

## STRATEGY BASECAMP

### IBD / IA TECHNOLOGY UDPATE

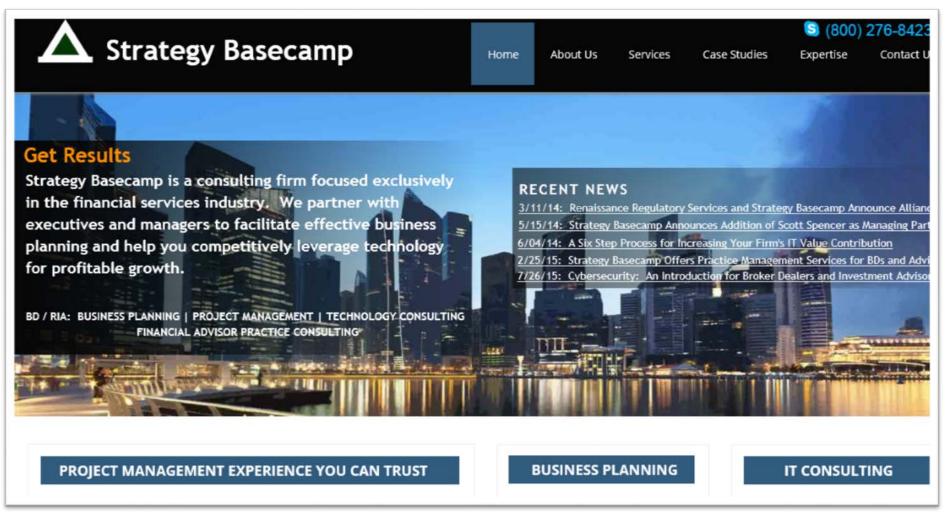
BD / IA Technology Trends, Major Areas of Focus, and Related Implications



(800) 276-8423



# STRATEGY BASECAMP SERVES BDs/IAs, ASSET MANAGERS, and ADVISORS



# STRATEGY BASECAMP

### **TOPICS COVERED**

## Key Topics / Trends

- Fin Tech / Digitization of Advice / Robo Platforms
- Regulators: Making Technology a Focus
- Cybersecurity
- Vendor Management: Challenges / Expectations / Implications
- Data Management: Integration of Front / Middle / Back Office
- DOL Impacts on Technology Prioritization

## Implications BD / IA Focus and Prioritization

- Competitors: What Are the Big Firms Making a Focus? Small Firms?
- Advisory Platforms: Technology and Products Buy, Build, Integrate
- Broker-Dealer Allocation of Resources and Priorities to Back, Middle and Front Office

## Summary Comments



## **KEY TOPICS / TRENDS**



# ADVISOR / CLIENT CENTRIC WEALTH MANAGEMENT INTELLIGENCE





## INDUSTRY TRENDS / DEVELOPMENTS IMPACTING TECHNOLOGY

### **FinTech**

- Material amounts of investment at the "intersection" of financial services and technology
- Rising importance / interest in digital advice (i.e. Robo Advisors)

# Cloud / Mobile / Social / Changing Communications

- User behavior is changing
- Increasingly more comfortable being on-line
- An expectation of 24x7 / any device capabilities
- Video (and voice) are replacing the written word

# High Degree of Focus on Usability / User Interface Design

- Many IBDs have been focused on increasing the usability of existing platforms (e.g. LPL)
- Many "easy to use" tools have been popular (e.g. MGP, Riskalyze)

### **Big Data**

- Much easier to analyze large volumes of information and find trends
- Can leverage tools to predict "who might purchase" a new product or service



## FINTECH DISTRUPTORS - EXAMPLES







Robo Advisor
Founded in 2008
\$4 Billion in AUM

#### Fees:

0.15% – 0.35%/yr. or \$3/month if no auto deposit and under \$10k Direct to Consumer Portfolios

Founded in 2010

Low-Cost, Theme Based Investing

Buy Baskets of Stocks for \$9.95

Has an Advisor Offering "Automated investment management to serve Millennials" Robo Advisor
Founded in 2008

\$3 Billion in AUM

#### Fees:

None first \$10k 0.25%/yr. for more



# VIDEO STATEMENTS – "WATCH AND LISTEN" TO YOUR INVESTMENT RESULTS

CLS makes
personalized
video
statements
available on
digital and
mobile
platforms

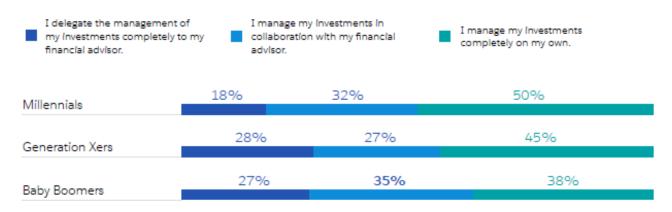


They include a review of the individual's portfolio movements throughout the quarter, the most notable market activity from the previous quarter, and how CLS reacted to said activity.



# INVESTOR PREFERENCES SIGNAL THAT ADVISOR-ASSISTED ROBOs MAKE SENSE

Millennials are more independent, while baby boomers prefer to collaborate with their advisor.



### How would you like to manage your investments?\*

Investors of all ages would like to manage investments collaboratively with their advisor.



<sup>\*</sup>Of those who would like a change in how they manage their investments

(\*) Source: Strategy Basecamp; Salesforce, 2015



## DIGITAL ADVICE PLATFORMS (ROBO)

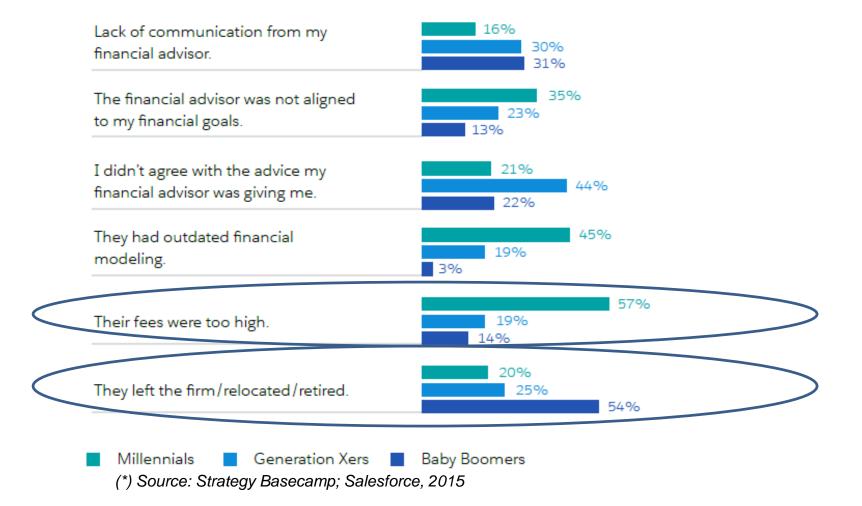
- Crowded market.
- Wealthfront and Betterment have been in the industry for more than five years.
- Established firms have entered and introduced offerings:
  - Schwab Intelligent Portfolios (\$5B+ in Robo)
  - Vanguard Personal Advisor Services (raised over \$14B in new assets in less than a year)
  - BlackRock's acquisition of FutureAdvisor (and to be leveraged at LPL for their offering)
  - Envestnet's purchase of Upside
  - Pershing Multiple offerings (Marstone, Vanare, Jemstep and SigFig)

Robo-advice platforms are expected to grow substantially in the next four years, reaching \$489 billion in assets under management by 2020, according to a Cerulli Associates study.



# WHY DID INVESTORS SWITCH ADVISORS IN THE LAST 5 YEARS?

Millennials are far more sensitive to fees and outdated financial modeling, while baby boomers are often forced to switch advisors due to retirement or relocation.





# REGULATORY SCRUTINY NOW INCLUDES TECHNOLOGY





## **CYBERSECURITY TRENDS**

The number and sophistication of malicious incidents has increased dramatically over recent years and is expected to continue to grow. Common types of attacks include:

- Cybercriminals are becoming less interested in "mass" malicious attacks on users, preferring fewer, more "targeted" attacks.
- A shift in the cybercriminals' focus instead of attacking end-users, they started to pursue organizations that work with financial information and payment tools.
- Increasing tendency of the insiders using the information they have about their organization, against itself

Source: Strategy Basecamp; Kaspersky Labs Report-Financial Cyberthreats (2015)



# FINRA IS CONCERNED ABOUT IBD TECHNOLOGY & DATA MANAGEMENT

## **Excerpt from FINRA's 2016 Regulatory and Examination Priorities Letter re: Data Quality and Governance**

### **Data Quality and Governance**

In 2016, FINRA will examine firms' data governance, quality controls and reporting practices to ensure the accuracy, completeness, consistency and timeliness of data reported to firm management and to firms' surveillance and supervisory systems. FINRA has observed that operational problems firms experience can originate from data quality and integrity issues, which can undermine a firm's ability to monitor or report key information that is needed to effectively manage its risk and business activities. For example, FINRA has observed problems with firms' automated AML surveillance systems not capturing complete and accurate data, which can result in missed or poor quality alerts.



# VENDOR MANAGEMENT: A NEED FOR CROSS-ORGANIZATIONAL EFFECTIVENESS





- Outsourcing has increasingly become popular with Broker-Dealers, Investment Companies, Asset Managers, and Investment Advisors.
- It is common practice for sensitive client information to be managed by 3rd parties.
- Notice to Members 05-48 was referenced.

As noted in its January letter, FINRA will review firms' due diligence and risk assessment of providers of outsourced services and their supervision of those services.



## THE INDUSTRY IS A "SEA" OF VENDORS

### **Most Popular Advisor Tools\***

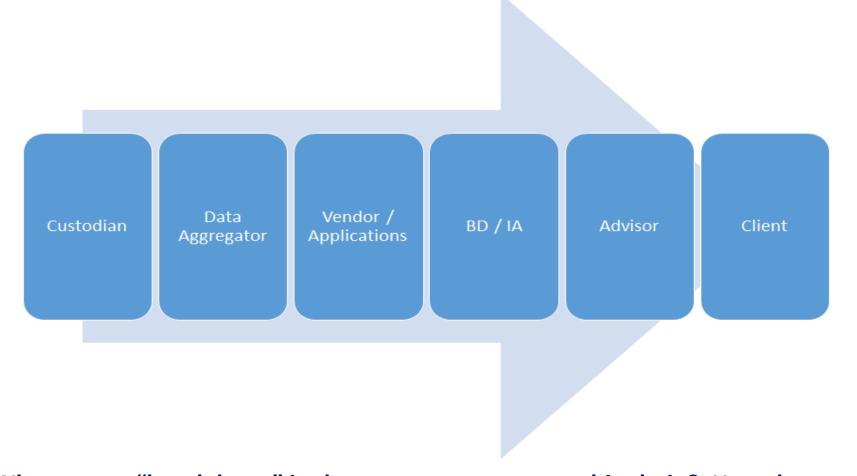
Category	% of Advisors that Use	Most Popular Tools	
Financial	80%	MoneyGuidePro	25.3%
Planning	OU/6	eMoney	23.6%
Portfolio	75%	BD Platform	19.2%
Management	75%	Morningstar	14.2%
Compliance	70%	BD Platform	44.3%
Tools	70%	Outsourcing	29.0%
Document	6E9/	BD Platform	23.2%
Management	65%	LaserApp	22.1%
Account	63%	eMoney	24.3%
Aggregation	05/0	Albridge	18.1%
Portfolio	50%	BD Platform	27.6%
Rebalancing	30%	Customized Method	19.9%
On-Line	30%	Schwab	44.3%
Advice (Robo)	<b>3</b> 0%	Betterment	14.0%



(\*) Source: Strategy Basecamp; Investment News, 2016



## OPERATIONALLY INTERCONNECTED IN CYBERSPACE



Who owns a "breakdown" in data governance across this chain? How do you "rollback" from a "breakdown" in the chain? Who is protecting the client from a "hack"?

15



# DATA GOVERNANCE: MOST IBDs/IAs ARE NOT PREPARED / STAFFED TO HANDLE

Data Strategy / Stewardship / Governance Planning

Data Quality / Cleansing / Transformation

Data Aggregation / Integration / ETL Planning & Execution

Data Reporting / Data Warehousing / Database Design / DBA Services

### **COMMON DELIVERABLES:**

- Data Context Diagram
- Data Flow Diagrams
- Data Model (ERD) and Definitions
- Data Mapping Plan (e.g. Data Sources / Destinations)
- QA Test Plans for Data Extract / Transform / Load (ETL) Processes
- Historical Data Load Analysis
- Resolved Issues
- Prioritization of Data Integration Projects
- Project Plans



# COMPLIANCE: THE INTERSECTION OF RISK MANAGEMENT AND TECHNOLOGY

## Top Performers Invest in Technology to Automate the Increased Burden of More Regulation

- Sarbanes-Oxley
- FINRA Rules 2090
   (Know Your
   Customer and 2111
   (Suitability)
- Dodd-Frank
- Identity Theft Red Flag Rules
- E-Mail Monitoring
- New Supervision Rules
- Cybersecurity

Improved Compliance through Data Management & Systems Integration

- Create the most effective data management approach across various proprietary and industry data sources
- Recommend data management improvements

Improved Account Opening and Suitability Review

- Enhanced efficiency in opening accounts
- Automate suitability review in a rules based manner
- · Monitor the establishment of high risk accounts

Efficient Sales Practice
Surveillance

- Cost effective automated surveillance customized for the firm's risk profile
- Configure trade rules engine settings

BDs / IAs need to be able to more efficiently manage the process of being in compliance.

# STRATEGY BASECAMP

## **DOL IMPACTS**

### Things that enterprises will likely need to do include:

- Inventory revenue streams to/from partners
- Inventory advisory programs and key attributes (Fee Structure, Investment Universe, Sub-advisors/model providers)
- Segment clients (Asset size, IRA vs. Non-IRA, Commission vs fee-based, Rollover sources, volume and trends)
- Evaluate digital advice solutions for small accounts & orphans
- Evaluate training & education partnerships to support advisors through transition
- Some firms have slowed down work on "other things" to focus on DOL / Cybersecurity and other initiatives driven by regulatory scrutiny OR
- 2. Are making purchasing decisions driven by a need to better manage their data (so as to better facilitate compliance, DOL, Big Data, etc.).



# IMPLICATIONS → BD / IA FOCUS & PRIORITIZATION



# COMPETITORS: SUMMARY OF STRENGTHS

Broker Dealer	Notable Areas of Strength
Commonwealth	<ul> <li>The strongest keep getting stronger.</li> <li>Implementing a custom / proprietary CRM system with heavy focus on streamlining new accounts / workflow.</li> </ul>
LPL	<ul> <li>Advisory tools and integration.</li> <li>Size / scale. A diversity of tools (e.g. the Vendor Affinity Program) made available that are relatively well integrated into custom elements of its platform. That said, as the largest IBD serving the largest number of advisors, any "snafus" with the LPL platform become well documented / publicized. Expectations are high.</li> </ul>
Raymond James	<ul> <li>Integration of applications and data (primarily a custom developed set of technology) with inclusion of a short list of 3<sup>rd</sup> party vendors (e.g. MoneyGuidePro).</li> <li>Advisory tools and research.</li> </ul>
Cetera	<ul> <li>A relatively large "collection" of vendors (many which are not seamlessly integrated).</li> <li>Good advisory tools (made available via FolioDynamix).</li> </ul>



# COMPETITORS: SUMMARY OF RECENT FOCUS

<b>Broker Dealer</b>	Area of Recent Focus / Major Deliveries
LPL	<ul> <li>Lots of effort "modernizing" their platform (i.e. creating ClientWorks / upgrading from BranchNet).</li> <li>Upgrading rebalancing functionality (changed vendors from ASI to FolioDynamix).</li> <li>Upgrading e-mail management / hosting platform (in response to large fines in 2013.</li> <li>Providing a Robo platform offering (Future Advisor).</li> <li>Introduced a new compensation system, Xtiva, for paying financial institutions in 2013 (not all that recent, but a notable development).</li> </ul>
Raymond James	<ul> <li>Creating a consolidated data store that is capable of aggregating all data at the firm. It includes reference data, product data, client assets, and liabilities. The presentation of this data to advisors now happens via Client Center.</li> <li>Implementing account aggregation to bring external assets into its system.</li> <li>Reporting – Making a pre-defined set of reports available to advisors / institutions. Approximately 60 predefined reports (30 for detailed views into assets under administration and production data and 30 to help analyze client information such as which clients are more profitable, who has the largest gain/loss this year, who has a beneficiary, etc.).</li> </ul>



# COMPETITORS: SUMMARY OF RECENT FOCUS

<b>Broker Dealer</b>	Area of Recent Focus / Major Deliveries
Cetera	<ul> <li>Introduction of DataPak which enables banks and credit unions to access customer data from their wealth management or brokerage operations and feed that data into their broader business systems.</li> <li>Introduction of RightBRIDGE's suggestion engine designed to help advisors do "actionable" data mining (e.g. which clients would be a good candidate for particular products or services).</li> <li>Working to deliver eSignature (not completed yet).</li> <li>Enterprise data center centralization initiative (across the consolidated Cetera BDs)</li> <li>In the early stages of focusing on some direct to consumer / client portal work.</li> </ul>



### ILLUSTRATIVE EXAMPLE OF FOCUS

## Many independent BDs/IAs are focused on streamlining new account opening + improving advisory capabilities (e.g. via Envestnet or FolioDynamix)

### **Common Areas of Focus:**

- New Account
   Establishment /
   Workflow (often via vendors such as Docupace)
- Back Office Process
   (e.g. Compensation) /
   Data Management
   (often via M&O)
- Improved Surveillance (e.g. often via Protegent)

## Waddell & Reed Partners with Industry Leaders to Build Integrated Advisor Platform

Envestnet, Docupace align tech solutions to help advisors seamlessly open accounts, conduct straightthrough processing

February 02, 2016 04:30 PM Eastern Standard Time

OVERLAND PARK, Kan.—(BUSINESS WIRE)—Recognizing an opportunity to bring increased efficiency and functionality to its advisors and their clients, Waddell & Reed, Inc. has taken a substantial step toward building the firm's next-generation technology platform.

"We find that a fully unified and integrated approach to wealth management enables faster growth for advisory practices, and we are glad to support Waddell & Reed as it embarks on this new path."



As the initial step in a multi-phased plan, the firm is working to enhance its advisors' portfolio management capabilities while streamlining the account-opening and maintenance processes. Waddell & Reed this week announced a strategic partnership bringing Envestnet, Inc. (NYSE: ENV) and Docupace Technologies together to create a custom platform that will help Waddell & Reed financial advisors open and manage client accounts. The integrated solution will facilitate efficient portfolio creation through the Envestnet platform and enable advisors to transition seamlessly to the account-opening process by leveraging the Docupace ePACS® Straight-Through Processing solution.

Source: Strategy Basecamp; web (June 2016)



# RECENT MAJOR PACKAGED SOFTWARE DECISIONS AT VARYING FIRM SIZES

A focus on improving processes at the intersection of front and back offices. M&O and Docupace have been the most popular vendors.

BD Size	Notes
~ 500	Insurance company subsidiary. Considering the purchase of a compensation system. Decided instead to focus on front office / CRM + new account establishment and forms filing) rather than back office capabilities such as commissions. Leveraged Salesforce.
~ 150	Implemented M&O for back office processing.
7,000+	Selecting various back office functions to replace (via M&O).
< 100	Implementing Docupace for rep on-boarding / forms population / workflow / document management.
300	Implementing Docupace for workflow / new account establishment.
~ 400	Implementing Docupace for account establishment / forms population / workflow). Their #1 priority was a "unified wizard" that would easily open new accounts gather the data, fill out the forms, and establish the accounts via STP (straight through processing).
~ 150	Implementing a Salesforce overlay (Skience).
1,200+	Replacing all back office solutions with a "best of breed" set of solutions including Docupace, M&O, RegEd, and Protegent.
~ 500	Implementing Actimize (via Albridge).

Source: Strategy Basecamp.



# NOTABLE CUSTODIAN TECHNOLOGY EFFORTS







### Schwab OpenView Gateway

Flexible / open architecture

Integration to numerous solutions

Pre-packaged workflows

### **Big Data**

Anticipate client needs

Identify lending opportunities

Visualize trends by metrics (e.g. client segmentation)

## Veo One / Veo Open Access

Account opening workflows

Integration to numerous solutions (Integration Analyzer)

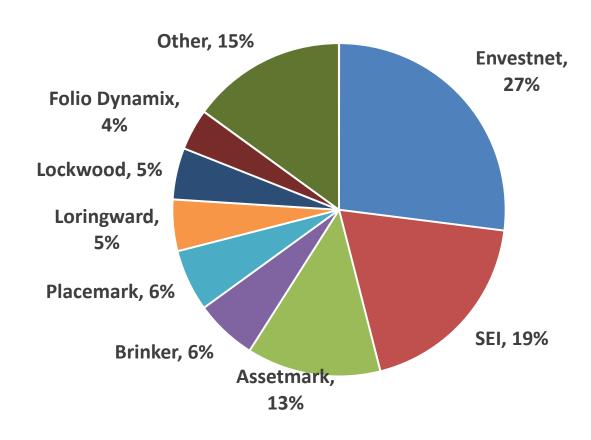


## **ADVISORY PLATFORMS: OVERVIEW**

Only the largest most well run firms can afford to build / maintain advisory platforms in house.

Partnering is a necessity for most IBDs / IAs.

## **Major TAMP Market Share (2014)**





# UNBUNDLING OF SERVICES HAS BEEN HELPFUL TO FOLIODYNAMIX

## FolioDynamix has won rebalancing work at firms such as Cetera and LPL.

The new Robo offering, Vanare, is built on top of the FolioDynamix wealth management platform.



Christopher Giles: Folio offers us a competitive platform to grow into.

## LPL signs on with FolioDynamix for rebalancing to boost its IBD offering and Fortigent's

The huge independent broker-dealer will wean advisors off its homegrown trading and rebalancing suite and stick with Fortigent for research and performance offerings

Monday 1.14.13 by Kelly O'Mara



3 Comments

**Brooke's Note:** Rebalancing has come so far so fast that we are still getting to know all the names — even big, well-entrenched ones. FolioDynamix is one that keeps popping up on some big stages.

In a move aimed at beefing up its hybrid offering, LPL has signed on to use the up-and-coming technology FolioDynamix.

Despite having spent big bucks to purchase top tech provider Fortigent nearly a year ago, the No. 1 independent broker-dealer opted to go with FolioDynamix because of its integrated trading and rebalancing platform. See: LPL makes big advance into the RIA business with Fortigent acquisition.

The company (FolioDynamix) provides technology and back-office services, including due diligence, investment modeling, portfolio research, a unified-managed-account offering, trading platforms, performance reporting, and "full-on turnkey programs," says Joseph Mrak, FolioDynamix's chief executive, who calls it "an unbundled TAMP."

Source: Strategy Basecamp; Trust Advisor Survey, Tiburon, RIA Biz; web (June 2016)



## **SUMMARY COMMENTS**



# TRENDS TO CONSIDER RE: ADVISORY TECHNOLOGY

- Aggregating data and feeding it into sophisticated algorithms, firms like Envestnet
   | Yodlee, Quovo or Intuit will be able to calculate investors' risk tolerance based
   on billions of financial transactions. This will result in a more accurate risk score
   and portfolios that are better suited to investors' needs.
- Open and unbundled (e.g. FolioDynamix) offerings i.e. "plug and play" capabilities will be important to most, but some firms (e.g. breakaways) may simply desire "all-in-one" solutions such as ENV (assuming reasonable pricing). Note: pricing could become a longer-term issue.
- Robo-advisors should be able to scale and handle large numbers of small accounts for a low incremental cost. Robos clients can serve as a "farm team" for an advisors book of business.
- BDs have been focused on new account opening / workflow / document management efficiencies. Unbundled solutions that allow small to mid sized BD/IAs to process work at lower cost can be attractive.
- LPL and Raymond James have continued to accentuate their strengths in advisory technology.



### **SUMMARY COMMENTS**

- Many IBD/IAs have focused on improving the usability of their applications.
- Data related efforts are common in the industry. Much more is needed as data management practices are relatively weak at the typical small to mid-sized IBD/IA.
- CRM is a critical component, but under utilized by advisors. Today, Joel Bruckenstein reports that 21% of advisors use MS Outlook (not CRM), 14% use Redtail, and 13% use Salesforce (Feb 2016).
- CRM has also been an area of emphasis (in particular when combined with workflow / new account establishment) for BDs (data, advisor efficiency, etc.).
- Commonwealth, a notable leader, continues to make their platform more "proprietary" and customized to "the way in which business" is processed "homogenously" at Commonwealth. Also implemented a proprietary CRM.
- Vendors such as M&O and Docupace have grown market share through a combination of strong sales acumen and functionality in areas of relative importance.
- The regulators are making technology (a more than "simply" Cybersecurity) a major focus and are concerned with the disparity in IT management acumen.
   Vendor and data governance are key areas of focus.

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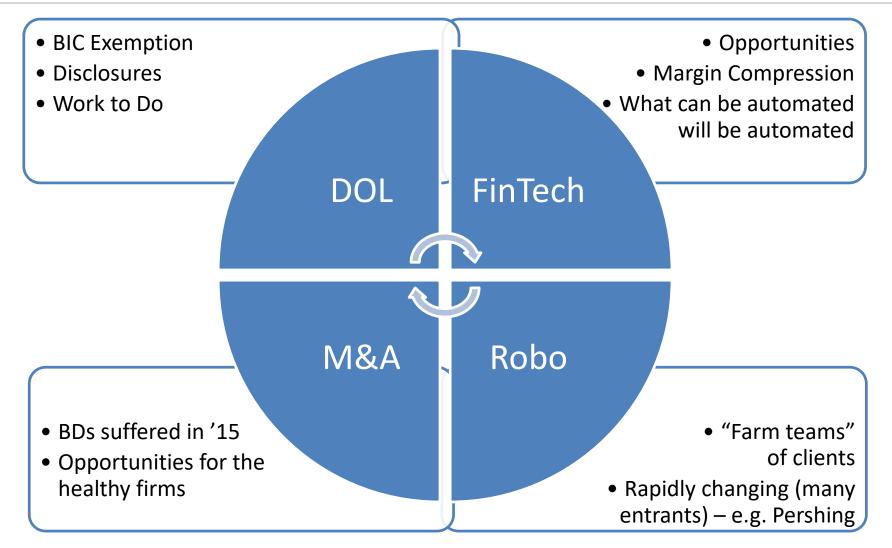
IT CONSULTING



## **APPENDIX**



### DISTRUPTIVE TRENDS





### RISK ASSESSMENT PROCESS OVERVIEW

Inventory & Identify Critical Assets

Assess Threats & Vulnerabilities

Address Identified Risks – Implementing Controls

## Critical Assets Inventory

- What PII / client / account data needs to be protected?
- What are the risks associated with remote customer access and funds transfer requests?
- Where are we vulnerable?

## Threats Inventory

- What external threats exist?
- What internal threats exist?

Where are we Vulnerable?

## Controls Inventory

- What controls exists today?
- What controls do we need in the future?

What Controls
Will Thwart
Vulnerabilities?



# NIST CYBERSECURITY FRAMEWORK - DEVELOPED WITH INDUSTRY INPUT

#### **RECOVER:**

- Execute recovery systems to restore systems and data
- Update response plan with lessons learned
- Resume business activities with internal and external stakeholders and manage public relations

## Recover Identify



#### **IDENTIFY:**

- Identification of at-risk data (PII, accounts, transactions, etc.)
  - Assess the threat to and vulnerability of existing infrastructure
- Understand all devices connected to the network and network structure

#### **RESPOND:**

- Contain and mitigate the event to prevent further damage
- Coordinate with stakeholders to execute a response plan and notify proper authorities.
- Once detected, notification to proper authorities
- Evaluate response effort to improve response plan

### Respond Protect



#### **DETECT:**

- Limit network access to authorized users and devices
- Educate all users on cybersecurity awareness and risk management
- Employ programs and services that secure data and networks (e.g. firewalls, file encryption, password protection, data backups)

#### **PROTECT:**

- Limit network access to authorized users and devices
- Educate all users on cybersecurity awareness and risk management
- Employ programs and services that secure data and networks (e.g. firewalls, file encryption, password protection, data backups)



# HIGHLIGHTS FROM RECENT FINRA CYBERSECURITY CONFERENCE

- Increase in Fraudulent Wire Transfers / Unauthorized Asset Transfers
- The Relative Lack of Sound Vendor Governance in Our Industry
- The Benefits and Challenges of Cloud Computing
- The Importance of Incident Response Planning
- External and Internal Penetration Testing
- Employee Access Controls including:
  - Least Privilege (i.e. an employee is given access only to the resources and information needed to accomplish his or her specific job duties).
  - Separation of Duties (i.e. the concept of having more than one person required to complete a sensitive task so as to mitigate the potential for fraud).
- Employee Training and Education (included related Internal Phishing Tests)



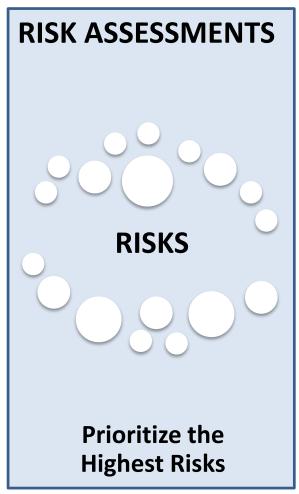
# ACTIONS REASONABLY DESIGNED TO SAFEGAUARD DATA

- 1. Conducting periodic risk assessments
- 2. Employing a firewall to protect web servers containing client PII
- 3. Encrypting client PII stored on your network or any potentially accessible device
- 4. Establishing procedures for responding to a cybersecurity incident
- 5. Timely application of security patches
- 6. Testing and validation of software updates on test server prior to installation
- 7. Strong password management
- 8. Requiring dual-factor authentication to access administrative functions on the server
- 9. Implementing intrusion detection software
- 10. Implementing data exfiltration monitoring software
- 11. Maintaining detailed logs of security-related events and periodically reviewing those logs
- 12. Requiring cybersecurity risk assessments of 3<sup>rd</sup> party vendors
- 13. Developing an on-going advisor and client education and communication program.

Source: Strategy Basecamp, Law360; RT Jones Capital Equities Management, SEC Enforcement Action, September, 2015



## TECHNICAL CONTROLS: MECHANISMS TO STEP UP SECURITY





### **DEVELOP CONTROLS**



### **BUSINESS-PROCESS CONTROLS**

- Changes to end-user behavior
- Business processes beyond IT



### **BROADER IT CONTROLS**

- Changes to IT architecture (e.g. "castle")
- Multiple levels of defense for top risks



### CYBERSECURITY CONTROLS

• Discrete technological changes such encryption, I&AM, security analytics

Target Mechanisms (of a Broad Variety) to Combat the Top Risks

Companies must assess risks in an integrated way. A "system" of defenses spanning various control types should exist for high risk items.



# CURRENT STATE ANALYSIS: SURVEY RESULTS SUMMARY

## How Satisfied Are You with Your Broker Dealer's Current Technology Offerings?

Firm	Very Unsatified	Somewhat Unsatisfied	Sum	Somewhat Satisfied	Very Satisfied	Sum
NFP Advisor	4.4%	0.0%	4.4%	65.2%	30.4%	95.6%
Cambridge	3.6%	3.6%	7.2%	57.1%	35.7%	92.8%
Wells Fargo Advisors	0.0%	7.3%	7.3%	63.4%	29.3%	92.7%
AXA	3.3%	6.7%	10.0%	60.0%	30.0%	90.0%
Cetera Advisor Networks	3.3%	6.7%	10.0%	60.0%	30.0%	90.0%
Commonwealth	3.1%	9.3%	12.4%	43.8%	43.8%	87.6%
Average Broker Dealer	3.7%	8.8%	12.5%	54.8%	32.7%	87.5%
Raymond James	0.0%	14.3%	14.3%	48.6%	37.1%	85.7%
Securities America	5.9%	8.8%	14.7%	58.8%	26.5%	85.3%
MetLife Securities	9.1%	6.0%	15.1%	39.4%	45.5%	84.9%
CFS/SPF	2.4%	14.0%	16.4%	54.4%	29.2%	83.6%
LPL Financial	3.0%	15.2%	18.2%	57.6%	24.2%	81.8%
Ameriprise	5.4%	19.0%	24.4%	48.6%	27.0%	75.6%

Source: Strategy Basecamp; Joel Bruckenstein / Financial Planning Magazine Dec 14. Ranked by sum of satisfaction scores.



# CURRENT STATE ANALYSIS: SURVEY RESULTS SUMMARY

## How Satisfied Are You with Your Custodian's Current Technology Offerings?

Firm	Very Unsatified	Somewhat Unsatisfied	Sum	Somewhat Satisfied	Very Satisfied	Sum
TD Ameritrade	1.1%	2.4%	3.5%	47.1%	49.4%	96.5%
Raymond James	3.7%	3.7%	7.4%	70.4%	22.2%	92.6%
Schwab	4.6%	3.7%	8.3%	51.9%	39.8%	91.7%
Fidelity	1.6%	7.1%	8.7%	61.1%	30.2%	91.3%
Shareholder Service Group	0.0%	9.1%	9.1%	54.5%	36.4%	90.9%
Trade PMR	5.3%	5.3%	10.6%	57.9%	31.6%	89.5%
Average Custodian	3.3%	9.6%	12.8%	54.0%	33.2%	87.2%
Folio Institutional	0.0%	13.6%	13.6%	50.0%	36.4%	86.4%
Scottrade	2.9%	11.4%	14.3%	51.4%	34.3%	85.7%
LPL Financial	5.9%	8.8%	14.7%	55.9%	29.4%	85.3%
Trust Company of America	3.3%	13.4%	16.7%	60.0%	23.3%	83.3%
Pershing	6.4%	15.6%	22.0%	42.2%	35.8%	78.0%
National Advisors Trust	4.2%	20.8%	25.0%	45.8%	29.2%	75.0%

Source: Strategy Basecamp; Joel Bruckenstein / Financial Planning Magazine Dec 14. Ranked by sum of satisfaction scores.



# FEE COMPARISONS - VARIOUS APPROACHES

Function	LPL	Raymond James	Cetera
Core Monthly Technology Fee	\$75	\$250	\$160
Account Opening	Included in monthly fee	Included in monthly fee	Included in monthly fee
Aggregation of Data	\$35	Included in monthly fee	\$50
Consolidated Statements	Included in Portfolio Mgmt	Included in monthly fee	Included in monthly fee
CRM	\$65	Included in monthly fee	Included in monthly fee
Forms Population Software	Included in monthly fee	Included in monthly fee	Included in monthly fee
Financial Planning	\$150	Included in monthly fee	Included in monthly fee
Performance Reporting	Included in Portfolio Mgmt	Included in monthly fee	Included in monthly fee for brokerage & advisory biz
Portfolio Management	\$75	Included in monthly fee	Included in monthly fee
Rebalancing	Included in Portfolio Mgmt	Included in monthly fee	Included in monthly fee
Robo Offering	TBD	Not offering Robo	Not currently available
Workflow / Document Management	Included in monthly fee	Included in monthly fee	Included in monthly fee
eSignature	Included in monthly fee	Included in monthly fee	Not currently available
Compliance / Supervision	Included in monthly fee	Included in monthly fee	Included in monthly fee
Compensation	Included in monthly fee	Included in monthly fee	Included in monthly fee
TOTAL	\$400	\$250	\$210



# SOFTWARE: VENDORS VS. CUSTOM DEVELOPMENT - VARYING APPROACHES

Function	LPL	Raymond James
Account Opening	Built in house/Proprietary	Not known. Likely custom
Aggregation of Data	Choice - Albridge vs. Advent / Black Diamond vs. Orion vs. Custom	Custom
Consolidated Statements	Salesforce, Redtail	Client Center
CRM	Custom	Custom
Forms Population Software	eMoney (called Wealth Vision at LPL)	Goal Planning & Monitoring (GPM) Money Guide Pro
Financial Planning	Choice: Albridge, Advent / Black Diamond, and Orion	Custom
Performance Reporting	Portfolio Manager	Portfolio Management Center
Portfolio Management	Portfolio Review Tool	Custom
Rebalancing	FolioDynamics	Custom
Robo Offering	BlackRock's FutureAdvisor (called Guided Wealth Portfolios at LPL)	Custom
Workflow / Document Management	Custom (called <i>iDoc</i> at LPL)	DocuSign
eSignature	Yes, DocuSign	Protegent
Compliance / Supervision	Protegent	Custom developed
Compensation	Xtiva	Custom



# PACKAGING / PROMOTION / ROLLOUT / TRAINING / MONITORING

Firms should review, enhance and formalize their processes for how solutions/applications are released and supported.

### **KEY ROLES IN THE PROCESS**

BUSINESS OWNER + TECHNOLOGY LEAD + ADVISORY COUNCIL MEMBER (VOICE OF THE CUSTOMER)

#### **GETTING READY:**

Pre-Announcement (e.g. tease at conferences, coming soon announcements, etc.)

#### **BEING READY:**

On-Line Resources / WebEx Series / Podcasts

#### **GO LIVE:**

Release with Active Involvement from Advisors (e.g. Quotes, Call Out Campaigns, etc.)

#### **POST LAUNCH SUPPORT:**

Case Studies, Articles / Tips for Effective Usage, etc.

MEASURE / REPORT / IMPROVE → REPEAT:

REPORT METRICS TO EXECUTIVE LEADERSHIP MONTHLY

**Good technology THAT GETS USED = Business impact.**