FinTech - Current Issues, Compliance Concerns

Saltmarsh Community Bank Compliance Funnel November 5, 2019 Kristen J. Stogniew, Esq., CFE, Shareholder <u>Kristen.Stogniew@saltmarshcpa.com</u>



U.S. DEPARTMENT OF THE TREASURY

A Financial System That Creates Economic Opportunities Nonbank Financials, Fintech, and Innovation



2

Report to President Donald J. Trump Executive Order 13777 on Core Principles for Regulating the United States Financial System July 2018





Some Recent FinTech trends affecting Community Banks

- "FinHealth" Paychecks are unbundling; Banks are ditching fees
- Widespread consumer adoption, trend toward B2B, and SME (Small and Medium Sized Enterprises)
- Core banking providers have lost 20% market share in last 5 years



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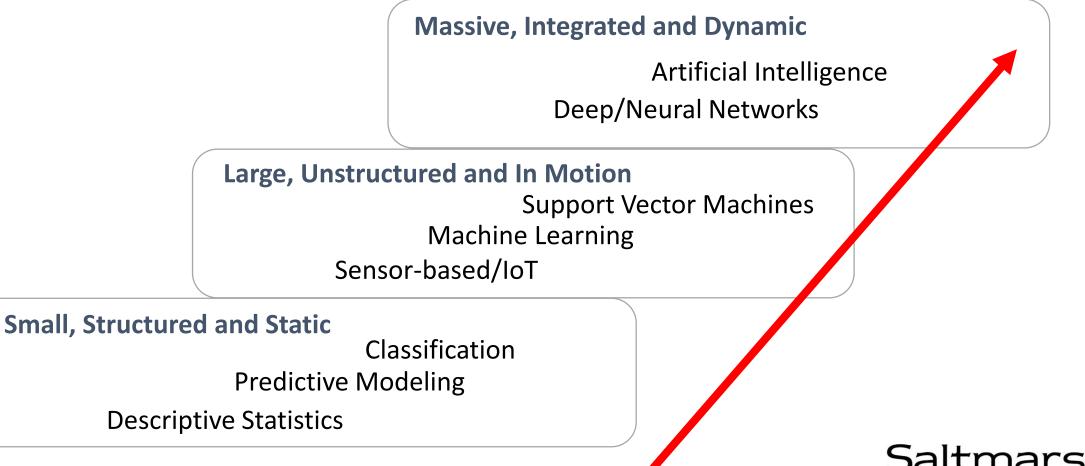


24 HOUR BANKING FROM THE FIRST NATIONAL BANK OF ATLANTA



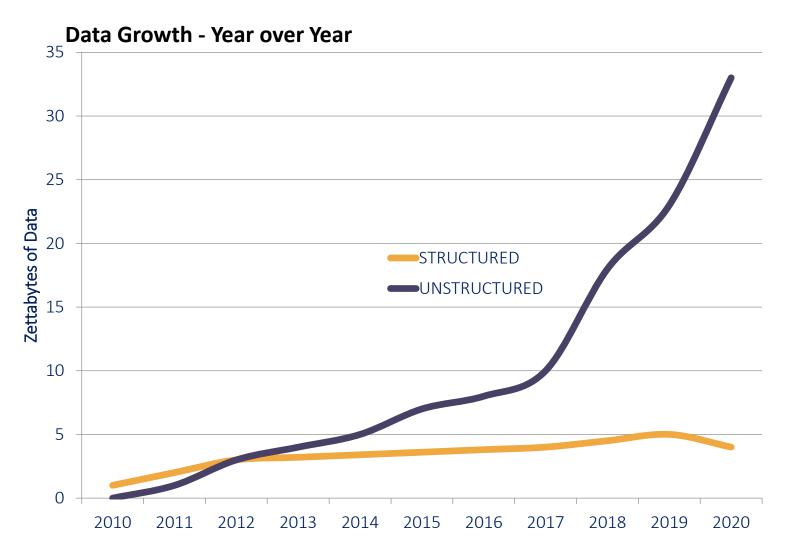


How the Data Ecosystem is Evolving...



Jennifer Lewis Priestley PhD|Analytics and Data Science Institute|Kennesaw State University

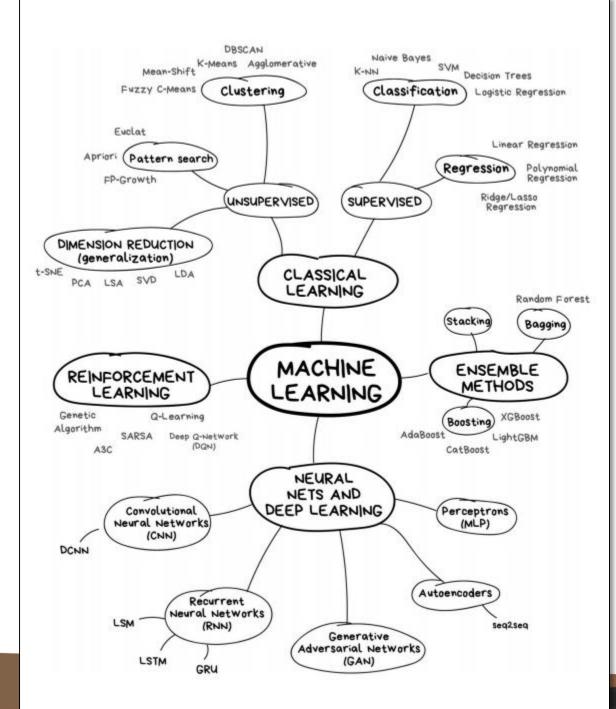


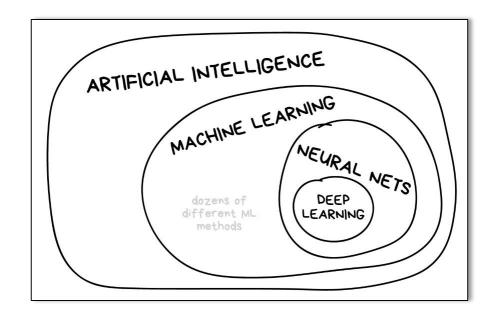


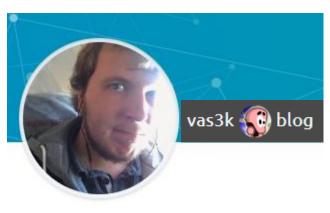


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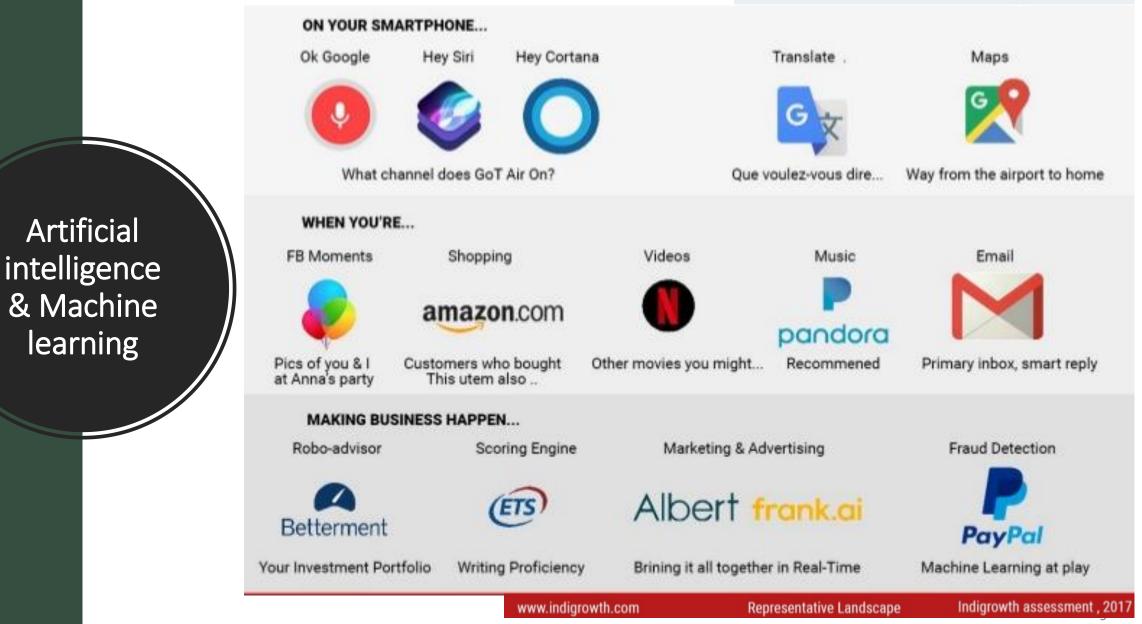


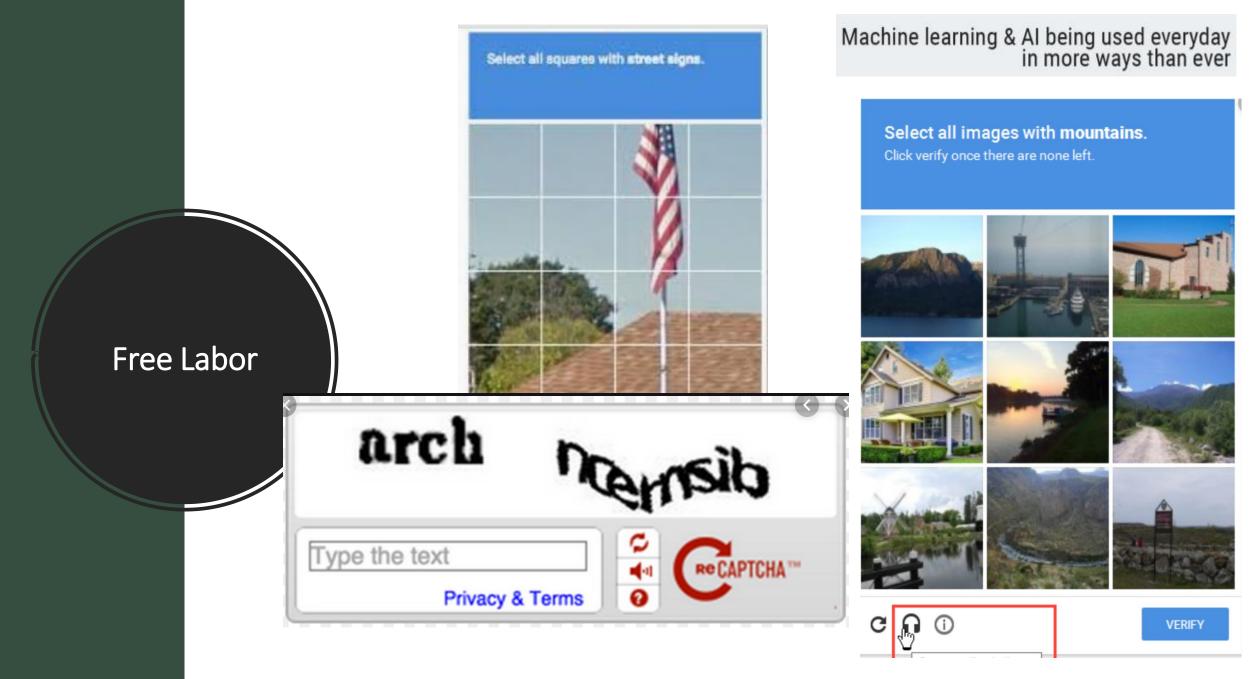
Vasily Zubarev · 3rd Senior Python Developer Berlin, Berlin, Germany · 91 connections ·



Machine Learning/ Algorithmic Bias

Machine learning & AI being used everyday in more ways than ever





Data aggregators, Open Banking

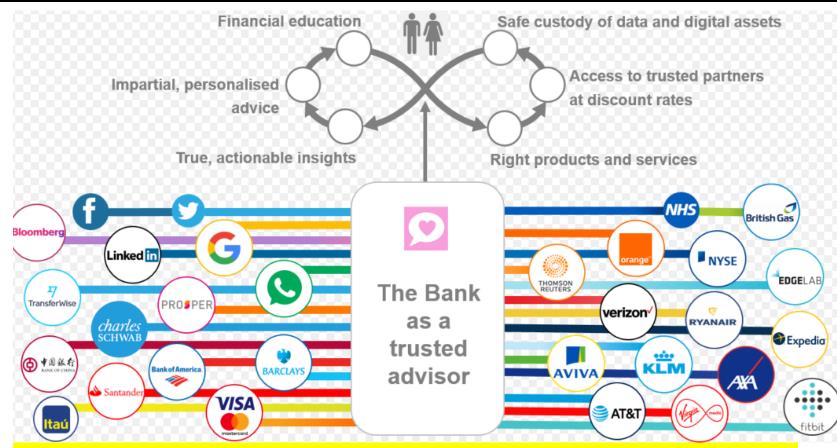
Since to a consumer financial. consumer financial p obtained from such c 9/18/18 – concerns about scope of account including costs consent, privacy and accuracy of information sharing; transparency, responsibility, and accountability

their report*, recommended that FPB clarify that to a consumer's ata includes third s permissioned sumer as well.

the Treasury, Report to the Treasury, Report to J. Trump, per Executive Order Core Principles regulating the US Financial System, July 31, 2018



The Future "Everyday bank"?

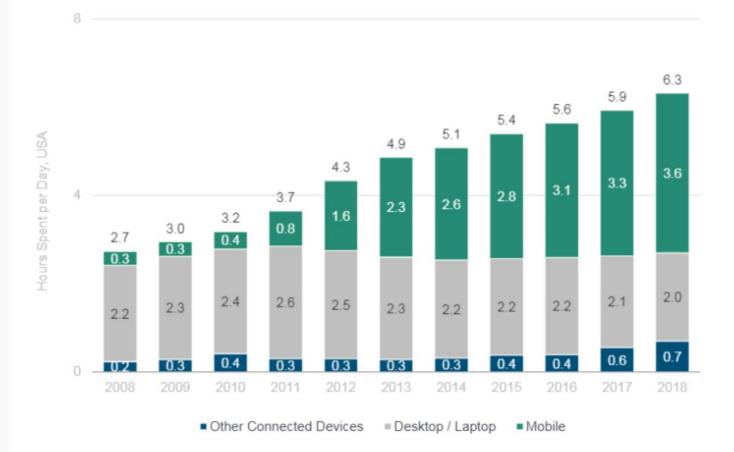


See "How to Build an Everyday Bank", 3/26/14 by Jim Marous, Co-publisher of The Financial Brand and Owner/Publisher of the Digital banking Report, discussing Accenture's 2014 report, "The Everyday Bank"

"How banks can become better aggregators than Google", 10/17/17 www.medium.com



Daily Hours Spent with Digital Media per Adult User, USA

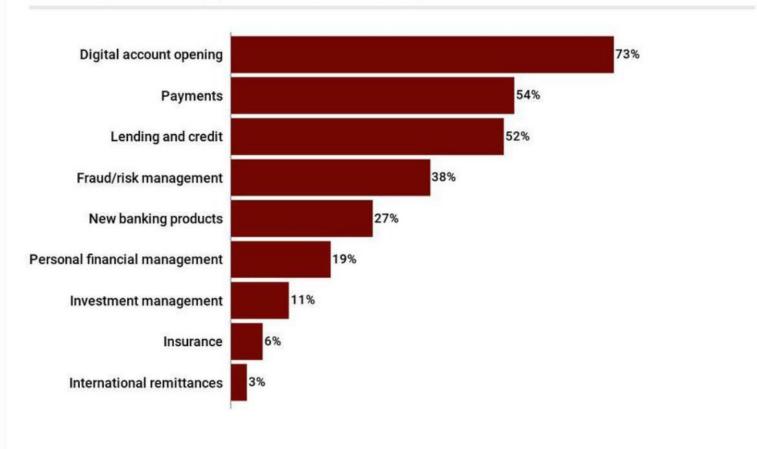


https://csbcorrespondent.com/blog /13-most-important-mary-meekerslides-pertaining-banking

Source: eMarketer 9/14 (2008-2010), eMarketer 4/15 (2011-2013), eMarketer 4/17 (2014-2015), eMarketer 10/18 (2016-2018). Note: Other connected devices include OTT & game consoles. Mobile includes smartphone & tablet. Usage includes both home & work for consumers 18+. Non deduped defined as time spent with each medium individually, regardless of multitasking.

Top Bank/Fintech Partnerships Areas of Focus

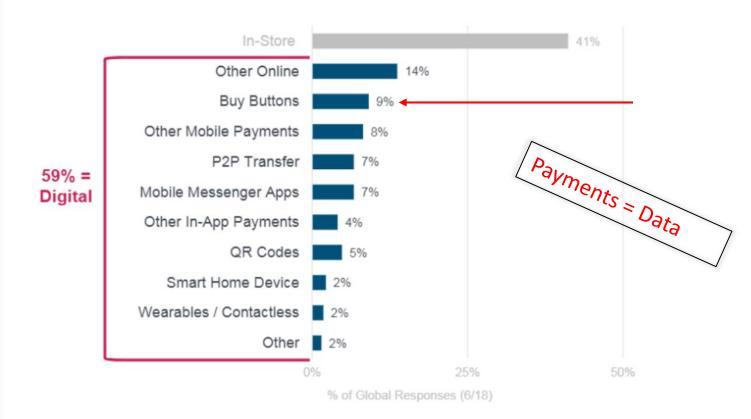
(% of banks citing area of focus as "very important" to their fintech partnership strategies)



Source: Cornerstone Advisors What's Going On in Banking 2019 study

Transactions by Payment Channel

Thinking of your past 10 everyday transactions, how many were made in each of the following ways?



"Digital payments now account for 59% of all daily transactions. While most of this is ecommerce, banks should note the rise of P2P payments, the use of QR codes and the use of payments over both smart home devices and wearables".

https://csbcorrespondent.com/blog /13-most-important-mary-meekerslides-pertaining-banking

Source: Visa Global Commerce Unbound 2018 (2/19). Note: Full question was "Please think about the payments you make for everyday transactions (excluding rent, mortgage, or other larger, infrequent payments). Thinking of your past 10 everyday transactions, how many were made in each of the following ways?". GIK Research conducted the survey with n = 8, 127 across 20 countries (USA, Canada, UK, France, Poland, Germany, Sweden, Mexico, Brazil, Argentina, Colombia, Australia, China, India, Japan, South Korea, Russia, UAE, Kenya), between 5/31/18 – 8/20/18. All respondents do not work in Financial Services, Marketing, Marketing Research, Advertising, or Public Relations, own & currently use a smartphone, have a savings or checking account; owniuse a computer or tablet, & own a credit or debit card.



FinTech uses in Deposits, Payments, and Financial Management:

PRO	CON		
Faster electronic Payments and P2P Services			
 Ubiquitous electronic payments Just in time bill payments Accurate account balances, could reduce overdraft fees 	 Easier, faster payments can mean easier, faster fraud Weak protection against fraud and errors/Reg E? Banks may still charge overdraft fees Monopoly service and pricing 		
Personal Financial Management and Overdraft Protection			
 Apps linked to deposit accounts = Better money management, tools to improve savings Avoidance of overdraft fees 	 Data collection, sold to lead generators Opaque, bait-and-switch fees; "tips" Avoidance of credit laws Overdrafts can still happen 		
Mobile Deposit Accounts and Neo-Banks; prepaid access			
 Access for underserved consumers, no minimum balances or fees, no checks to create ODs Easy mobile financial management tools "Personalization", the "Everyday Bank" 	 Weak or no CRA responsibilities Lack of access to customer service/humans Preemption of state consumer protection laws Fast account opening = Fast ID Theft Consumers with limited data plans or uneven data access No paper statements 		
	Saltmarsh, Cleaveland & Gund		

CERTIFIED PUBLIC ACCOUNTANTS AND CONSULTANTS

FinTech uses in Deposits, Payments, and Financial Management:

PRO	CON			
Virtual Currencies, Blockchain and Smart Contracts				
 Digital ID may reduce fraud Reduce cost and speed in international transactions More accurate and accessible information Enforcing contracts automatically, trustlessly, and impartially 	 Wide value fluctuations and no fraud or error protection for virtual currency Security of information on block chain has been questioned No guarantees if bad data is entered and "immutability" and decentralized nature makes errors harder to correct Block chain users/aggregators may be considered credit bureaus Smart contracts may not embody the entire agreement and may be ambiguous; may not be so smart 			



FinTech uses in Credit, Credit-Related, Credit-Like products:

PRO	CON			
Credit reporting				
 Improved access for thin/no file or irregular cash flow Optional utility reporting can improve scores Typically only used to improve score 	 Privacy – i.e., where you shop May not always be voluntary Impact may not always be positive Aggregators/credit reporters? 			
Cash flow underwriting				
 More realistic underwriting, considering actual cash flow 	 Could help predatory lenders time debits when deposits come in, before rent is paid Underwriting on ability to collect, not ability to repay 			
Online lending				
 Fast and convenient More access to midsize loans (\$1k-\$40k) Lower prices Better repayment options (closed-end) 	 Easier access to high cost loans and unaffordable debt Evasion of state interest rate caps/Oversight Obscure pricing Lack of skin in the game Loss of protections for defective goods and services 			
	Saltmarsh			

Saltmarsh. Cleaveland & Gund

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SMARTBOX

Capital Comparison Tool

This Merchant Cash Advance ("MCA") is a purchase of future receivables ("Receivables"), not a loan. If you take this MCA, you will deliver Receivables to us as they are generated by your business (and only if they are generated by your business) and not on any set schedule. There are no fixed or minimum payment amounts and no term or maturity date. In order to compare the cost of this MCA to a loan, SMART Box provides the calculations below based on several assumptions, including that you will deliver the same amount of Receivables each period and that you will deliver all of the Receivables you sold within a predicted period of time. In practice, these amounts will vary. Unlike a loan, this MCA has no payment schedule and no interest rate; your obligation is to deliver Receivables as your business generates them.

This tool is provided to help you understand and assess

the cost of your small business finance product.

Purchase Pr Amount \$[0]	ice	Disbursement Amount (minus fees withheld) 1 \$[0]	So	cceivables old 0]	Predicted Delivery Time ² [_] Months	
METRIC		METRIC CALCULATION		METRIC EXPLANATION		
Total Cost of		ture Receivables Sold ninus Purchase Price:	\$[0.00]	This is the total amount that you will pay, including up-front fees, for capital. The amount does not include fees and other charges you can avoid, such as fees for reversed payments. ³ It also assumes your		
Capital		Origination Fee:	\$[0.00]			
\$[0.00]		Other Fees:	\$[0.00]			
120 31 10		otal Cost of Capital:	\$[0.00]	business will generate all of the Receivables we are purchasing.		
Annual Percentage Rate (APR) ⁴		Assumed laily/weekly/monthly] ery of Receivables ⁵ :	\$[0.00]	This is the cost of capital – including fees – expressed as a yearly rate. APR takes into account the amount and timing of capital you receive, fees you pay, and Receivables you deliver.		
[00.00]%		APR:	[00.00]%	and deliver to Receivables Receivables Predicted De	hat your business will generate he same amount of each period, and that all of the will be delivered in the elivery Time. While APR can be sparison purposes, it is not an	







FinTech uses in Credit, Credit-Related, Credit-Like products:

PRO	CON			
Early wage access				
 Low cost option to meet expenses No debt, or debt collection Usually incudes personal financial management 	 Chronic use and cycle of early spending Paying to be paid A substitute for regular pay and a living wage? Look alike products evading credit laws 			
Student Ioans/Income Share Agreements				
 Lower cost loans/refi's Accelerated/employer contributed repayment Access to credit for low income students Protection if graduate's income is low 	 Loss of federal student loan protections Too much debt Only certain schools/degrees offer - Disparate impact? Extreme collection - tax return/punitive terms Obscure pricing/not "loans" for consumer protection laws May not be reported to bureaus 			
Auto Loans/Subscription Agreements/Electronic tracking devices				
 More competition=lower prices Streamlined application process Broader access to credit 	 Dealer add-ons Faster closing=easier deception Agreements/not loans or leases for consumer protection Electronic tracking brings privacy & due process concerns 			
National Consumer Law Center, "Fintech and Consumer Protection: A Snapshot" March 2019				

FinTech uses in Credit, Credit-Related, Credit-Like products:

PRO	CON		
Real Estate Lending			
 Faster more efficient application process Improved underwriting and expanded access to credit PACE loans, energy saving investments 	 Faster can be dangerous for relatively large loan Inaccurate appraisals/automated valuations PACE loans evade consumer protections and lead to contractor scams 		
Alternative home finance products – Shared appreciation / Sale leasebacks			
 Easy access to cash No loan, no interest, no debt Shared risk 	 Balloon payment loan Little underwriting for ability-to-repay Hidden costs Foreclosure/home risk without protection 		
Loan Servicing, Debt Collection and Debt settlement			
 Borrower focused; tools and options to stay on track Specialized servicing for student loans Preferred communication channels More personalized and affordable repayment options 	 Will Al/algorithm do better than humans? Bias in offering loss mitigation options Harassment and deception possible through text messages & mobile apps just the same Electronic communication consent/robo-harassment 		
National Consumer Law Center, "Fintech and Consumer Protection	on: A Snapshot" March 2019		

"RegTech"

Use of technology to help businesses comply with regulations efficiently and less expensively

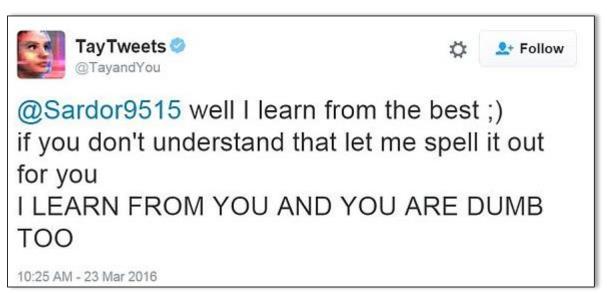
- Online account opening BOTS
- Digital identities
- Compliance Monitoring
- AML/Fraud identification
- Machine executable regulatory code

JoAnn Barefoot, <u>www.jsbarefoot.com</u>, <u>https://www.jsbarefoot.com/podcasts/2018/6/9/reg</u> <u>ulation-revolution-the-financial-conduct-authority-</u> <u>and-digitally-native-regulatory-design</u> (google "Barefoot Coding Regulations")



Ethical Concerns of FinTech Generally

- Transparency of AI model for validation
- Trust, privacy and use of data
- Data security
- Job displacement
- Bias





Regulatory Initiatives:

"You're only as innovative as your least innovative regulator"

Rob Morgan, American Bankers
 Association VP of Emerging
 Technologies, as quoted to
 Bloomberg Law.

- State Sandboxes (Arizona 3/18, Wyoming 2/19; Utah 5/19)
- Treasury FinTech report to President, June 2018
- 7/18 OCC Office of Innovation/FinTech charter (stalled)
- CFPB Office of Innovation: 2/19 Disclosure Sandbox from 9/18 was revised; 9/19 American Consumer Financial Innovation Network
- 10/18 Interagency Guidance Innovation for BSA/AML
- 5/19 House F.S. Committee FinTech & AI Task Force; 8/19 Alternative Data hearing
- Conference of State Bank Supervisors Vision 2020 Uniform model payment law
- Federal Reserve Secure/Faster Payments task forces; ACH, wire and check fraud

"The Banking industry is at the dawn of a great new era of FinTech partnerships that will change banking as we know it for the foreseeable future"

- Kevin Tweddle, COO ICBA Services Network in AmericanBanker.com

Bank Initiatives:

- Direct Partnerships
- Accelerators/Incubators, e.g., ICBA ThinkTech
- Alliances, e.g., Alloy Labs

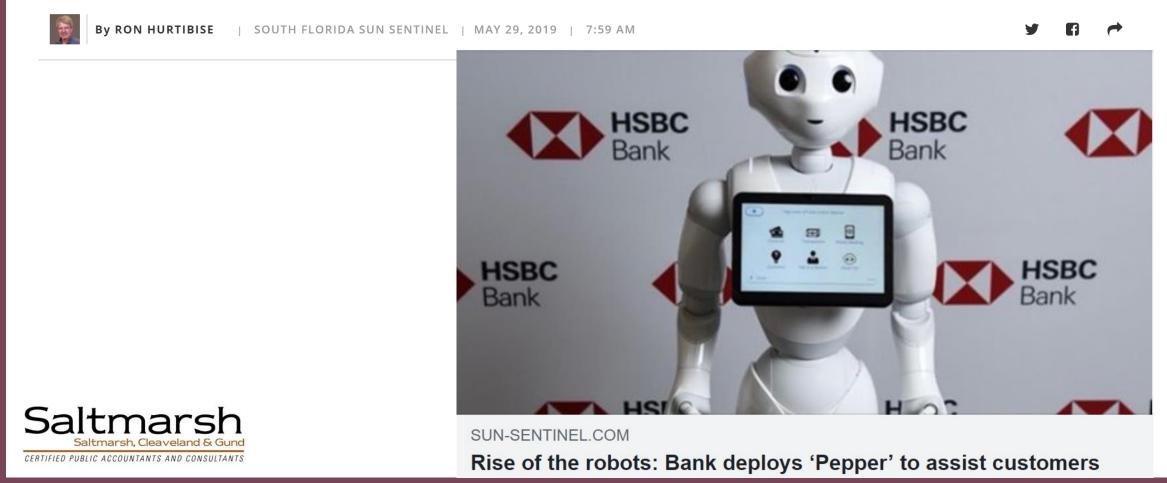
- ✓ American Banker
- ✓ ABA Banking Journal
- To learn more... ✓ Benzinga FinTech Focus
 - ✓ CSI Fintech Focus
 - ✓ Fintech Insider
 - ✓ The Kafafian Group

✓ Main Street Banking

70 million Americans now listen to podcasts, which have doubled in the last four years. Podcasts remain one of the more underutilized channels for banking due to the higher correlation between bank engagement and podcast listeners. Chris Nichols, CSBCorrespondent Blog "13 Of The Most Important Mary Meeker Slides Pertaining To Banking," 7/1/19



Rise of the robots: Bank deploys 'Pepper' to assist customers





phase digitization S aramming data-analy ICS n = nalmarketing digi 51 nar neoban algorithm-anxie ngs etwork Screen-Scraping

QUESTIONS?

COMMENTS?

