



FUTURE OF TREASURY TECH

AI, API, BD, BI, DL, RPA, XML

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ALEXA COOK

Consultant, Strategic Treasurer













An exploration of technologies that are changing treasury.



WHEN. Wednesday, October 7, 2020 11:00 AM – 12:00 PM EDT



WHERE.

Live Online Presentation Replays at StrategicTreasurer.com



This presentation is provided by Strategic Treasurer and Fiserv



ABOUT THE SPEAKERS. GET TO KNOW TODAY'S SUBJECT MATTER EXPERTS.



CRAIG JEFFERY

Craig Jeffery formed Strategic Treasurer in 2004 to provide corporate, educational, and government entities direct access to comprehensive and current assistance with their treasury and financial process needs.

His 30+ years of financial and treasury experience as a practitioner and as a consultant have uniquely qualified him to help organizations craft realistic goals and achieve significant benefits quickly.



ALEXA COOK

Alexa brings a wealth of knowledge to clients based on her domestic and global background in financial reporting, forecasting, cash management, compliance, bank fee analysis, technology solutions, connectivity, and more.

Alexa worked at a Fortune 500 automotive company and managed a full-blown technology implementation and a multilateral netting program that spanned across more than 30 countries with six different currencies. She was also selected for the company's leadership fasttrack and tasked with an expatriate assignment in Germany, where she worked alongside leadership in a manufacturing plant. Alexa received a Bachelor of Science in Finance, followed by an MBA from Oakland University in Rochester, MI.





TOPICS OF DISCUSSION

EMERGING TECHNOLOGY TRENDS



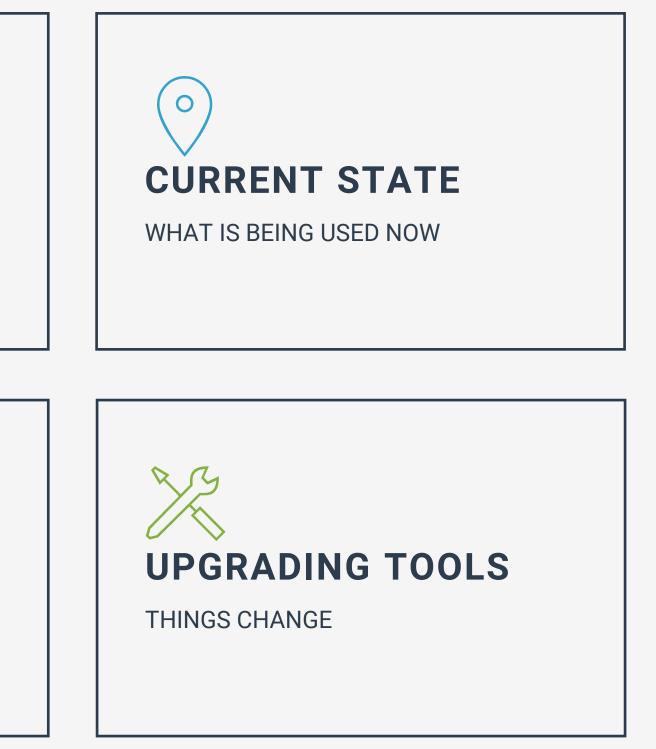
ASSOCIATED WITH NEW TECH



LOOKING AHEAD







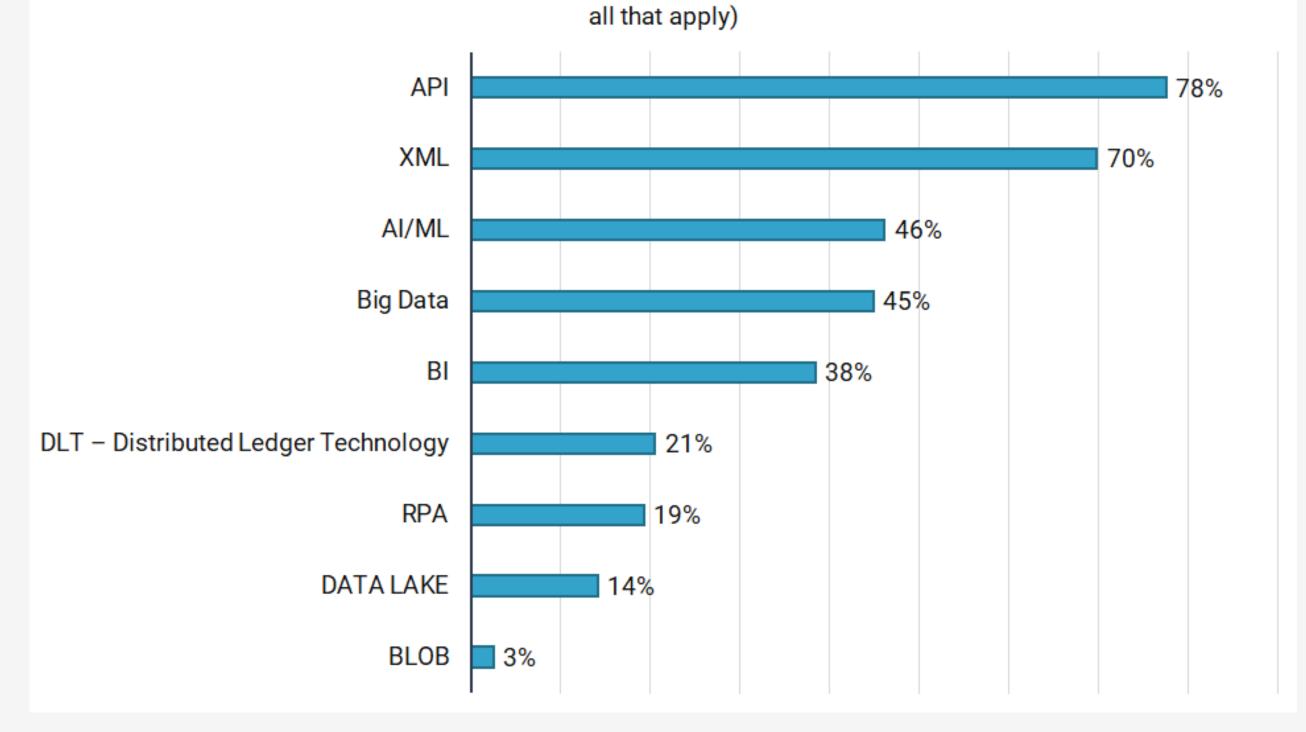
KEY TAKEAWAYS

BEST PRACTICES, RESPONSES AND



POLL QUESTION

I am familiar enough to explain the following terms or abbreviations: (Select









CHALLENGES NEW TECH COMES WITH NEW CONCERNS







NEW TECH

WHAT IS APPROPRIATE FOR YOUR ORGANIZATION

Democratization of technology increases opportunities, but companies should not assume all these offerings are the same. They are not.

• There are dozens of categories of treasury technology and an equally diverse array of providers that service the space.

- the technology space.
- technical architecture.





New innovations including ML and AI are causing major disruption in

While many groups have yet to adopt these technologies, data shows that steady adoption is expected over the next five years.

Corporates should begin future-proofing by establishing a modern

ROBOTIC PROCESS AUTOMATION

BLOB / DATA LAKE

DISTRIBUTED LEDGER



THE CURRENT STATE OF TREASURY TECH

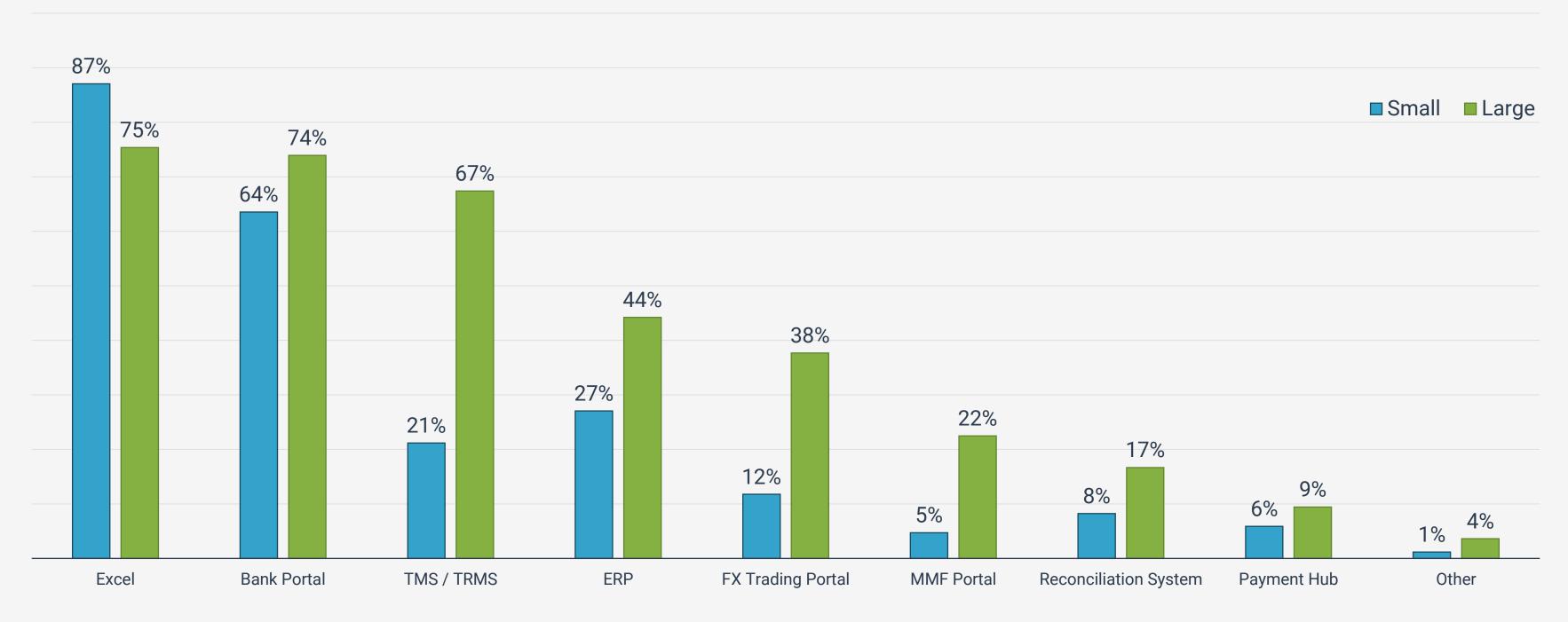
A LOOK AT THE TECHNOLOGY SOLUTIONS LANDSCAPE



Across both small and large firms, Excel spreadsheets and bank portals are the most widely leveraged tools for managing treasury activity.



While a notable portion of large firms utilize a TMS or ERP for treasury, very few small firms do so. Aside from bank portals and Excel, there is significant deviation between small and large firms regarding their technology use.





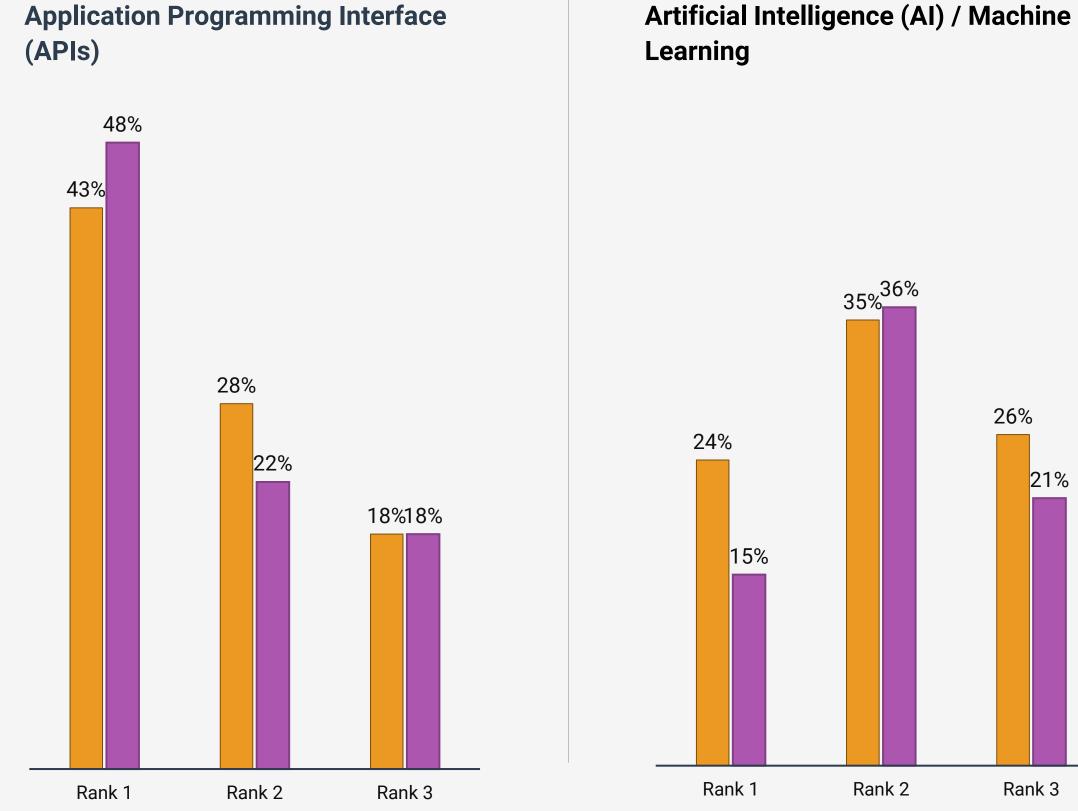
Excel & Bank Portals Lead the Way

TMS / ERP Options



TECH USE TREASURY – A PRACTICAL GROUP

Please rank the following technologies or services in the order that you believe they will impact B2B payments over the next 2-3 \gg years:



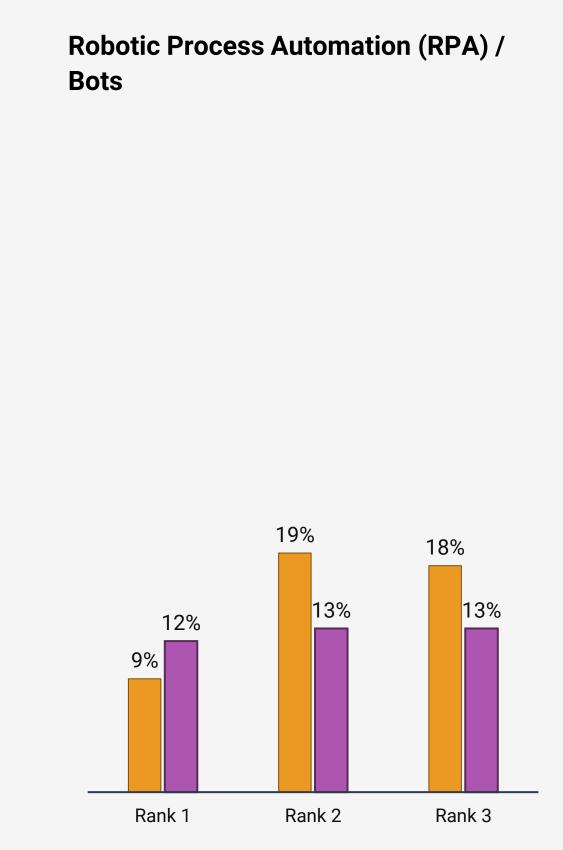
2020 2019

26%

21%

Rank 3

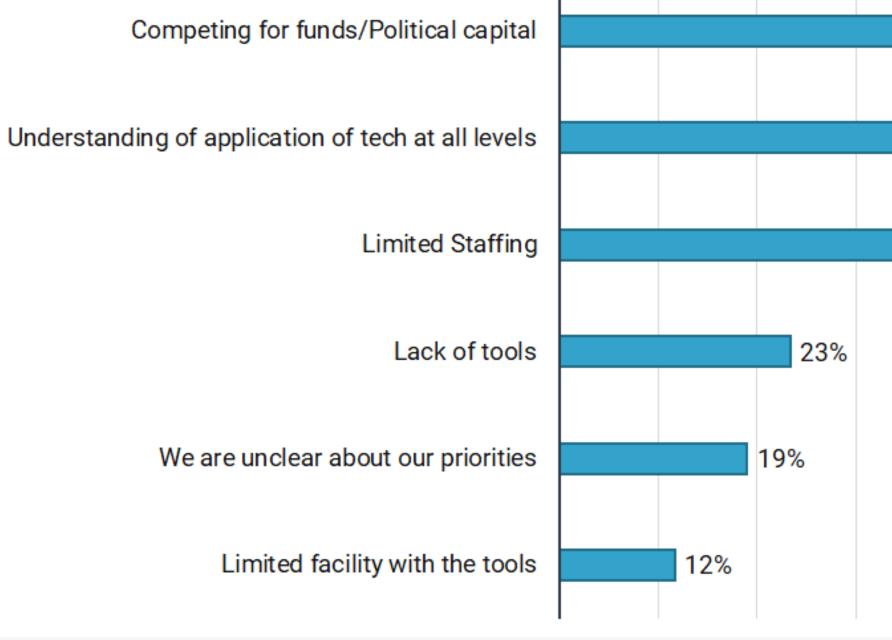






POLL QUESTION

What are the biggest challenges in your organization to leveraging tech: (Select all that apply) Competing for funds/Political capital 64% 54% Limited Staffing 54% Lack of tools 23% We are unclear about our priorities 19% Limited facility with the tools 12%



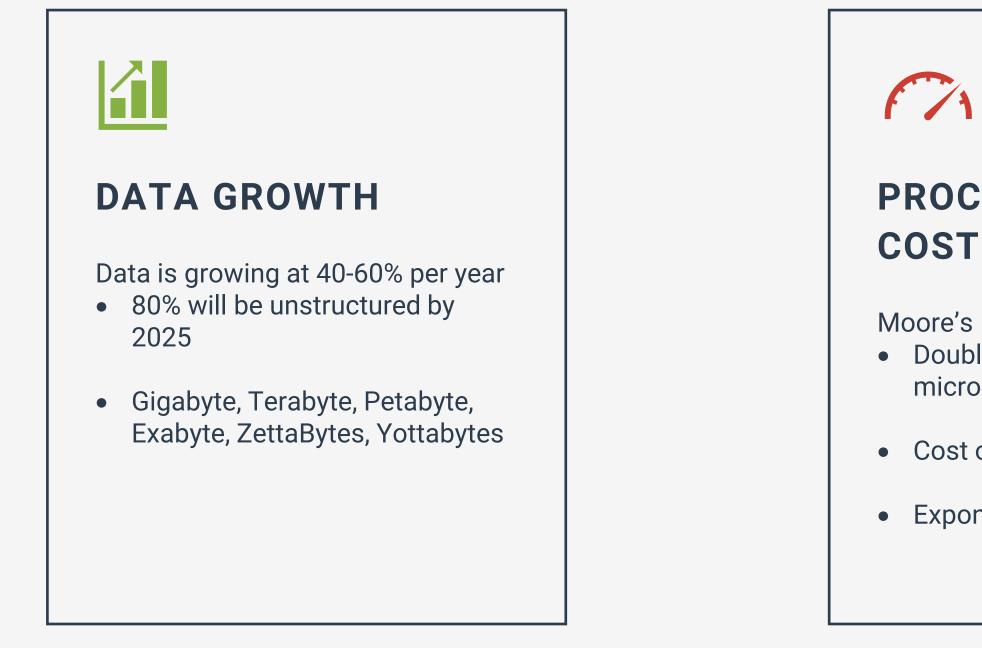


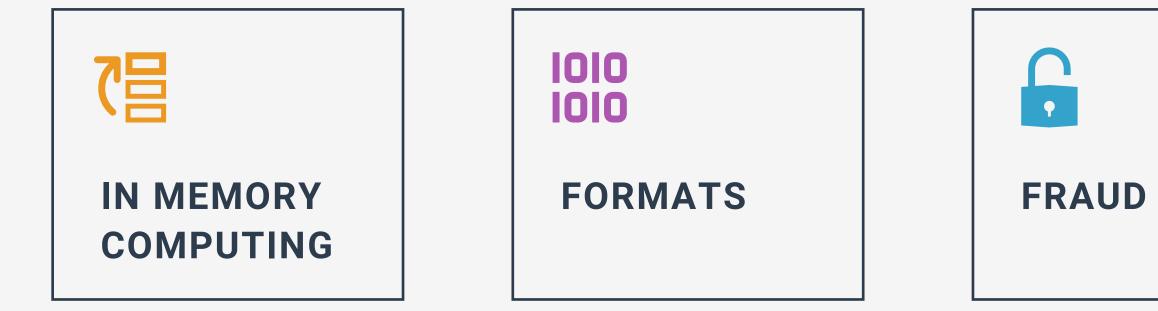




BIG ISSUES

TECH TO THE RESCUE OR IS TECH THE SOURCE?







PROCESSING SPEED &

Moore's Law • Doubling of transistors on microchips every 2 years

• Cost of computers is halved

• Exponential growth





UPGRADING OUR TOOLS

THE GAME HAS CHANGED



CHESS MASTER

DEEP BLUE

- 1996: Lost to Gary Kasparov out of six games
- 1997: Upgraded, beat Gary Kasparov 3.5 to 2.5
- Alleged cheating Deep Blue was dismantled

STOCKFISH

- 2014, 2016, 2018: Various versions
- Historical game inventory ٠
- Massive computing power ٠
- Open source

ALPHAZERO

- 2017: 9 hours of training and no access to historical chess games
- Plays Stockfish 72 draws, 28 wins, 0 losses
- 4 hours of learning estimated to have a higher ELO than Stockfish



ALPHADOGFIGHT TRIAL

۲



August 2020: AI system managed victory over a top U.S. Air Force fighter pilot

The human opponent was "shot down" five times in a row by the AI drone

The system was developed for a competition between 8 AI companies and went from concept to reality in just over a year

Not a perfect comparison: AI had a significant advantage over the human pilot

The human pilot was forced to fight on the computer's terms, not vice versa

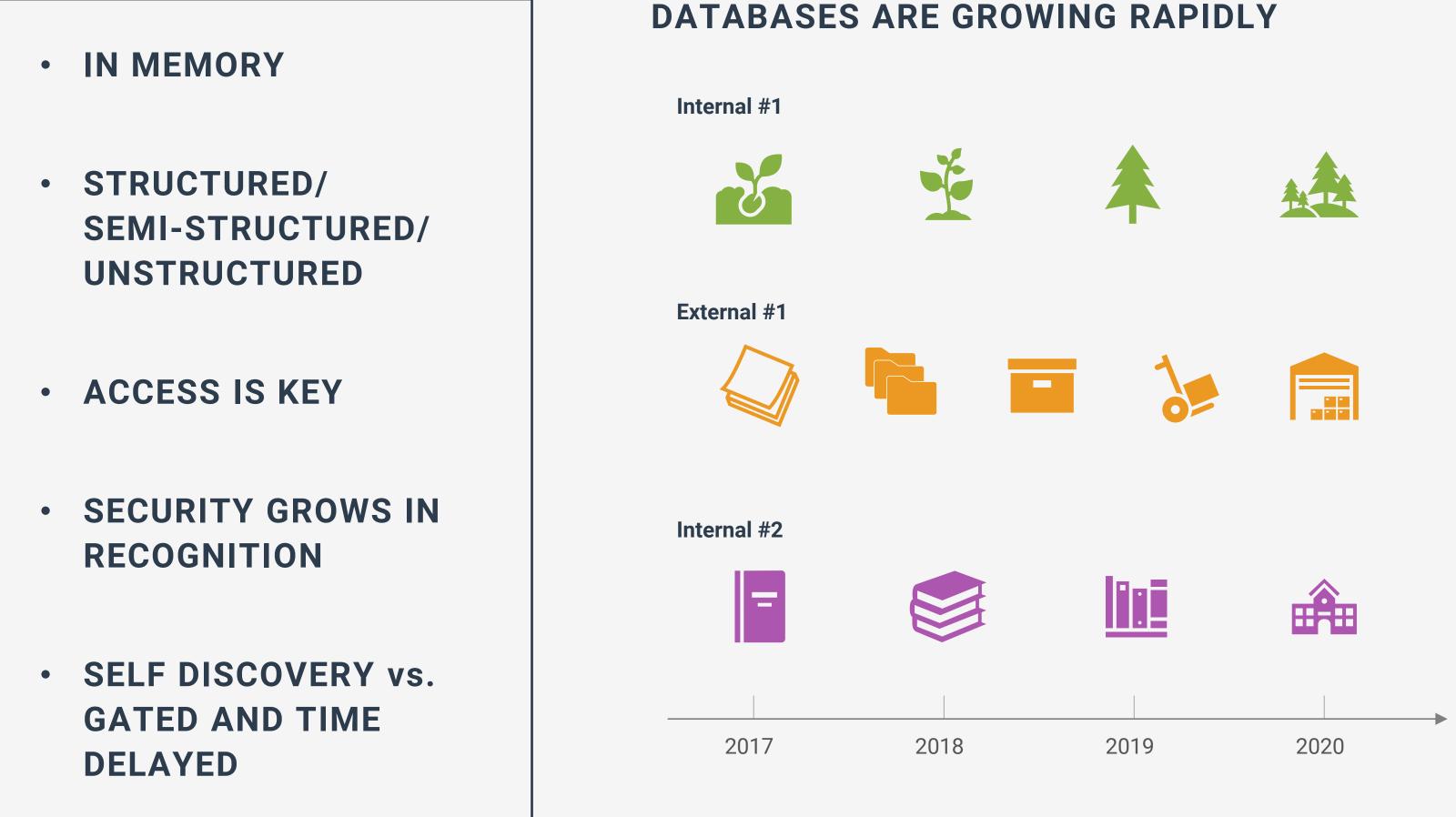
Events were heavily scripted with companies being provided that before the contest

Pilot had to use VR goggles and nonstandard equipment



BIG DATA · BI · ANALYTICS

REQUIRES A NEW PLAN FOR DATA ORGANIZATION



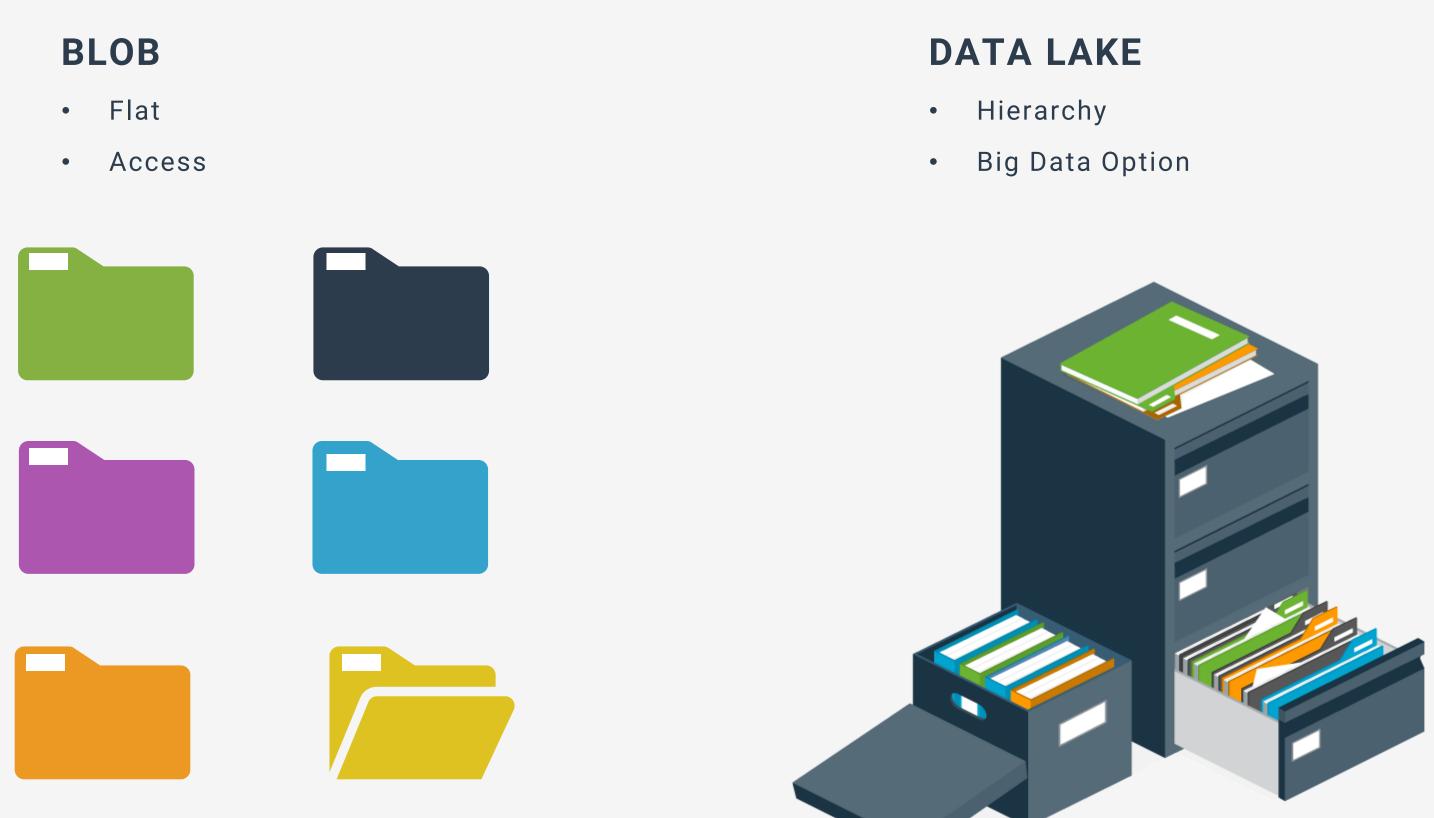






DATA STORAGE

BLOB & DATA LAKE



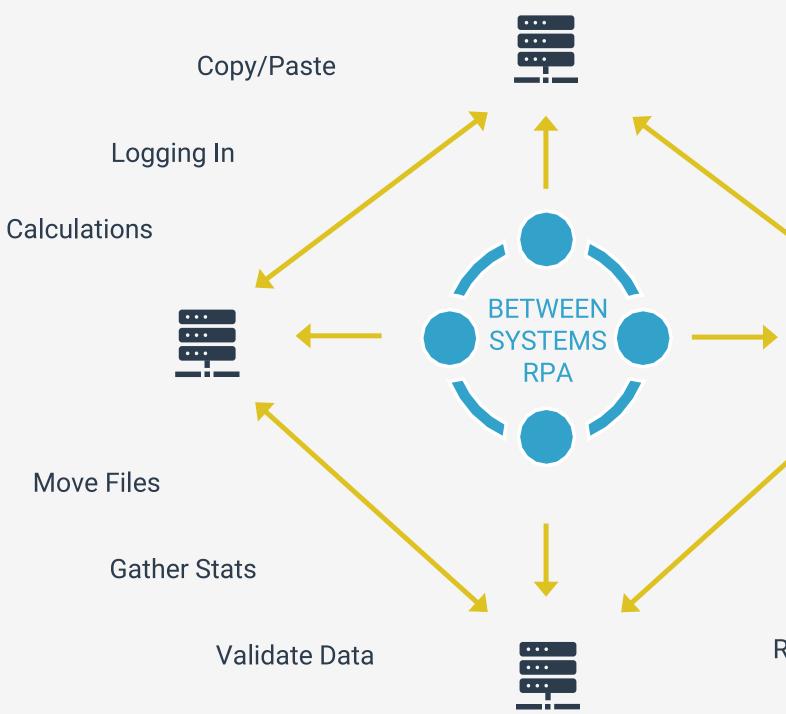






ROBOTIC PROCESS AUTOMATION (RPA) WHAT CAN IT DO?

- Branding Between Systems
- Automate Tasks Across
 Environments





- UIPath
- Blue Prism

Forms Correction

Screen Scraping

Logic Roles/Steps



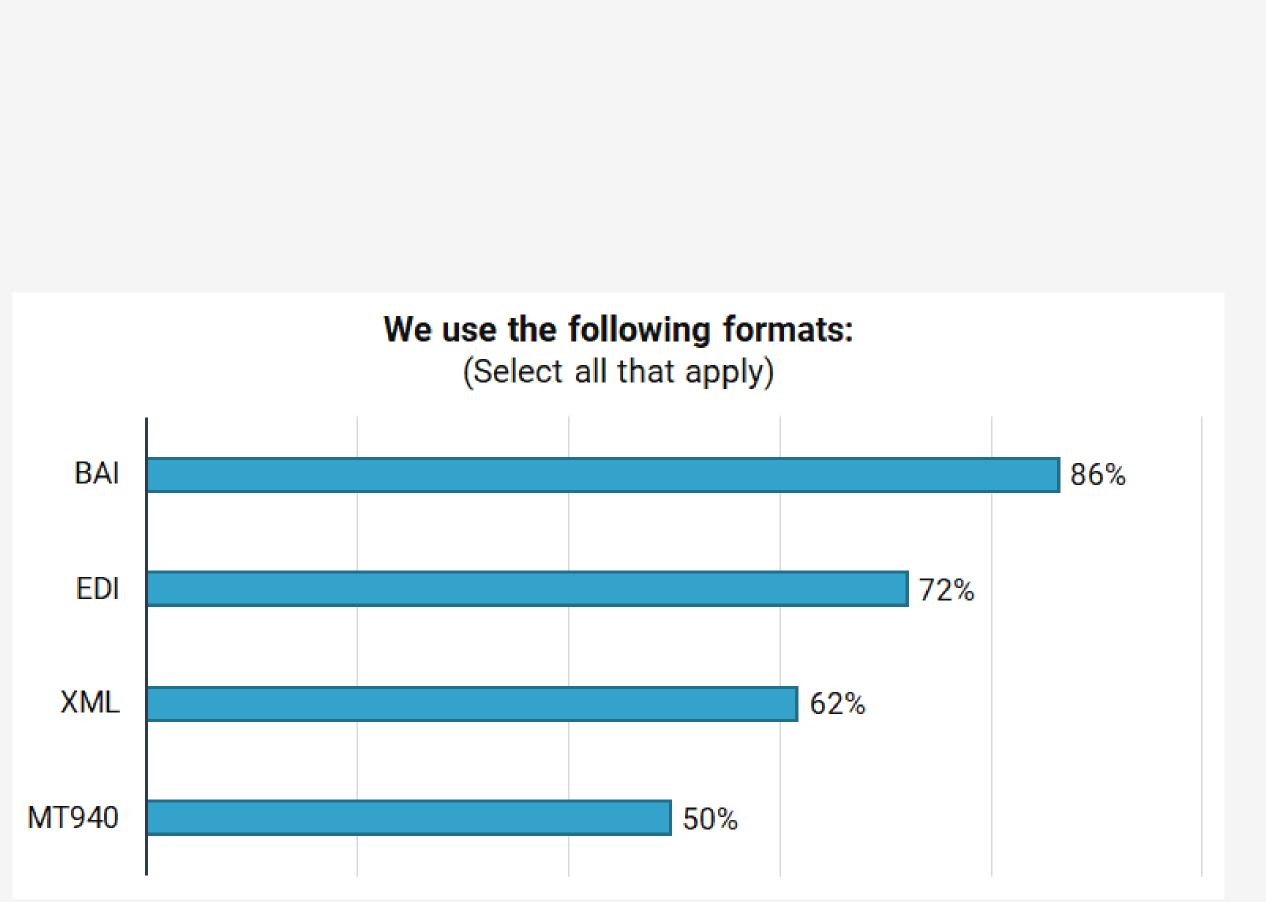
Move Folders

Extracting Data/Structure

Rewrite to Database



POLL QUESTION







FORMAT XML EXTENSIBLE MARKUP LANGUAGE

OLD STYLE ——

This file illustrates Version 2 transmission formats. 01,122099999,123456789,040621,0200,1,65,,2/ 02.031001234,122099999,1,040620,2359,.2/ 03,0123456789,,010,+4350000,,,040,2830000,,/ 88,072,1020000,,,074,500000,,/ 16,,115,450000,8,100000,200000,150000,,,/ 49,9150000,4/ 03,9876543210,,010,-500000,,,100,1000000,,,400,20000 88,500000,,,110,1000000,,,072,500000,,,074,500000,,,04 88,-1500000,/ 16,115,500000,S,,200000,300000,,,LOCK BOX NO.687 49,400000,5/ 98,13150000,2,11/ 02,053003456,122099999,1,040620,2359,,2/ 03,4589761203,,010,10000000,,,040,5000000,,,074,4000 88,400,50000000,,,100,60000000,,,110,20000000,,,072,1 16,218,2000000,V,040622,,SP4738,YRC065321/ 88, PROCEEDS OF LETTER OF CREDIT FROM THE 16,195,1000000,1,../ 49,18000000,6/ 98,18000000,1,8/ 02,071207890,122099999,1,040620,2359,,2/ 03,0975312468,,010,500000,,,190,70000000,4,0,110/ 88,7000000,15,D,3,0,2000000,1,3000000,3,2000000 49,140500000,3/ 98,140500000,1,5/ 02,071207890,122099999,3,040620,2359,,2/ 03,7890654321,,010,800000,,,040,6000000,,,110,500000 88,4,/ 49,11800000,3/ 98,11800000,1,5/ 99,345450000,4,31/

CHASUS33 940 MIDLGB22 :20:123456 :25:123-304958 :28C:123/1 :60F:C090123USD395212311,71 :61:090123C50000000,NTRFNONREF//8951234 ORDER BK OF NYC WESTERN CASH RESERVE :61:090126C5700000,NFEX036960//8954321 :61:090127C200000,NDIVNONREF//8846543 :86:DIVIDEND LORAL CORP PREFERRED STOCK 1ST QUARTER 2009 :62F:C090123USD451112311,71 :64:C090123USD445212311,71 :65:C090126USD450912311,71 :65:C090127USD451112311,71 :86:PRIME RATE AS OF TODAY 11 PCT

BAI

MT940



NEW STYLE —— <GrpHdr> <MsgId>2012-12-28-21.57.10.212988</Msg <CreDtTm>2012-12-28T20:57:10Z</CreDtTr + <MsgPgntn> </GrpHdr> <Stmt> <Id>2012-12-28-21.57.08.985714</Id> <ElctrncSeqNb>512</ElctrncSeqNb> <CreDtTm>2012-12-28T20:57:08Z</CreDtTr - <Acct> - <Id> - <Othr> <Id>50070010/98765430000</ </Othr> </Id> <Ccy>EUR</Ccy> - <Ownr> <Nm>Example Customer</Nm> </Ownr> - <Svcr> + <FinInstnId> </Svcr> </Acct> - <Bal> - <Tp> <CdOrPrtry> <Cd>CLAV</Cd> </CdOrPrtry> </Tp> <Amt Ccy="EUR">2856200.15</Amt> <CdtDbtInd>CRDT</CdtDbtInd> - <Dt> <Dt>2012-12-28</Dt> </Dt> </Bal> - <Bal>

CAMT (XML)



WHAT IS YOUR DECISION HIERARCHY ABOUT TECH



Would you buy a bag phone today?





Flexibility – Enriched Data



What should you require?

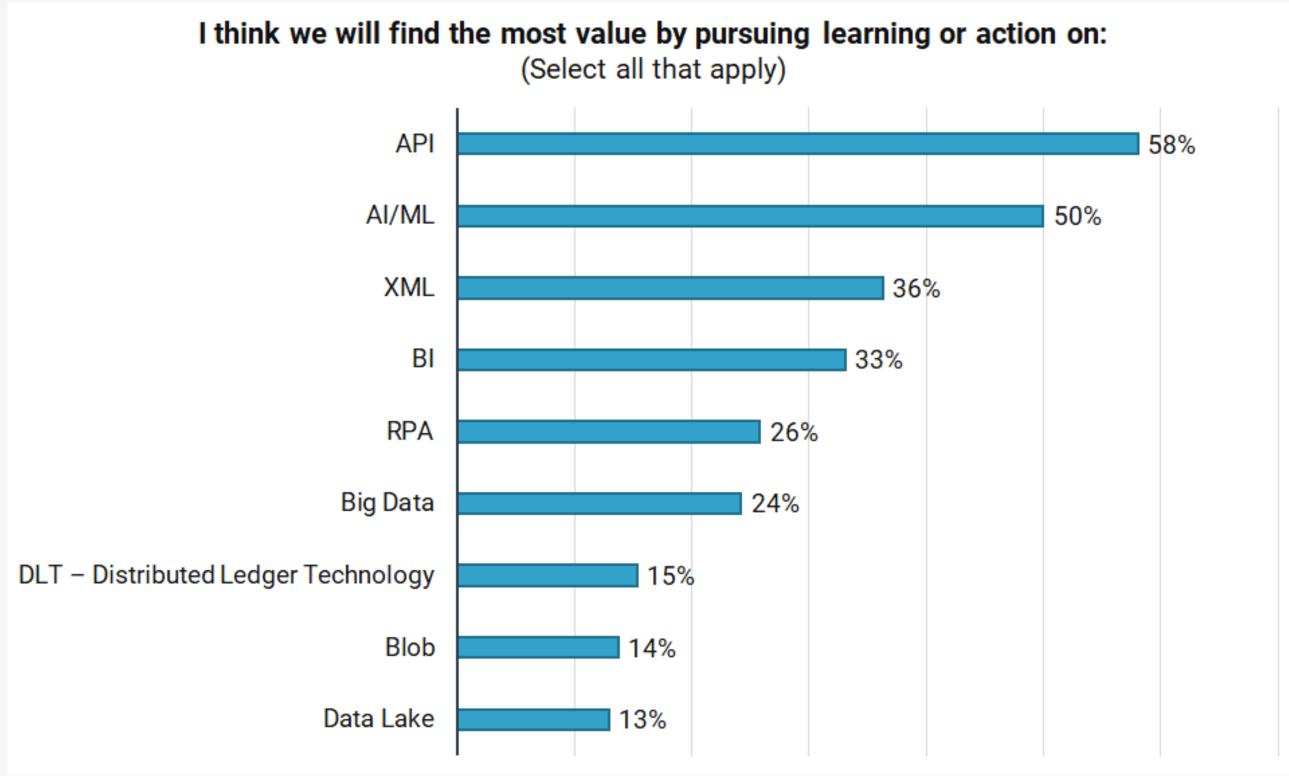


Banks? Tech Providers? Positioning





POLL QUESTION

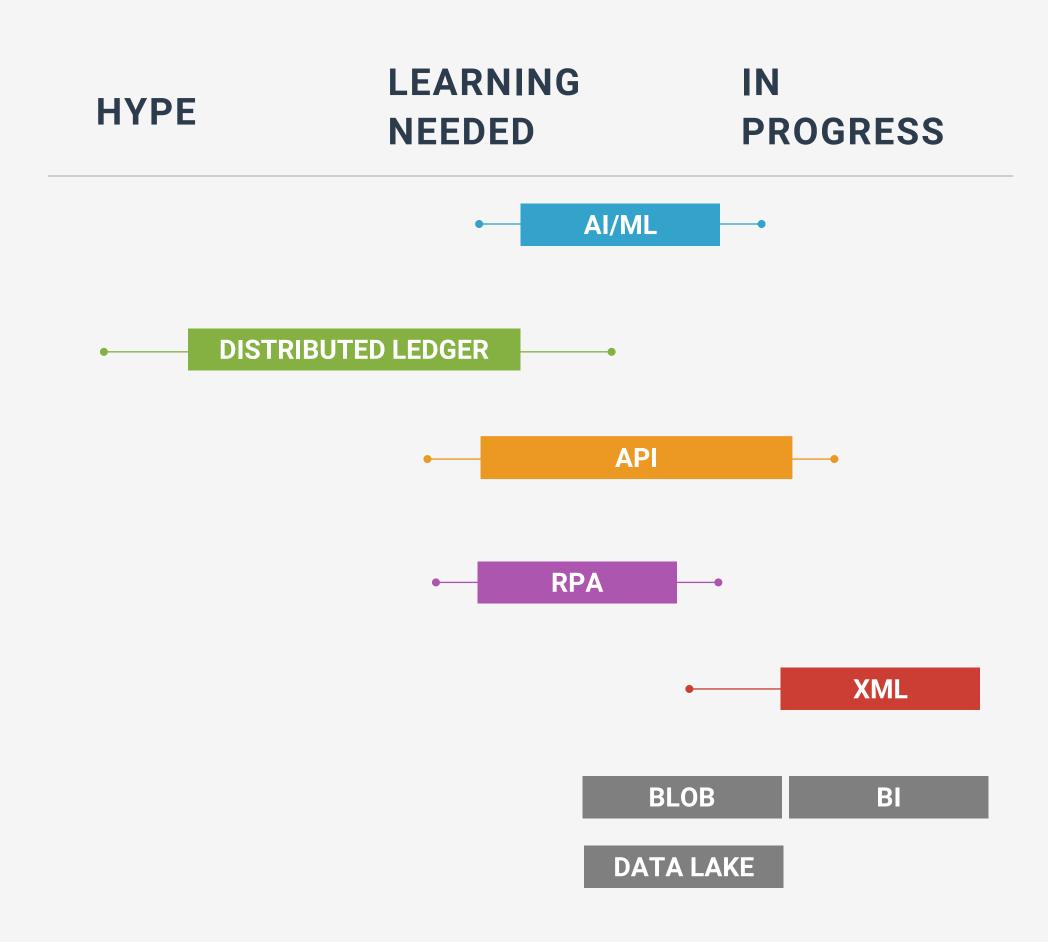








POSITION IN TREASURY





- Example/deploy in system
- Monitor
- Check in/tech vendor
- Assign person
- Primary option going forward
- Learn
- Replace reporting
- Leverage BI resources in firm



WHAT IS THE IMPACT TO US? DATA, PEOPLE AND OUR TECHNOLOGY STACK





Leads to Different Views of the Tech Stack of Finance

- Accounting
- Treasury
- AP/AR

Having access to what they want to know, when they want to know it





People Who Can Use the **New Tools**

Growing the team's ability



KEY TAKEAWAYS



INVENTORY THE OPPORTUNITIES

- What is on your radar? ٠
- What are others looking ٠ at?
- What are others using? ٠ Piloting?



PRIORITIZE

- How do the various • opportunities stack up (vapor vs. real)?
- What is more important? •
- Do you have the capacity • to test or adopt?



PLAN

•

- Creating a plan to learn ٠ or become a learning organization
 - Identifying timeframes, responsibilities and approach to achieve your objectives.



PROGRESS

- Monitoring and • calibrating relevant technology developments
- Advancing your team's • learning and facility with tools
- Adopting and expanding • the payoff



LET'S CONNECT.

DON'T LET THE LEARNING END HERE... CONTACT US WITH ANY FUTURE QUESTIONS.

Thank you for your interest in this presentation and for allowing us to support you in your professional development. Strategic Treasurer and our partners believe in the value of continued education and are committed to providing quality resources that keep you well informed.



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SHARE YOUR THOUGHTS



Give 5 minutes once a month and help your company and fellow treasury professionals by responding to the Global Recovery Monitor.

