



# Technology Tune-Up

New Expectations, Developments, & Trends

**Craig Jeffery,** Managing Partner, Strategic Treasurer **Ernie Humphrey**, CEO & COO, Treasury Webinars



### About the Presenters









Craig Jeffery, CCM, FLMI Founder & Managing Partner Strategic Treasurer

Craig Jeffery formed Strategic Treasurer LLC 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.



**Ernie Humphrey, CTP** CFO & COO **Treasury Webinars** 

Ernie Humphrey currently serves as the CEO of Treasury Webinars and the CEO of 360 Thought Leadership Consulting. Ernie is a proven strategy and financial professional with 20+ years of experience. He has diverse industry knowledge as a seasoned corporate finance practitioner, a leader at the largest association for financial professionals (the Association for Financial Professionals (AFP)), and as a driving force behind the development of what was formerly the largest online community for senior level financial professionals (Proformative). Ernie has a BS and MS in Economics both from Purdue University.



### **Topics of Discussion**









### The Corporate Treasury Situation

- Broad Responsibilities
- Limited Staffing
- The Need for Efficiency
- Treasury turns to Technology

### What are Others Doing & Experiencing?

- The Current State of Treasury Technology Use
- Future Outlook: Spend Plans & Areas of Focus

### **Top Treasury Technology Drivers & Trends**

- **Emerging Payments**
- Fraud & Security
- Cash Visibility & Bank Connectivity

### Structuring a Technology Stack

**Key Technology Considerations for Treasury** 

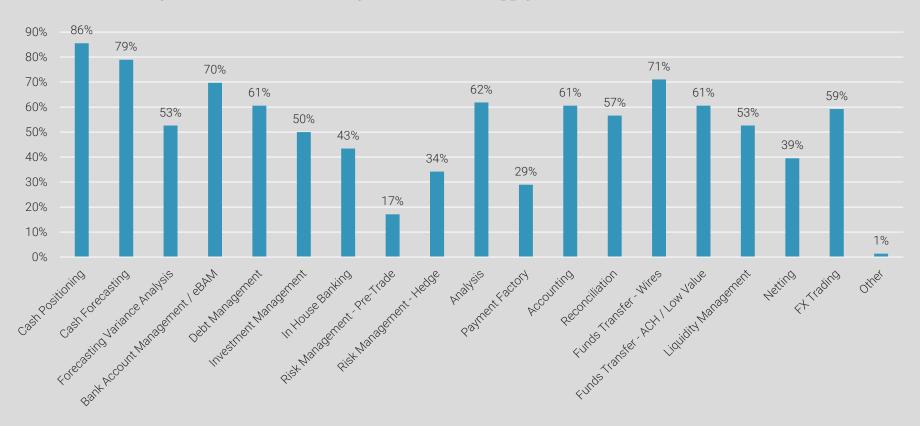


### Treasury's Needed Functionalities





#### What functions do you use or need in treasury? (Select all that apply)1



Treasury at the Helm. There are a broad number of responsibilities and functionalities that treasury is held responsible for. Many of these responsibilities extend beyond basic cash and payments management to include FX trading, risk management, accounting, reconciliations, and investment/debt management.





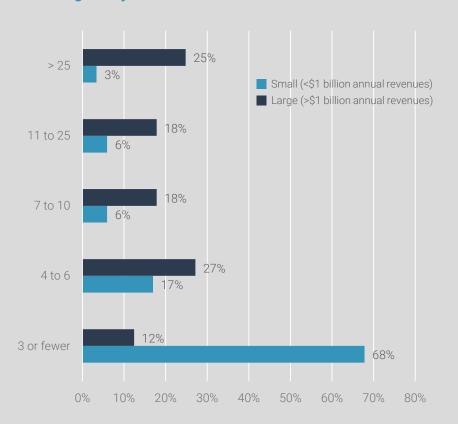
### The Issue of Reduced Staff





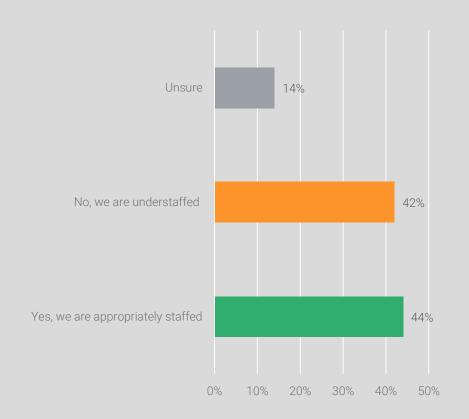


#### How large is your global treasury organization, including analysts?2



Heightened Responsibility, Limited Manpower. While Treasury's responsibilities are increasing, many departments continue to operate with limited levels of staff, which makes it difficult to manage every area of their operations.

#### Are your staffing levels where they need to be now?<sup>3</sup>



A Struggle to Perform. When asked if their staff levels were where they needed to be, a sizeable portion of respondents to a 2017 survey saw themselves as understaffed. In these circumstances, treasury must turn to technology to increase efficiency.





### Treasury Turns to Technology

Connect on StrategicTreasurer.com in 

Connect on Strateg





#### **Treasury Technology as an Investment**

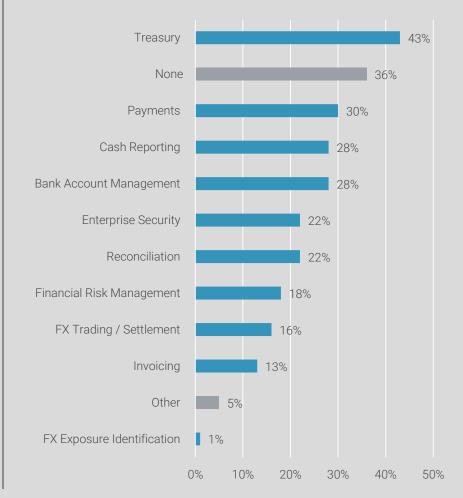


Treasury's Technology Focus. As the issue of low staff and increasing responsibility continues to beleaguer treasury, investments in IT and financial software are becoming increasingly common.



**Democratization of Technology.** While treasury technology has historically only been affordable to the largest of organizations, the "democratization of technology" that has occurred due to increased competition in the space is resulting in a landscape where TMS options provide more functionality for a greater number of firms at a lower cost.

### We intend to make significant information technology investments in the next year in the following areas: (Select all that apply)<sup>4</sup>





## The Treasury Technology Landscape

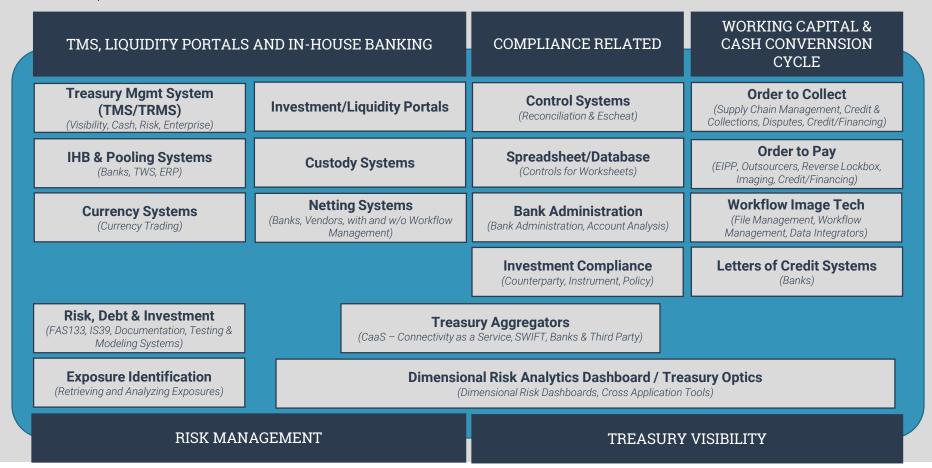
Connect on StrategicTreasurer.com (in C)





### **Understanding the Full Scope of Offerings**

- The treasury technology landscape becomes guite complex when evaluating the full spectrum of available functionalities and services.
- While some solutions may only focus on a specific area of functionality, other platforms aim to address multiple needs by offering a broad suite of capabilities.





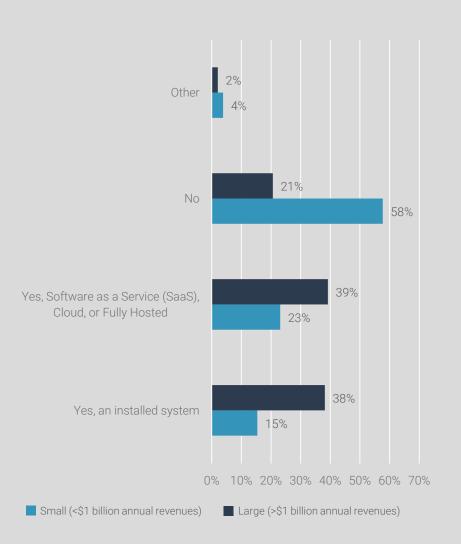


### Treasury Technology: Current State



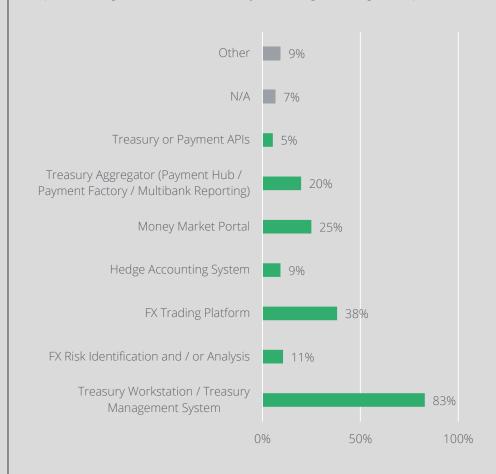


### Do you have a treasury system besides Excel?5



#### What treasury systems do you currently use?6 (Select all that apply)

(of those respondents that selected "yes" to the previous question)





### Treasury Technology Perspectives

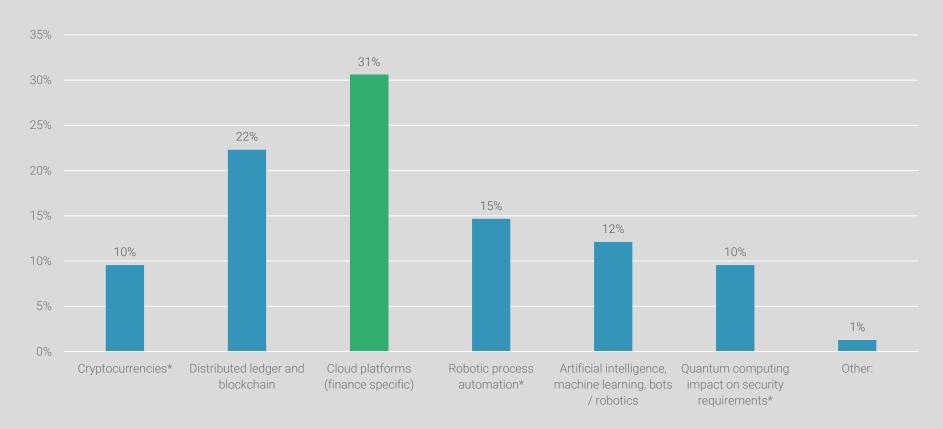
Connect on StrategicTreasurer.com (in 🖸 💟





#### **Technology Impact: Emerging Payments**<sup>7</sup>

Which of the following disruptors do you see as having the greatest impact on treasury functions and payments in the next 2-3 years?



#### SaaS Applications Dominate Treasury's Technology Focus:

Given the sophistication of today's SaaS applications and the broad suite of capabilities they offer, treasury clearly feels as though the importance of these solutions still top such developments as AI and blockchain, at least for the time being.





Connect on StrategicTreasurer.com (in 🖸 💟





#### Payments to the Forefront in 2018



Global Payments Development. Across the world, various faster payments and real-time payments initiatives, both crossborder and domestic, are revolutionizing the practices by which consumers and businesses alike transact.



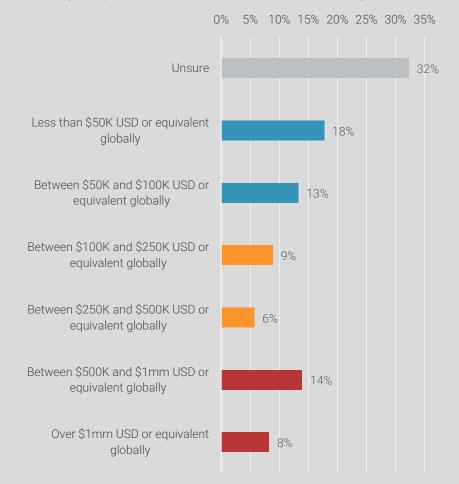
Innovation in the Spotlight. Over the past few years, technologies such as APIs and blockchain and other innovations such as mobile payment applications are showing promise in the ability to more efficiently and securely transfer funds.



Keep Pace or Fall Behind. As the realm of payments progresses, corporate treasurers are realizing that to keep pace with the environment, they must upgrade their payments capabilities.

### Corporate Spend Plans: Payments Technology<sup>8</sup>

How much does your company plan to spend on payments technology in the next year? (excluding staff costs and consumer card payments)





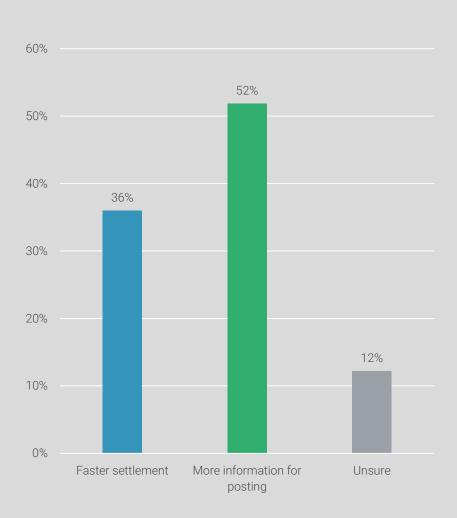






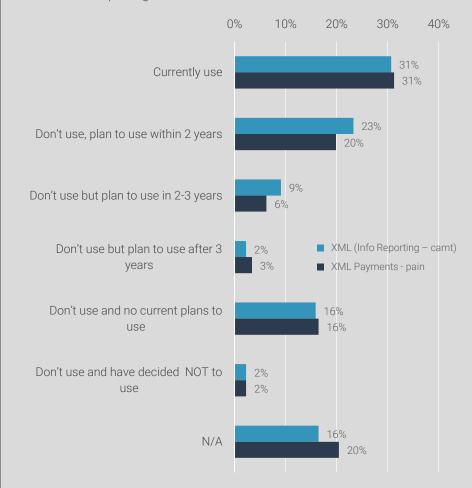
### **Payments Developments Perspectives: Corporates**<sup>9</sup>

Which is more important for inbound payments?



#### **Messaging Formats Used: Corporates**<sup>10</sup>

XML - Our status for using XML (ISO 20022) for payments and information reporting is as follows:





Connect on StrategicTreasurer.com (ii) 🖸 💟





#### **Blockchain Bends to APIs**



The Rise of Blockchain & Cryptocurrencies. Although the rise of blockchain has been tied strongly to the popularity of bitcoin and other cryptocurrencies, the technology has seen widespread investment by major players in the financial realm.



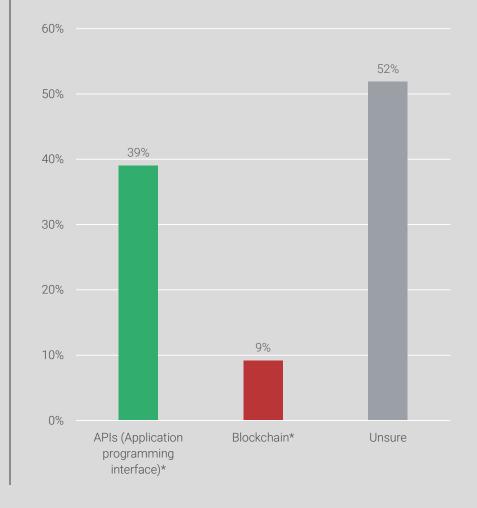
PSD2 & the Era of "Open Banking". With the introduction of PSD2 in Europe, APIs are looking to play an immense role in linking bank systems with outside parties and other Fintech providers to provide streamlined automation, integration, and STP for payments and information reporting processes.



APIs Grab Corporate Treasury's Focus. When comparing corporate treasury's perceived importance on APIs and blockchain for outbound payments, many practitioners are unsure of which to choose. However, over 4x as many respondents to a recent survey saw APIs as more important.

### Payments Developments Perspectives: Corporates<sup>11</sup>

Which is more important for outbound payments?





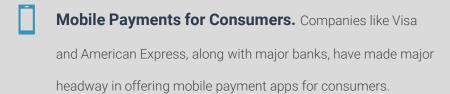


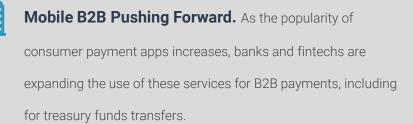
Connect on StrategicTreasurer.com (in 🖸 💟





### **Mobile Payments: A Divergence in Perspectives**



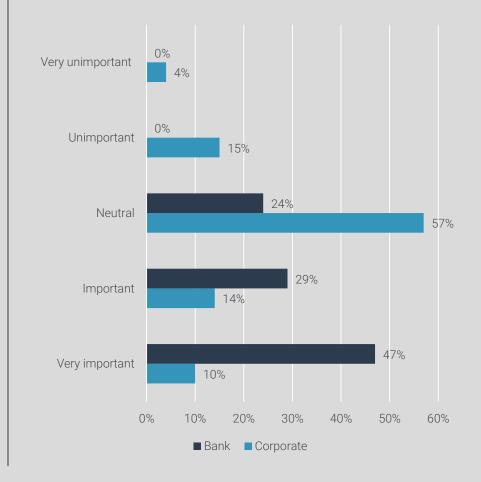


#### **Corporates Harbor Security/Applicability Concerns.**

However, while corporates have shown interest in the technology and find its continued development important, they have concerns regarding the security of mobile payments and also question their applicability for treasury.

### **Mobile Payments: Corporate vs Bank Perspectives**<sup>12</sup>

In the next three years, how important will commercial mobile banking applications be: for your position (corporates); for your clients (banks)?



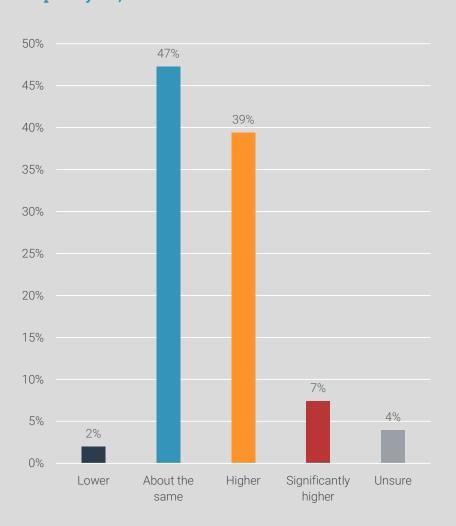


### Fraud & Security

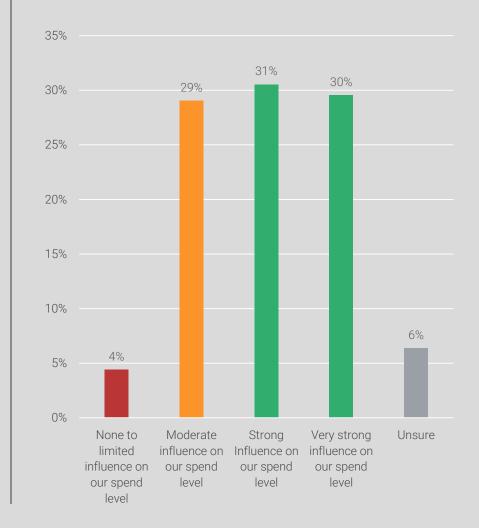




### Our current payment security concerns, as compared to the prior year, are:13



### What influence do security concerns have on your current or planned technology spend?14



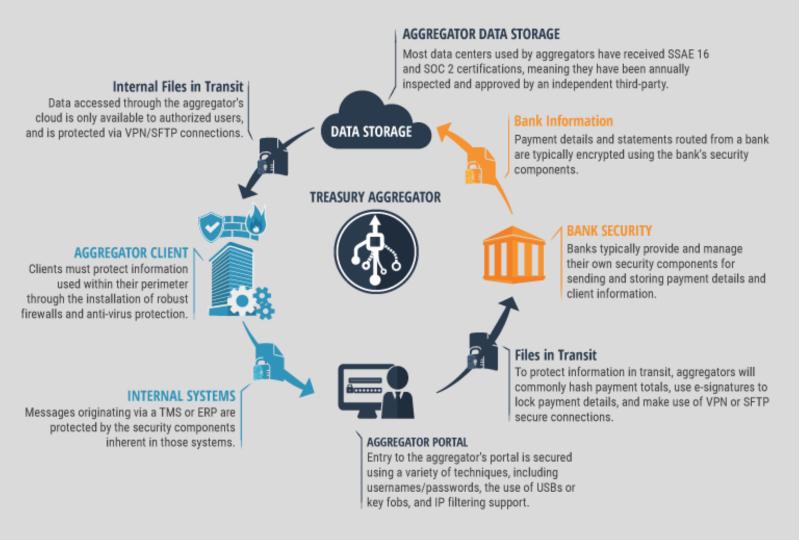








### Sample Technology Security Framework: Treasury Aggregator





### Security Technology in 2018

Connect on StrategicTreasurer.com in 🖸 💟







#### **Biometrics**

- Biometric security recognizes a unique feature of a person, such as a fingerprint, as validation for their authority over payments activity/information.
- Biometrics are considered a robust form of security because it is extremely difficult to duplicate/mimic someone else's genetic composition.



#### **Encryption**

- A process for securing sensitive information in transit (i.e. being passed between a bank and corporate), or for safeguarding information stored on mobile devices, computers, servers, etc.
- · Takes sensitive information, such as bank account details, and converts information into an encoded format. In order for anyone to "decode" the encrypted information, they must possess a unique key.



#### **Multifactor Authentication**

- Multifactor authentication requires employees to provide multiple approvals/passwords before payments/activity can be carried out.
- For instance, a treasurer may be required to enter in two passwords and use a unique key fob (i.e. USB Drive) before they are able to gain entry to the payments system.



#### **Tokenization**

- Using tokenization, an organization's private payment information is replaced with a series of randomly-generated numbers, which is called the "token."
- These tokens can then be passed through the internet or the various wireless networks needed to process the payment without actual bank details being exposed. The actual bank account number is held safe in a secure token vault.



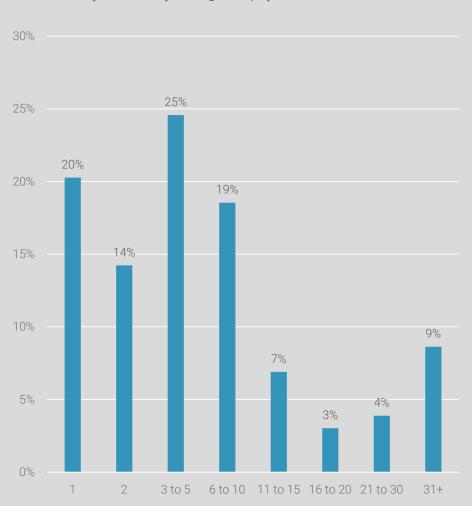
### Cash Visibility & Bank Connectivity





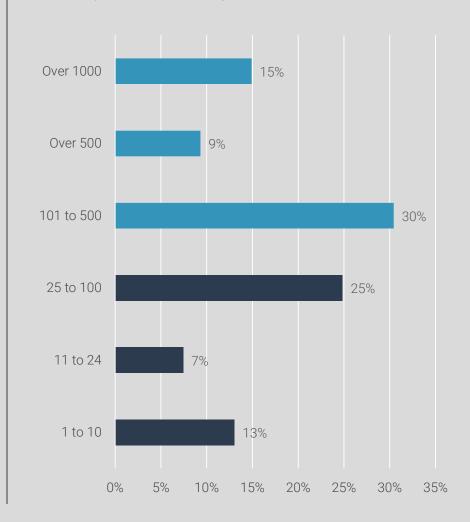


How many banks do you originate payments with?



#### Number of Bank Accounts in Use Globally<sup>16</sup>

How many bank accounts do you have?





### Cash Visibility & Bank Connectivity

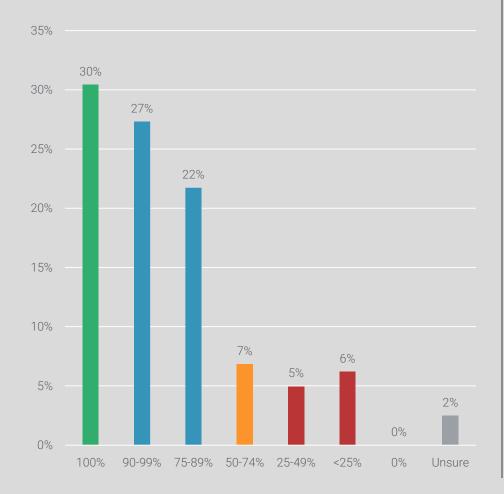
Connect on StrategicTreasurer.com (in 🖸 💟





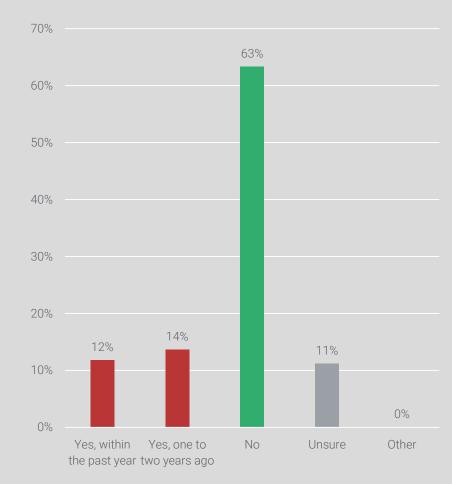
#### Daily Bank Account Visibility<sup>17</sup>

What percentage of your operating bank accounts do you have visibility to on a daily basis?



#### Bank Account Visibility: Discovering Accounts<sup>18</sup>

Have any active bank accounts been discovered that were previously unaccounted for by treasury?





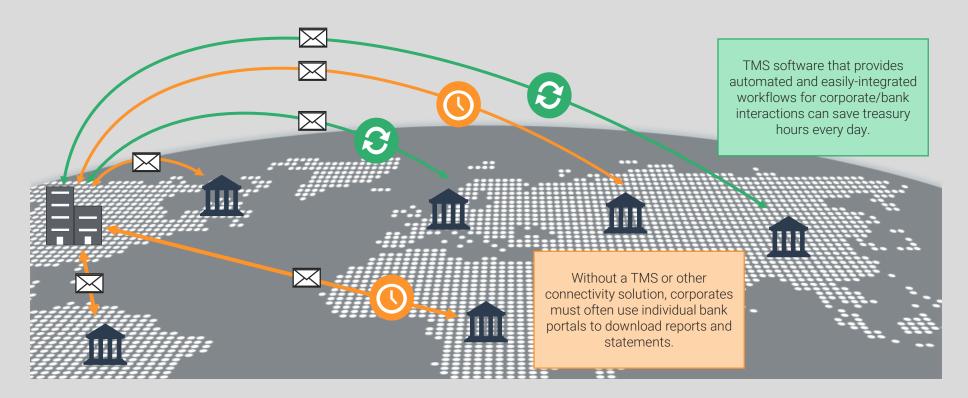
## Cash Visibility & Bank Connectivity







- Corporates often have banks dispersed globally that they must interact with to gather data on cash positions/balances.
- Many banks have legacy systems or outdated tech infrastructures that make data transformation difficult and overly manual.
- While some corporates continue to leverage individual bank portals to export statements and balances, many of today's TMSs can integrate with bank systems to automate this process and aggregate balance/transaction information from all bank partners in real-time or near realtime.





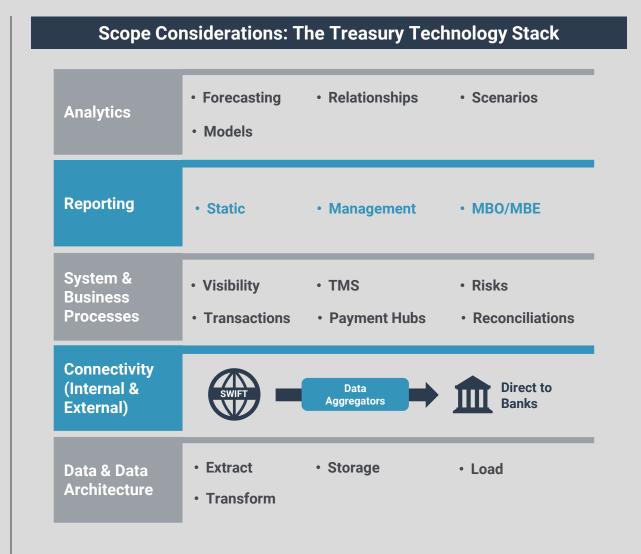
## Structuring a Treasury Technology Stack







- The demands on Treasury increase dramatically during times of transition.
- This is compounded by structural change within an organization or when a company finds itself with new requirements and expectations.
- Responding to new requests or analyzing various exposures must be done rapidly. The historical approach to technology has not kept pace with these expectations.
- In order to architect newer technology properly, technology components need to be examined with a current view of what is available in the market.







## **Key Technology Considerations for Treasury**







Evaluate Internal Processes. Develop a full blueprint of how your internal technology stack is structured. Determine the number of systems used, who uses them, and how they interact with one another and with external/3<sup>rd</sup> party systems.



Benchmark your Position. Analyze the technology positions of the landscape at large, but with a focus on other firms operating in the same or similar industries and geographies, and with similar revenues and complexity (staff size, etc.).



**Identify Potential Shortcomings.** During the course of your internal evaluations and subsequent benchmarking, be sure to monitor for any shortcomings in your processes. Maybe you rely too heavily on spreadsheets, or utilize more financial solutions than is necessary.



**Stay Abreast of Tech Developments.** There is a lot happening within the industry, and developments are occurring at a torrid pace. It is pivotal that treasury keep up with these developments and understand their applicability to financial operations.



**Consult Experts & Partners.** If there are any developments that treasury thinks could significantly impact them, do not hesitate to contact banking partners, Fintech providers, or 3<sup>rd</sup> party experts for additional advice and guidance.



Don't Allow Yourself to Fall Behind. While not every new tech development is a revolutionary breakthrough, treasury must be careful not to dismiss every new innovation, as they risk allowing themselves to be leapfrogged by more sophisticated solutions and systems.









Craig A. Jeffery, CCM, FLMI

Founder & Managing Partner

**Strategic Treasurer** 

Email: craig@strategictreasurer.com

Direct: +1 (678) 466-2222



Ernie Humphrey, CTP

Founder & CEO

**Treasury Webinars** 

Email: Ernie@360thoughtleadership.com

Direct: +1 (260) 494-2210

Review this Webinar

Sign-Up for Strategic Treasurer's Exclusive Webinar List

Thank you for participating in this event!





### **Works Cited**



- 2017 Strategic Treasurer, Bottomline Technologies, & Bank of America Merrill Lynch B2B & WCM Strategies Survey
- 2017 Strategic Treasurer Higher Ed Survey
- 3. 2016 Strategic Treasurer & Fides Global Payments Survey
- 2017 Strategic Treasurer & Bottomline Technologies Treasury Fraud & Controls Survey 4.
- 5. 2017 Strategic Treasurer & Bottomline Technologies Treasury Fraud & Controls Survey
- 6. 2017 Strategic Treasurer, Bottomline Technologies, & Bank of America Merrill Lynch B2B & WCM Strategies Survey
- 2017 Strategic Treasurer & Bottomline Technologies Treasury Fraud & Controls Survey
- 8. 2017 Strategic Treasurer, Bottomline Technologies, & Bank of America Merrill Lynch B2B & WCM Strategies Survey
- 9. 2017 Strategic Treasurer & Bottomline Technologies Treasury Fraud & Controls Survey
- 10. Strategic Treasurer & TD Bank Treasury Perspectives Survey
- 11. Strategic Treasurer & TD Bank Treasury Perspectives Survey

