Morgan Stanley Financials, Payments and CRE Conference
Northern Trust Information Technology Overview

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Forward-looking statements

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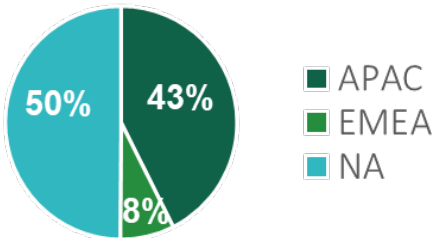
NORTHERN TRUST INFORMATION TECHNOLOGY LANDSCAPE*

| **Strong, dedicated, diverse and global workforce...** | **...addressing an increasingly demanding landscape...** | **...with operational excellence** |

Strong, dedicated, diverse and global workforce...

~ 6,500[1]
TECHNOLOGY WORKFORCE

11% of Northern Trust employees

- APAC — 43%
- EMEA — 8%
- NA — 50%

...addressing an increasingly demanding landscape...

PAYMENTS PROCESSED DAILY
- Average daily payment value $500B
- Average daily Swift messaging $1MM

SECURITY EVENTS PER DAY
- 18.5B events collected
- 2,100 blocked malicious emails

MONTHLY PROCESSING
- 37.5M jobs executed
- 1.4M vendor / client transmissions
- 550 network change executions

...with operational excellence

RELIABILITY
- 60% improvement in core system reliability over past 4 years
- Doubled pace of software releases to support digital platforms since 2019

MANAGEMENT OF HARDWARE, SOFTWARE & OTHER
- 26,500 laptops, 3,500 desktops
- 2,500 applications - 46% high risk/10% critical
- 3,600+ network devices

CHANGE VOLUME & EFFECTIVENESS
- 29k software changes monthly
- 99.7% change effectiveness

*As of March 31, 2023
[1] includes employees and contractors.

NORTHERN TRUST INFORMATION TECHNOLOGY KEY PRIORITIES

Reimagine Core Platform

- Enable **client digital and mobile platforms to move to public cloud** with new capabilities
- Continue to modernize **critical business applications**
- Expand capabilities to more effectively and efficiently **deliver data to clients**

Risk & Resiliency

- Embed **cybersecurity and risk framework** and industry standard production stability into our change agenda and daily operations
- Continue **automaton and effectiveness** of risk and control practices

Innovation Operating Model

- Strengthen **enterprise technical architecture** and approach delivery through a client-centered agile lens
- **Improve speed to market product release** velocity by 10x
- Align to **product ownership model** in support of best in class client experience
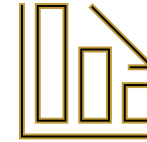
Optimize for Productivity

- **Automate and digitalize** IT operations, generating efficiency in the public cloud and data centers
- **Rationalize and selectively insource managed services footprint** for more purchasing power leverage and competition
- Leverage global footprint for **competitive insourcing**
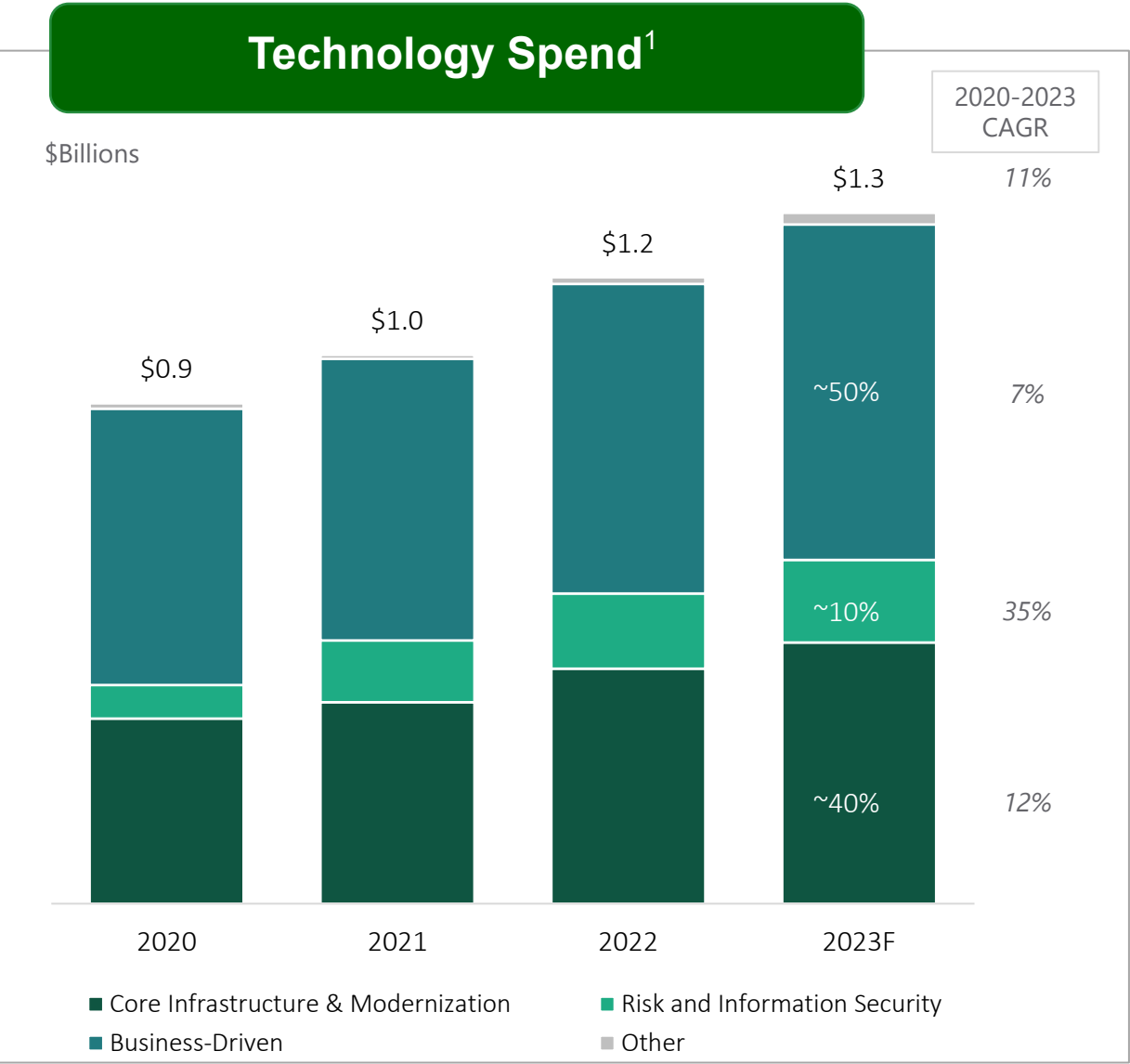
Focused Talent Management

- Invest in current talent through a **learning ecosystem** for continued growth to advance partners' careers and skills
- Nurture a **culture of inclusivity and digital change** to support a workforce empowered to share ideas

Focused on business growth enablement through execution across five strategic themes

IT SPEND FOCUSED ON FOUNDATIONAL AND BUSINESS-DRIVEN APPLICATIONS

Technology Spend[1]

$Billions

	2020-2023 CAGR
$0.9	
$1.0	
$1.2	
$1.3	11%

~50% — 7%

~10% — 35%

~40% — 12%

2020 | 2021 | 2022 | 2023F

- ■ Core Infrastructure & Modernization
- ■ Risk and Information Security
- ■ Business-Driven
- ■ Other

Business-Driven

- Enhancing client experience, expanding technology moat
- Improving capacity, performance & availability of key applications
- Supporting core processing of middle / back office
- Will continue to be largest component of spend

Risk and Information Security

- Monitoring and defending against cyber threats
- Preemptively reducing and remediating identified risks
- Strengthening access and authentication processes

Core Infrastructure & Modernization

- Migration to private / public Cloud
- Resiliency and reliability upgrades
- On-premise infrastructure optimization

[1]Total Expense for Northern Trust Global Technology Services

FUTURE INVESTMENTS SUPPORTING KEY GROWTH INITIATIVES

Investing meaningfully...

- Rapidly deliver innovative client facing solutions

- Continue migration to Cloud to improve efficiency & resiliency

- Evolve adaptive risk and security capabilities to protect client data

- Integrate emerging technologies

...in each of our businesses...

Global operating platform
Asset Management
Asset Servicing
Wealth Management
Securities Services

...across an array of initiatives

- Goals Driven Wealth Management

- Data Mesh / Next Info Delivery

- Front Office Solutions

- Asset Owners Social Network

- European Transfer Agency Technologies

- Client Engagement Hub