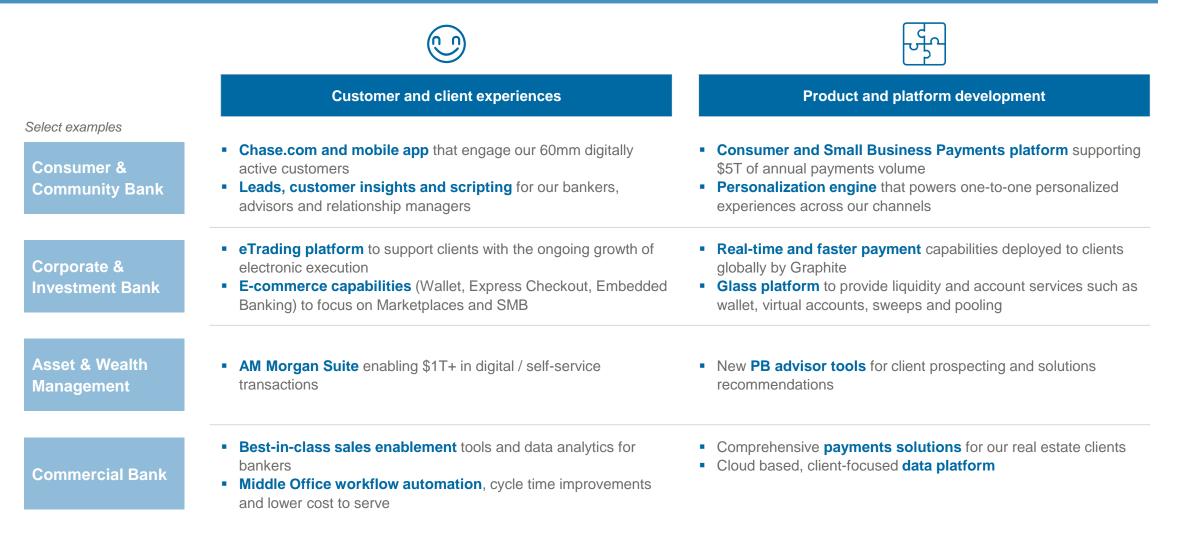


Investments by strategy, 2022		
Products, platforms and experiences (large the business)	ly in \$4.1	
Modernize technology and software development excellence		
Unlock the power of data	\$2.68	
Protect the firm and our customers		
Total	\$6.7E	
Fully loaded investments by LOB, 2022		
CIB	\$3.1B	
ССВ	\$2.4B	
AWM	\$0.9B	
СВ	\$0.2B	
Total	\$6.7B	
Run the bank includes		
Infrastructure		
Software licenses		
Application and production support		

We have held run the bank expense relatively flat, while volumes have doubled



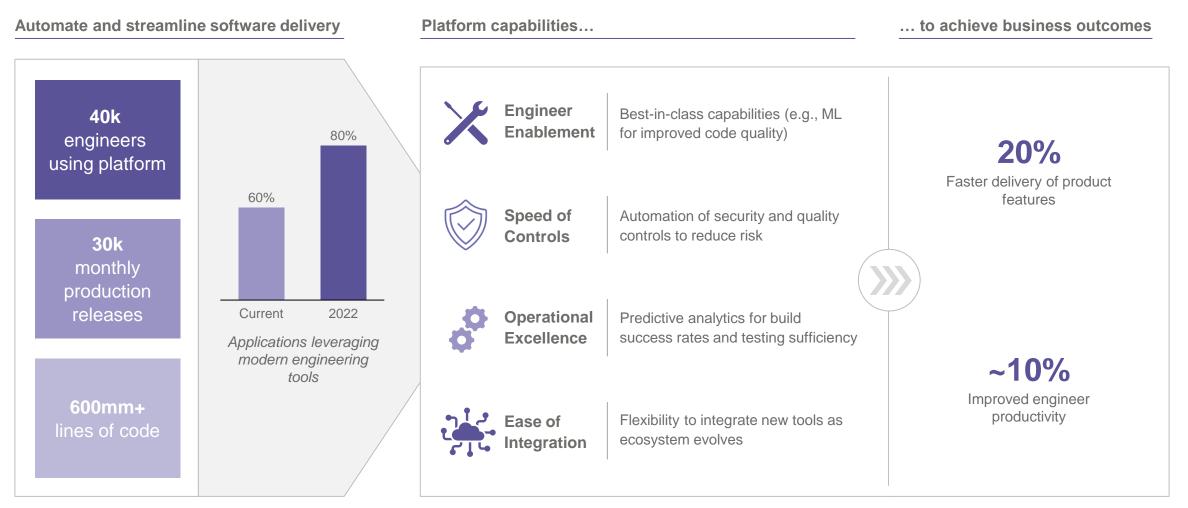
Our \$4.1B investment across the businesses will directly drive returns



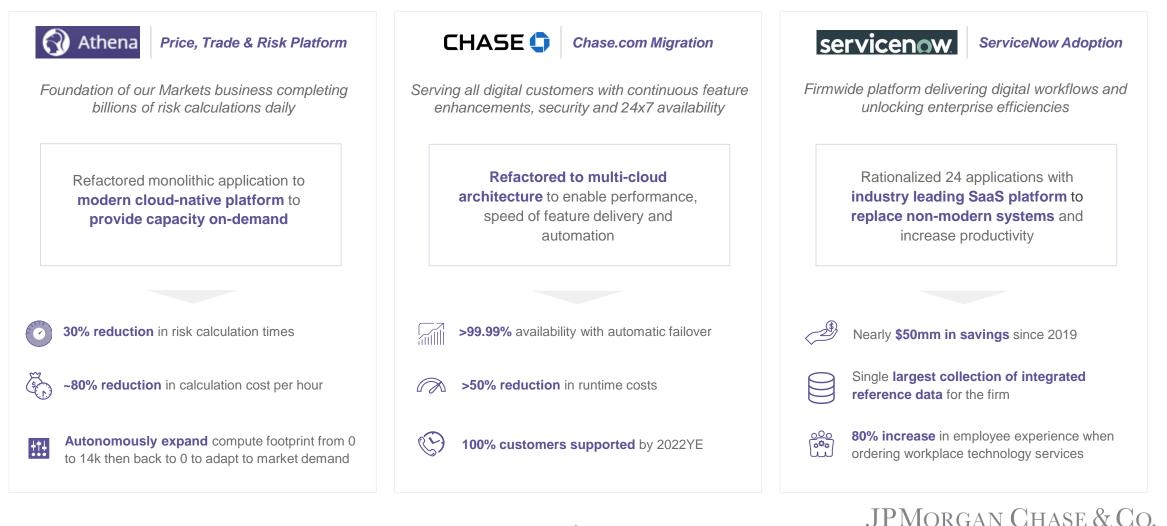
2 Strengthen our software development capabilities and infrastructure We are modernizing our infrastructure and applications to increase speed, resiliency and drive cost efficiency

Strengthening our technology foundation		While delivering value	
Application Modernization	 Refactor applications to optimize cloud adoption (public & private) Replace applications with industry-leading SaaS solutions Build cloud-native core banking systems Decommission redundant applications, 2,200 complete 	On-demand infrastructure c	apacity
		>95% Reduction in hard provisioning time	
Infrastructure Modernization	 Built highly secure private cloud platform Enabled one public cloud provider, two more in progress 30%+ of total infrastructure spend is in cloud (~50% incl. virtual servers) Optimize current footprint, consolidating from 33 to 17 global data centers by 2025 	15-20% Infrastructure cose	st

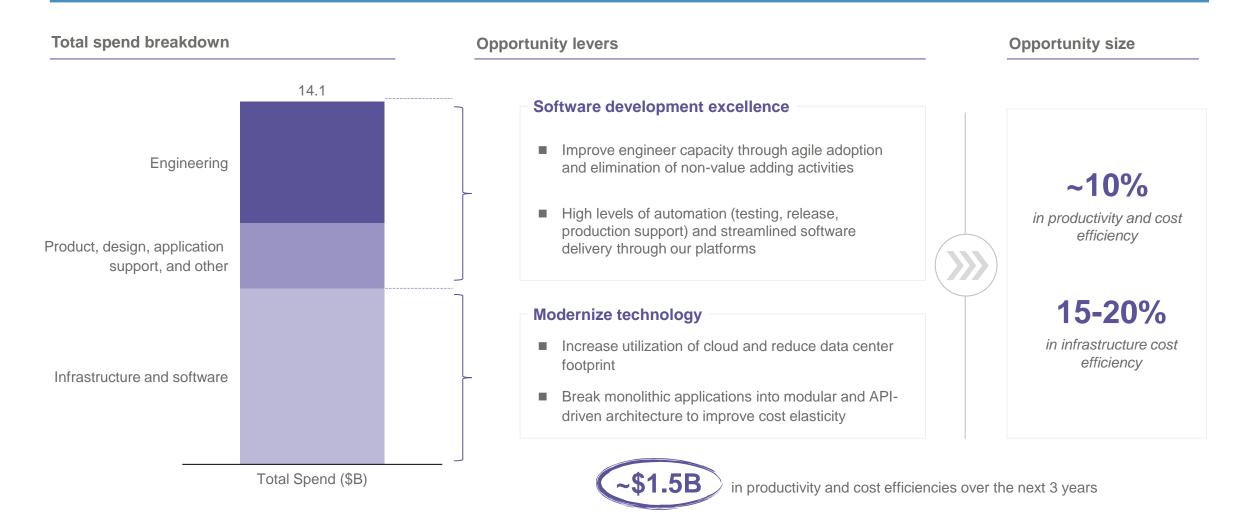
Our software delivery tools drive productivity and speed to market



Three examples that demonstrate the value we have realized



Strengthen our software development capabilities and infrastructure Modernizing technology and software development excellence will drive cost efficiency across the total spend and slow our expense growth



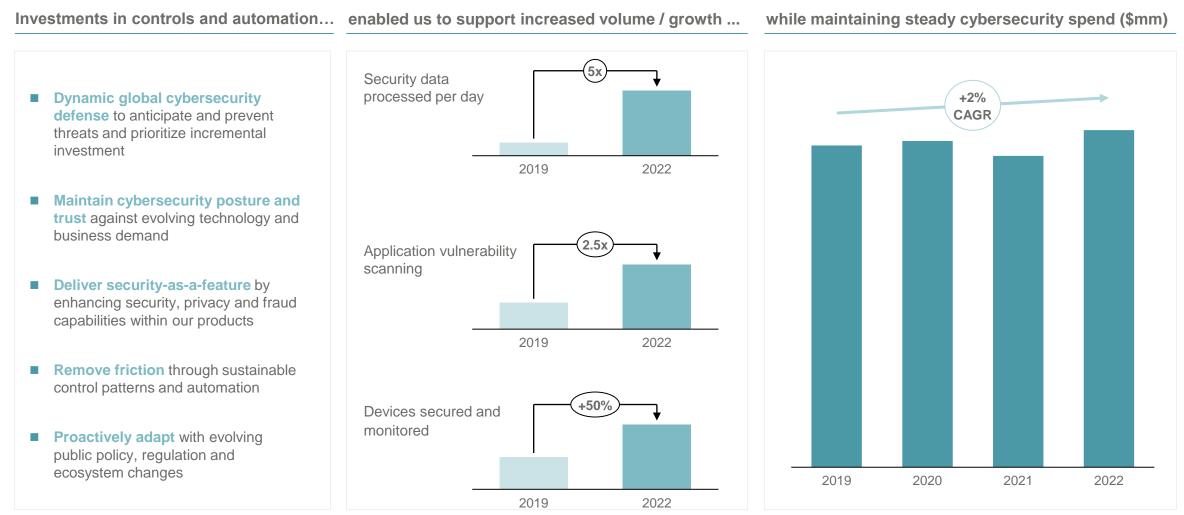
Our AI platforms will drive speed-to-market and enable adoption at scale

We are seeing high impact from our AI investments Build strategic platforms and empower our 1,000+ data scientists \$ impact per \$ spend We are addressing the two biggest challenges in delivering AI at scale... \$1B+ in business Data Management *impact* projected Manage data-as-a-product to Majority of Lifecycle by 2023 make it easier to consume and firmwide combine with other data analytical data Make data available in real 2020 2023 Move data to public cloud for available at speed time greater scale and elasticity and at scale **Select examples Equities Trading (Flow Trader)** Fraud Risk Modelling Utilizing AI to deliver faster quotes to Identifying fraudulent transactions Dedicated training data clients with AI to reduce losses Al Model management platform Lifecycle 70% faster Reduce friction in model model speed-todevelopment process Improve data market Fit-for-purpose policies and Quote Fraud Up to 80% time reduction since and speed \$100mm controls 2017^{1} Time improvement Losses

¹Volumes up **50%** in the same time period

Protect the firm and our customers

We have maintained consistent cybersecurity investment through a dynamic threat and regulatory environment



We are well positioned to differentiate ourselves with technology

