

Revisiting the 2017 Orbograph Client Conference Webinar

April 21, 2017 2PM ET



2017 ORBOGRAPH CLIENT CONFERENCE
DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

Joe J. Gregory
Vice President of
Marketing



Orbograph Client Conference



Where: The Westin Buckhead Atlanta

When: March 22-23, 2017 (Opening Reception on March 21, 2017 from 6:00-9:00 PM)

Why: To explore new solutions to real-world problems in healthcare revenue cycle management, check/payments and the financial industry

For Who: Strategic decision makers, product management, technical integration experts and technologists

Industries: Check processing, retail banking, wholesale banking, financial/healthcare payments and healthcare revenue cycle management

What to expect at the 2017 Orbograph Client Conference: Innovation, new products, industry research on major trends and opportunities, all delivered via distinguished keynote speakers, industry colleagues and Orbograph subject matter experts.

Our focus is YOU, the attendee! Our goal: communicate, educate and entertain all with a focus on solving problems and taking advantage of opportunities!

Webinar Goals



- High Speed Review of Client Conference Content
- Teaser for expanded content webinar
 - 30 Minute Power Sessions
- Questions...
 - Chat area below

[Converging and Diverging Market Changes in Payments and Check](#)

April 28, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[Healthcare Market Overview](#)

May 3, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[Payments, Checks and Healthcare: A FinTech Perspective](#)

May 5, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[Opportunities in Healthcare Reimbursements, Revenue Cycle Management and Electronification](#)

May 9, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[Correspondence Letters & Denied Claims: An Ongoing, Yet Growing Problem](#)

May 12, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[The Future is Now in Cloud Deployment for the Financial and Healthcare Industries](#)

May 24, 2017 @ 2:00 PM EST

Duration: 30 Minutes

Conference Video



- https://youtu.be/a_W7-8GD2TY



Attendees



- Alogent
- Athena
- BB&T
- BNY Mellon
- Capital One
- Catalyst Corp
- Catch 21
- CCG-Catalyst Consulting
- CheckAlt
- Citizens National
- CommerceBank
- Connexx
- CrossCheck
- DSS
- Digital Check
- 5th 3Rd Bank
- FIS
- Fiserv
- Frost
- Iberia
- Infoscore
- Inmediata
- Innovative Healthcare Systems
- Intermex
- Jack Henry
- JP Morgan Chase
- MedSynergies/Optum
- Midfirst Bank
- Navigant
- Northwest Bank Technology
- Opex
- Panini
- Parascript
- PracticeAdmin
- RelayHealth
- Source Technologies
- South Nassau Comm. Hospital
- StratEx
- SunTrust
- Synovus
- TMR
- The FNB of Long Island
- The Private Bank
- Trizetto Provider Solutions
- Vsoft
- Vyne
- Wausau Financial Systems
- Wells Fargo

Speakers



Luke Huys
Senior Vice President, **Wells Fargo**



Greg Smith
Managing Director, **FT Partners**

Jeffrey Daigrepoint
Senior Vice President, **Coker Group**



Mike Olson
Owner and Principle Consultant, **RC Conserv**



David Walker
President & CEO, **ECCHO**

Mark Riddle
Director, Research and Content Delivery, **BAI**



Tara E. Walker
Technical Evangelist, **Amazon Web Services**



Henri Cattier
Partner, **Commonwealth Health Advisors**



Bob Bowman
Associate Director – Transactions, **CAQH**

Orbonians



- Co- Presidents
 - Barry Cohen
 - Avikam Baltsan (CTO)
- Client Services
 - Stew Levine
 - Frank Devitta
 - Cathy Faucher
 - Boaz Ron
 - Brad Hudson
 - Derek Abbott
- Marketing
 - James Bi
 - Grace Dunklee Cohen
- Jeffrey Buechler, Finance
- Product
 - Yaron Katzir, Check
 - Roni Boker, Healthcare
 - Arik Elimelech, R&D
- Sales
 - Andy Leonhardt
 - Pat Cross
 - Don Samuels
 - Chris Shepard
 - Mike Gelbwachs
 - Phil Hetrick
 - Bryan Bruton

Our Client Conference Promise

There Will Be No Lack of
Information & Data Points!



2017 ORBOGRAPH CLIENT CONFERENCE
DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

Pre Conference Excitement!



BEER
AN ART FORM

Reception at The W Hotel Pictures on Orbograph Facebook



Branding Excitement



Anywhere Recognition

Anywhere Validate

Anywhere Payee

Anywhere Positive Pay

Anywhere Fraud

Anywhere Compliance



Access EOB Conversion

Access Correspondence Letters

Access Patient Payments

Access Denial Intelligence

Access Payment Reconciliation



And then??? More Excitement!



Horrific Lightning Storm!



Conference #17 In 2017



2017 ORBOGRAPH CLIENT CONFERENCE
DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

1998



OrboCAR™

PLEASE JOIN US FOR THE 2ND ANNUAL SYSTEM INTEGRATOR CONFERENCE

**November 12 -13, 1998
Embassy Suites Hotel (Buckhead)
Atlanta, GA**

Orbograph cordially invites you to attend this year's expanded System Integrator Seminar. Learn new technology with intense hands-on training sessions, covering the industries' hottest topics

Topics of Discussion

- **OrboTool™** - Leading document definition tool
- **OrboCAR Gemini™** - Twin engine recognition software
- **Legal Amount Recognition** - Strategic implications

New Orleans 2013



Marketing Excitement



- New Website
- Banners
- Materials
 - Pens
 - Sports Bags
 - Padfolios
 - Business Cards
 - Business Card Holders



www.orbograph.com/app/



T-Mobile LTE 12:44 AM 81%

app - OrboGraph
orbograph.com

OrboGraph
Intelligent Payment Automation

Twitter Facebook LinkedIn

Envision More. Achieve More.

Intelligent Payment Automation

[View 2017 Client Conference Agenda](#)

↓

Google, Share, Menu icons

T-Mobile LTE 12:44 AM 81%

app - OrboGraph
orbograph.com

OrboGraph

OrboAnywhere
Check Processing

Anywhere Recognition

Multi-engine CAR/LAR, ICR, OCR
check recognition for the
Omnichannel

Navigation arrows

Google, Share, Menu icons

OrboGraph
Healthcare Payments

Twitter Facebook LinkedIn

OrboAccess
Healthcare Payments

Access EOB Conversion

Delivering EOB/EOP
electronication with information
intelligence

Navigation arrows



Conference Event Schedule

Tuesday, March 21, 2017

- 3:30 PM – 5:30 PM: Afternoon Activity & Social Event (Optional)
- 6:00 PM – 9:00 PM: Welcome to the Future: Evening Reception (Optional)

Wednesday, March 22, 2016

- 6:30 AM – 7:15 AM: Wake Up with Orbograph (Optional)
- 8:00 AM – 9:00 AM: Breakfast & Registration
- 9:00 AM – 9:45 AM: Synchronizing our Vision to the Industry
 - *Speakers: Avikam Baltsan & Barry Cohen, Co-Presidents of Orbograph*
- 9:45 AM – 10:30 AM: Converging

Synchronizing our Vision to the Industry +

Converging and Diverging Market Changes in Payments and Check +

Opportunities in Healthcare Reimbursements, Revenue Cycle Management and Electronification +

Solving Payment

Synchronizing our Vision to the Industry -

Speakers: Avikam Baltsan & Barry Cohen, Co-Presidents of OrboGraph

Rating



Comments

Name

Submit

www.orbograph.com/app/



CHECK OUT OUR GAMES

Just For Fun!



ORBOTRON



ORBIT



ORBOSHOOTER



ORBOSPIN

On To The Conference!

**“Synchronizing Our
Vision to the Industry”**



2017 ORBOGRAPH CLIENT CONFERENCE
DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

Synchronizing Our Vision to the Industry

Co-President: Barry Cohen



Our Unique Role



Envision More. Achieve More.

OrboGraph delivers solutions to industries looking to automate posting, reduce manual processing, mitigate risk and leverage data for analysis. We automate these processes with intelligent recognition technologies so payment information can be used in downstream systems.



To deploy technology enhanced by people that provides end to end solutions which deliver mission critical value to our customers

Our Markets



Payments and Banking Industry

OrboGraph plays a vital role in today's payments and banking landscape. Over 1,600 financial institutions and corporations have deployed OrboGraph solutions across their enterprises to automate the process of depositing paper-originated negotiable items, i.e. checks, money orders, preauthorized drafts. Our software processes billions of checks and internal tickets per year across a wide range of Omnichannel workflows including: centralized proof of deposit, teller capture, branch capture, regional processing centers, retail remittance, wholesale lockbox, service bureaus, image exchange, remote deposit devices, Mobile RDC, ATMs, check cashers and point of sale devices.



Healthcare Industry

OrboGraph market penetration into the healthcare payment industry is impressive. Hundreds of healthcare providers, physician groups, hospitals, service bureaus, revenue cycle companies, billers, clearinghouses, financial institutions rely on our solutions to streamline and improve the revenue cycle by improving healthcare payment processing. We convert paper-based EOBs, correspondence letters and patient payments into electronic output to automate cash posting of receivables into patient management systems and hospital information systems. Additional modules reconcile payments and deliver advanced denial intelligence to companies looking to reduce denied claims and improve receivables.

Our Markets



The Markets we serve continue to have robust demand (Current USA volume)

- 18+ Billion checks (**More later...**)
- 1 Billion paper EOBs (**More later...**)
- 100 Million HC Correspondence items

VALUED BUSINESS CUSTOMER
123 WEST MICHIGAN AVENUE
CHICAGO, IL 60606
PH 888-422-6122

1.0079122 001000

DATE _____ \$ _____

PAY TO THE ORDER OF _____

YOUR FINANCIAL INSTITUTION
3 WEST MAYFIELD AVE
CHICAGO, IL 60661

MEMO _____

⑆001000⑆ ⑆012345678⑆ 222291231231⑆

THIS IS NOT A BILL
(Please Keep This Form For Your Records)

EXPLANATION OF BENEFITS

JOHN A DOE
1234 ANYWHERE DRIVE
FARGO ND 58103

Date: 03/01/12
Benefit Plan Number: 1000000000
Page Number: 1 OF 2

Member Services
NO: 855-855-XXXX

Payment Summary	Plan/Claim Number	Paid to:	Total Charge	Cost Allowed	Amount Processed	Pat. Responsibility
FORM A	992310002200	PROVIDER	100.00	80.00	0.00	20.00

YEAR TO DATE COST SHARING STATUS :

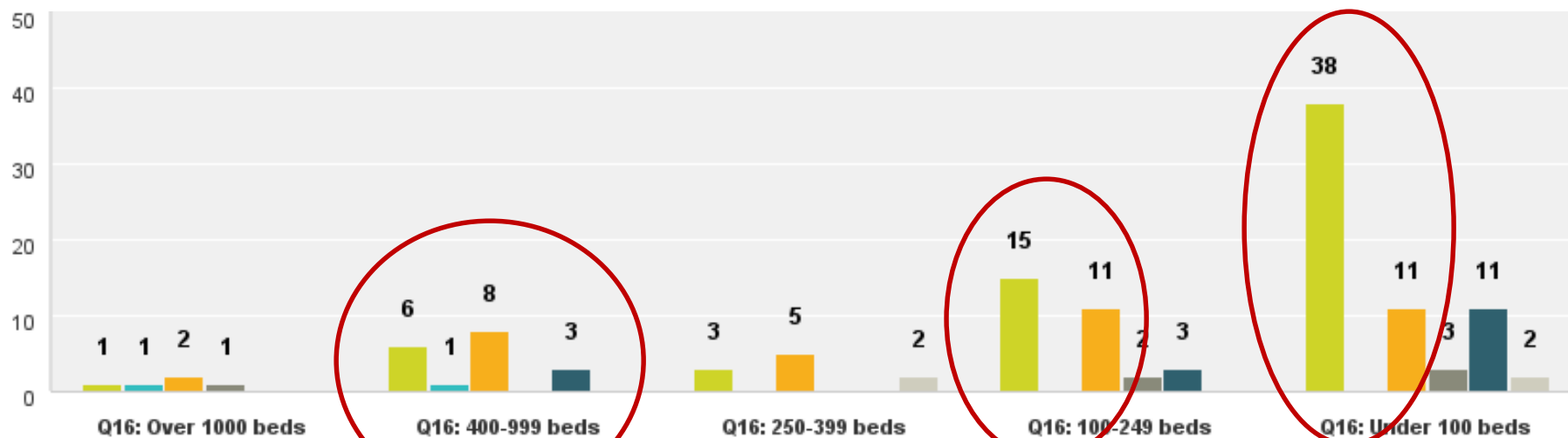
Applied to 100% per member deductible:	Applied to 50% per member maximum:
JOHN A 0 00.00	JOHN A 0 00.00
0 00.00 has accumulated toward family deductible maximum.	0 00.00 has accumulated toward family maximum.

IMPORTANT MESSAGE:
As a beneficiary with ongoing instructions on how to read MEMBER'S Explanation of Benefits (EOB) form, please contact Member Services at the phone numbers listed on the back of this form. Instead, visit our website at www.nd.gov.

Market Research - Hospitals



How EOBs Are Processed

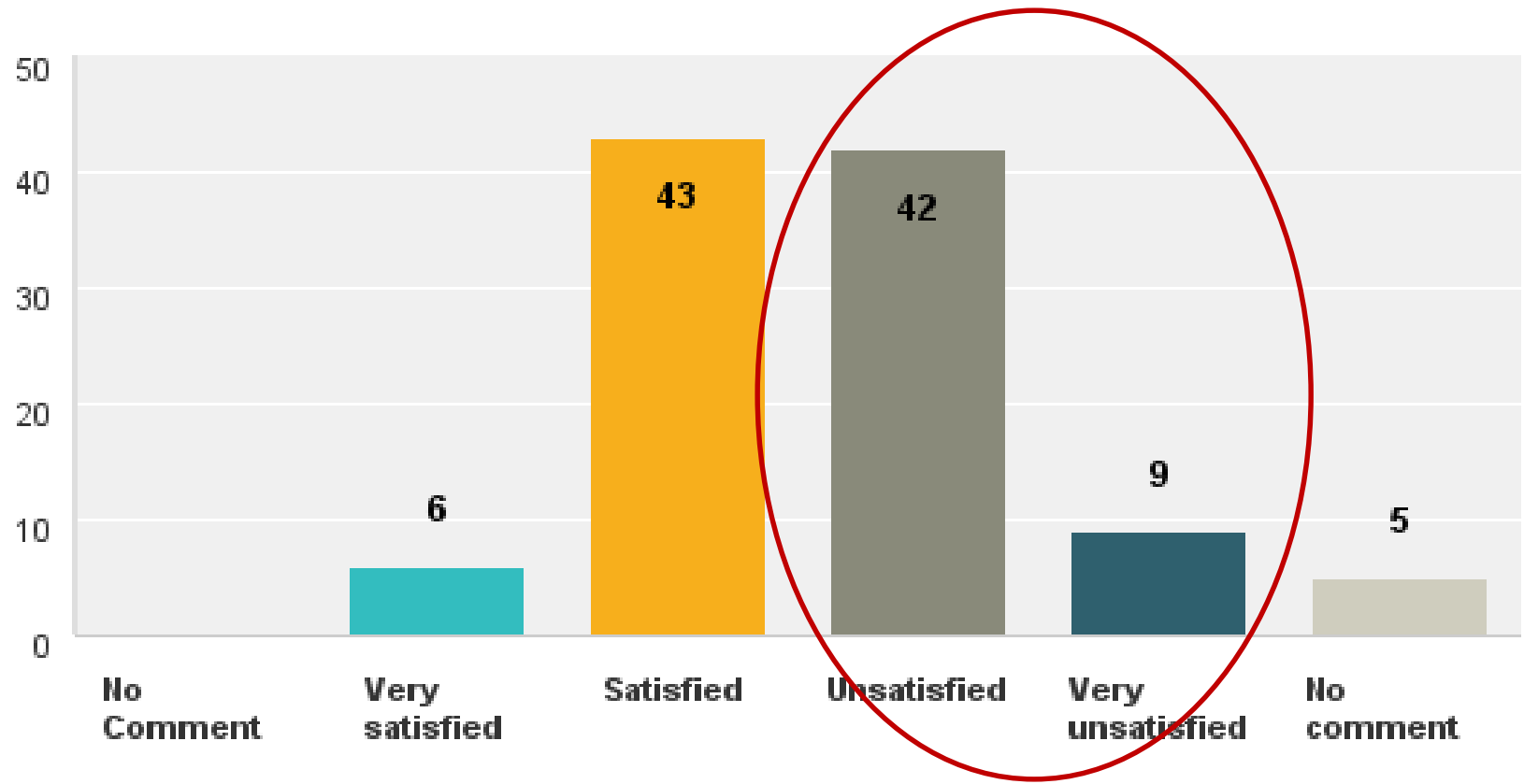


- Internal data entry resources key EOB data into patient accounting/billing system
- Conversion service by business process outsourcer (BPO) outside U.S.
- Lockbox via bank/financial institution
- Outsourced billing service or RCM company – In U.S.
- Clearinghouse (i.e. Emdeon, Zirmed)
- Do not know

Market Research - Hospitals



Correspondence Letter Processing Satisfaction



Going Forward



- Our commitment to the markets we serve remains stronger than ever
- We see convergence of the needs and deliverables between the markets.
- We are excited about the opportunity to leverage our ability to deliver even more value add products and services across these markets.



Synchronizing our Vision to the Industry

Avikam Baltsan, Co-President & CTO of
Orbograph



Our Products Evolution



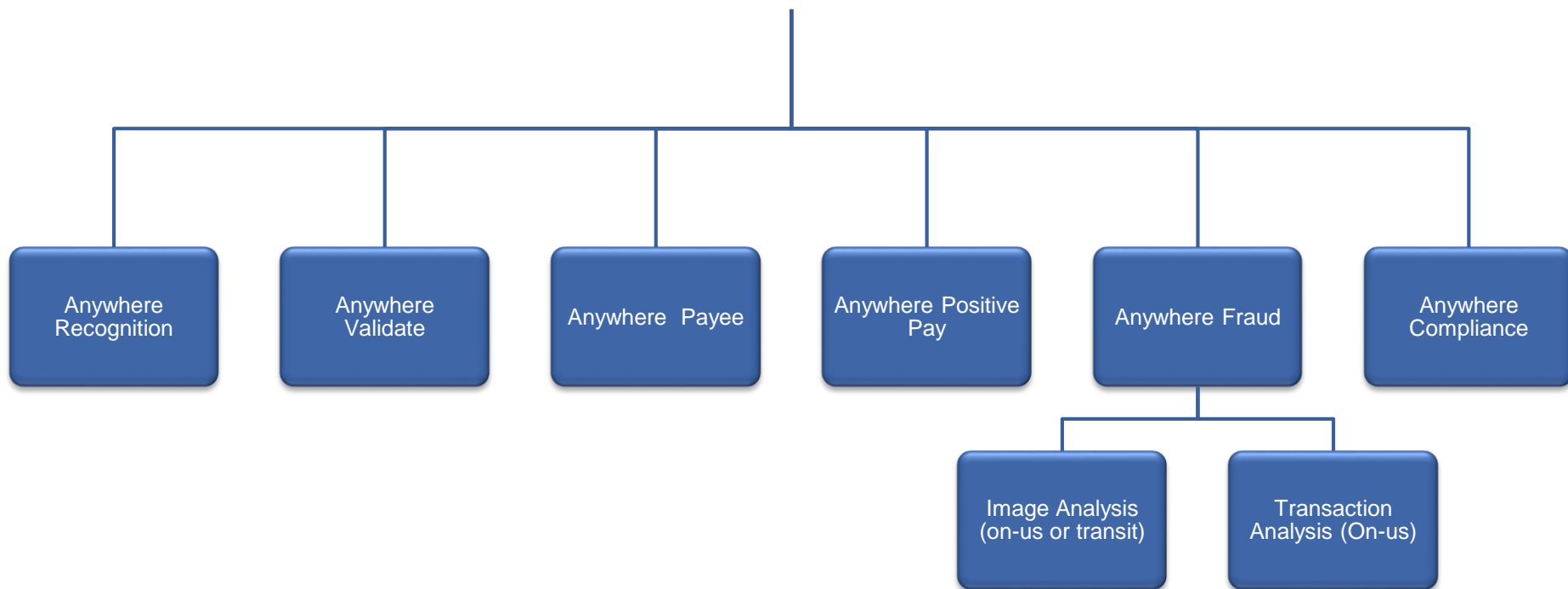
- Check Amount Recognition Engines
 - OrboCAR, Gemini, Trinity, S.Trinity, Accura, Accura XV
- Check Fraud Solutions
 - PNV, Sereno
- Check Automation Solutions
 - Apex, Automation
- Anywhere
 - Validate, Payee & Positive Pay
- Orbograph Access suite of services
 - EOR database, EOB/EOP, Correspondence, HPAC portal, EFT/ERA Re-Association, Archive, Denial Intelligence





OrboAnywhere

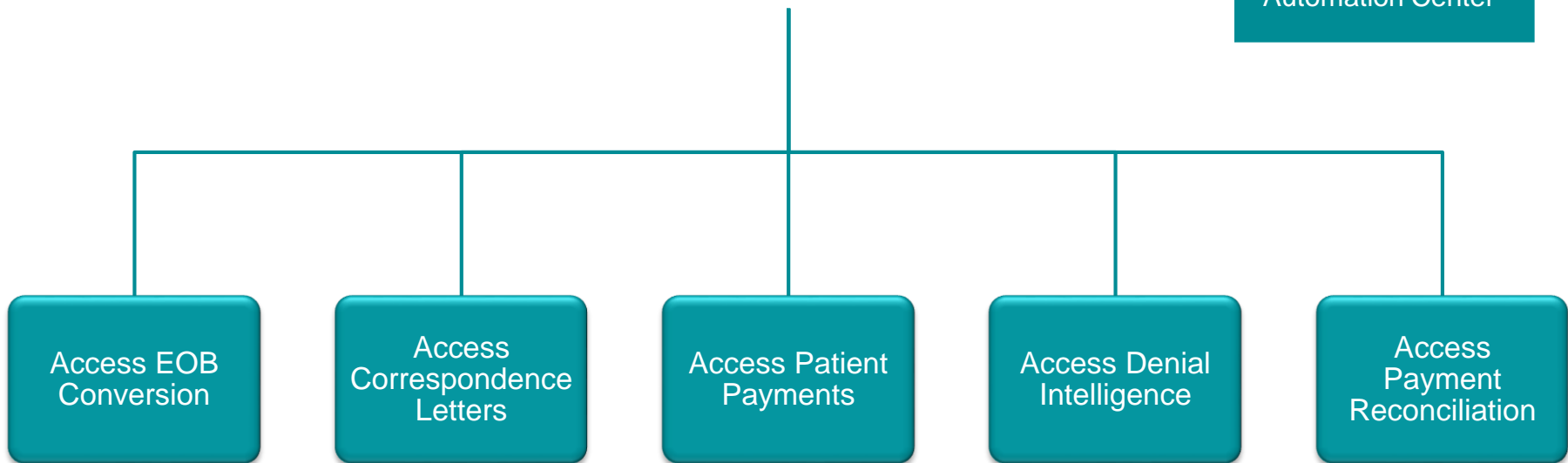
Check Processing





OrboAccess
Healthcare Payments

Healthcare Payment
Automation Center



Common Themes in our Solutions



- State of the art OCR/ICR
 - In house development
 - Best of breed engine, leveraging also open source libraries and solution partners libraries
 - Evolving cooperation with the Israeli Academia on key topics, including machine learning
- Automation as a service
 - Key-Pay® technology for world wide manufacturing
 - Vast and long lasting offshore chain of suppliers
 - Private cloud (15 years) for check image processing
 - Public cloud (5 years) for EOB processing

Common Themes in our Solutions (cont.)



- We continuously grow recognition scope
 - Started at field level (CAR/LAR)
 - Moved to check level (SERENO fraud)
 - Expanded to transaction level (EOB, Patient Pay)
 - Reached multiple transaction level (HRCM portal, Denial Analytics)
 - It's much more than reading (WYSIWYK). It's all about Document Understanding
 - We call it “***Intelligent Payment Automation***”

Common Themes in our Solutions (cont.)



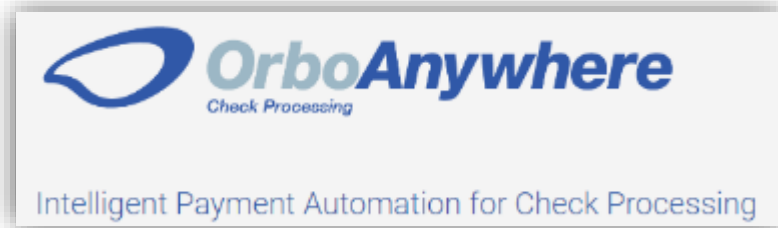
- Our organizational DNA is to endlessly perfect things...whatever it takes
 - Field recognition engine – 30 years
 - Key-Pay infrastructure – 15 years
 - Opti-Lift infrastructure – 5 years
- Execution and delivery of superior results



Investing for the Future in the Check Business



- Support existing customer base: features, OS
- Still performance driven: improving read rates, accuracy levels, suspect reduction, automation
- New technologies: internal, academia, partners
- Infrastructure: web interfaces, validation features, OrboAnywhere platform
- OrboAnywere: ‘cloud ready’: Is the market?
- Keep an eye on trends: identify opportunities i.e. blockchain



Investing in the Future in the Health Business



- Continuous process improvement: Opti-Lift technology, productivity, accuracy and TAT
- Machine learning technology to take process automation to the next level
- Scale out AWS infrastructure: larger volumes
- Business Intelligence: to the next level
- Healthcare “Payments” extensions



Intelligent Payment Automation for Healthcare Payments

Converging and Diverging Market Changes in Payments and Check



Image Exchange and Clearing Trends

March 22, 2017

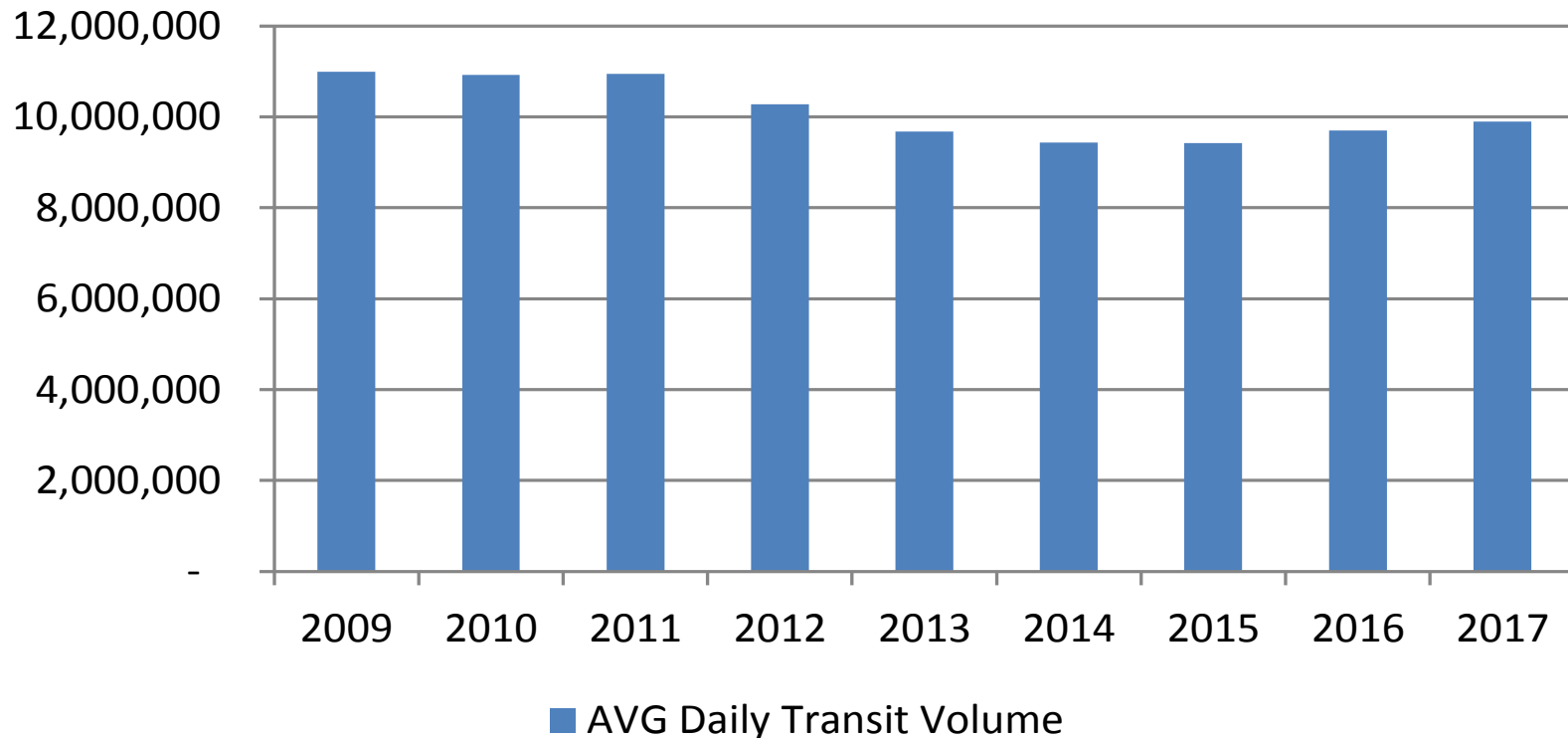
Luke Huys, Wells Fargo



Wells Fargo Transit Clearing Volume Trend



Avg Daily Transit Volume

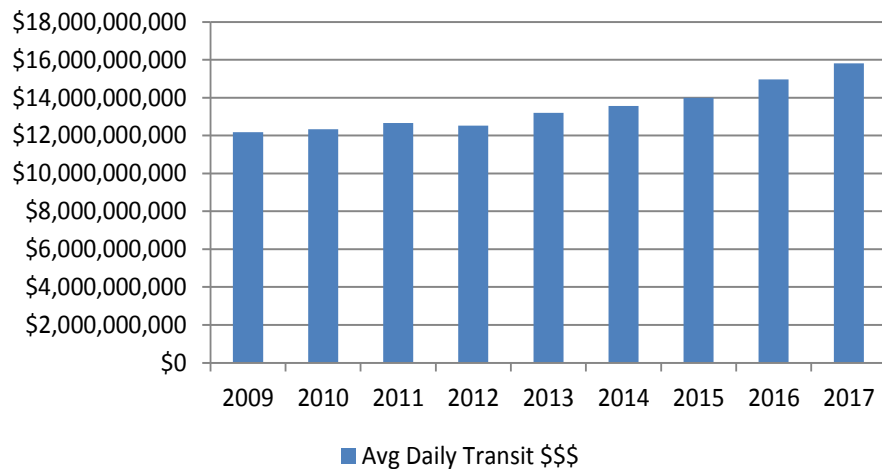


WF has bucked the industry trend of check volume decline in recent years. We'll see later how this was due to growth in clearing services for other financial institutions.

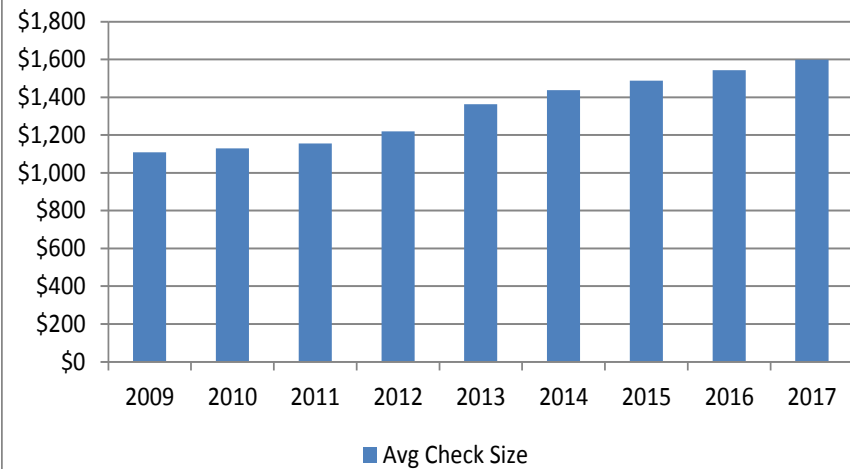
Transit Clearing Trends - Volume



Avg Daily Transit Dollars



Avg Check Size

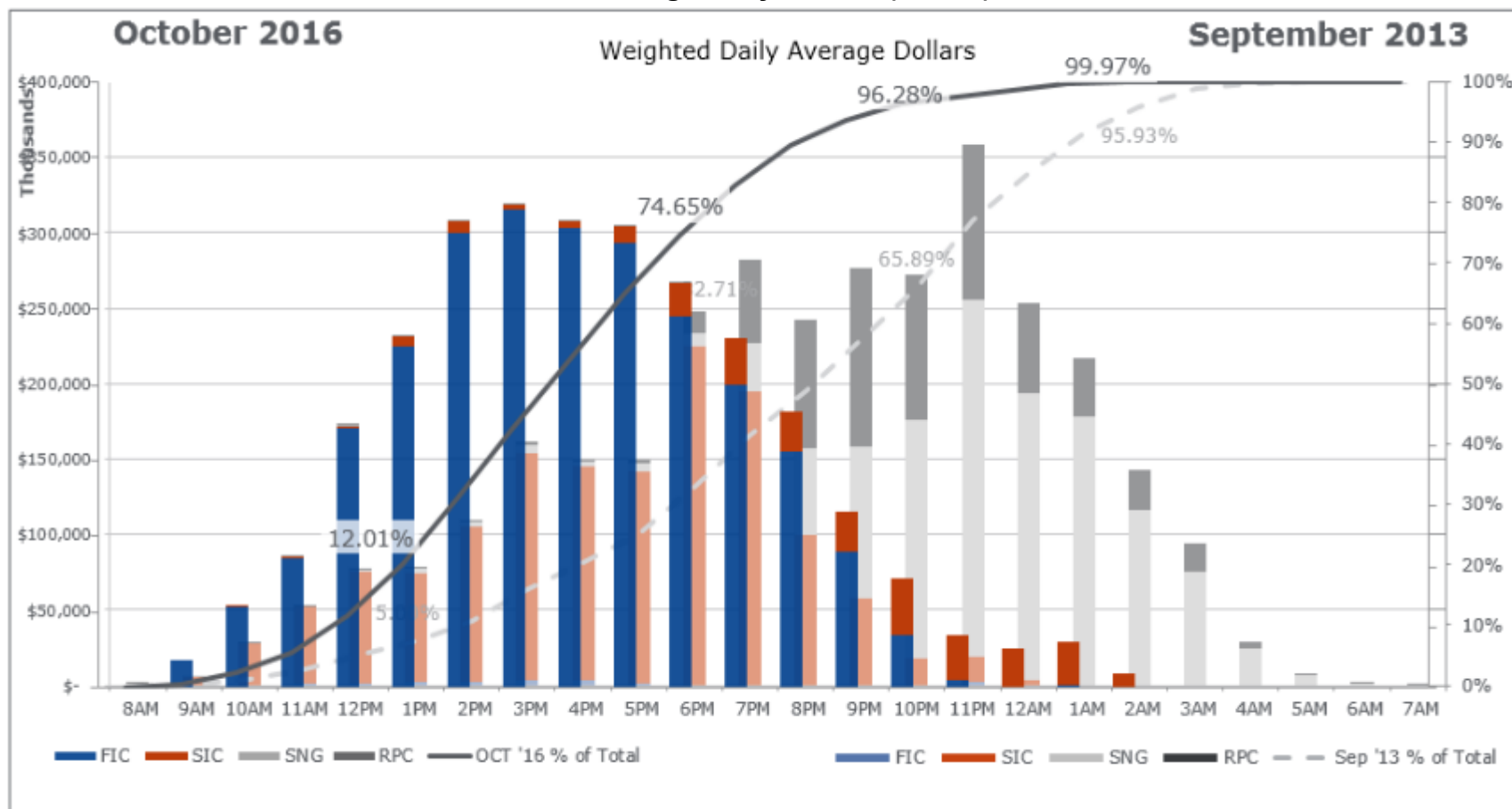


Transit dollars cleared have grown faster than item volume, as the average check size continues to grow each year at about a 4.7% annualized rate.

Float Reporting



AIF Processing Times Average Daily Dollars (\$000's)



Comment: Movement to earlier processing and clearing results from initiatives in branch, ATM and department check image delivery.

Check Adjustments



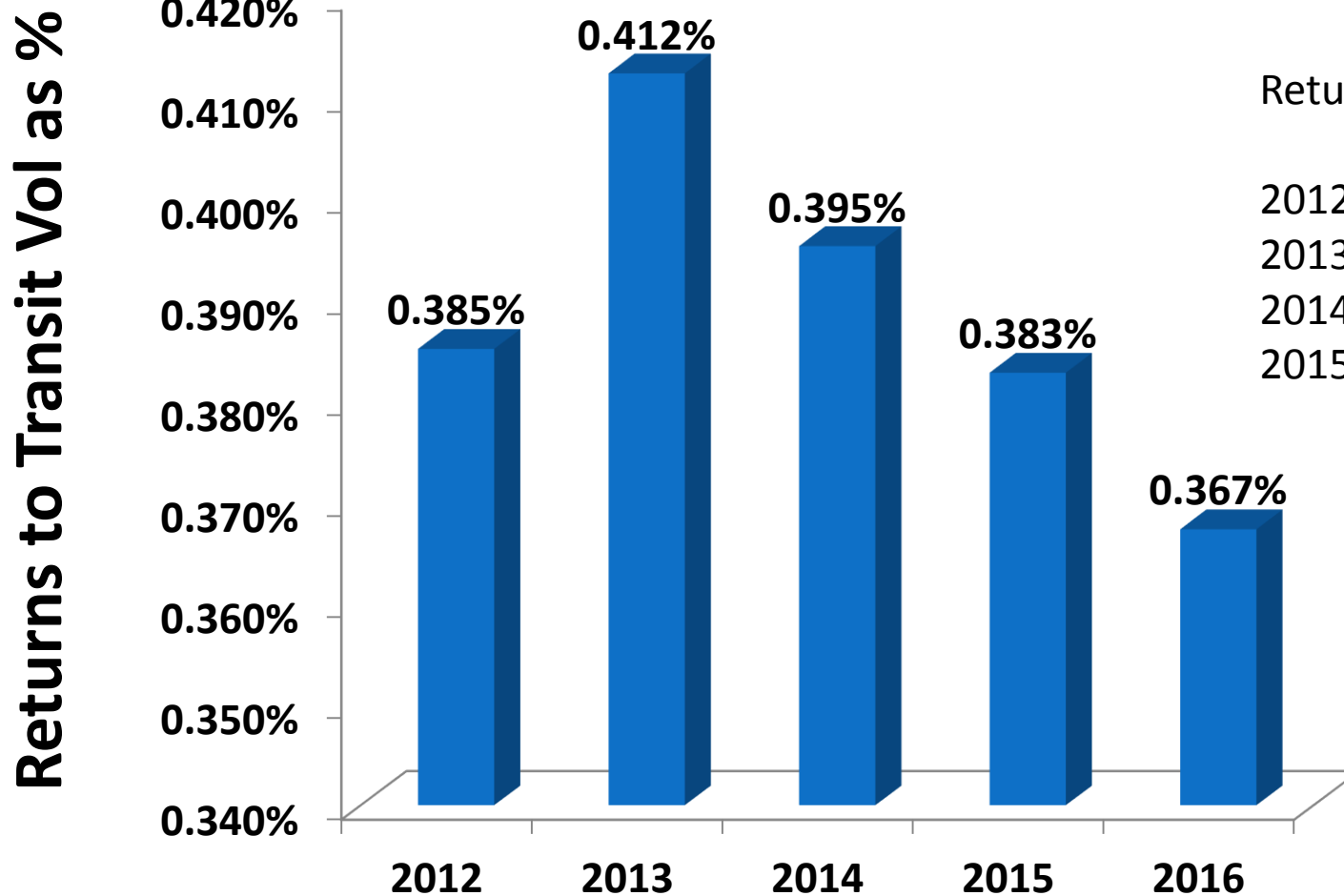
- Adjustment Types
 - Posted Twice
 - Image Issue
 - Amount / Keying Error
 - Listing Error
- Adjustment Sources
 - Mobile
 - ATM
 - RDC
 - Cash Vault
 - Teller Capture



Industry U.S. % of Returns/Mo.



January - July



Return Rate Trend:

2012 - 2013:	↑	.027%
2013 - 2014:	↓	.017%
2014 - 2015:	↓	.012%
2015 - 2016:	↓	.016%

Sources: Federal Reserve, The Clearing House, Viewpointe, various individual banks and various correspondent banks

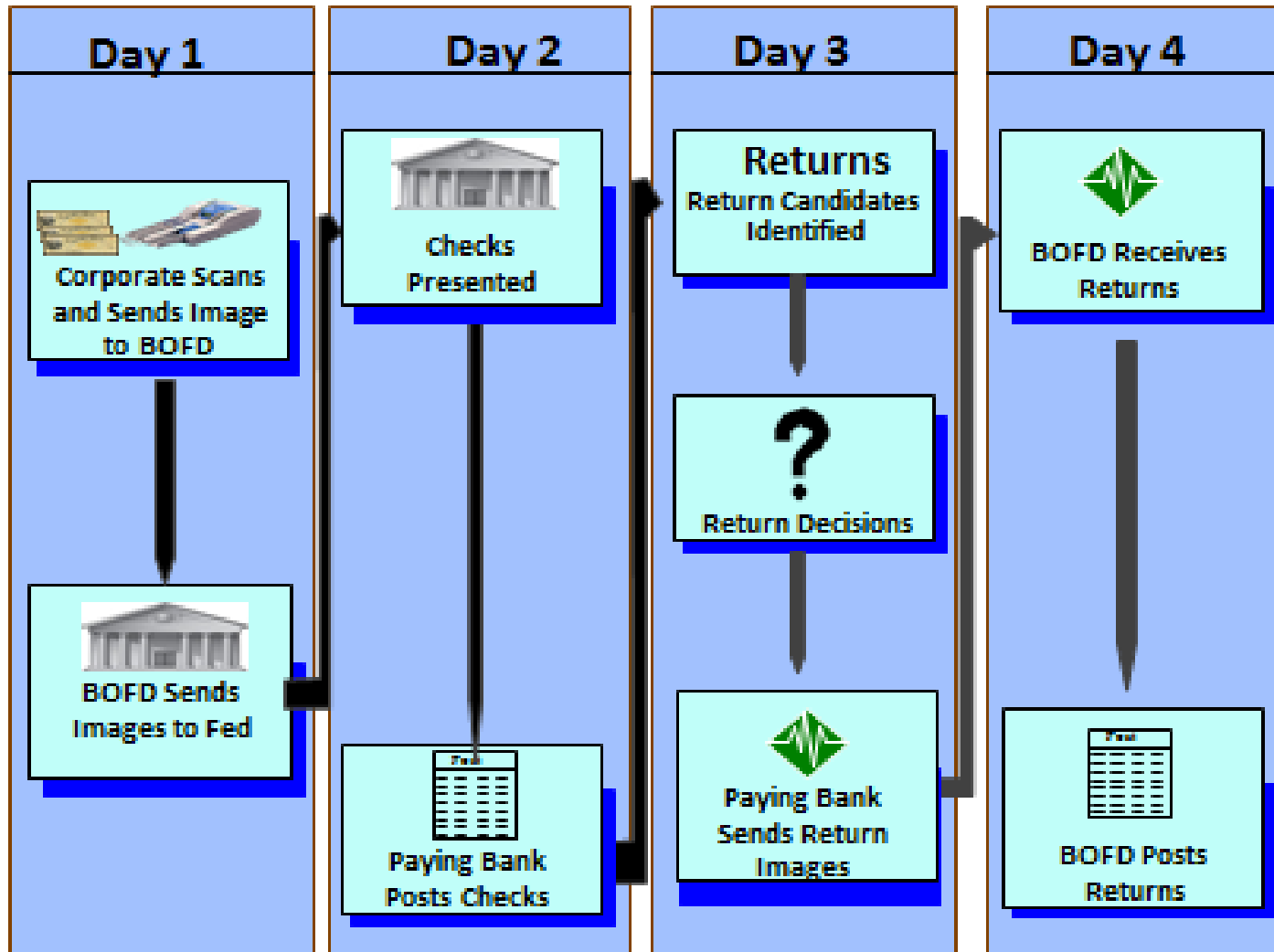
Monitoring Returns for Risk



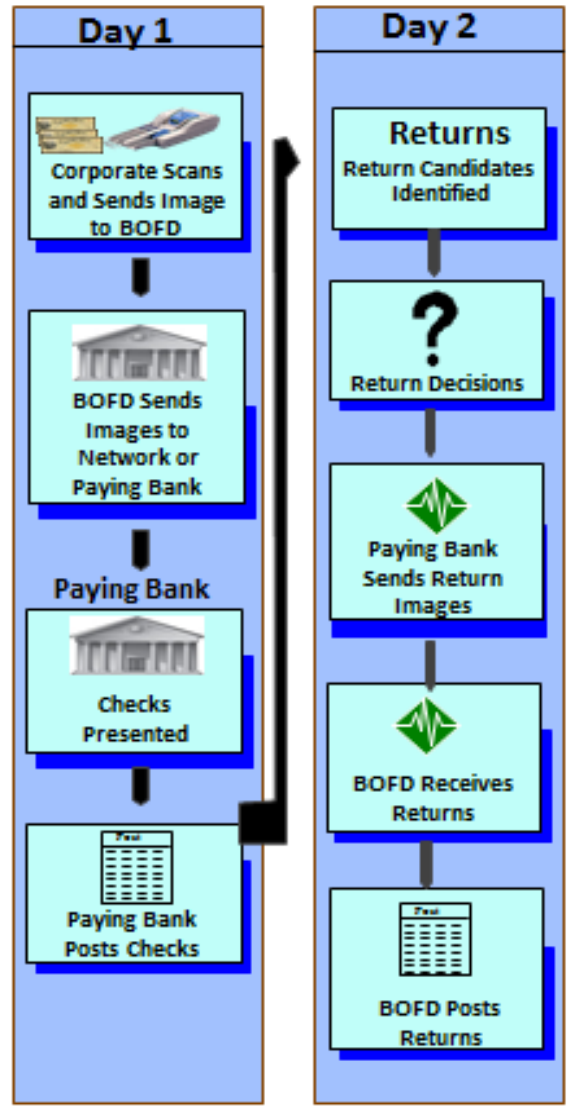
- On a weekly basis, we monitor the number of returns sent to every BOFD routing number, looking for spikes the number of returns to that bank.
- We also monitor returns as a % of our forward volume on a given bank
- Where anomalies are noticed, we investigate the root cause, and collaborate with the Fed and other trading partners to determine if legitimate reasons for the increased returns activity exist.
- On multiple occasions over the last few years, fraudulent activity has been discovered and brought to a halt.
- Also, where increased activity is legitimate, we petition the Fed (with occasional success) to lower the price on that RTN to align with the its volume.

RISK

Fed Intermediary - Check Presentment Image Flow and Timeline of Returns



Direct Exchange - Check Presentment Image Flow and Timeline of Returns





MARCH 22, 2017

FT PARTNERS INDUSTRY RESEARCH



OrboGraph
Intelligent Payment Automation

Client
Conference

Payments, Checks and Healthcare: A FinTech Perspective

FINANCIAL
TECHNOLOGY
PARTNERS

*The Only Investment Bank
Focused Exclusively on Financial Technology*

Overview of FT Partners

- Financial Technology Partners ("FT Partners") was founded in 2001 and is the only investment banking firm focused exclusively on FinTech
- FT Partners regularly publishes research highlighting the most important transactions, trends and insights impacting the global Financial Technology landscape. Our unique insight into FinTech is a direct result of executing hundreds of transactions in the sector combined with over 15 years of exclusive focus on Financial Technology

FT Partners' Advisory Capabilities



FT Partners' FinTech Industry Research

- In-Depth Industry Research Reports
- Proprietary FinTech Infographics
- Monthly FinTech Market Analysis
- FinTech M&A / Financing Transaction Profiles



Named Silicon Valley's #1 FinTech Banker (2016) and ranked #2 Overall by *The Information*



Ranked #4 Most Influential Person in all of FinTech in *Institutional Investors* "FinTech Finance 35"

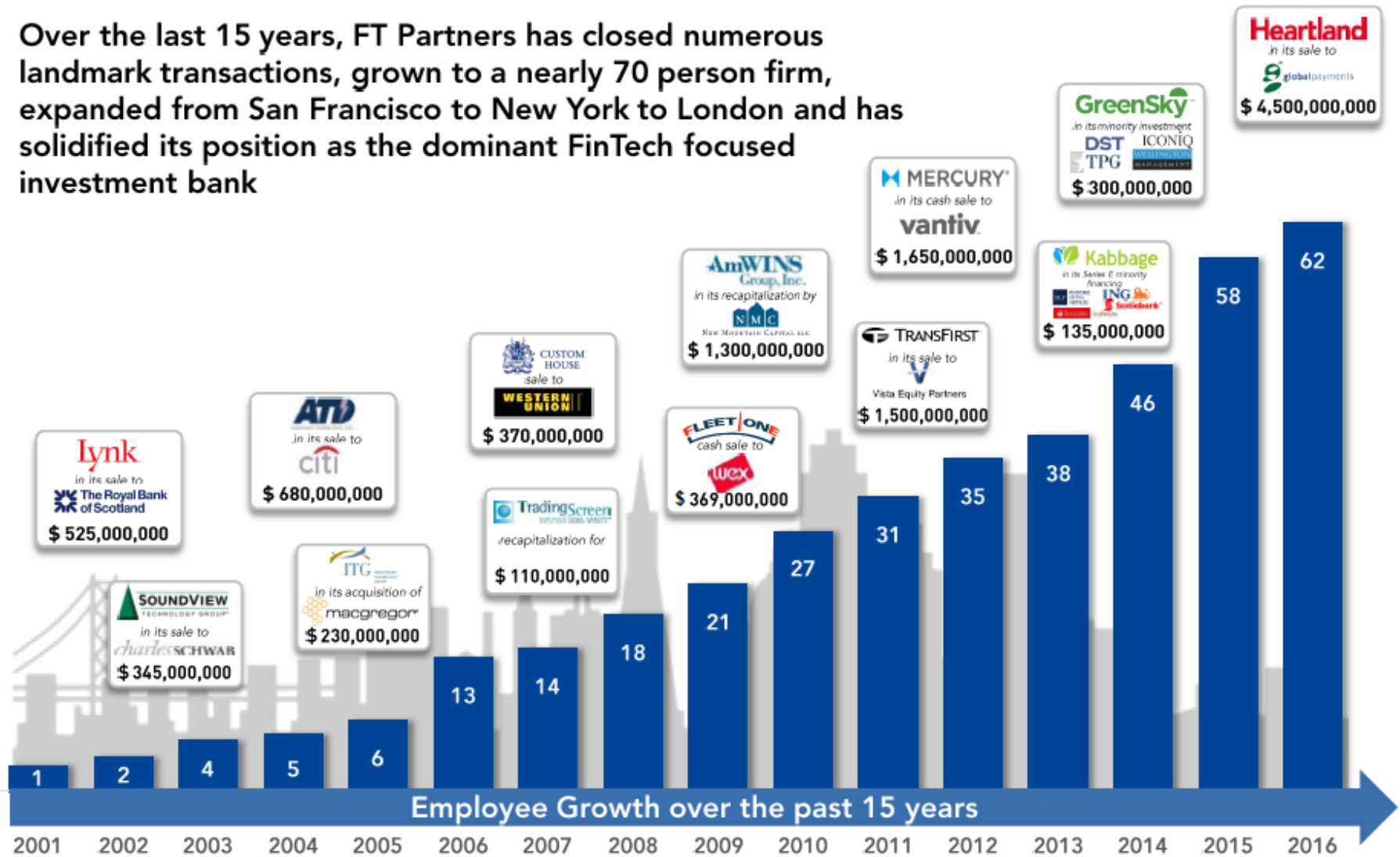


Numerous Awards for Transaction Excellence including "Deal of the Decade"



Overview of FT Partners – 15 Years in Business

Over the last 15 years, FT Partners has closed numerous landmark transactions, grown to a nearly 70 person firm, expanded from San Francisco to New York to London and has solidified its position as the dominant FinTech focused investment bank



FT Partners' Definition of FinTech

What is FinTech?

At its core, FinTech represents the *intersection of financial services and technology*. This includes technology solutions that enable and improve the creation, implementation, distribution and management of all financial products and services as well as technology solutions that enhance internal financial-related processes for all businesses.

7 FinTech Sectors:



Payments



Banking / Alternative Lending



**Securities / Capital Markets /
Wealth Tech**



Insurance Technology



Financial Healthcare Information Tech

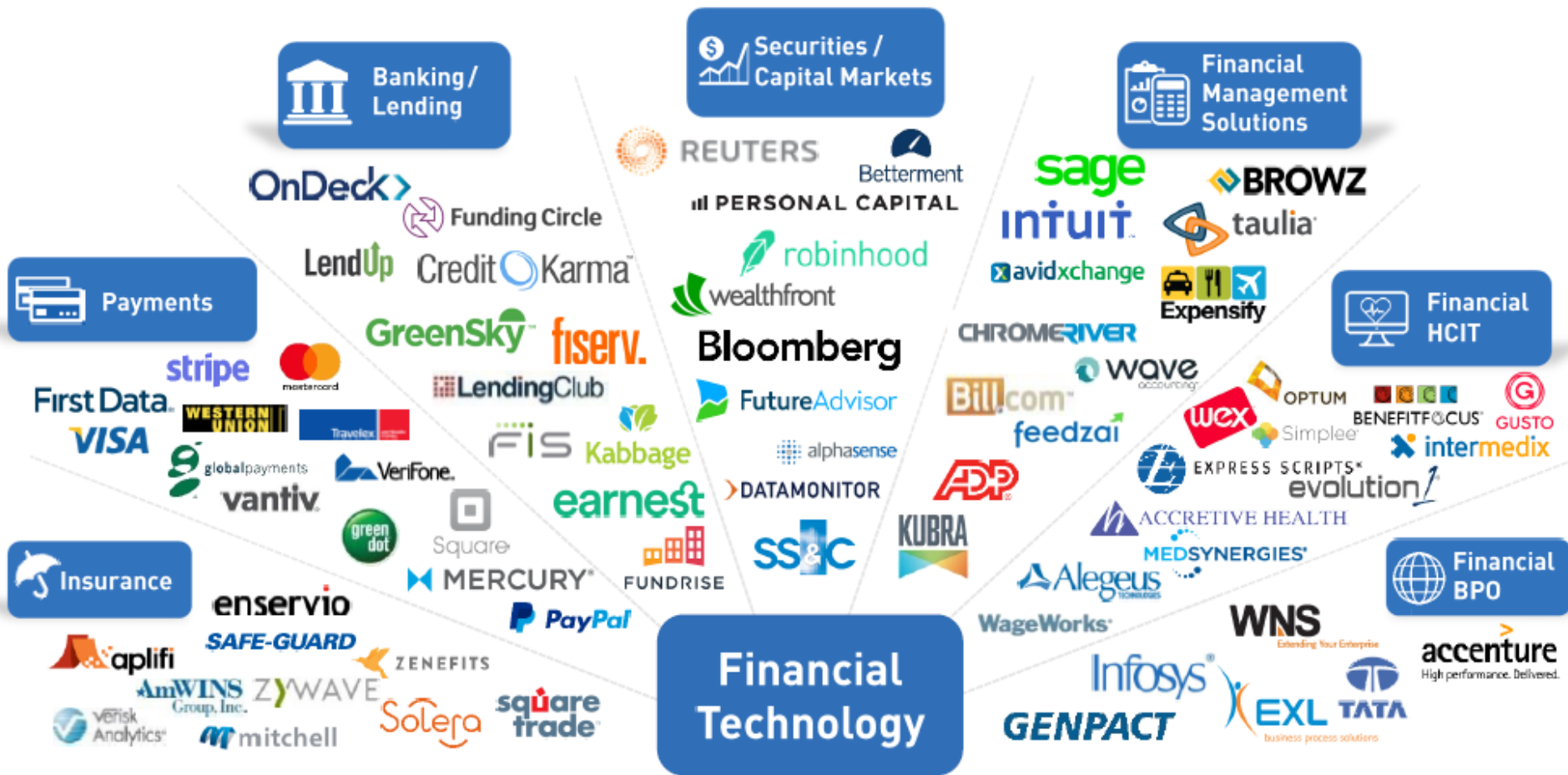


Financial Business Process Outsourcing



Financial Management Solutions

FT Partners – FinTech Sector Coverage



FinTech Deal Activity in 2016

2016 in Review

Financing

Approximately

\$28 billion

in financing volume

&

1,500+

transactions

Record highs for both 2016 global financing volume and number of transactions with financing volume up **30%** from 2015

M&A

Approximately

\$85 billion

in M&A volume

&

900

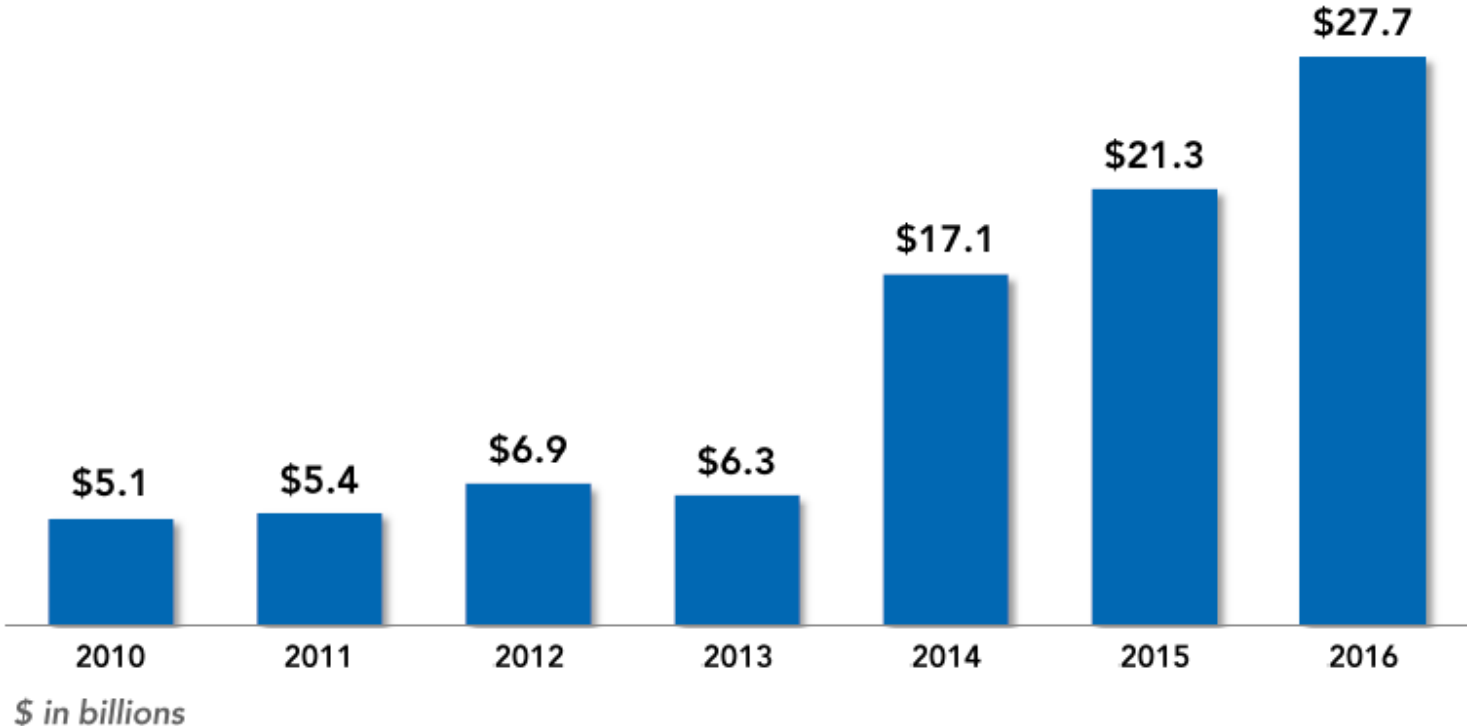
transactions

Total global M&A volume and deal count were down in 2016 compared to both 2015 and 2014, but both still rank higher than any other prior year

FinTech Financing Statistics

Global FinTech Financing Volume by Year

2016 was a **record year** for FinTech financing - Global FinTech Equity Financing volume reached **\$27.7 billion**



Source: FT Partners' Proprietary Transaction Database.

Acquisitions in the Space – Case Study of RDM’s Sale

Expect to see more consolidation around check-related processing / technology

Financial Technology Partners LP
FTP Securities LLC

is pleased to announce its exclusive role as sole strategic and financial advisor to



Transforming Payments

in its sale to



for total consideration of

C\$ 129,000,000



The Only Investment Bank Focused Exclusively on Financial Technology



- RDM provides solutions for business-to-business (B2B) electronic payment processing
- Offers both cloud software and hardware based solutions for end-users in the financial services, insurance, healthcare, industrial, retail and other industries

PAYMENT PROCESSING

RDC Web Solutions



RDC Mobile Solutions



DIGITAL IMAGING SOLUTIONS

Check Scanners



- Deluxe is one of America’s best known check brands and also provides a suite of customer life cycle management solutions and other business and payment services

For Financial Institutions

- Marketing & New Account Services
- Onboarding & Adoption of products

For Small Businesses

- Customer Engagement
- Banker’s Dashboard
- Checks & Business Services
- Website & Online Marketing

RDM will become part of the growing suite of Treasury Management Solutions offered by Deluxe, bringing its robust suite of payments remittance processing and digital imaging software and scanner hardware and to Deluxe’s offerings

Acquisitions in the Space (cont.)

March 2017



Vista Equity Partners has agreed to acquire DH Corp for an Enterprise Value of **\$4.8 billion** ... to combine it with Misys⁽¹⁾

September 2016



Digital Check acquires Check-Scanning Assets from Burroughs; the purchase includes people, products and expertise

July 2013



DH Corp agreed to acquire Harland Financial Solutions for **\$1.2 billion**, adding a suite of FinTech products for Banks and Credit Unions

April 2016



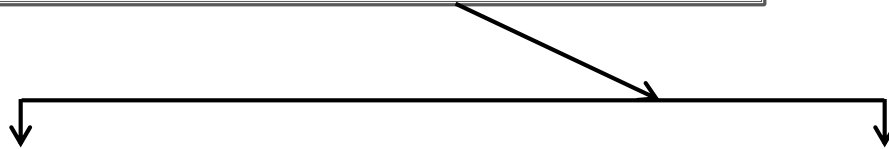
Battery Ventures acquires Alogent Product line from Jack Henry & Associates; the Spinout of the unit to help with Alogent's reach and expansion

Opportunities in Healthcare Reimbursements, Revenue Cycle Management and Electronification

Healthcare Trends in Automation, Regulations and RCM
Jeffery Daigrepoint, SVP
Coker Group, LLC



Coker Group



Coker Consulting

- Acquisition Due Diligence
- Clinical Alignment
- Post-Merger Integration
- Revenue Cycle Mgmt
- Executive Search
- Coding and Compliance
- Medical Staff Development

Coker Financial Services

- Fair Market Valuations
- Transaction Services
- Compensation Planning
- Physician Practice Acquisition and Integration

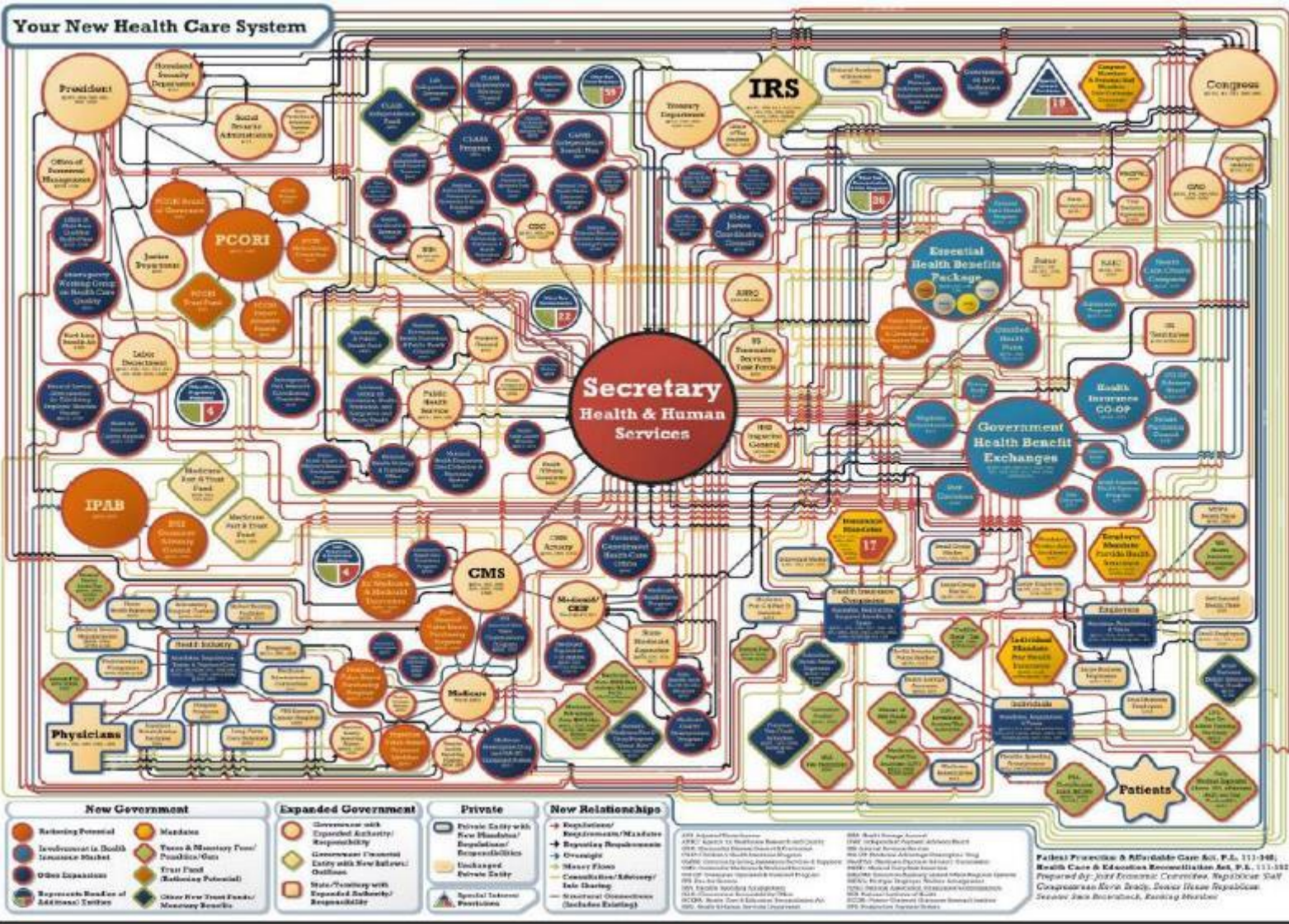
Coker Technology

- Systems Procurement
- Vendor Contracting
- Regulatory & Compliance
- IT Outsourcing
- Managed IT Services

Investment Banking

- Mergers & Acquisitions
- Capital Solutions
- Financial Advisory

Current State of the Market



Healthcare is Undergoing a Seismic Change Paradigm Shift in Managing Care and Cost



Disruption

Healthcare cost is a global crisis

Healthcare quality is inconsistent across care delivery and does not correlate with cost

Value Migration

Revenue model (FFS) threatened

Reimbursement model (Payers) threatened

ACOs ... risk management & cost containment

Information & Analytics a must

- Patient engagement
- Population versus Episodic Care

Market Response

Market consolidation

Vendor consolidation

Maturing product markets

EMR versus community solutions

Monolithic versus Modular

Proprietary versus Open



Current State of the HCIT Market



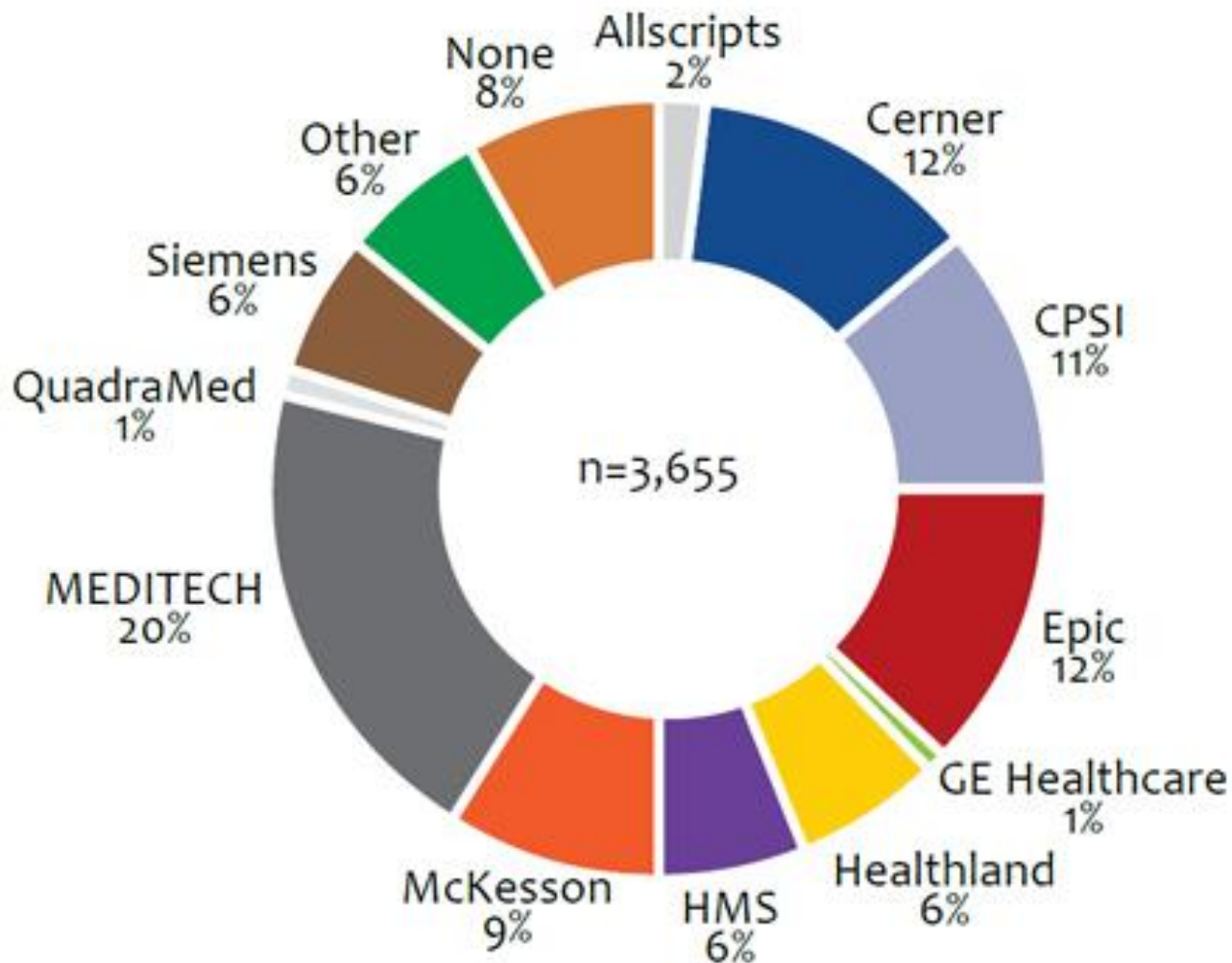
US Physician Population*



	1990	1995	2000	2013
Total Physicians	615,421	720,325	813,770	941,304
Hospital-Based	142,875	154,856	157,032	169,337
Residents / Fellows	92,080	96,352	95,725	98,688
Full-time staff	50,795	58,504	61,307	70,649
% of total - full-time staff	8.3%	8.1%	7.5%	7.5%
% growth in hospital-based		8%	1%	7%
<i>Physicians by Activity, 1975-2010, p. 406</i>				
<i>AMA and Coker Group, 2010</i>				

*This data was included to reflect the updated number of practicing physicians in the US.

The Market Penetration into Hospitals



Dashboard Tools / Analytics



TRENDS IN RCM AND CLAIMS MANAGEMENT

RCM Market Outlook



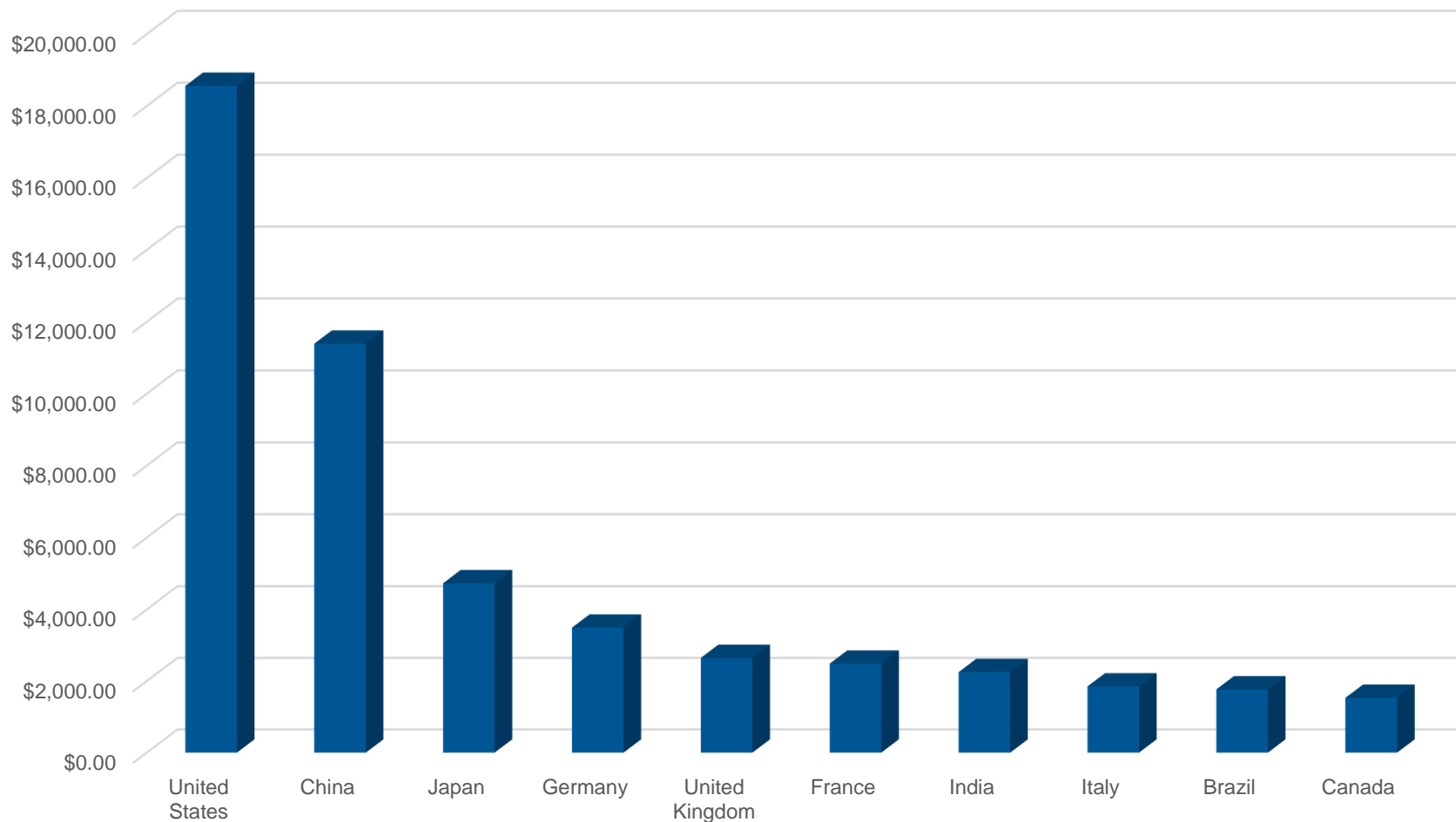
- A new MicroMarket Monitor report projects that the North American RCM market will:
 - Grow from \$20.5 billion in 2015 to \$40.44 billion by 2021
 - Experience a CAGR of 12 percent from 2016 to 2021
 - Most of the RCM market is held by small mom and pop shops who operate on a local level.
- Why?
 - Billing rules continue to get more complex
 - More education and time required to code, bill and collect
 - Qualified RCM staff can demand \$80k+ annual salary
 - Providers must maximize billing/collections to survive

Opportunities in Healthcare Reimbursements, Revenue Cycle Management and Electronification

Mike Olson, Owner and Principle
RC Conserv



2016 GDP (Billions of US \$)

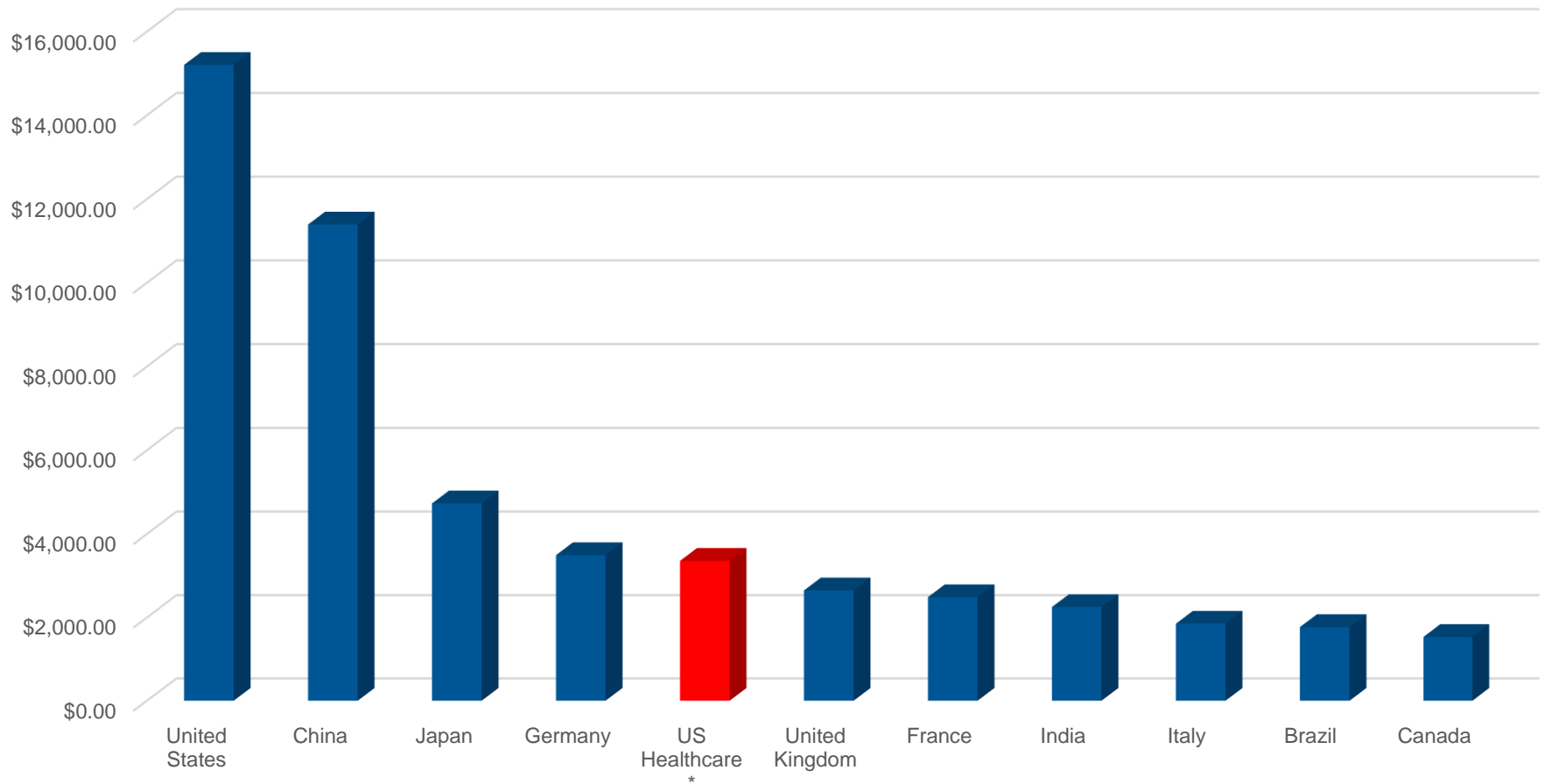


Source: www.imf.org

US Healthcare Expenditures as its own GDP



2016 GDP (Billions of US \$)



* Estimated

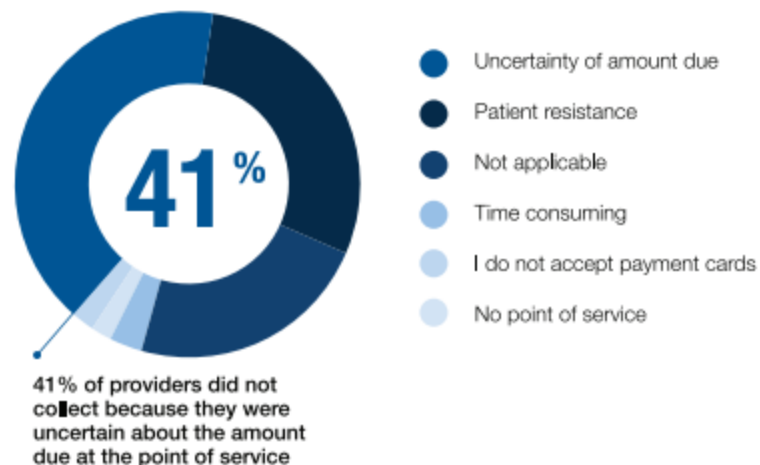
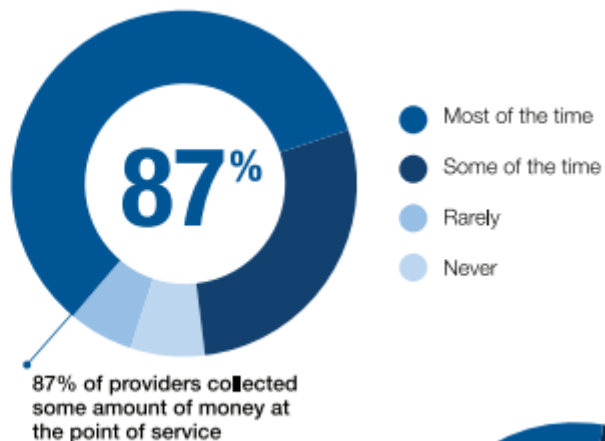
Source: <https://www.cms.gov/research-statistics-data-and-systems/statistics-trends-and-reports/nationalhealthexpenddata/nhe-fact-sheet.html>

Consumerism Forcing Change (POS)



9 in 10 consumers want to know payment responsibility at the point of care

In 2015, 87 percent of providers said that they collected some amount of money at the point of service for the majority of their patient visits. When they did not collect at the point of service, 41 percent said that it was due to uncertainty of the amount due, while 29 percent said that it was due to patient resistance to pay.



Source: InstaMed - Trends in Healthcare Payments Sixth Annual Report: 2015

Healthcare Transactions



Transactions	Manual Processing Cost	Electronic Processing Cost
Claim Submission/Receipt	\$2.64	\$0.68
Eligibility Benefit Verification	\$8.39	\$0.49
Prior Authorization	\$11.18	\$1.93
Claim Status Inquiry	\$9.79	\$1.85
Claim Payment	\$3.46	\$0.78
Claim Remittance Advice	\$6.19	\$1.00
Claim Attachments	\$6.99	\$1.27

Estimated \$9.4 billion in savings by moving to electronic transactions

Source: <http://www.caqh.org/sites/default/files/explorations/index/report/2016-caqh-index-report.pdf>

Paper to Electronic



EFT/ERA Mandate effective 1/1/2014

- EFT (electronic funds transfer) & ERA (electronic remittance advice)
- Requirements
 - All commercial payer adoption
 - Ability to accommodate payment via ACH
 - ERA must contain trace re-association number (TRN)
 - Payments within 3 days of ERA
 - Provider must request EFT/ERA standard from Payer
- All Medicare payments via EFT



Paper to Electronic



Resolves obstacles:

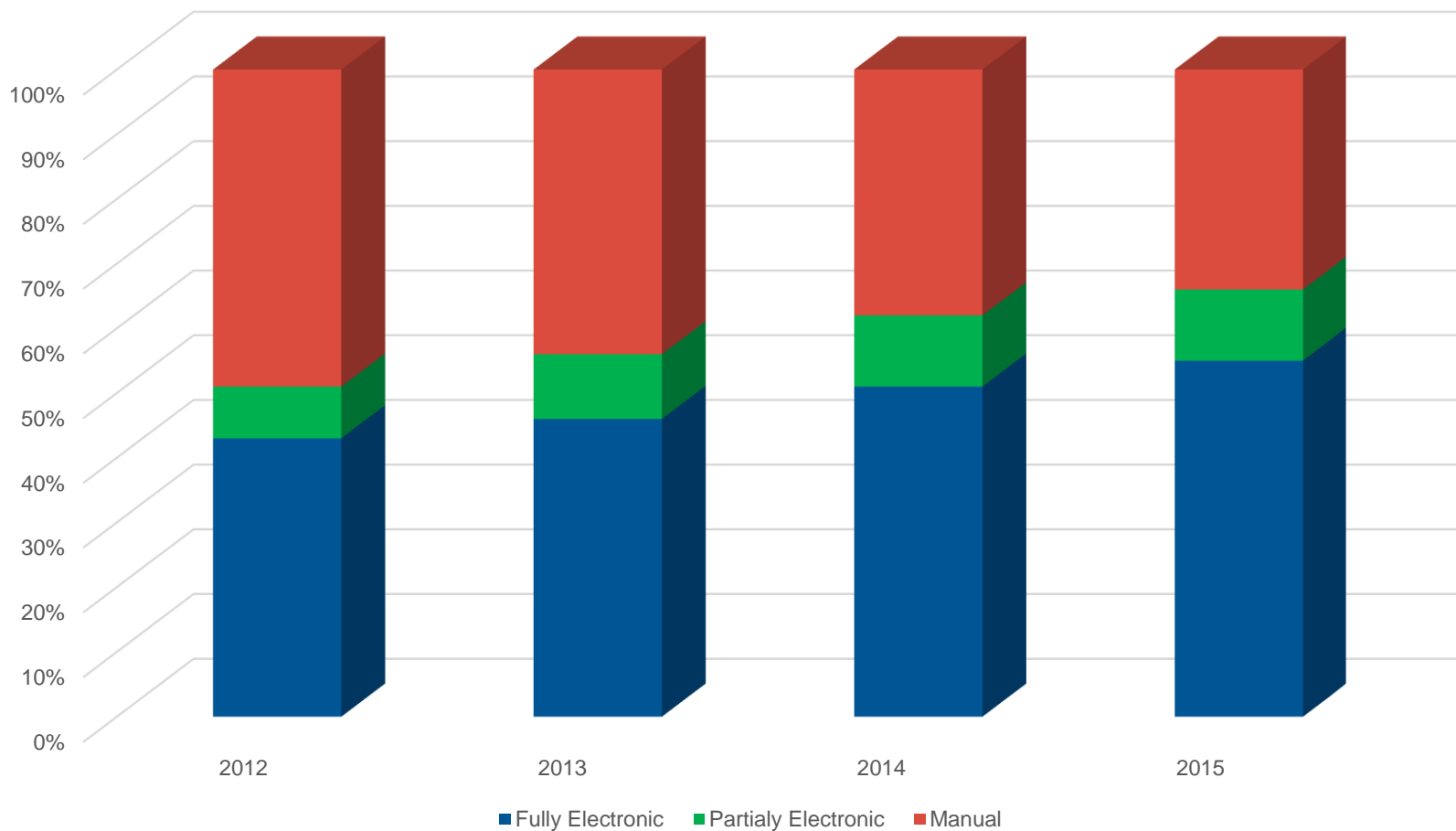
- Administratively difficult enrollment
- Ability to re-associate payment to ERA
- Time lag between payment information and payment receipt
- Advantages:
 - Save time and expense when posting payments
 - More efficient reconciliation
 - Improved working capital
- Challenges:
 - Difficulty in matching EFT's and ERA's
 - Smaller payers unable to provide ANSI standard 835's



Paper to Electronic



Paper to Electronic



Source: <http://www.caqh.org/sites/default/files/explorations/index/report/2016-caqh-index-report.pdf>

MACRA



- Medicare Access and CHIP Reauthorization Act of 2015 (MACRA)
 - Replaces fee for service and SGR
 - Designed to expedite the move to value based payments
 - By 2019 Physicians will be assigned to one of two payment models (Quality Payment Programs – QPP)



Source: <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-Based-Programs/MACRA-MIPS-and-APMs/MACRA-MIPS-and-APMs.html>

A Banker's Perspective



- Banks have a unique position in healthcare
- Banks will continue to offer RCM services
 - Services will have to adapt to handle emerging payment models
 - Look to strategic partners
 - Banks will look to minimize risk and exposure
 - Less white label, more referral
- Focus on patient payments
 - Employer engagement
 - Card opportunities
 - Non traditional financial services

Solving Payment Negotiability in the New Era of Branch Transformation, Self Service and Workflow Innovations

Making Sense of Payment Trends/Future

By David Walker

ECCHO – dwalker@eccho.org



Who is ECCHO?



- **ECCHO is:**

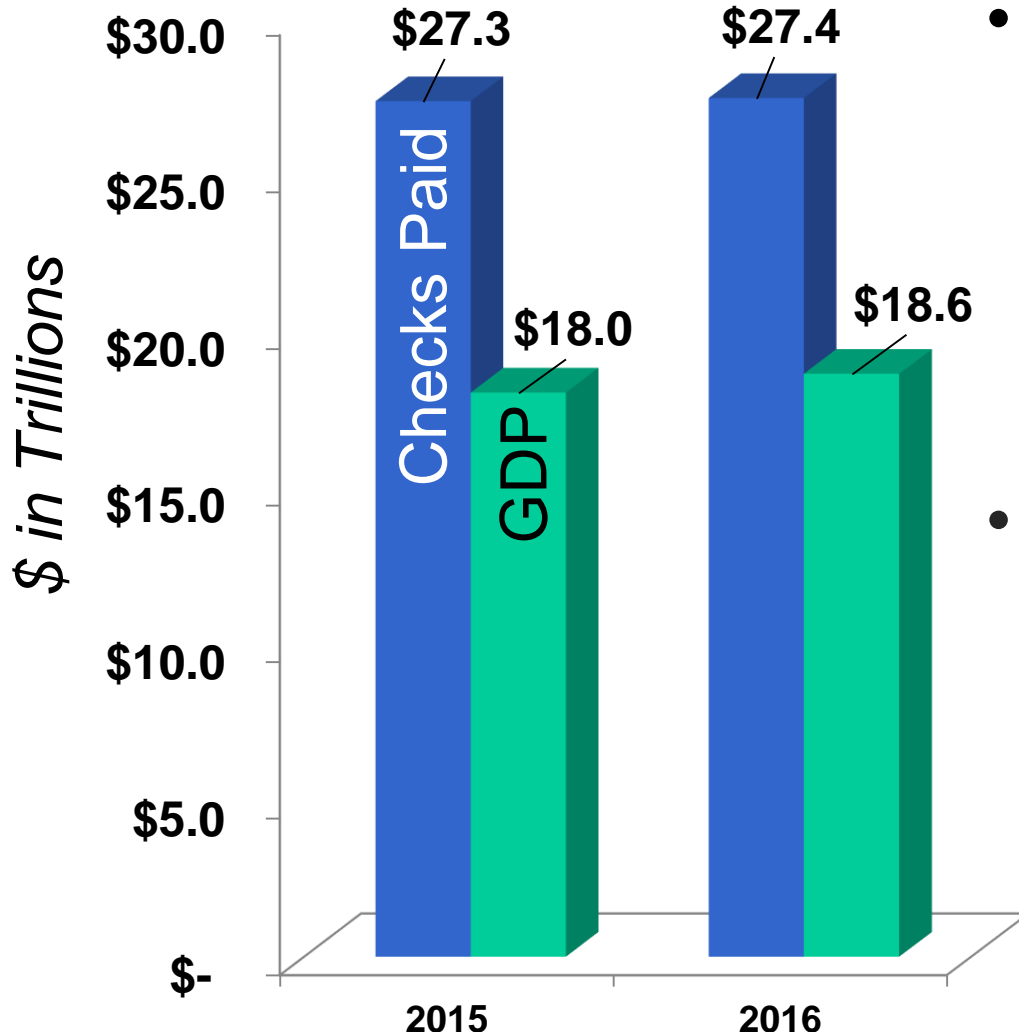
- A not-for-profit mutual benefit corporation
- UCC clearinghouse
- Owned by its member financial institutions
- Largest FI member organization in the U.S. in terms of total deposits held by its members - ~80% of total U.S. deposits
- Most diversified FI member organization in the U.S. not associated with a service provider
 - Membership includes credit unions, corporate credit unions, community banks, bankers banks, mid-tier FIs and large FIs
 - Only time in history

Making Sense of Payments Trends



- **Why are Check Image Rules Needed?**
 - No comprehensive default law to address check image payments
- **Uniform Commercial Code (UCC)**
 - Basis for most paper check law – State Law
- **Regulation CC**
 - Supplements UCC legal provisions for paper checks – Federal Law
- ***Neither UCC nor Reg CC Addresses Check Image Exchange Provisions***

Making Sense of Payments Trends



- At \$27.4 Trillion, Checks Totaled 147% of U.S. GDP in 2016!
- ***GDP**- Gross domestic product (GDP) is the monetary value of all finished goods and services.

*Sources: GDP –Bureau of Economic Analysis, Dept of Commerce – CheckImageCentral

Making Sense of Payments Trends



- **How Much is Check Declining?**

- Federal Reserve, in its Triennial Payments Study that transit checks totals **12.9** billion
- ECCHO reported (Checkimagecentral) total transit volume in 2012 was **16.0B**
- **Represents a 3.1 billion differential = 24% (shortfall in triennial report)**
- ECCHO immediately encouraged the Fed to reevaluate its estimated check volumes

Making Sense of Payments Trends



- **Impact of Fed's Revisions**

- If transit volume in 2015 was 12.7B and 12.9B in 2012:

- Annual decline rate would only be .517% ($12.9B - 12.7B = .2B / 3 \text{ years} = .517\% / \text{yr.}$)

- Fed reported in 2013 Payments Study:

- Annual decline rate of 10.4%

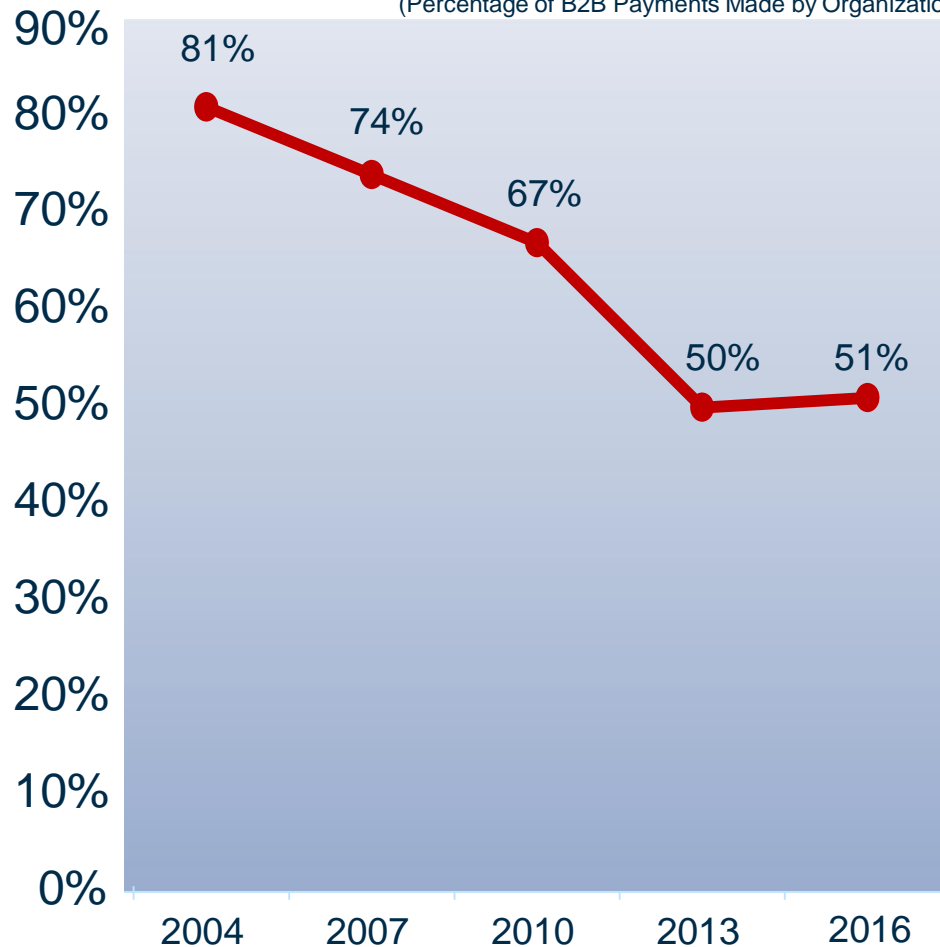
- If transit volume in 2015 was 12.9B and 14.1B in 2012:

- Annual decline rate would only be 2.84% ($14.1B - 12.9B = 1.2B / 3 \text{ years} = 2.836\% / \text{yr.}$)

Making Sense of Payments Trends

Percentage of Organization's B2B Payments Made by Checks

(Percentage of B2B Payments Made by Organizations)



What Has Happened?

- Declining Trend from 2004 is Broken!
- Check Use is Not Declining Anymore!
- What is Behind the Continued Check Use?
 - Barriers
 - Cost of Change
 - Familiarity with Checks

Source: 2016 Electronic Payments, Association for Financial Professionals



Making Sense of Payments Trends



- **Decision Could be Impacted by Changes in Future Payments**
 - How likely is Faster Payments to replace checks for business payments?



Solving Payment Negotiability & Compliance Challenges in the New Era of Branch Transformation and Self Service

Joe Gregory

VP Marketing, Orbograph



Targets for Improvements



TELLER IMAGE CAPTURE



CENTRALIZED/INCLEARINGS



POINT OF SALE



REMITTANCE PROCESSING



BRANCH IMAGE CAPTURE



Address specific challenges, risks and problems generated from each Omnichannel workflow



CONCIERGE TABLET



REMOTE DEPOSIT CAPTURE



MOBILE RDC



VIDEO ATM



SELF SERVICE KIOSK

Now Specific Field Interests



Payor Name/Address

Free read OCR, Watch Lists,
Marketing

Payee

Marketing, Remittance Posting, Positive
Pay, Fraud Detection, Marketing

Date

Negotiability, Positive Pay,
Fraud Detection

Check Number

Positive Pay, Fraud
Detection, Image Integrity

Courtesy Amount

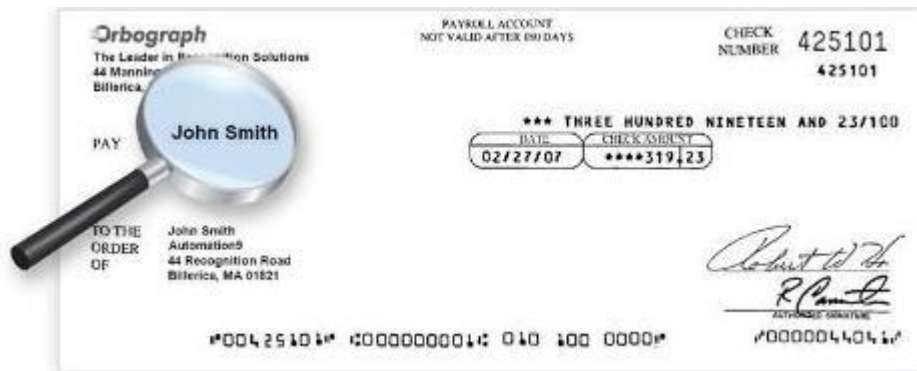
POD, Amount Verification,
Positive Pay, Fraud
Detection, Image Integrity

Legal Amount

POD, Amount Verification,
Positive Payee, Fraud
Detection, Image
Integrity,

Memo Line

Remittance, AP Posting



Check Stock Validation

Negotiability, Fraud Detection

MICR Line

Posting, Image Integrity

Signature

Negotiability, Fraud Detection

Market Needs Have Evolved



- From centralized to omnichannel
 - Completely unmonitored transaction input into the check clearing system
 - No validation vs. manual vs. sampling
- Cloud and/or virtualized servers
- Check's fraud exposure increased with EMV
 - Counterfeiters are back...
- Rules and regulations from REG CC/UCC
- Banks tightened up their deposit agreements
 - How to control/monitor?



Example of Bank Deposit Agreement



5. Eligible Items and Security Interest. You agree to scan and deposit only checks as the term check is defined in Federal Reserve Regulation CC ("Reg. CC"). You agree that the Image of the check that is transmitted to the Bank shall be deemed an "item" within the meaning of Articles 3 and 4 of the Uniform Commercial Code (1990 Official Text).

You agree that you will not use this Service to scan and deposit any of the following checks ("Prohibited Check"), which shall be considered prohibited notwithstanding that such checks may constitute "checks" under Reg. CC:

- Checks payable to any person or entity other than the owner(s) of the account into which the check is being deposited.
- Checks containing an alteration to any of the fields on the front of the check, or which you know or suspect, or should know, otherwise not authorized by the owner of the account on which the check is drawn
- Checks payable to two or more persons jointly, not alternatively, unless deposited into an account jointly owned by those persons.
- Checks previously converted to a substitute check as defined in the Account Agreements, are "image" substitute checks.
- Checks drawn on a financial institution located outside the United States.
- Checks that are remotely created checks, as defined in the Account Agreement.
- Checks not payable in United States currency.
- Checks dated more than six (6) months prior to the date of deposit.
- Checks prohibited by the Bank's current procedures related to this Service or which are governed by the terms of any other financial institution governing your Bank account.
- Checks payable on sight or payable through Drafts.
- Checks with any endorsement on the back other than that specified in this Agreement.
- Checks that have previously been negotiated, submitted through this Service, or through a remote deposit capture service of any other financial institution.
- Checks that are drawn or otherwise issued by the U. S. Treasury Department.
- Money Orders or Postal Money Orders.
- Travelers Checks.

5. Types of Checks. You may deposit checks using Mobile Deposit Capture, however, there are some checks that you cannot deposit. These include:

- Checks payable to any person or entity other than you.
- Checks containing any alteration of which you know or believe to be fraudulent or not authorized by the owner or the account on which the check is drawn.
- Any checks that are not in original form with a signature, such as substitute checks or remotely created checks, as defined in Reg. CC.
- Traveler's cheques or money orders.
- Returned checks.
- Postdated checks or stale dated checks (more than 6 months old).
- Checks written off an account at a financial institution located outside the United States.
- Checks not payable in United States currency.

Note that any check that you attempt to deposit using Mobile Deposit Capture is subject to verification by Bank of the West. We may reject an item for deposit for any reason and will not be liable to you. In such case, you will need to deposit the item by other means, such as visiting a Bank of the West location.

You agree that we may, in our sole discretion, amend the list of Prohibited Checks from time to time. If you deposit a Prohibited Check, you agree to indemnify and reimburse the Bank for, and hold the Bank harmless from and against, any and all losses, costs and expenses (including reasonable attorneys' fees) the Bank may incur associated with any warranty, indemnity or other claim related thereto.

Ensure Payment Negotiability



- Validate every check (on-us and transit)
- Optimized by risk factors
 - Channel
 - Source
 - Document
- Real-time any workflow
- Automate & make immediate risk decisions
 - Factoring in problematic areas:
 - ATMs in suspect areas
 - Account types
 - Doubtful collectability

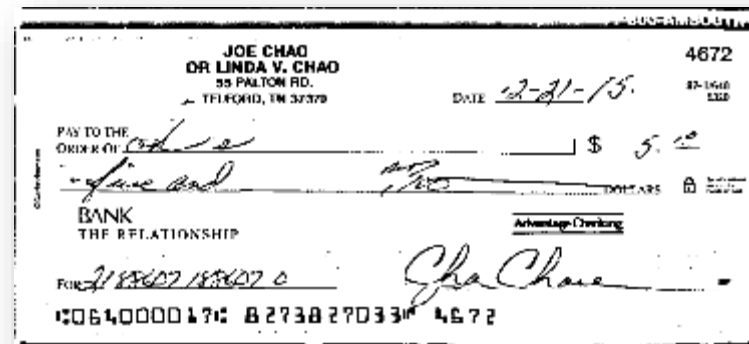
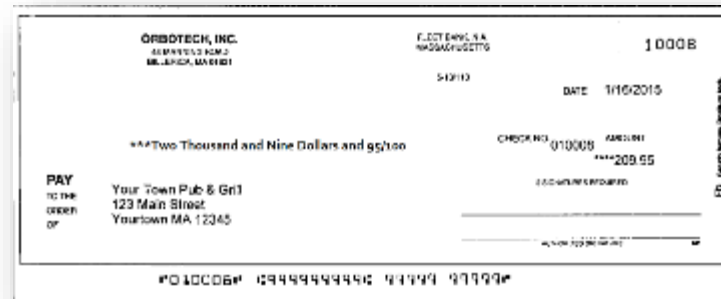


Payee Matching



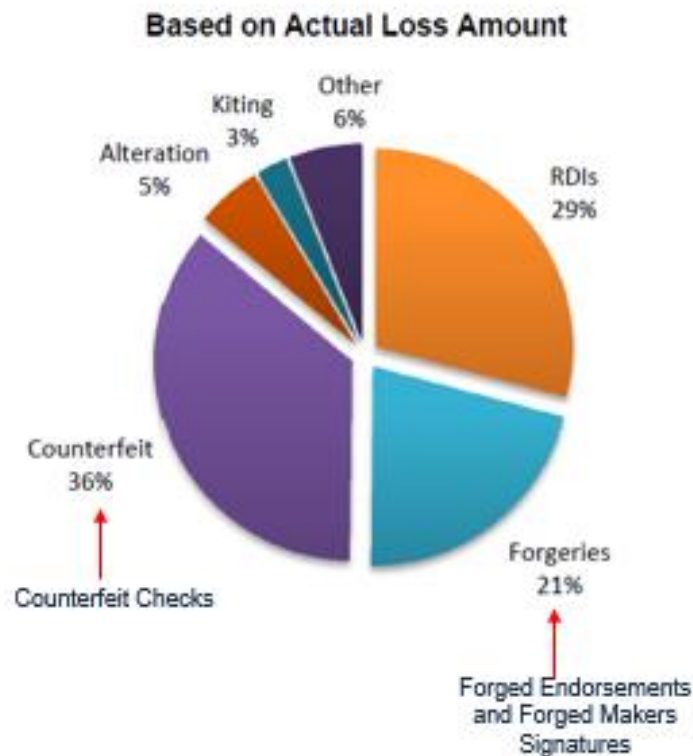
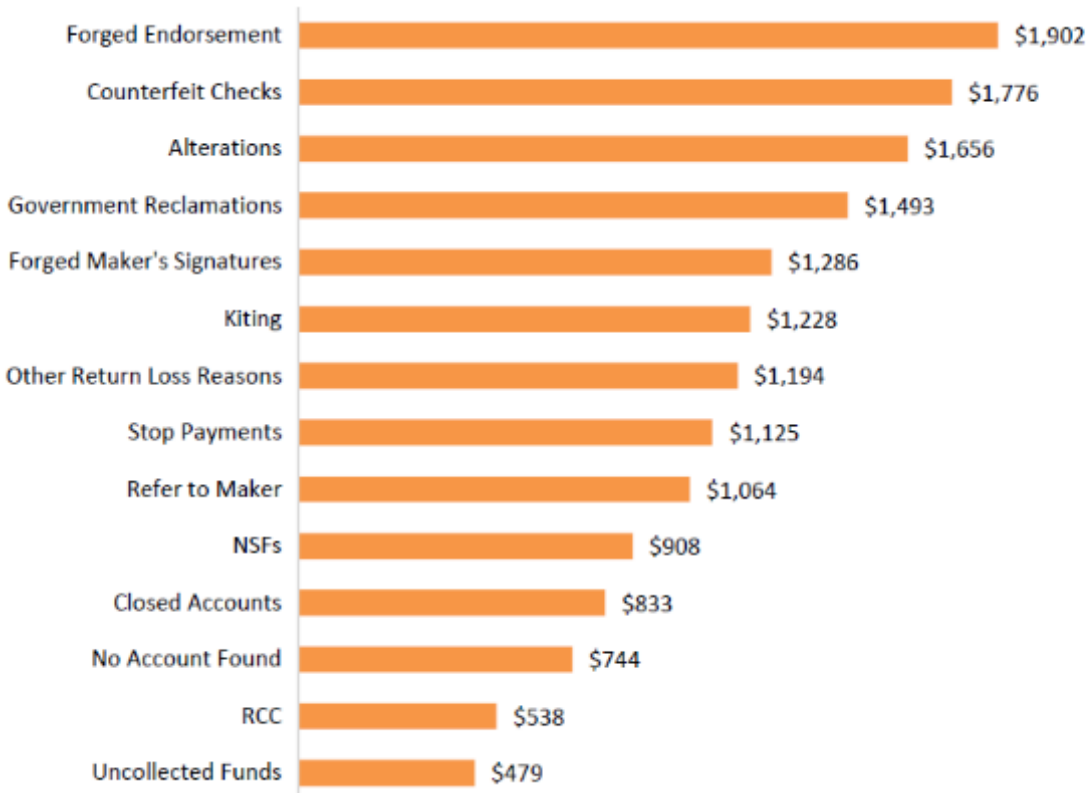
Reduce operational errors, catch customer errors, validate negotiable item (personal and business)

- Wholesale lockbox
- ATM deposits
- Vault processing
- Retail lockbox
- Mobile RDC
- Other



Characteristics of Check Fraud

2015 ABA Deposit Account Fraud Report



My ON-US fraud would be your Deposit fraud

One System Detection



Fraud Detection

Image Analysis

- Automated Signature Verification
- Check Stock Validation
- Check Style Analysis
- CAR/LAR Matching
- PAD/RCC Detection
- Payee Matching / PNV*

Transaction Analysis

- Serial Out of Range
- Amount Out of Range
- New Account
- Watch List (Account Level)

Deposit Review Functions

Image Review

- Missing Signature Detection
- Dual Signature Detection
- Image Quality/Usability/Integrity
- Endorsement Analysis*
- Amount Verification

Transaction Monitoring

- High Dollar Review
- Duplicate Detection
- Closed Account
- Inactive Account
- Dormant Account

Image Analysis Features



- PAD (RCC) detection
 - Read printed typical text in the signature area
- Payee matching
 - Good payees, and bad payees
- Missing Signature test
 - Assuming the signature verification failed
- Dual signatures test
 - Conditional by amount threshold

Data Extraction for Compliance



OrboAnywhere [Joe O'Grady]

Pending Items: 0

THIS DOCUMENT HAS A COLORED BACKGROUND AND MICROPRINTS. THE MARKER SIG INCLUDES AN ARTIFICIAL WATERMARK.

AUTOMOTIVE DETAIL 37808
11053 Alpharetta Highway, Suite B
Roswell, Georgia 30076
(770) 564-0000

7/10/2017

PAY TO THE ORDER OF Tommy L Thomas \$ **485.43

Four Hundred Eighty-Five and 43/100 DOLLARS

Tommy L Thomas
2718 Buford Highway
Apt 25
Atlanta, GA 30324

MEMO Pay Period: 06/28/2009 - 07/04/2009

⑆03 7808⑆ ⑆051113415⑆1110000520105⑆

PAYER	Name 1	AUTOMOTIVE DETAIL ✓	Name 2		✓	
	Address	11053 ALPHARETTA HIGHWAY. ✓	City	ROSWELL	✓	
	State	GA ✓	ZIP	30076 ✓	Country	
PAYEE	Name 1	TOMMY L THOMAS ✓	Name 2		✓	
	Address		City		✓	
	State		ZIP		Country	
BANK	Name		Address		✓	
					✓	
MICR	ABA	061113415 ✓	Account	1110000520105 ✓	Serial	037808 ✓
DETAILS	Amount	485.43 ✓	Date	07-10-2017 ✓		
	Memo		Endorsement		✓	

- Complete data extraction process of information from check images
- Reformat file format for uploading into OFAC and other AML Systems

OFAC Screening, AML/BSA



- Requirements for US check payments
 - International exchange
 - High dollar
 - Specific items
 - Fuzzy logic matching
- OFAC SDN (Specifically Designated Nationals), sanction lists or country list
- Bank & vendor feedback
- MSB



Reg CC, UCC



- Funds Availability vs. Hold timeframes determined by
 - Type of Check i.e. business , personal official government
 - Known of Unknown customer
 - Age of account **(New Account)**
 - Endorsed or not
 - On-Ups or Transit Check **(Deposit Profiling)**
- ECCHO Rule 8

Board of Governors of the Federal Reserve System

The Federal Reserve, the central bank of the United States, provides the nation with a safe, flexible, and stable monetary and financial system.



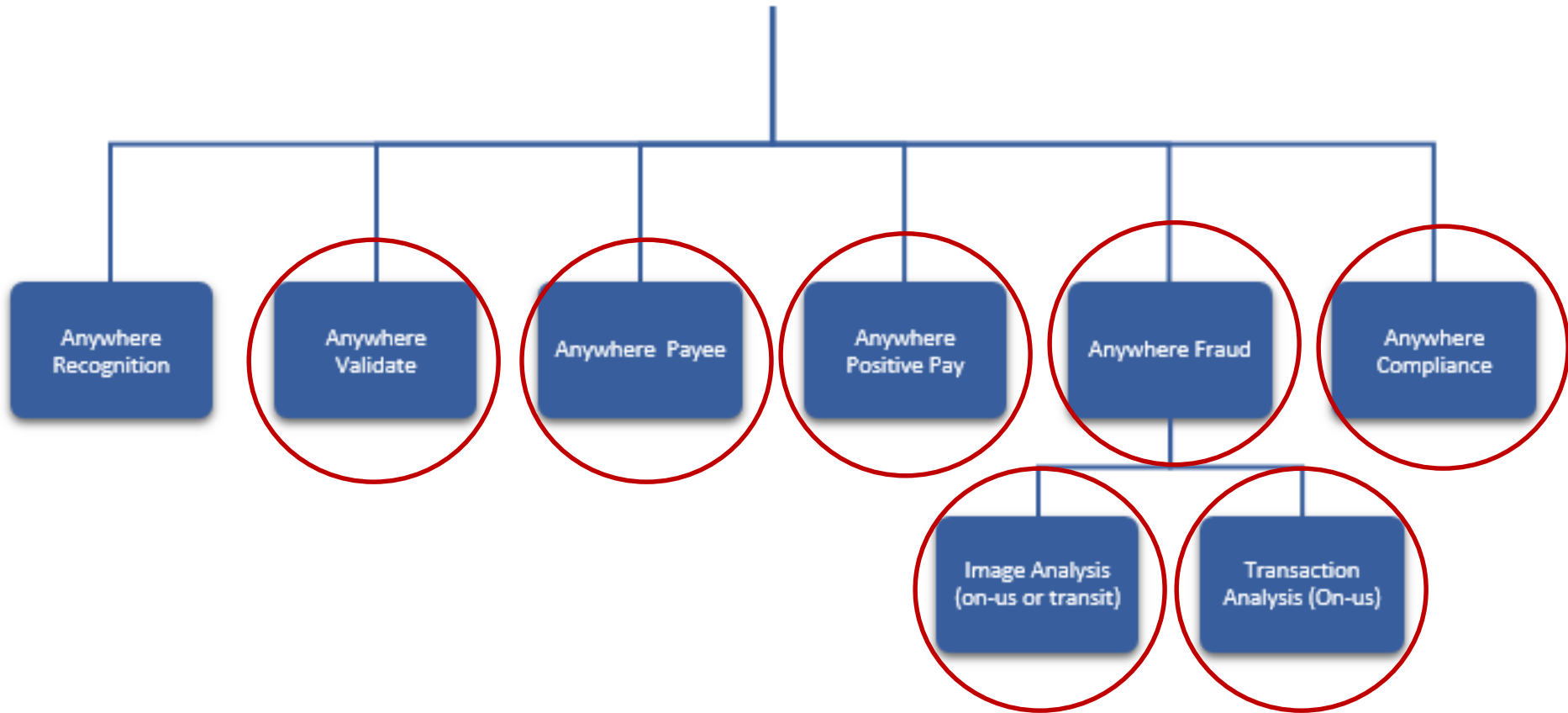
Dodd-Frank defines an unfair practice as one that harms consumers financially and that consumers cannot reasonably avoid. The harm does not have to involve a large amount of money; the law applies even to a small amount of monetary damage that many consumers experience.

- Encoding error on consumers account
- Failing to post payments timely or properly or to credit a consumer's account with payments that the consumer submitted on time and then charging late fees to that consumer.
- Amount Verification protection/impact

```
CP890AVM

ALL SOURCES
AV GRAND TOTALS FOR NOVEMBER 2013
*****
** CYCLE DATE   : 11/13/2013
** AV TOTAL    :      8,431,632
** AV SUSPECT  :      41,699
** AV CHANGED  :         975
** DIFF#2 VOL  :       1,821
** AV SUS RATE :       0.49%
** AV CHG RATE :       2.34%
** DIFF#2 RATE :       4.37%
** NET CLIENT DIFF: $1,614,732.38-
** AV CHANGED/MM: 115.63/MM
*****
```

OrboAnywhere



Delivering the Future of Paper Conversion and Electronification for Any Workflow

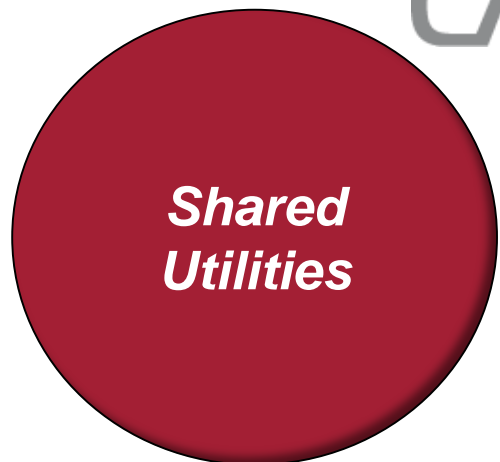
Robert Bowman, CAQH
CORE Associate Director



CAQH Overview



Collaborates with industry stakeholders to develop shared utilities that streamline the collection, management, and use of critical provider and member data.



Shared Utilities



National Business Rules



Convenes industry stakeholders to establish best practices by developing and implementing national business rules that maximize efficiency and savings.



Industry Research



Collects and analyzes industry data to establish benchmarks as a catalyst for further progress.

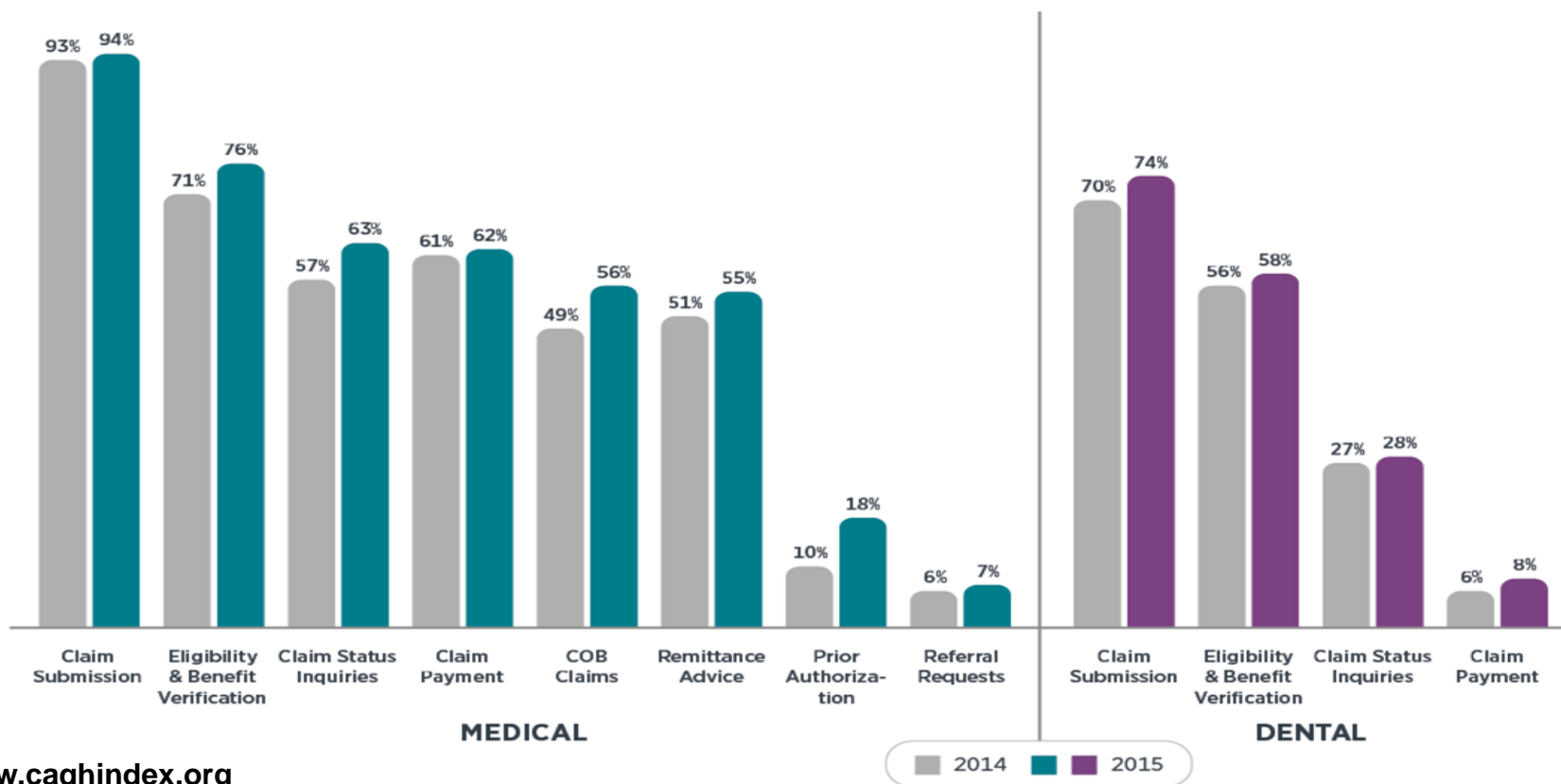
CAQH 2016 Index

Sole Industry Source Tracking Transition to Adoption of Electronic Transactions



Trends show steady, but modest progress in adoption of fully electronic transactions, with promising accelerated growth for some transactions.

FIGURE 1:
Adoption of Fully Electronic Administrative Transactions for Commercial Medical and Dental Health Plans, 2014 – 2015



www.caqhindex.org

How EFT & ERA Operating Rules Benefit Providers



KEY BENEFITS

- **Standardized electronic enrollment for EFT/ERA:** Providers will be able to enroll in both EFT and ERA electronically with all health plans using a consistent set of data elements.
- **Potential reduction in manual claim rework:** With health plans more consistently using denial and adjustments codes per the CORE-defined Business Scenarios, providers will have less rework.
- **Reduction in A/R days:** Automated and timely re-association of EFT and ERA leading to efficiencies and reduced errors for payment posting.

SAVINGS ESTIMATE

- Between \$300 million and \$3.3 billion over 10 years* for providers, including hospitals and health systems, and health plans.

Timeframe



- The EFT Standard and EFT & ERA Operating Rules are required to be in use since January 2014.
- Hospitals and Health Systems have been working with their trading partners to achieve these benefits.

* Administrative Simplification: Adoption of Operating Rules for Eligibility for a Health Plan and Health Care Claim Status Transactions

CORE Certifications Awarded by Stakeholder Type



<p>Health Plans</p> 						
<p>Providers</p> 						
<p>Clearinghouses</p> 						
<p>Vendor Solutions</p> 						

CAQH 2016 Index

Adoption and Cost of Electronic Claim Attachments



Transaction Costs to Providers

Transaction Costs to Health Plans

Transaction	Method	Provider Cost	Provider Savings Opportunity
Claim Submission/ Receipt	Manual	\$2.02	\$1.43
	Electronic	\$0.59	
Eligibility and Benefit Verification	Manual	\$4.02	\$3.60
	Electronic	\$0.42	
Prior Authorization	Manual	\$7.50	\$5.61
	Electronic	\$1.89	
Claim Status Inquiry	Manual	\$5.40	\$3.59
	Electronic	\$1.81	
Claim Payment	Manual	\$2.89	\$2.20
	Electronic	\$0.69	
Claim Remittance Advice	Manual	\$5.69	\$4.74
	Electronic	\$0.95	
Claim Attachments	Manual	\$5.25	\$4.08
	Electronic	\$1.17	

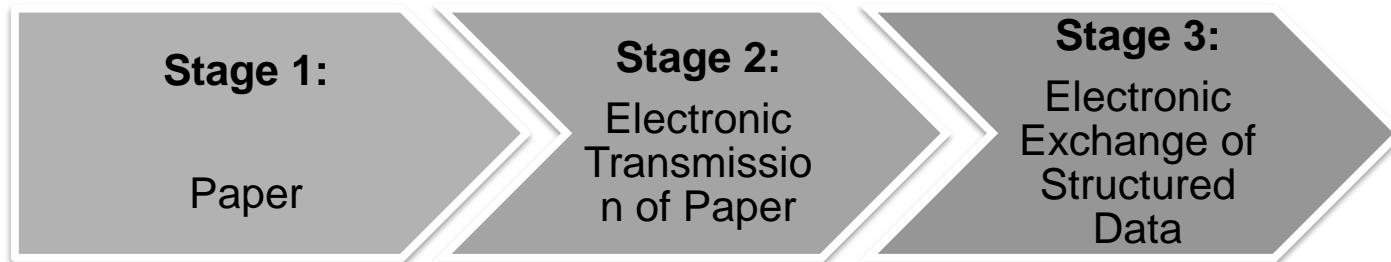
Transaction	Method	Health Plan Cost	Health Plan Savings Opportunity
Claim Submission/ Receipt	Manual	\$0.62	\$0.52
	Electronic	\$0.09	
Eligibility and Benefit Verification	Manual	\$4.36	\$4.29
	Electronic	\$0.07	
Prior Authorization	Manual	\$3.68	\$3.64
	Electronic	\$0.04	
Claim Status Inquiry	Manual	\$4.39	\$4.35
	Electronic	\$0.04	
Claim Payment	Manual	\$0.57	\$0.48
	Electronic	\$0.09	
Claim Remittance Advice	Manual	\$0.50	\$0.45
	Electronic	\$0.05	
Claim Attachments	Manual	\$1.74	\$1.64
	Electronic	\$0.10	

CAQH CORE Activities on Attachments

Attachments Migration Path will be Key



- Ultimate goal is to reduce the paper burden and automate functions with structured data, while:
 - Accommodating the ability to more automatically review narrative documents, and
 - Ensuring a smooth transition.
- Key considerations include:
 - Where to begin?
 - How quickly to move?
 - How to accommodate innovation?



Healthcare Breakout Session

Delivering the Future of Paper Conversion and Electronification

Avikam Baltsan – Co-President - OrboGraph
Roni Boker – Director Product Management HPAC
Phil Hetrick – HPAC Product Specialist
Bryan Bruton – Technology Business Executive



Conversion Services: EOB to 835



4152 3-3952 I

aetna
Aetna
2000 Market St, Suite 850
Philadelphia, PA 19103

Return Service Requested

4152 3-3952 I

LOCAL HOSPITAL
789 HOSPITAL LANE
TOWNSVILLE, US 12345

36

COPY

If you have any questions please contact the Claims Department at 866-638-1232

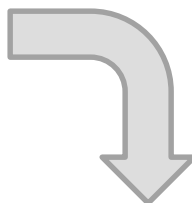
Remit Date: 06/08/2016

Beginning Balance: 0.00
Processed Amount: 1,505.70
Discount/Penalty: 0.00
Net Amount: 1,505.70
Refund Amount: 0.00
Amount Recouped: 0.00
Amount Paid: 1,505.70
Ending Balance: 0.00

Check #: EFT515515
Check Amount: 1,505.70

TIN: 999000999

13 OF 17
ENV 4152



LOCAL HOSPITAL

Patient: COSTANZA, GEORGE
Member ID: AET14444
Date of Birth: 11/18/1976

Patient Acct #: 100FAKE101
Authorization ID:
Provider: LOCAL HOSPITAL

Claim Status: PAID
Claims: ORB14444
Refund Amount: 0.00

Line #	Dates of Service	Serv Code	Mod Code	Rev Code	FFS/CAP	Units	Billed Amount	Disallowed	Allowable Amount	Co-Pay	COB Paid	Processed Amount	Discount/Penalty	Net Amount
1	02/17/16			0250	FFS	5	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	02/17/16			0272	FFS	1	9.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	02/17/16	27096	SG R	0761	FFS	1	2,184.00	0.00	61.19	0.00	0.00	61.19	0.00	61.19
Claim Totals:							2,257.58	0.00	61.19	0.00	0.00	61.19	0.00	61.19

Code/Description
Line 1 - M67 - Missing/incomplete/invalid other procedure code(s).
Line 2 - M67 - Missing/incomplete/invalid other procedure code(s).

```

ISA*00*          *00*          *ZZ*ORBOMBED          *ZZ*ORBOMBED
GS*HP*ORBOMBED*ORBOMBED*20160623*1424*1*X*005010X221A1~
ST*835*0001~
BPR*C*1505.7*C*ACH*****0000060054*999999999*****20160608~
TRN*1*EFT515515*0000060054*999999999~
N1*PR*AETNA*XV*60054~
N3*2000 MARKET ST~
N4*PHILADELPHIA*PA*19103~
N1*PE*LOCAL HOSPITAL*XX*1922076761~
N3*789 HOSPITAL LANE~
N4*TOWNSVILLE*US*12345~
LX*1~
CLP*ORB14444*1*2257.58*61.19**ZZ*100FAKE101*11*1~
NM1*QC*1*COSTANZA*GEORGE****MI*AET14444~
NM1*82*2*LOCAL HOSPITAL*****XX*1922076761~
SVC*NU:0250*64*0**5~
DTM*472*20160217~
CAS*CO*16*64*1~
LQ*HE*M67~
SVC*NU:0272*9.58*0**1~
DTM*472*20160217~
CAS*CO*16*9.58*1~
LQ*HE*M67~
SVC*HC:27096*2184*61.19*0761*1~
DTM*472*20160217~
CAS*CO*45*2122.81*1~
AMT*B6*61.19~
    
```



Conversion Services: EOB Indexing



- Our newest conversion service
- “Light” data-lifting
 - Payment Information:
 - Payer
 - Payment Classification Type
 - Check + EOB
 - ACH + EOB
 - VCP + EOB
 - \$0 EOB
 - Orphan Check
 - Claim Information
 - Claim ID, Patient Name, DOS, Billed Amount
- Perfect for bank/lockbox archival and retrieval
 - Down to individual page level for claims

ERA to EFT Reassociation: The Challenge



Receivables Report

Bank Statement

REMIT DATE	PAYER	TAX ID	Payment Amount	POSTED
04/25/2013	Cigna TX	1291291295	\$225.00	
04/25/2013	Aetna TX	4494494492	\$350.00	
04/26/2013	BCBS TX	4494494492	\$100.00	
04/26/2013	Cigna TX	1291291295	\$225.00	
04/27/2013	Aetna TX	4494494492	\$250.00	
04/28/2013	Cigna TX	1291291295	\$450.00	
04/29/2013	United Health TX	4494494492	\$910.00	
04/29/2013	United Health TX	1291291295	\$575.00	
04/30/2013	BCBS TX	4494494492	\$100.00	
04/30/2013	BCBS TX	1291291295	\$725.00	
05/01/2013	United Health TX	1291291295	\$425.00	
05/01/2013	United Health TX	4494494492	\$75.00	
05/01/2013	Aetna TX	4494494492	\$250.00	
05/01/2013	United Health TX	1291291295	\$957.00	
05/02/2013	Aetna TX	1291291295	\$250.00	
05/02/2013	United Health TX	1291291295	\$425.00	
05/02/2013	Aetna TX	1291291295	\$250.00	
05/02/2013	United Health TX	1291291295	\$475.00	
05/02/2013	BCBS TX	1291291295	\$100.00	
05/03/2013	United Health TX	4494494492	\$475.00	
05/03/2013	BCBS TX	4494494492	\$100.00	
05/04/2013	Aetna TX	1291291295	\$550.00	
05/05/2013	Aetna TX	1291291295	\$600.00	
05/05/2013	Aetna TX	1291291295	\$250.00	
05/05/2013	Cigna TX	4494494492	\$225.00	
05/06/2013	BCBS TX	1291291295	\$100.00	
05/06/2013	United Health TX	1291291295	\$625.00	
05/08/2013	Cigna TX	4494494492	\$450.00	
05/08/2013	Aetna TX	4494494492	\$350.00	
05/09/2013	Cigna TX	1291291295	\$225.00	
05/09/2013	United Health TX	1291291295	\$475.00	

Post Date	Description	Credits/ Deposits	Balance
05/01	Deposit: BCBS TX	100.00	10,000.00
05/01	Electronic Transfer		
05/01	Deposit: BCBS TX	100.00	10,100.00
05/02	Electronic Transfer		
05/02	Deposit: Aetna TX	250.00	10,350.00
05/02	Electronic Transfer		
05/02	Deposit: Cigna TX	450.00	10,800.00
05/02	Electronic Transfer		
05/02	Deposit: Aetna TX	250.00	11,050.00
05/02	Electronic Transfer		
05/04	Deposit: Cigna TX	225.00	11,175.00
05/04	Electronic Transfer		
05/04	Deposit: Aetna TX	250.00	11,425.00
05/04	Electronic Transfer		
05/04	Deposit: United Health TX	475.00	11,900.00
05/04	Electronic Transfer		
05/04	Deposit: BCBS TX	100.00	12,000.00
05/04	Electronic Transfer		
05/04	Deposit: United Health TX	425.00	12,425.00
05/04	Electronic Transfer		
05/04	Deposit: Cigna TX	810.00	13,235.00
05/04	Electronic Transfer		
05/05	Deposit: Cigna TX	450.00	13,685.00
05/05	Electronic Transfer		
05/05	Deposit: United Health TX	475.00	14,160.00
05/05	Electronic Transfer		

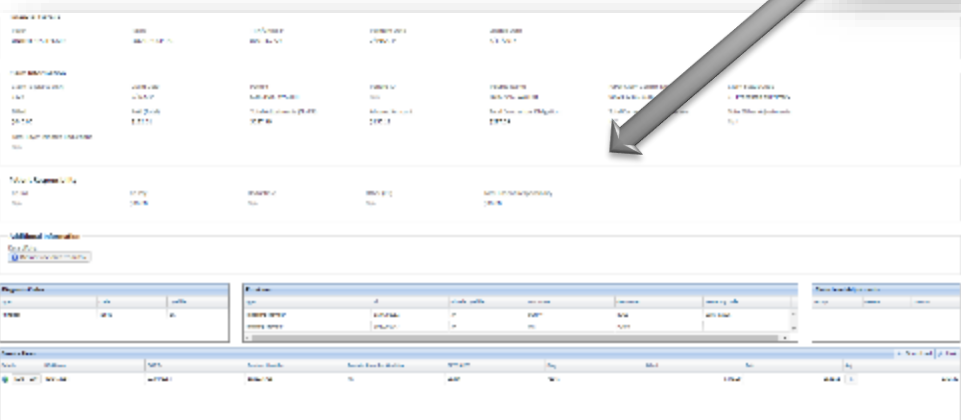
X12835
 & EOBS
 RECORDS
 AVAILABLE

Commonly reassociated using endless Excel
 Spreadsheets – error prone

Interactive EOB – Who/What/Why?



- Research is the # 1 usage of the HPAC Portal
- Today's 'Virtual EOR'
 - 837/835 Data Research by claim
 - Stagnant view
 - Limited ability to link to other elements



Virtual Explanation of Benefits

Patient			
Payer:	UNITED HEALTHCARE	TRN/Check #:	0091267227
Project:	LOCAL HOSPITAL	Date Priced:	3/14/2014

Claim Status		Patient Responsibility		Claim Adjustment Details	
Filed:		Co-Pay:	\$30.00	Group:	
Paid (Total):	\$156.11	Coins:		Reason:	
Total Adjustment (No I/O):	\$297.00	Deduction:		Amount:	
Allowed Amount:	\$156.11	Other:			
		Total:	\$30.00		

Patient Encounters and Service Lines					
Claim # (sketch only):	1123	Loaded Date:	4/11/2014	Claim Status Code:	1 - Processed as Primary
Patient:	SOBCHAK, WALTER	Patient ID:		Insured Name:	SOBCHAK, WALTER

Diagnosis Codes		Medical Providers					
71855	TK	Type	Id	Qualifier	Last Name	First Name	Transaction Code
Principal		Rendering Provider	1184793012	XX	BUNNY	THOMAS	301SRD00X
		Referring Provider	1022251417	XX	THOMAS	THOMAS	
		Supervising Provider (N/A)	1022051901	XX	BUNNY	SUCS	

Service Lines										
DCS	CP11	CRCS	DTY	Filed	Paid	Total Adj	Details (Adj)	Remark	Description	Allow
216011		5604		1.00	\$143.00	\$122.01	\$317.38 C015 P05			\$156.11
							\$30.00			

Executive Dashboard – Who/What/Why?



- Intended for C-Level Portal Users
 - OrboGraph reseller
 - Provider
- Utilize embedded BI
- Configurable KPI view
- Basic drill-down
- Allow for quick assessment:
 - Volumes
 - Payments
 - Denials



IBERIABANK

Mike Barnes, Vice President of Operations



2017 ORBOGRAPH CLIENT CONFERENCE
DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

Processing



Import

Transmissions

File Integrity

Controls

Processing



CAR / LAR



Payee Name
Verification

Image Quality

Account Validation

Balancing

Disposition

Posting

Outbound
Cashletters

Orbograph 2017 Client Conference

3.2017



Remittance: By the Numbers



10K
unique bank
accounts

2012
Orbograph
engaged

99.995%
Accuracy

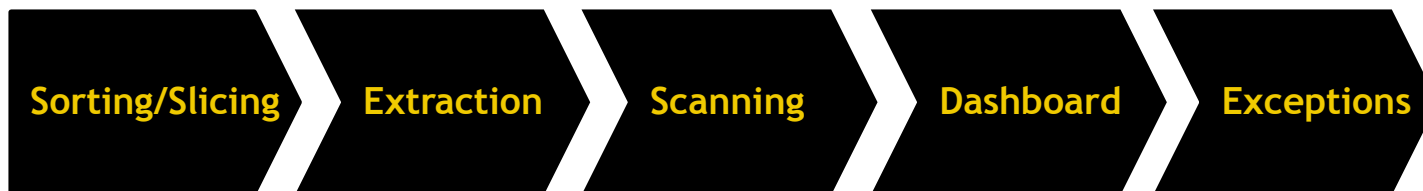
1.6M
Checks deposited
per month

102
Department
FTE

Current Workflows



▶ Remittance Workflows



Orbograph



Always returns:

Amount with confidence level

MICR read with confidence level

ATHENA (11/07/2016 09:03am ET)

- Set IQUAFLAGS to 6
- Set ORBOCARAMOUNT to 100
- Set ORBOCARAMOUNTCONFIDENCE to 95
- Set ORBOCARMICR to O609647710T071923226T00006436223190
- Set ORBOCARMICRCONFIDENCE to 75
- Set ORBOCARPAYEECONFIDENCE to 0
- Changed STATUS from SENTTOORBO to ORBOCOMPLETE

Sometimes Returns:

Payee name with confidence level

Filling in wildcards automatically

Orbograph MICR: T21?070175T1234567?901234

Scanner MICR: T211070175T12*4567890123*

Digital Check Solutions

MORE THAN JUST HARDWARE



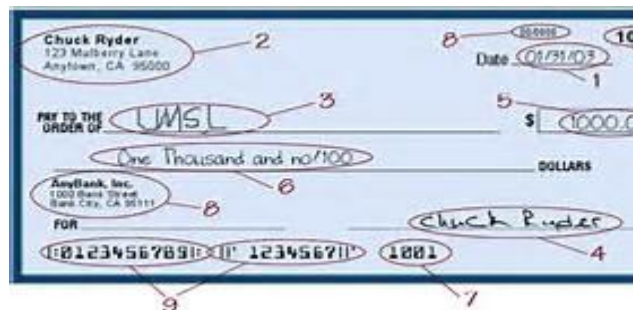
2017 ORBOGRAPH CLIENT CONFERENCE
DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

What do we hear from Customers



- Customers continue to ask for more and more information and data from checks on the capture platforms:

- Payee
- Payor
- Signature
- Endorsement
- Other



- Scanner Outlook:
 - Digital Check is under more pressure to continue to enhance and add new features to our check scanner line everyday as technology expands.
 - Branch of the future is evolving which means equipment refresh and new features in the scanner are required.
 - Check volume may be declining but new markets outside of traditional banks are investing in scanner hardware and software beyond the traditional deposit capture.

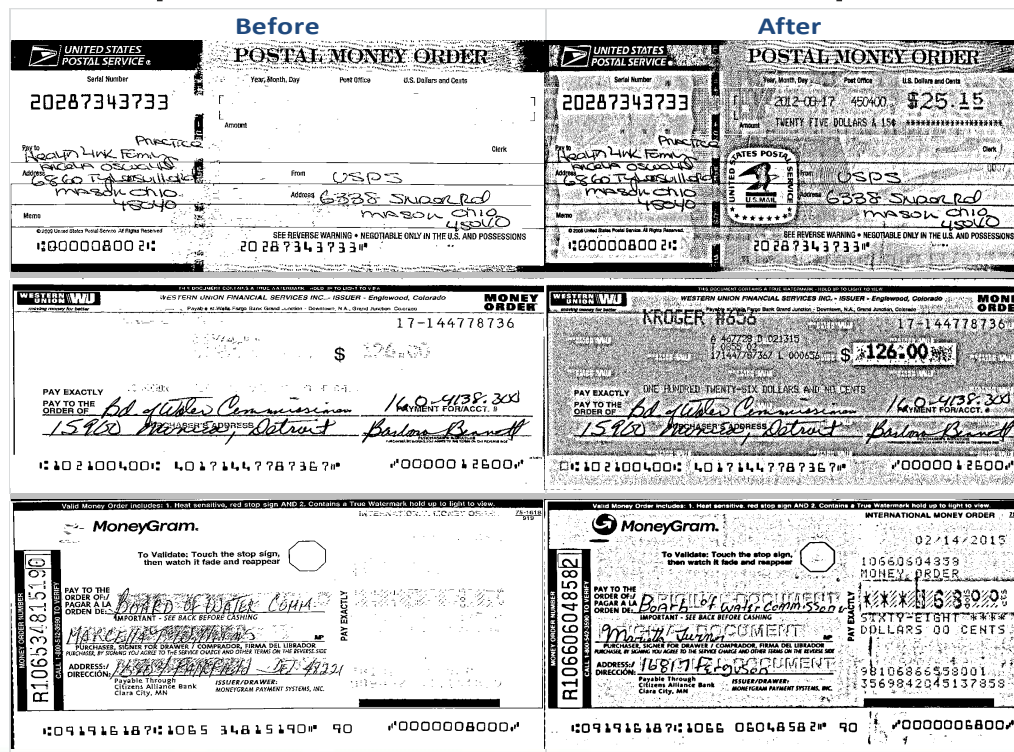
Software Solutions impacting RECO rates



- Clear:



- Patented zone technology to CLEAN up bad images for better RECO rates on poor images.
- Stand-alone process or Inline to a capture solution



Vault Capture utilizing Orbograph



- Vault by Digital Check
 - Stand-alone vault capture system for commercial check deposits.
 - Integrated solution with Vault management system.
 - Digital Check and Cummins hardware certification.
 - Enhancing the 4 X 4 space.
 - Reco Deposit Tickets big WIN!

Class	Checks	Cash	Loose	Medic	Over	Short	Missing	Rejected	Validate	Journal
0501	Dr	Typ	000075001	000075001	000075001	000075001	000075001	000075001	000075001	000075001
0502	Dr	Typ	000075002	000075002	000075002	000075002	000075002	000075002	000075002	000075002
0503	Dr	Typ	000075003	000075003	000075003	000075003	000075003	000075003	000075003	000075003
0504	Dr	Typ	000075004	000075004	000075004	000075004	000075004	000075004	000075004	000075004
0505	Dr	Typ	000075005	000075005	000075005	000075005	000075005	000075005	000075005	000075005
0506	Dr	Typ	000075006	000075006	000075006	000075006	000075006	000075006	000075006	000075006
0507	Dr	Typ	000075007	000075007	000075007	000075007	000075007	000075007	000075007	000075007
0508	Dr	Typ	000075008	000075008	000075008	000075008	000075008	000075008	000075008	000075008
0509	Dr	Typ	000075009	000075009	000075009	000075009	000075009	000075009	000075009	000075009
0510	Dr	Typ	000075010	000075010	000075010	000075010	000075010	000075010	000075010	000075010
0511	Dr	Typ	000075011	000075011	000075011	000075011	000075011	000075011	000075011	000075011
0512	Dr	Typ	000075012	000075012	000075012	000075012	000075012	000075012	000075012	000075012
0513	Dr	Typ	000075013	000075013	000075013	000075013	000075013	000075013	000075013	000075013
0514	Dr	Typ	000075014	000075014	000075014	000075014	000075014	000075014	000075014	000075014
0515	Dr	Typ	000075015	000075015	000075015	000075015	000075015	000075015	000075015	000075015
0516	Dr	Typ	000075016	000075016	000075016	000075016	000075016	000075016	000075016	000075016
0517	Dr	Typ	000075017	000075017	000075017	000075017	000075017	000075017	000075017	000075017
0518	Dr	Typ	000075018	000075018	000075018	000075018	000075018	000075018	000075018	000075018
0519	Dr	Typ	000075019	000075019	000075019	000075019	000075019	000075019	000075019	000075019
0520	Dr	Typ	000075020	000075020	000075020	000075020	000075020	000075020	000075020	000075020
0521	Dr	Typ	000075021	000075021	000075021	000075021	000075021	000075021	000075021	000075021
0522	Dr	Typ	000075022	000075022	000075022	000075022	000075022	000075022	000075022	000075022
0523	Dr	Typ	000075023	000075023	000075023	000075023	000075023	000075023	000075023	000075023
0524	Dr	Typ	000075024	000075024	000075024	000075024	000075024	000075024	000075024	000075024
0525	Dr	Typ	000075025	000075025	000075025	000075025	000075025	000075025	000075025	000075025
0526	Dr	Typ	000075026	000075026	000075026	000075026	000075026	000075026	000075026	000075026
0527	Dr	Typ	000075027	000075027	000075027	000075027	000075027	000075027	000075027	000075027
0528	Dr	Typ	000075028	000075028	000075028	000075028	000075028	000075028	000075028	000075028
0529	Dr	Typ	000075029	000075029	000075029	000075029	000075029	000075029	000075029	000075029
0530	Dr	Typ	000075030	000075030	000075030	000075030	000075030	000075030	000075030	000075030





The First National Bank of Long Island
Where Everyone Knows Your Name®

Jose Diaz – SVP, Technology and Operations



2017 ORBOGRAPH CLIENT CONFERENCE
DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

About FNBLI



- \$3.5B Commercial Bank in Glen Head, NY
- 47 Branches serving Nassau and Suffolk Counties of L.I. and Manhattan (2 locations)
- Expansion into Queens (3) and Brooklyn (1) markets
- Strategic focus to organically add new branches to fuel Commercial and Residential lending

Orbograph Effect on Item Processing



- In House Item Processing on Fiserv Open Solutions OpenCheck system since 2001
- Distributed Capture strategy includes:
 - Back Counter Branch and Dept. Capture
 - Commercial RDC Capture
 - Mobile Capture
 - ATM Capture
- CAR Rates in 2001 - ~ 60%
- Added CAR/LAR in 2004 – Rates ~ 70%
- Upgraded to Accura – Rates ~90% (software only!)
- While the Bank has grown and we've added more distributed channels, IP staff has **DECREASED**

Opportunities & Challenges



- While checks are declining, B2B checks don't appear to be declining at the same rate (Checks aren't going away!)
- FNBLI continues to expand our footprint and delivery channels thus the need for continued straight through processing while keeping headcount low
- We're seeing an increase in check fraud attempts
- One of our target markets (medical) presents an opportunity for us to facilitate their healthcare revenue cycle management

Healthcare Payment Panel

Belinda Collins
BB&T Payment Solutions



Before Healthcare...



- Automation Services LE
 - Branch capture recognition
- Orbograph IQUA
 - Image quality and usability assurance
- Payee Name Verification (PNV) with Desktop Check Analyzer
 - Positive Pay matching for fraud prevention
- Amount Verification
 - Finding errors in inclearings
- Key-Pay
 - Automation addition for work not ready by engine

Orbograph HPAC Solution Value For BB&T



- BB&T has offered wholesale/retail lockbox services for over 35 years in 7 image enabled locations
 - Retail lockbox for patient payments: image and lift data from coupons, with flat file output
 - Prior to engagement with Orbograph, we offered wholesale lockbox for insurance payments, but only the ability to image the EOBs—no data lifting or 835 posting files
- SOLUTION NEED: 400 healthcare lockbox clients—need for data lifting and creating of 835s
- PRIMARY GOAL: Retain the current business, grow the revenue, robust new prospect offering
- VENDOR REQUIREMENTS: Outsource with below requirements:
 - ✓ Ability to integrate with the vendor EASILY with little to no programming expense
 - ✓ Ability to provide a robust state of the art solution
 - ✓ Ability to provide marketing, sales, and client support from the vendor of choice
 - ✓ Ability to provide agile, customizable solution as new client needs are introduced
 - ✓ Ability to integrate paper EOBs and electronic ERAs, compare to claims, and produce 835
 - ✓ Ability to provide a robust vendor supported client portal
 - ✓ Ability to provide solution that meets all our audit, HIPAA and Info Security requirements
 - ✓ Ability for pricing to allow for a good marginal markup and be a key revenue generator
 - ✓ Ability to index correspondence

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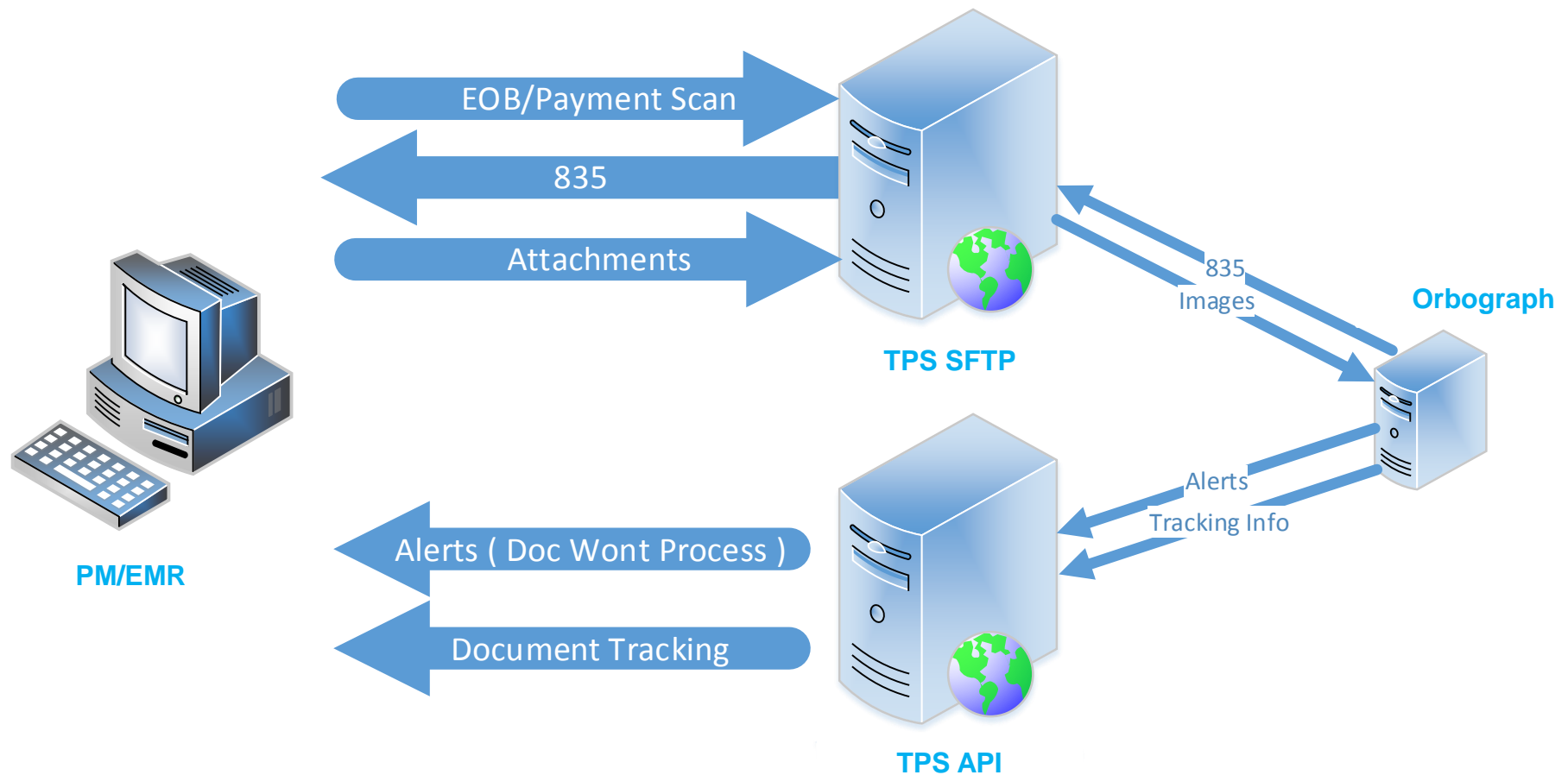
TriZetto Provider Solutions

Kristin Weir, Director Product Management



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TPS Partnership with Orbograph



Future Outlook



Integration in PM/EMR

Full analytics = Elimination of paper

“Shift left” = Increase in patient payments

Automation



Futuristic Achievements SNCH

Healthcare Payment Panel Discussion



SNCH Profile

- 455-bed acute care, Magnet®-recognized not-for-profit teaching hospital
- Approx 20,000 admits and 75,000 ED visits annually
- HIMSS DB: \$393M revenues
- 900+ physicians; 3,000+ employees
- Leading Specialties/Expertise
 - Orthopedic & Robotic surgery
 - Cancer & gamma knife surgery
 - Primary Stroke Center
- Others: cardiac, bariatric, sleep medicine, pain management and behavioral



Futuristic Achievements



- Transformation = Electronification
 - EOBs: Improve efficiencies, reduce paper & costs
 - Electronic Content Management (ECM)
 - Improve effectiveness of handling denials
 - Better support electronic payments
 - Reduce receivables (A/R), improve cash flow
- Strategies: systems, technology, workflow, controls
- Solutions: EOB conversion, correspondence automation, re-association

Futuristic Achievements



- Denials/Letters of approvals/medical records
- Extraction of key indexes
- 3,000 to 4,600 per month
- Manual paper-based workflow
- Coding for medical records
- 3 FTE: reduced to 2
 - Target cost reduction: 50%

Faster: 30 days vs. 1-2 days

Faster A/R recovery

Reduced OT

Reduced leakage

Immediate research

Zero \$ EDI 835 for posting

Posting automation

Faster secondary billing (adjudication)

Futuristic Achievements: TMR

Healthcare Payment Panel Discussion



Healthcare Payment Panel Discussion



- 25+ years helping community banks and their business clients with automated payments processing.
- Banks from \$100 million to \$20 billion in assets.
- *CITATION i-Remit*
 - Fully licensed
 - Fully outsourced
 - Hybrid-remote lockbox capture
 - ✦ Bank sites
 - ✦ Customer sites

Healthcare Payment Panel Discussion



\$3 billion Community Bank has opportunity with 20+ site Womens Medical Group Currently banking with Super Regional... HRA got them in the door...

\$2.5 billion Community Bank wins Orthopedic group (15K paper claims per month) generating \$3,400 in new revenue per month saving the client labor and locking the relationship into the bank.



\$20 billion Bank wins physician group with 17 offices running 15 different Practice Management systems and two different billing companies.

Healthcare Payment Panel Discussion



Selling the solution from a Community Bank perspective

Basic Medical Lockbox

- Banks are the traditional lockbox facilitators
 - Secure, scan, basic data entry, balance, deposit, provide image reports

Healthcare Remittance Automation (using HPAC)

- Value added service for our banks
 - Differentiating factor that helps our banks get their feet in the door
 - Makes lockbox a premium service worth hard charging for
 - INCREDIBLE exit barrier



Healthcare Payment Panel Discussion



Selling the solution from a Community Bank perspective

Market Challenges

- Banks Treasury Management teams are overwhelmed by the complexity
 - Nervous bankers are hesitant to sell
- Banks Treasury Management teams are selling to the wrong people
 - Many times they are attempting to sell to the office staff vs the executive team that could see the real value... or they are selling labor reduction vs the overall value
- Healthcare clients need the bank/vendor to help coach them through the entire onboarding process...
 - Not just Converting EOBs to 835

Welcome to The OrbyAwards

Orbograph Hall of Fame



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DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

OrbyAwards Process



- 7 Companies and 1 Individual
- Introduction of OrboAward Presenter
- Presenter make the official announcement
- OrbyAward winner visits stage and accepts award
- Pictures are taken
- Short speech is encouraged
- Award winner exits room to red carpet area
- Brief interview/video of OrbyAward acceptance

OrbyAward Winners



South Nassau Communities Hospitals

2016 Innovation Customer of the Year Award: Healthcare Payments

TriZetto Corporation

2016 Healthcare Business Partner of the Year

BB&T

2016 Healthcare Banking Partner of the Year

Catalyst Corporate Federal Credit Union

2016 New Partner/Client of the Year

SunTrust Bank

2016 Fraud Prevention Customer of the Year

Wausau Financial Systems

2016 Check Processing Innovation Partner of the Year

IBERIABANK

2016 Innovation Customer of the Year: Check Processing

Ron Mills

2017 Hall of Fame Inductee: Development

Dining Event



- Atlanta History Museum
 - 2 busses will pick up @ Westin Buckhead @ 5:45 PM
 - Cocktails and passed apps: 6:00 PM - 7:30 PM
 - Activity: The Selfie Challenge
 - Each OrboGraph Member will have a group of 4-5
 - Solve clues and take group selfie with item at museum
 - Team with most correct team selfies win prize
 - More details will be sent in an email
 - Dinner Served @ 7:30-7:45 PM (buffet)
- Check out OrboGraph Facebook page for pictures



The Future is Now: AWS Cloud Deployment for the Financial and Healthcare Industries

Tara E. Walker

Amazon Web Services



AWS - Every Imaginable Use Case



Over 1 Million Active Customers

800+ Government Agencies

3,000+ Education Institutions

10,000+ Nonprofits

5,000+ System Integrators & Partners

3,000+ Software Vendors

AWS History of Innovation

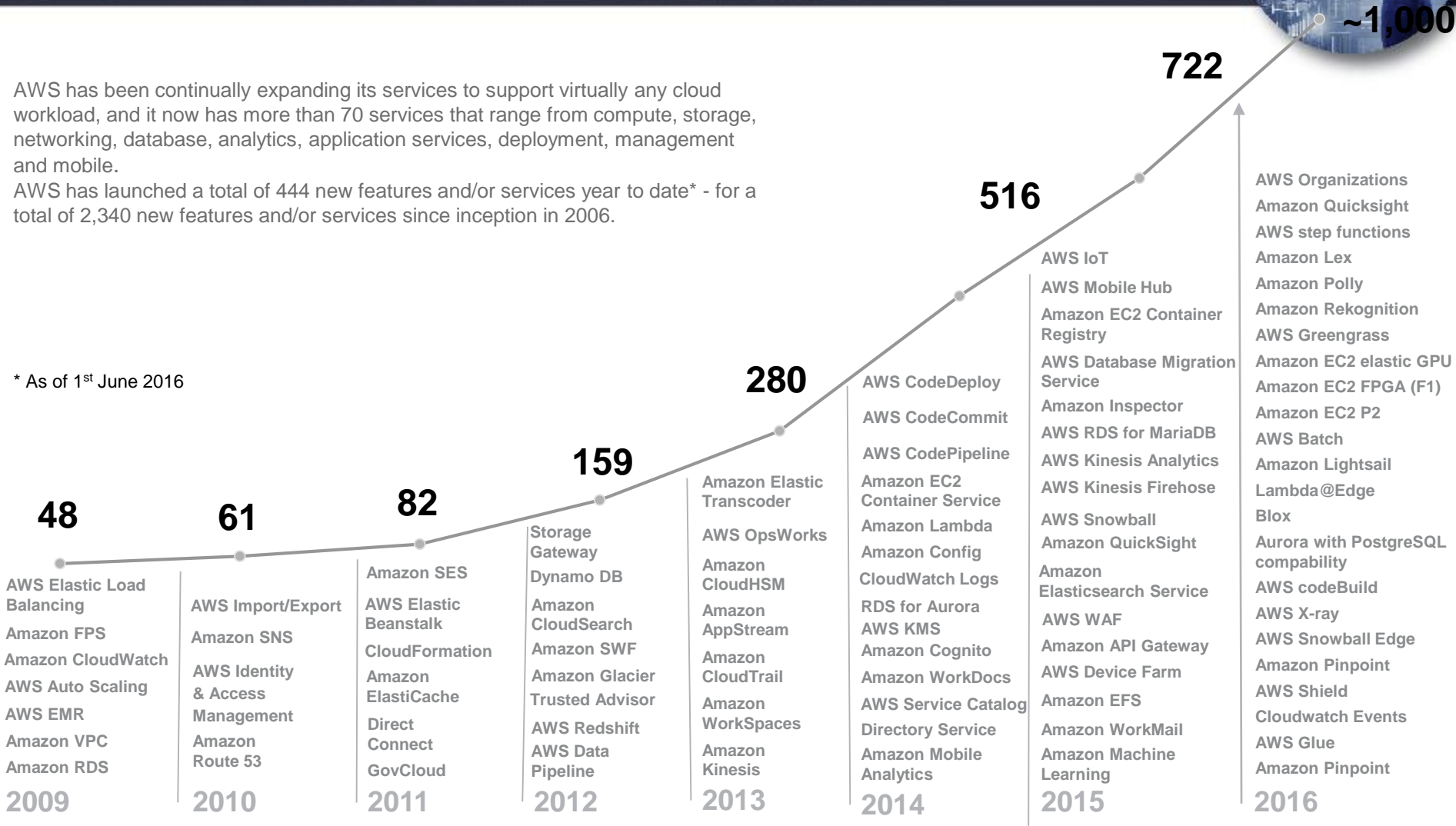


~1,000

AWS has been continually expanding its services to support virtually any cloud workload, and it now has more than 70 services that range from compute, storage, networking, database, analytics, application services, deployment, management and mobile.

AWS has launched a total of 444 new features and/or services year to date* - for a total of 2,340 new features and/or services since inception in 2006.

* As of 1st June 2016



Execute At Scale



2003

amazon.com[®]

\$5.2B retail business

7,800 employees

A whole lot of servers

2012

amazon
web services

Every day, AWS adds enough
server capacity to power our 2003
\$5B enterprise

2016

...actually \$7B+ every day now



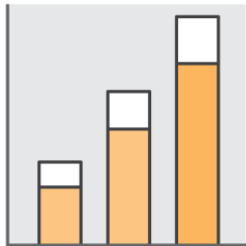
Cloud Computing

The New Normal in Healthcare & Financial Services

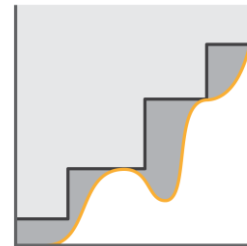
Amazon Web Services



Get rid of time-consuming, expensive tasks



Move from risk-laden up-front expense to flexible variable expense



Stop guessing at capacity planning



Remove complicated infrastructure management that adds little business value



Go global in minutes

Strengthen your security posture



Over 50 global compliance certifications and accreditations



Security infrastructure built to satisfy military, global banks, and other high-sensitivity organizations



Powerful native functionality and tools at little or no cost



Benefit from AWS industry leading security teams 24/7, 365 days a year



Leverage security enhancements gleaned from 1M+ customer experiences

“Healthcare institutions don’t have the time and resources to devote to cybersecurity that an established cloud provider might have.”

Lee Kim – Director, Privacy and Security, HIMSS North America

The AWS Cloud



Incorporate new technology into your organization that makes it easier to connect and manage patients.



Manage your data intelligently to better inform decisions affecting care delivery.



Reduce risk by focusing resources dedicated to security, compliance and availability to the most important areas of your business.

"AWS is our trusted partner that is going to run our company for the next 140 years."
Jim Fowler – CIO, General Electric



Delivering Innovations to a Payment Market Paradox: A Mature Market which Changes Quickly and Adopts Technology

March 23, 2017

BAI Webinar Soon



Generational Segments

- Millennial
- GenX
- Boomer

Primary Bank Type

- ① Large Bank
- ① Regional Bank
- ① Community Bank
- ① Credit Union

BAI Retail Banking Outlook -
Online survey to bankers.

Respondents come from a wide variety of functional areas and institution types and sizes.

BAI Consumer Market Outlook
- Online survey to consumers.
2,001 total respondents

Source: BAI Consumer Market Outlook

Delivering Innovations to a Payment Market Paradox: A Mature Market which Changes Quickly and Adopts Technology...

Yaron Katzir, Product Manager, Check Line of Business

Andy Leonhardt, VP Sales

Arik Elimelech, VP R&D



A Product Roadmap Based on Market Data

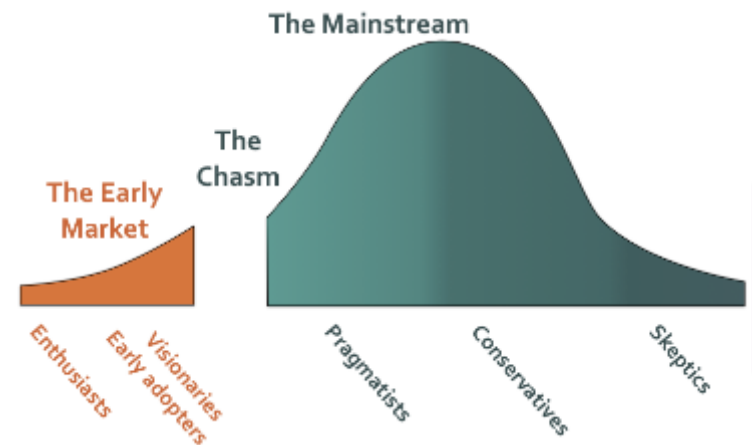


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DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

Product Life Cycle Illustration



- Mature/laggard market characteristics
 - Slow to adapt, not purchasing new technology, other...
- “Check” is not your typical mature/laggard marketplace
 - Volume decline is slowing
 - Added-value capabilities will extend life



TELLER IMAGE CAPTURE



CENTRALIZED/INCLEARINGS



POINT OF SALE



REMITTANCE PROCESSING



BRANCH IMAGE CAPTURE



Multi-Channel with Real-time Image Validation (for Payment Negotiability)

Address specific challenges, risks and problems generated from each Omnichannel workflow



CONCIERGE TABLET



REMOTE DEPOSIT CAPTURE



MOBILE RDC



VIDEO ATM



SELF SERVICE KIOSK



Many Branch/Teller Capture
Clients Are Operating at:

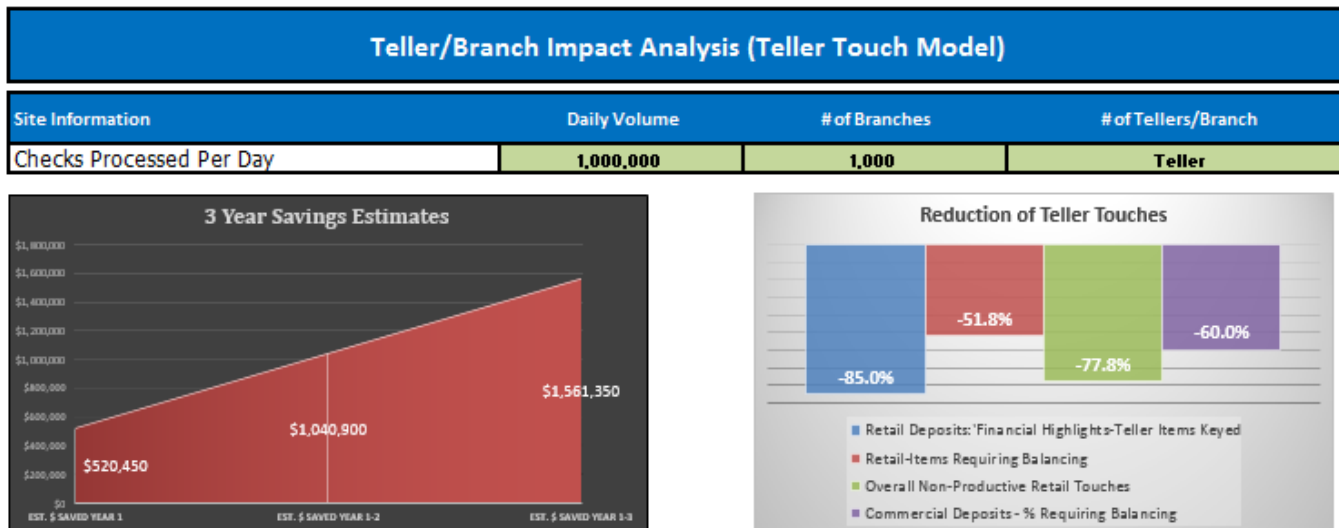
70-80% Read Rate
2-5% Misread Rate



Branch & Teller Capture Automation



- Business model driven: Up to **\$1.5M savings/** year per 1M items/day in teller capture
- Client experience improved
- 60% reduction in commercial deposit balancing
- Up to 80% reduction in misreads



Technology components



Recognition

Validations

Fraud

Web Services

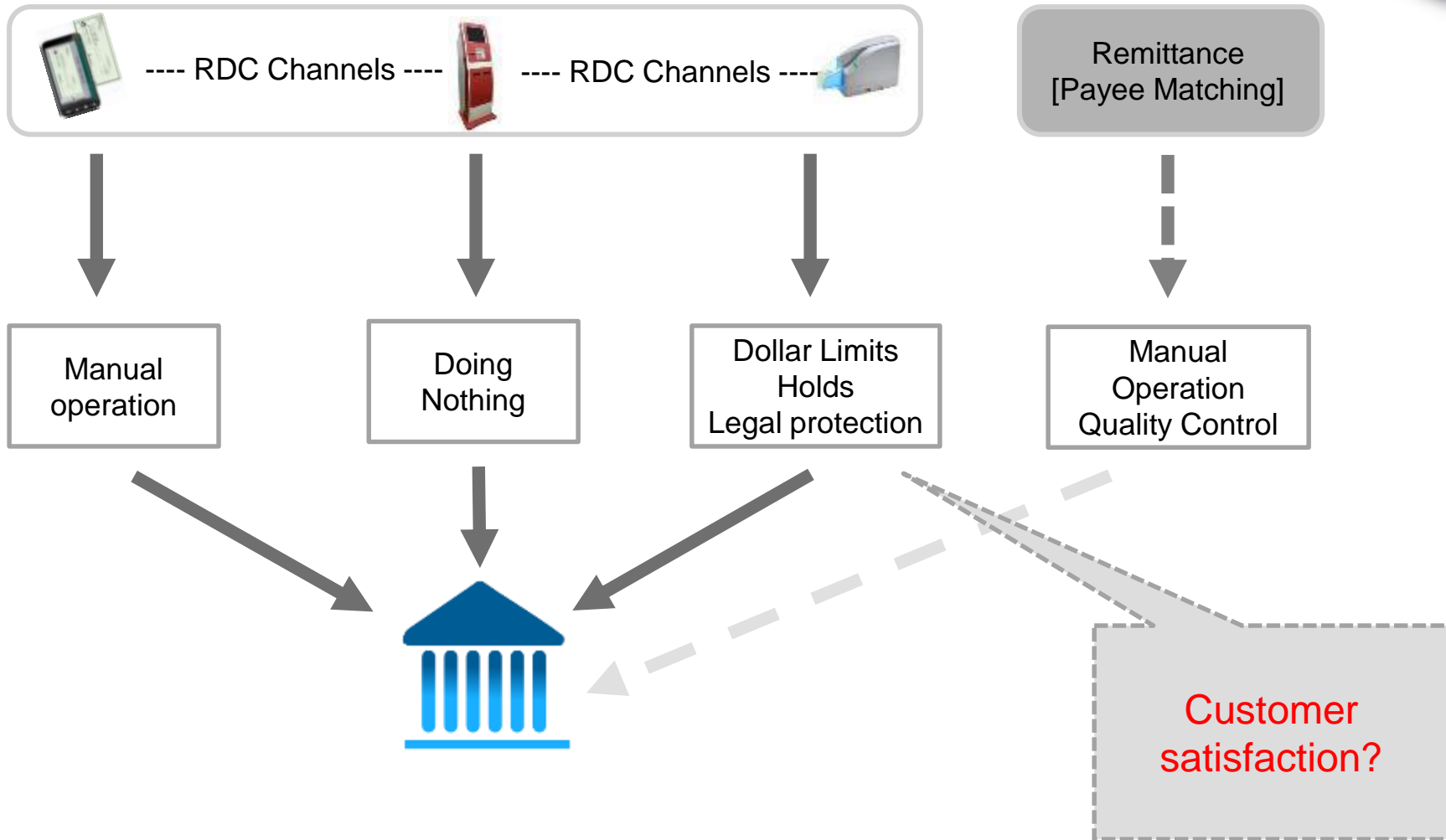


Security

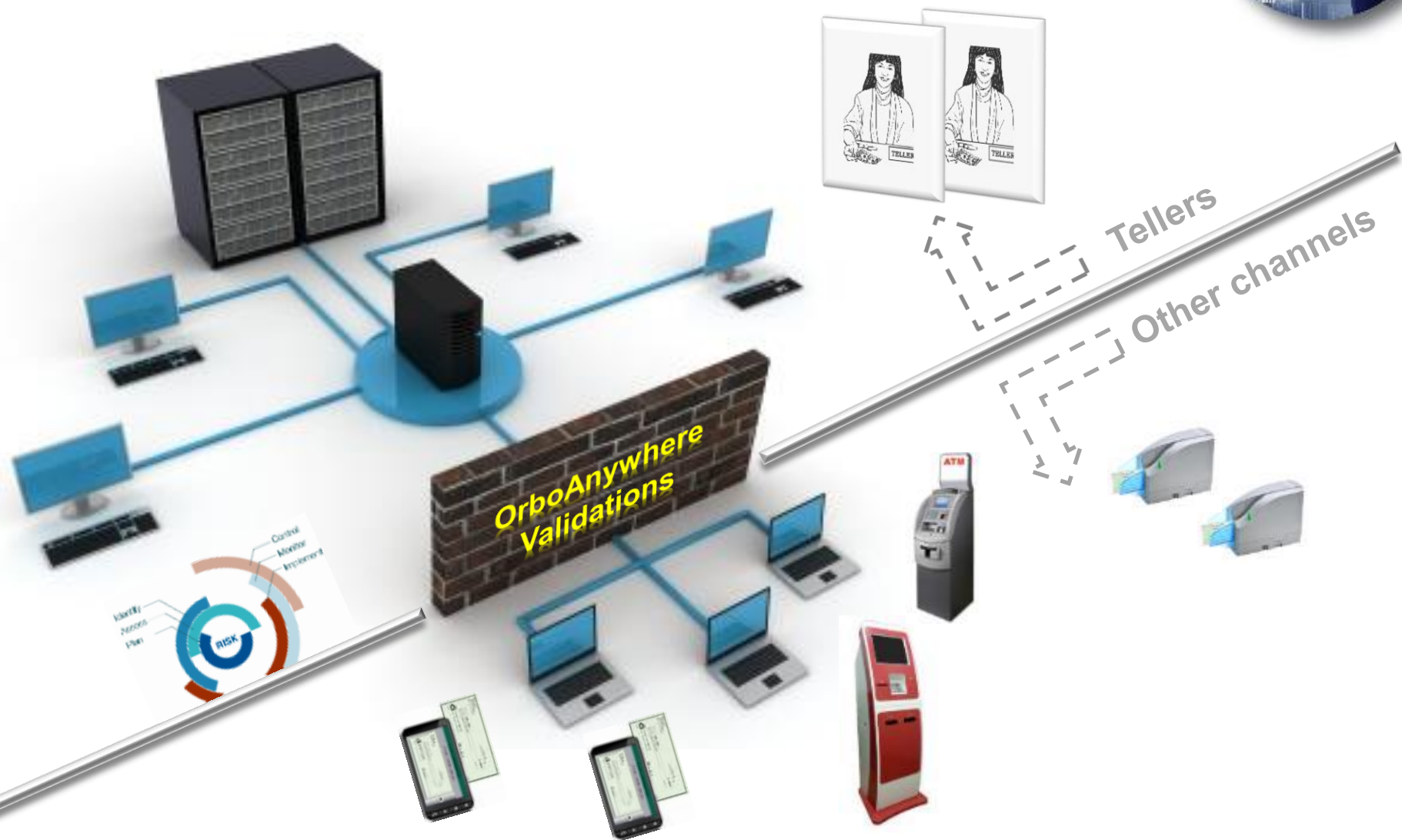
OrboAnywhere



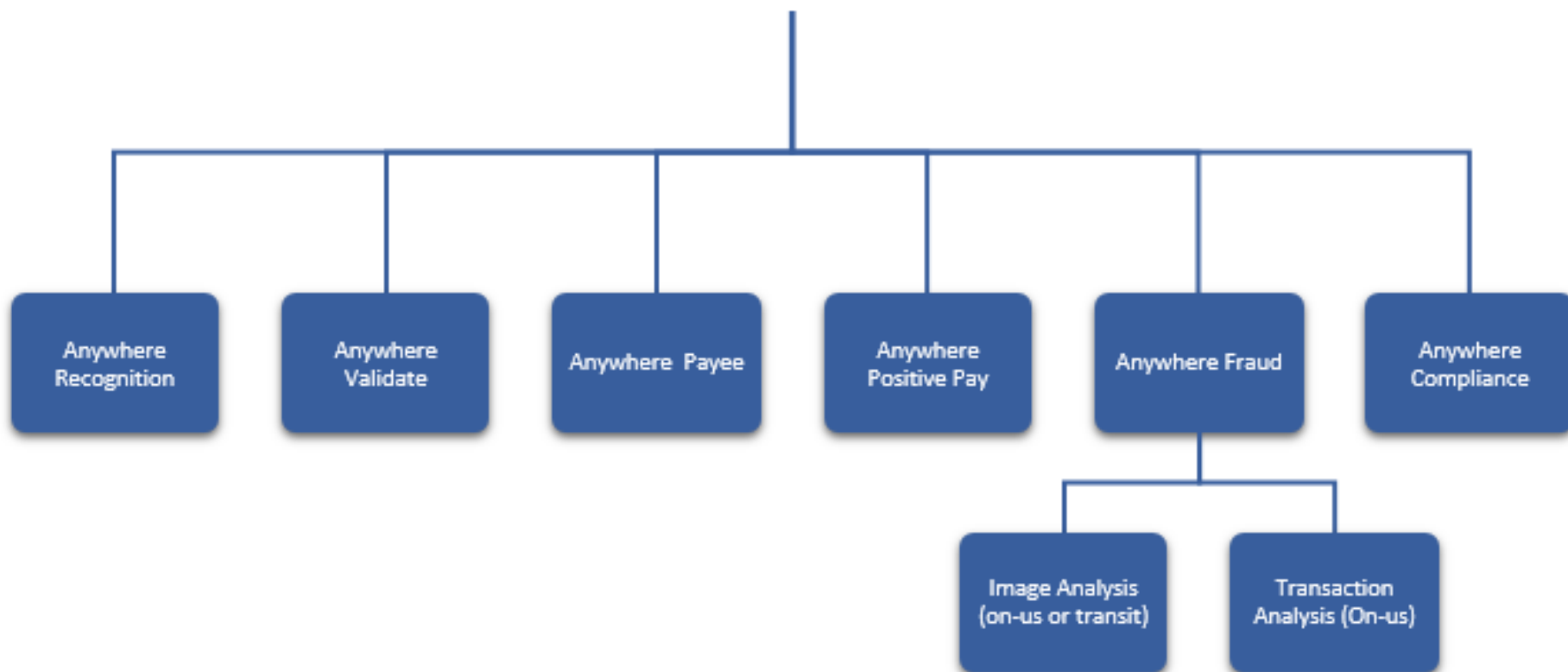
Approaches to risk



Validations & Fraud Prevention For Omnichannel



What is...



Healthcare Breakout Session

Correspondence Letters & Denied Claims: An Ongoing, Yet Growing Problem

Industry Presentation

Thursday March 23rd 9:30 - 10:45AM

Henri Cattier - CHA



Correspondence Letters & Denied Claims: An Ongoing, Yet Growing Problem

Henri Cattier, Commonwealth Health Advisors



Healthcare Payments Maze



MODERN ART GALLERY



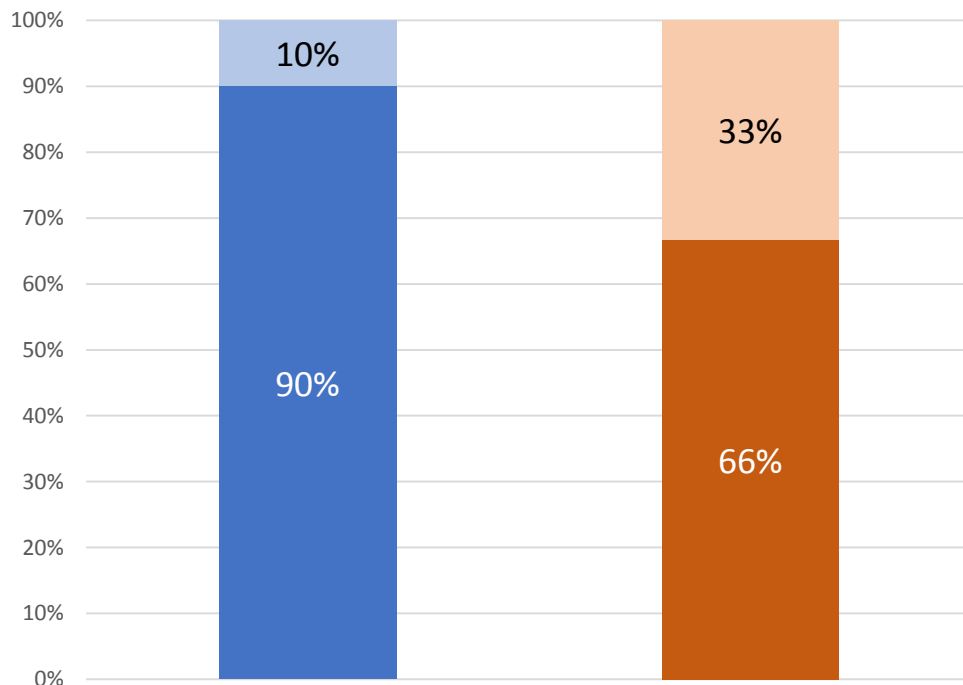
Blazek

Prevention versus Recovery Focus



In 2014 the Advisory Board reported that **90%** of claim denials are avoidable. And that **only about two-thirds of denials are recoverable**. Though prevention is not easy, fixing the root cause of denials has a much larger financial impact than overturning them.

Preventable and Recoverable



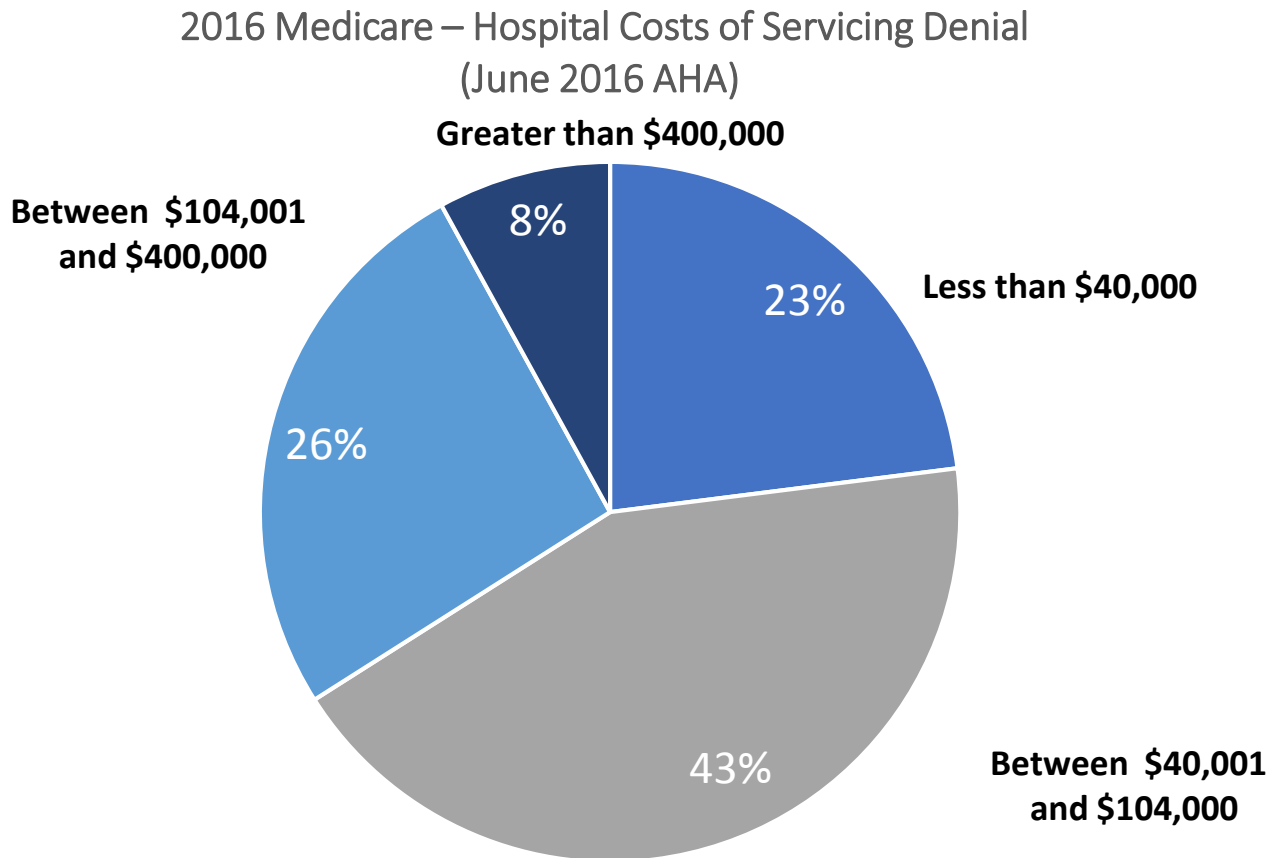
According to the 2013 MGMA health insurer report card, most claims were denied for the following reasons:

- Missing information, such as absent or incorrect patient demographic data and technical errors
- Duplicate claim submission
- Service already adjudicated
- Services not covered by payer
- Time limit for claim submission already passed

The Denial Appeal Process is Costly for Providers



Per the AMAs 2016 Administrative Burden Index, the estimated costs to appeal each denied claim range from **\$2 - \$4 per claim**.



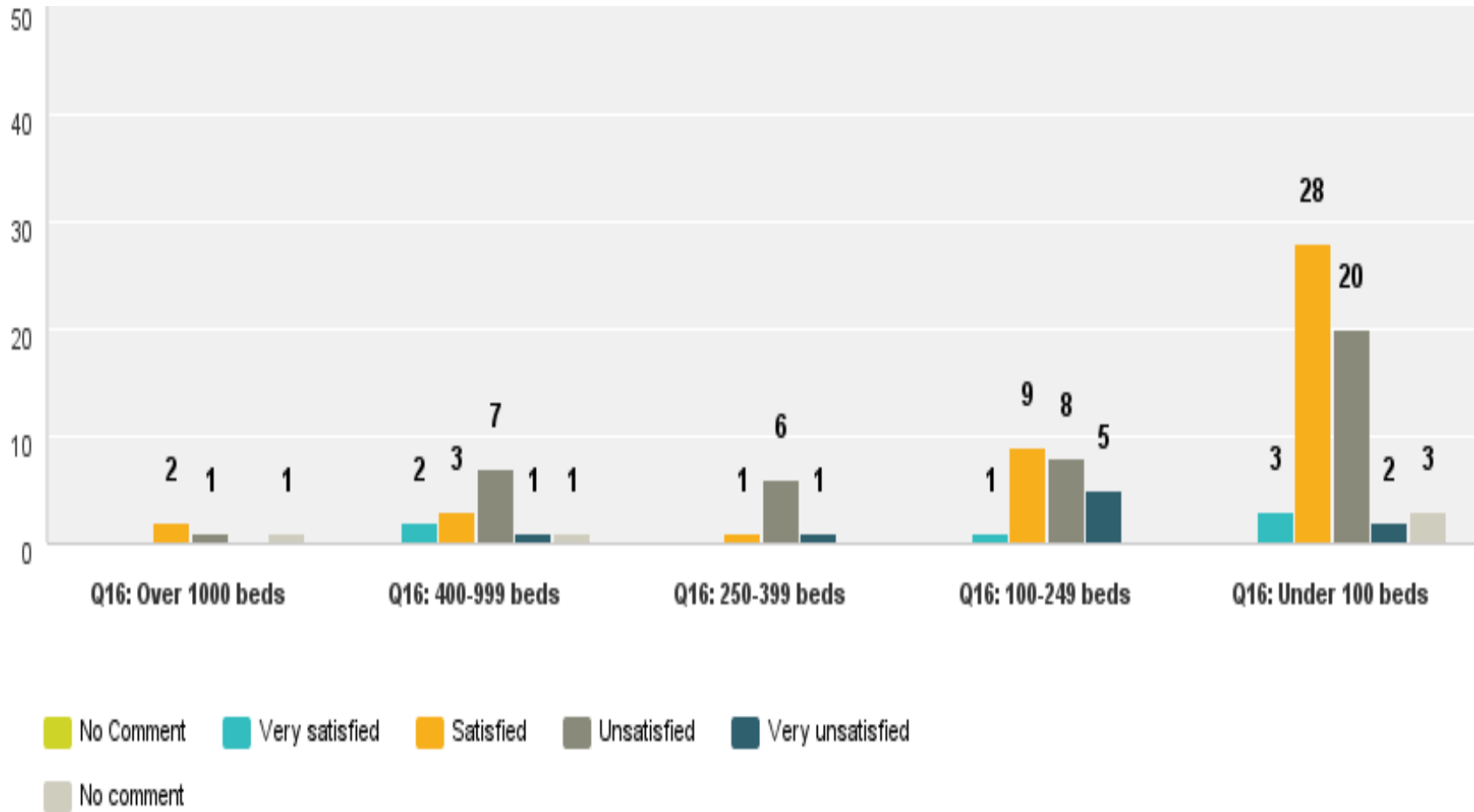
In addition to costs, appeal processes can be time-consuming.

The AHA reported in October 2016 that three-quarters of appealed Medicare claims remained at the administrative law judge level for longer than the 90-day statutory limit.

Automation with Correspondence Letters is Lagging, especially with larger providers.



Question: *How satisfied is your hospital with the efficiency of processing paper Correspondence letters from denied claims?*



Demand for Solutions for Correspondence & Denials Management



Roughly 50% of hospital executives, across facilities of all sizes, identified an immediate need in their organization for supplemental tools to Analyze Denial Claims and handle Correspondence Letters

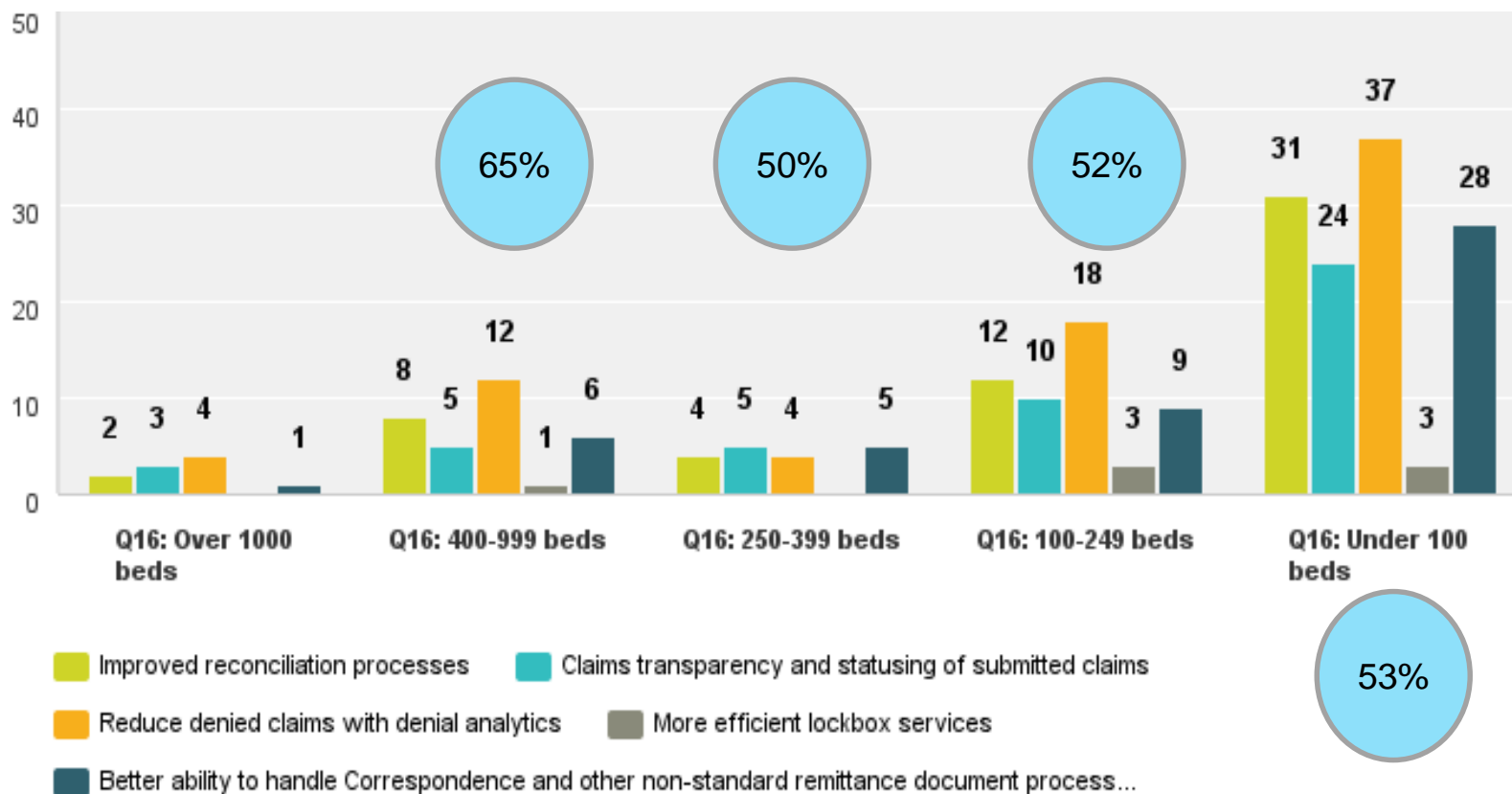
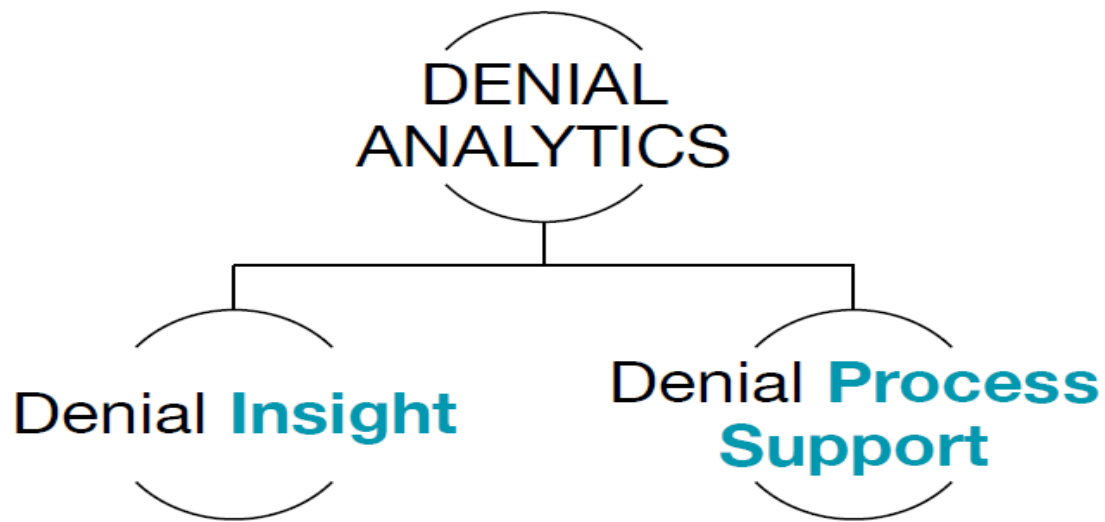


Figure 1. Administrators Must Find Tools. The American Medical Association's National Health Care Payment Practices Survey (NHPPS) identified the following solutions as the most needed for denial management and lockbox services. The NHPPS provides insight into the current state of denial management and lockbox services, and the solutions that are most needed to address these issues. For a full report, visit www.ama-assn.org/practicing/your-practice/industry-trends/health-care-payment-practices-survey.

Denial Analytics Basics



Product Core Functions



High-level analytics to leadership and upper-level management

Value – Enterprise process changes for Denial Prevention and Optimizing Denial Management Process Design

Prioritized worklists and productivity support for managers and staff

Value - Reduce manual labor and increase speed of recovery in Denial Management Dept

Client Background



- Large DME Company
- \$947,096,697 Billed (2016)
- 851,925 SL Billed
- \$20 Million + per month revenue from Insurance Payments
- Presence in all 50 states
- Self-developed PM System



Client's Denials Problem



- 41.43% SL Denial Rate (2016)
- 50,000 + Denied SL per month
- 43.57% Denied Charges Rate (2016)
- \$40 Million + per month Denied
- Over 15,000 payers (!)
- High Attrition Rate Among Billing Staff



No agreed-upon definition of what constitutes a denial.

Denials by Count		Denials by Charge	
Denials Count	Denials Rate	Charges Denied	Charges Denied Rate
352,991	41.43%	\$302,568,017	43.57%



Accura XV Tuning & Anywhere Recognition

Accura & OrboAnywhere

Frank Devitta and Boaz Ron



Accura XV Trends

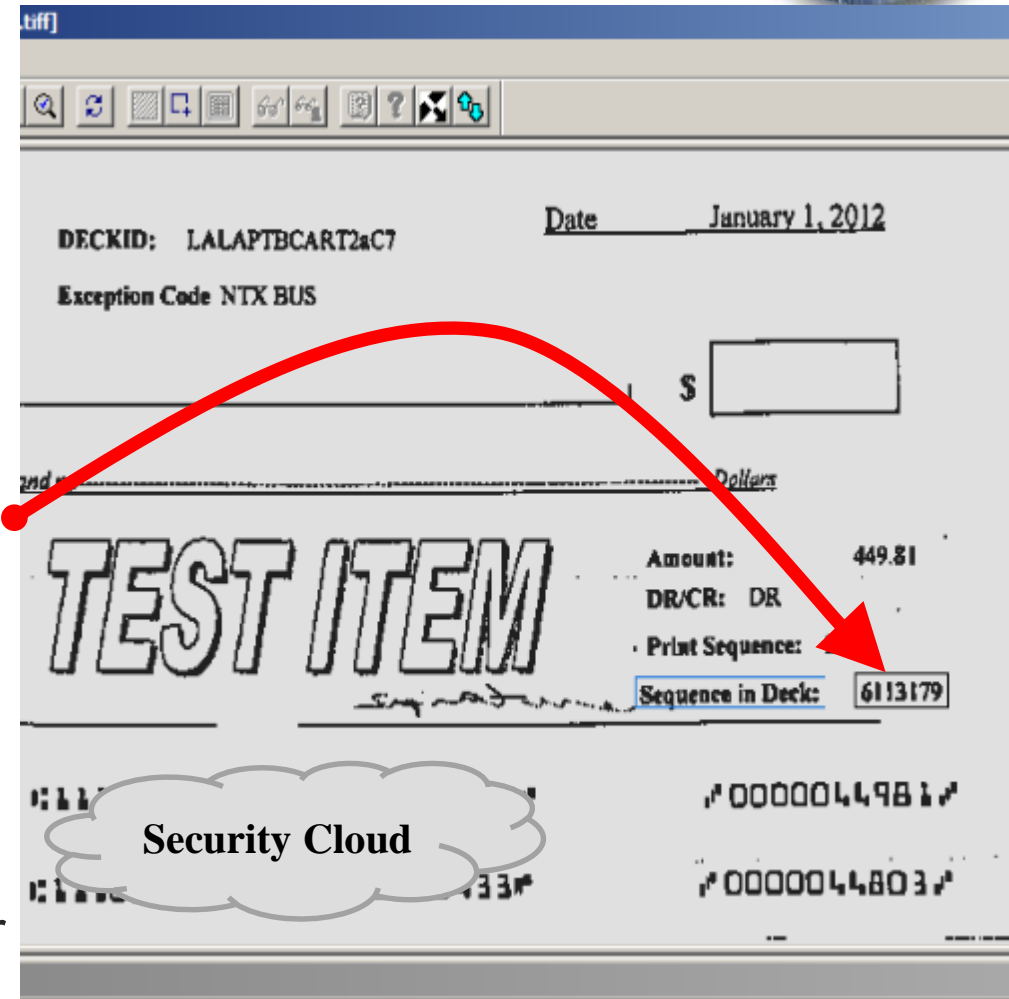


- Distribution of item capture continues
 - Throughput requirements
 - Image quality impacts
- Automation of Item Validation
 - Payee Name Verification
- Reading of “non-traditional fields”
 - Reference Identifiers
- Security Continues to tighten
 - Digitally signed files
 - Movement away from Registry acces

Anchoring – Not all Images are captured equally



- Reasons for fields to shift
 - Piggy Back like example
 - Scanning rollers out of alignment
 - Mobile Capture
 - RDC
- With Anchoring we find what you want no matter how or where it is.
 - By finding the “Anchor” anywhere on the image, OrboGraph adjusts the reco window relative to the Anchor



Orbograph I-care



- Professionals services
 - Tune throughput / high availability
 - Adjust thresholds to maximize performance
 - Create and Modify institution templates
 - Provide operational recommendations
 - Document redesign
 - Hardware recommendations including scanning issues
 - System training & Troubleshooting

Read Rate gains of 5-15% over
“Out of the Box”

Integration Optimization

Accura & OrboAnywhere



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XV Integrations (OBI)



Distributed & Centralized options

- Thread Safe Sync & Async
- Dictionary Payee, PNV, or Reco all in same call.
- Papernames.txt (new optional file – for CS)
- .NET 4.0 required for all engines after 2.1 r3
- Java support for 1.6, 1.7 & 1.8 (with .NET 2 & 4)
- XML results (lets you be picky)
- Fail Over

OrboAnywhere Optimization

Accura & OrboAnywhere



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Owhere Integration



Service Reference integration

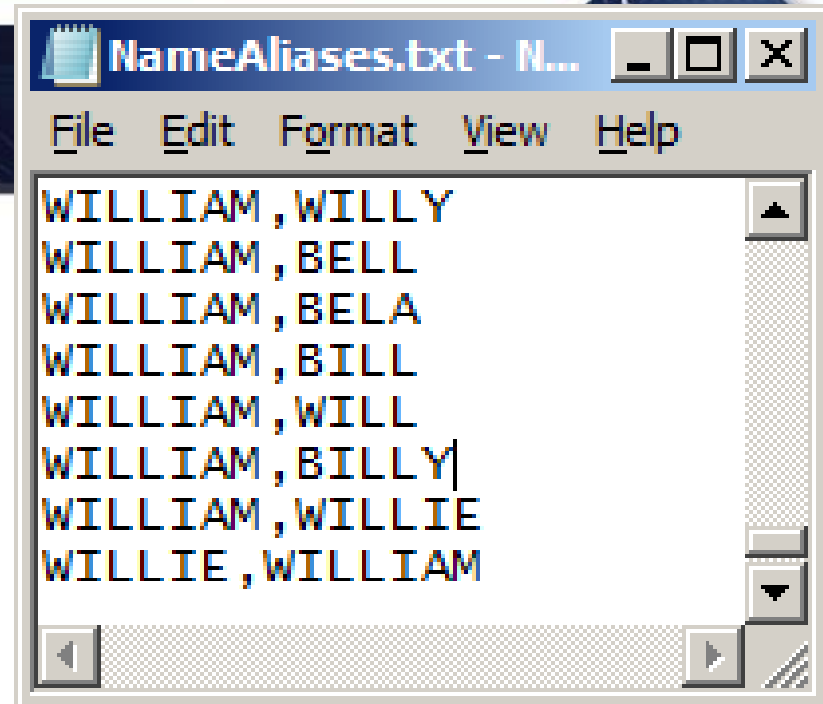
- Traditional Send one image Sync - RealTime
- Traditional Send one image Async
- NEW BULK SEND – Sync
- NEW BULK SEND - Async

- Now supports Java, Python....
 - Webservice is agnostic of languages with Transport Encryption.

LOVE
BULK

Payee Verification

Compare Issue Name
To the Payee Name



- Matching names give high scores
- Nicknames also return high scores.
 - William Clinton or Bill Clinton...
- Users can add nicknames to our lookup file.
 - `C:\orbograph\engine\bin\pprdata\NameAliases.txt`
- Score of 100 = Perfect Match.

Owhere App



- Build scenarios for use cases
 - Channel
 - Document type
 - Amount
- Select thresholds
- Tune system
- “Business rules”
- Transaction monitoring

OrboAnywhere: Owhere App

Profile and Scenario Business Rules

Execute Save D:\User\Ari\OrboAnywhere\OwhereClient\OwhereClient\OwhereClient\Owhere App\High Risk Scenario

New Profile

Valid dates range (days)
Past: 30 Future: 30
Days for new account: 45

Allowed document types

Business Check	<input checked="" type="checkbox"/>
Personal Check	<input checked="" type="checkbox"/>
Money Order	<input type="checkbox"/>
Treasury Check	<input type="checkbox"/>

Paper match lists

Blank list	<input checked="" type="checkbox"/>
White list	<input type="checkbox"/>

Account match lists

Blocked Accounts	<input checked="" type="checkbox"/>
Suspicious list	<input type="checkbox"/>

Minimum Amount (\$) Total threshold (%)

Validations	Execute	Minimum \$	Risk Threshold	Weight
Maximum Amount	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="10000"/>	0.50
Amount Verification	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.50
Amount Consistency	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.20
Image Quality	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.25
Payee Verification	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="20"/>	0.75
Payor Verification	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.50
Missing Signature	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.20
Missing Endorsement	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.75
Valid Document Type	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.50
Date In Range	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="70"/>	0.50
Exact Description	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="70"/>	0.20
Check Out Of State	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.25
Amount Not To Exceed	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.20
Two Signature Required	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="70"/>	0.50
Check To Cash	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="40"/>	0.50
Payee Paper Validation	<input checked="" type="checkbox"/>	<input type="text" value="0"/>	<input type="range" value="50"/>	0.20

Healthcare Breakout Session

Thursday March 23rd 11AM-12:30PM

Stewart Levine – Vice President - Client Services
Roni Boker – Director Product Management HPAC
Phil Hetrick – HPAC Product Specialist
Bryan Bruton – Healthcare Technology Executive



Agenda



- HIPAA & The Cloud
 - {A practical approach to getting things done}
- Correspondence Productivity Tracking
- Time to Production: Onboarding Challenges
- Roadmap ‘Teasers’ and Feedback
 - Denials Analytics & Decision Support
 - Interactive EOB
 - Executive dashboard



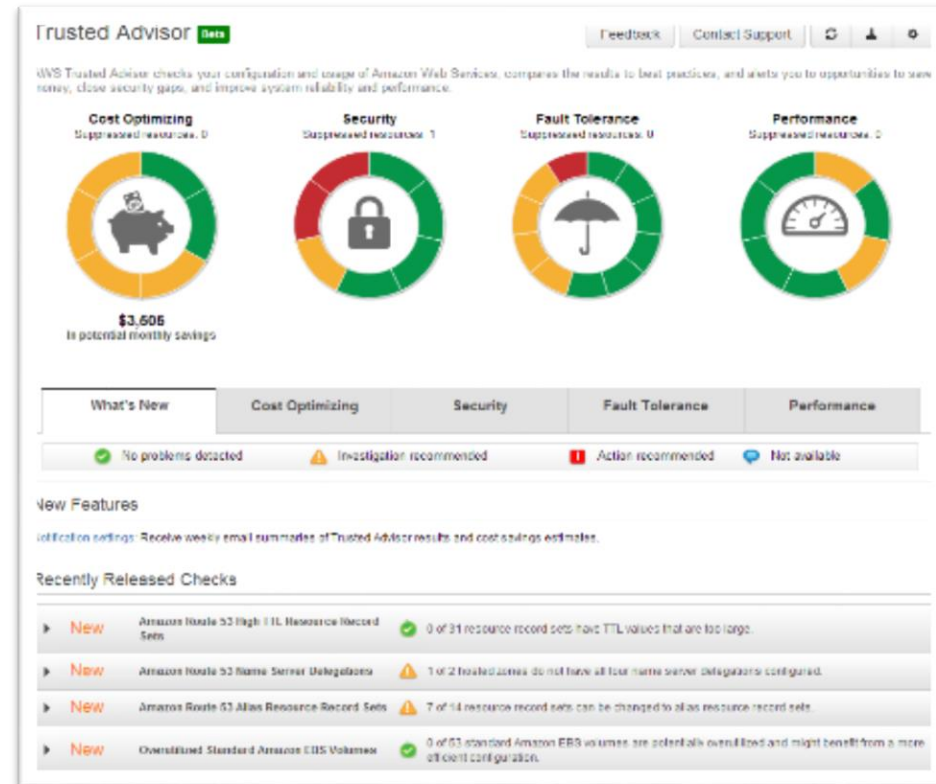
What is the HIPAA definition of Cloud Computing?



Technical Safeguards - Amazon Monitoring +++



- AWS
 - Security Services
 - System Health
- Orbograph - Dome9 Security Service and Management Tools
 - Monitors
 - Prevents Security Changes
 - Proactively reverses changes (i.e. not done through Dome9)



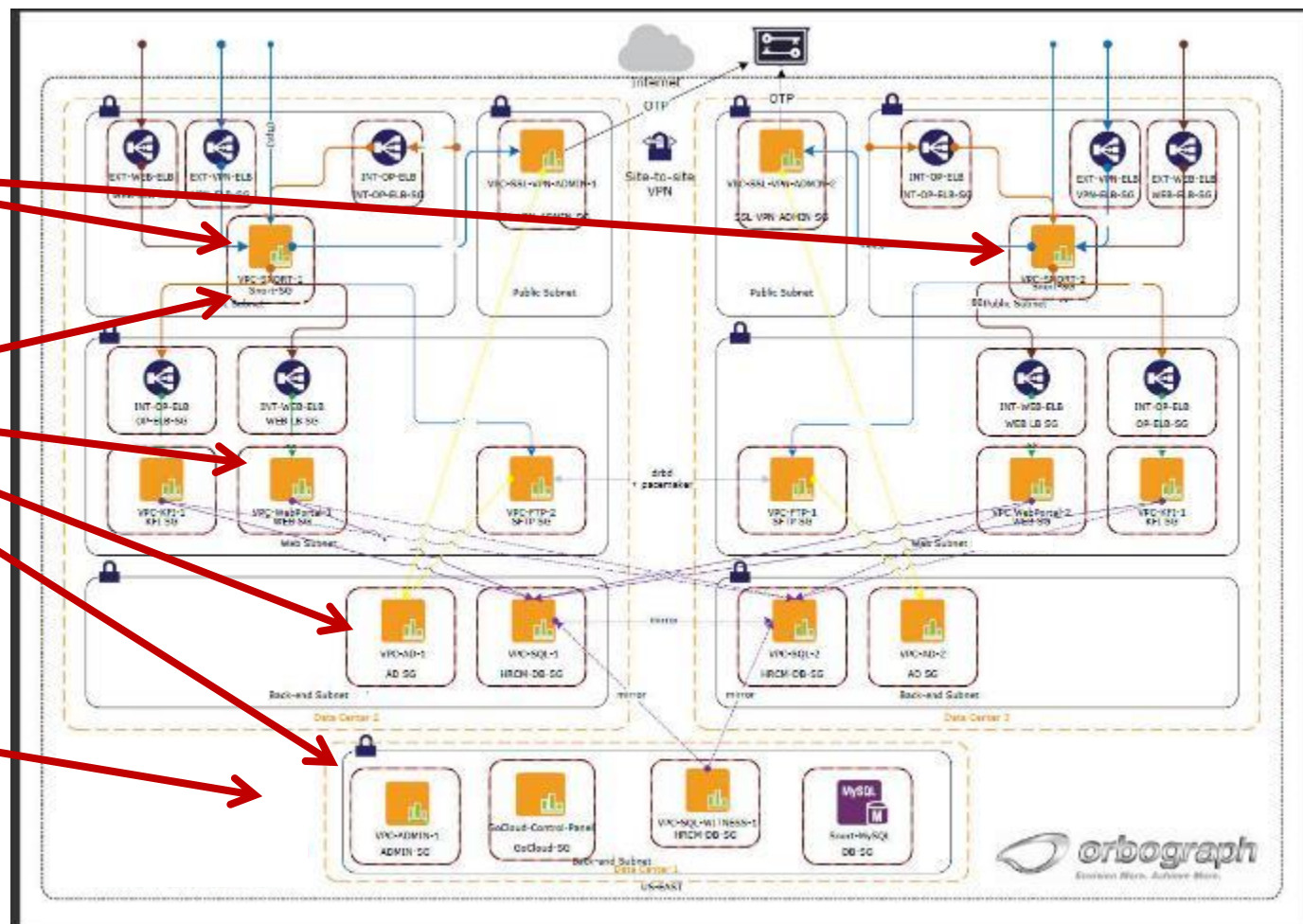
Logical Safeguards



Intrusion
Detection

Multiple
Firewalls

Data is stored
"3 levels deep"
Not directly
accessible



Closing of The 2017 Orbograph Client Conference



2017 ORBOGRAPH CLIENT CONFERENCE
DELIVERING THE FUTURE IN HEALTHCARE, CHECK AND PAYMENTS

What's Actionable?



- Leverage the research
- Test the system...OWhere Test Cloud
- Build out a product plan
- Field testing and customer interaction
- Customer survey
- Customer focus group
- Pre-qualify sales efforts
- Solution rollout



Webinar Series



[Converging and Diverging Market Changes in Payments and Check](#)

April 28, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[Healthcare Market Overview](#)

May 3, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[Payments, Checks and Healthcare: A FinTech Perspective](#)

May 5, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[Opportunities in Healthcare Reimbursements, Revenue Cycle Management and Electronification](#)

May 9, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[Correspondence Letters & Denied Claims: An Ongoing, Yet Growing Problem](#)

May 12, 2017 @ 2:00 PM EST

Duration: 30 Minutes

[The Future is Now in Cloud Deployment for the Financial and Healthcare Industries](#)

May 24, 2017 @ 2:00 PM EST

Duration: 30 Minutes

Final Questions?

