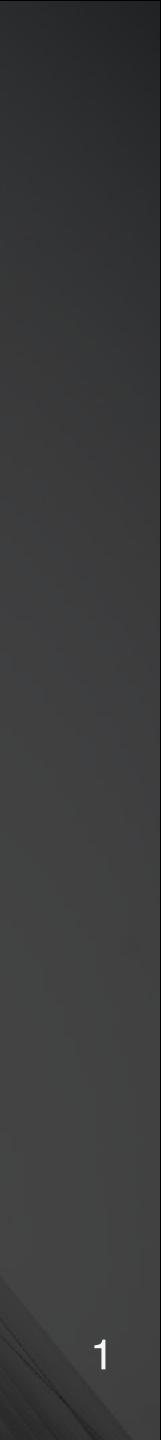
WUP ALIN BANKING

Remco Veenenberg W.UP Int. Sales Evangelist / Innovation consultant Remco Veenenberg remco@budapest.ai / www.budapest.ai



LIKE US FOR AI RELATED NEWS TO MEET STARTUPS, RESEARCHERS & ENTERPRISES

ENABLING PEOPLE TO APPLY ARTIFICIAL INTELLIGENCE UPDATES ON FUTURE HACKATHONS EXCITING COURSES & OPPORTUNITIES

BUDAPEST.AI









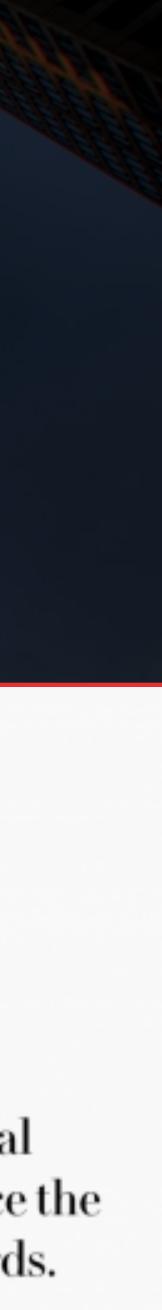
From the Magazine

ELON MUSK'S BILLION-DOLLAR CRUSADE TO STOP THE A.I. Apocalypse

Elon Musk is famous for his futuristic gambles, but Silicon Valley's latest rush to embrace artificial intelligence scares him. And he thinks you should be frightened too. Inside his efforts to influence the rapidly advancing field and its proponents, and to save humanity from machine-learning overlords.

Artificial Intelligence was the buzzword of the year in 2016

* High expactations
* Media hype - let's not add oil to the fire



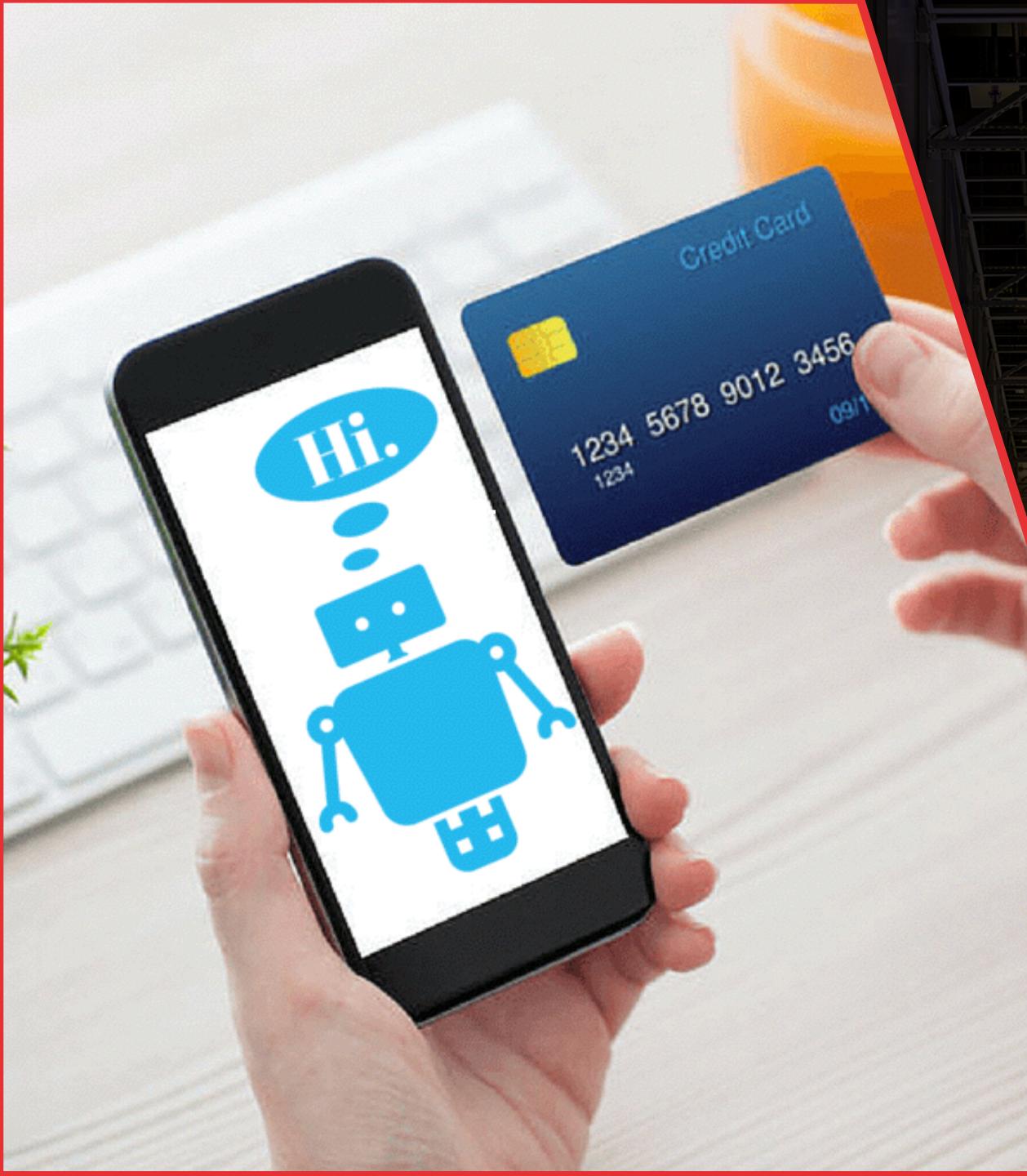
ARTIFICIAL INTELLIGENCE

NCE "The general term to describe how machines can mimic human capabilities."



ER "NO MATCH FOR NATURAL STUPIDITY"





AGENDA

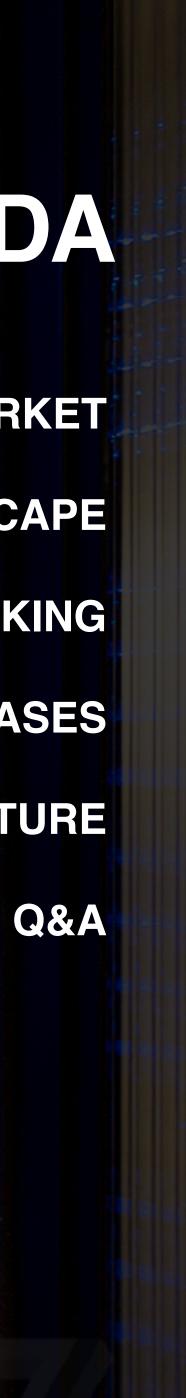
TRENDS AND MARKET

COMPETITIVE LANDSCAPE

WHERE ALLS CHANGING BANKING

USE CASES

PREDICTIONS FOR THE FUTURE



PREDICTIONS

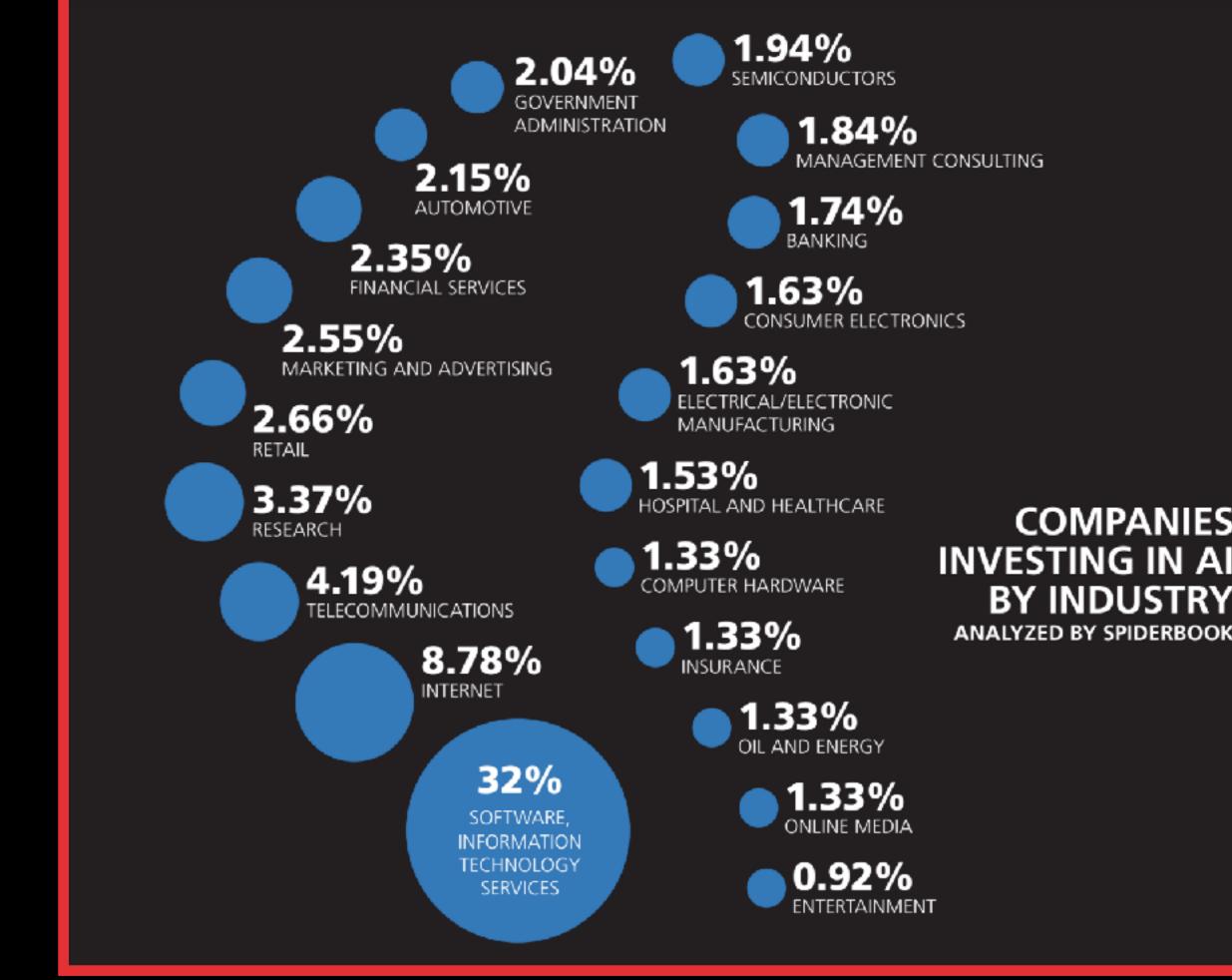
\$70bn industry by 2020

2,600 companies developing A.I. technology (2017)

By 2020, 85% of customer interactions will be managed without a human

By 2022, 40% of customer-facing employees and government workers will consult daily an Al virtual support agent for decision or process support

1000+ new jobs globally related to machine learning every month





"The key of Amazon's succes is it's recognition of its customers' evolving behaviours."

- Jeff Bezos, Founder Amazon



"Banking has to work when and where you need it. The best advice and the best service in financial services happens in real time and is based on customer behavior, using principles of Big Data, mobility, and gamification".

- Brett King, Founder Moven



TRADITIONALS BANKS ARE IN DANGER



amazon.com



Tech giants





Tencent腾讯

(FATBAG)





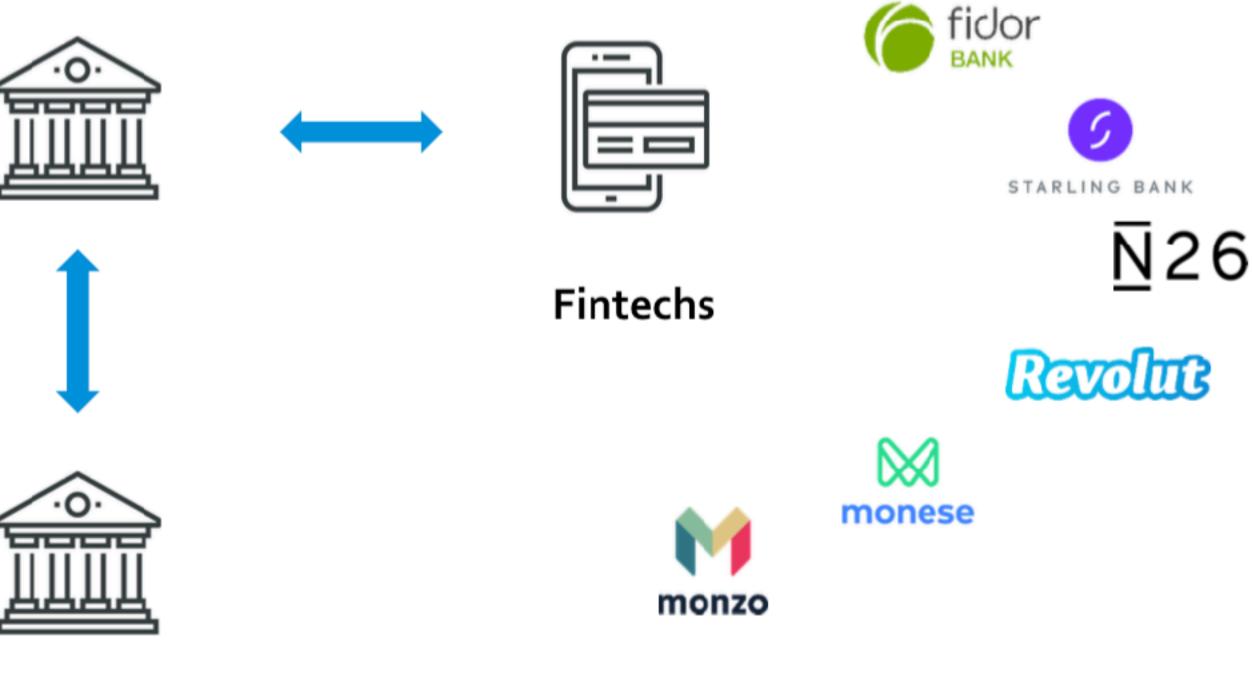


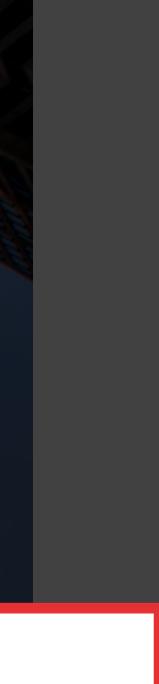
Competitor banks

Ever increasing competetion

* GAFA (Google Apple Facebook Amazon) * BAT (Baidu, Alipay, Tencent)

- * Challenger banks
- * Changing regulations



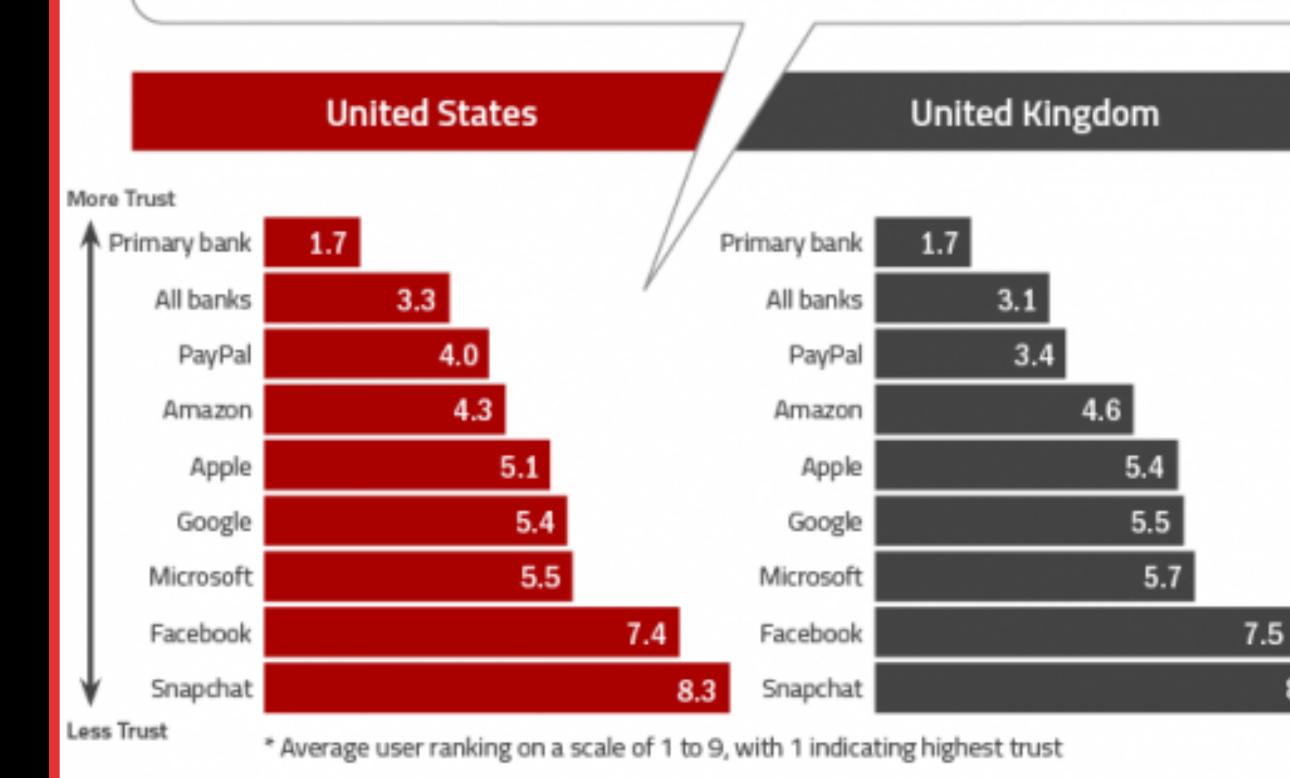




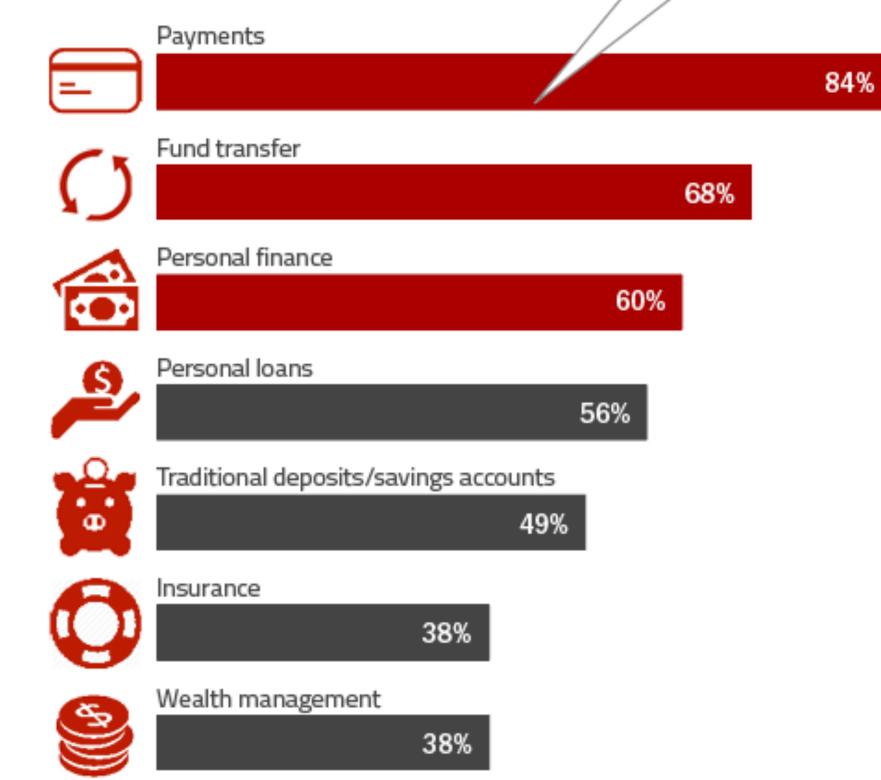


SHIFTING CONSUMER TRENDS

Consumers trust Paypal and Amazon almost as high as traditional banks



Activities consumers are already conducting with fintech firms (incumbent beliefs)



n
November 2017 The Financial Brand

Bai

SOURCE:

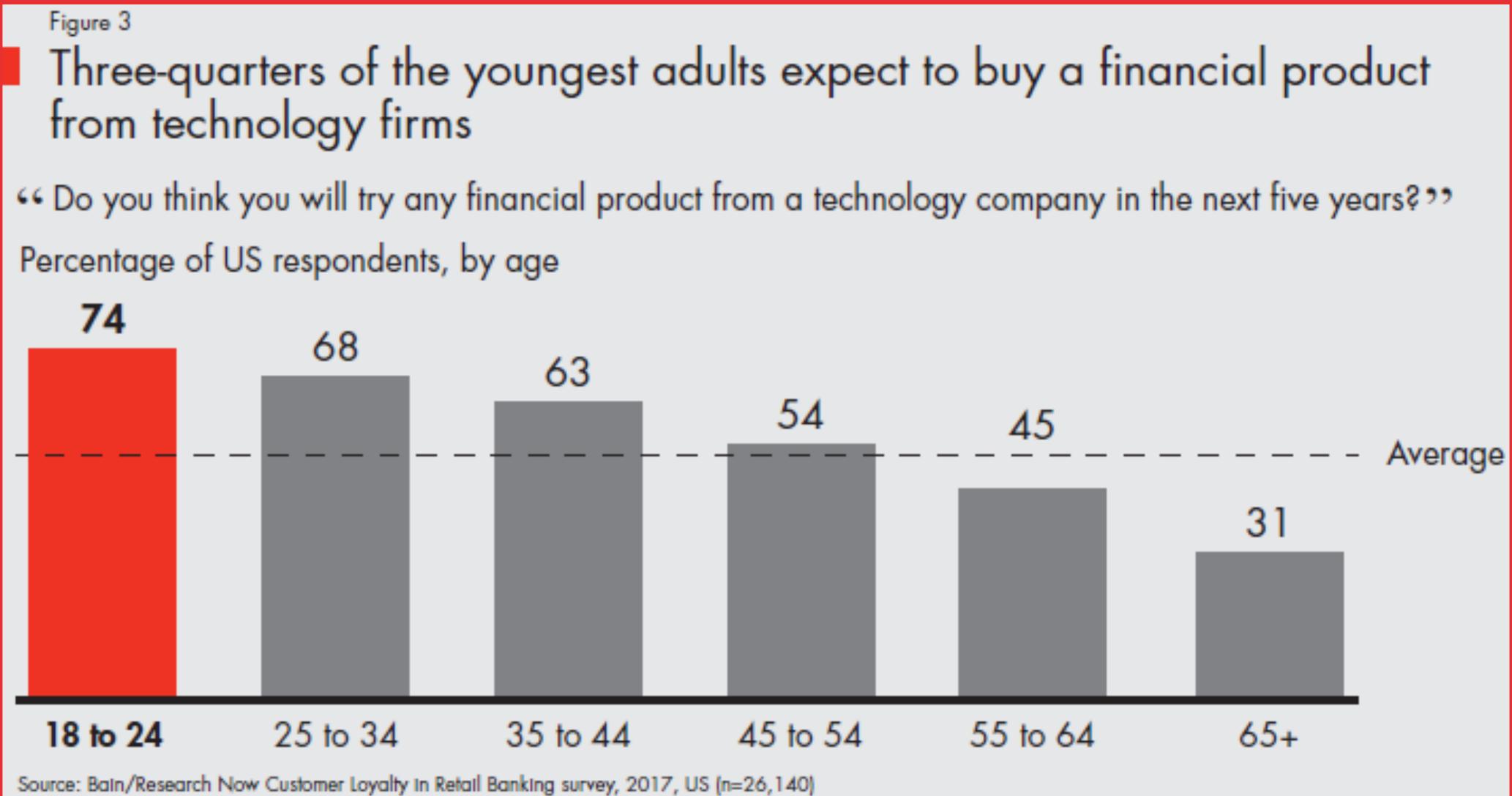
8.2

Q: What financial activities do you believe your customers already conduct with fintech companies?











Enabling locating will help to stop card transactions that aren't conducted within your proximity.



Disable magstripe payments

Anti-fraud locating

Disabling magstripe card payments will prevent the card from cloning.





If you won't be withdrawing cash from ATMs, disable ATM withdrawals for additional security.

•••••

€500.00



Top up

Paypal 22:24

13:42

If you won't be spending online, disable e-commerce payments for additional security.



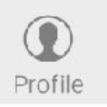
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Disable e-commerce

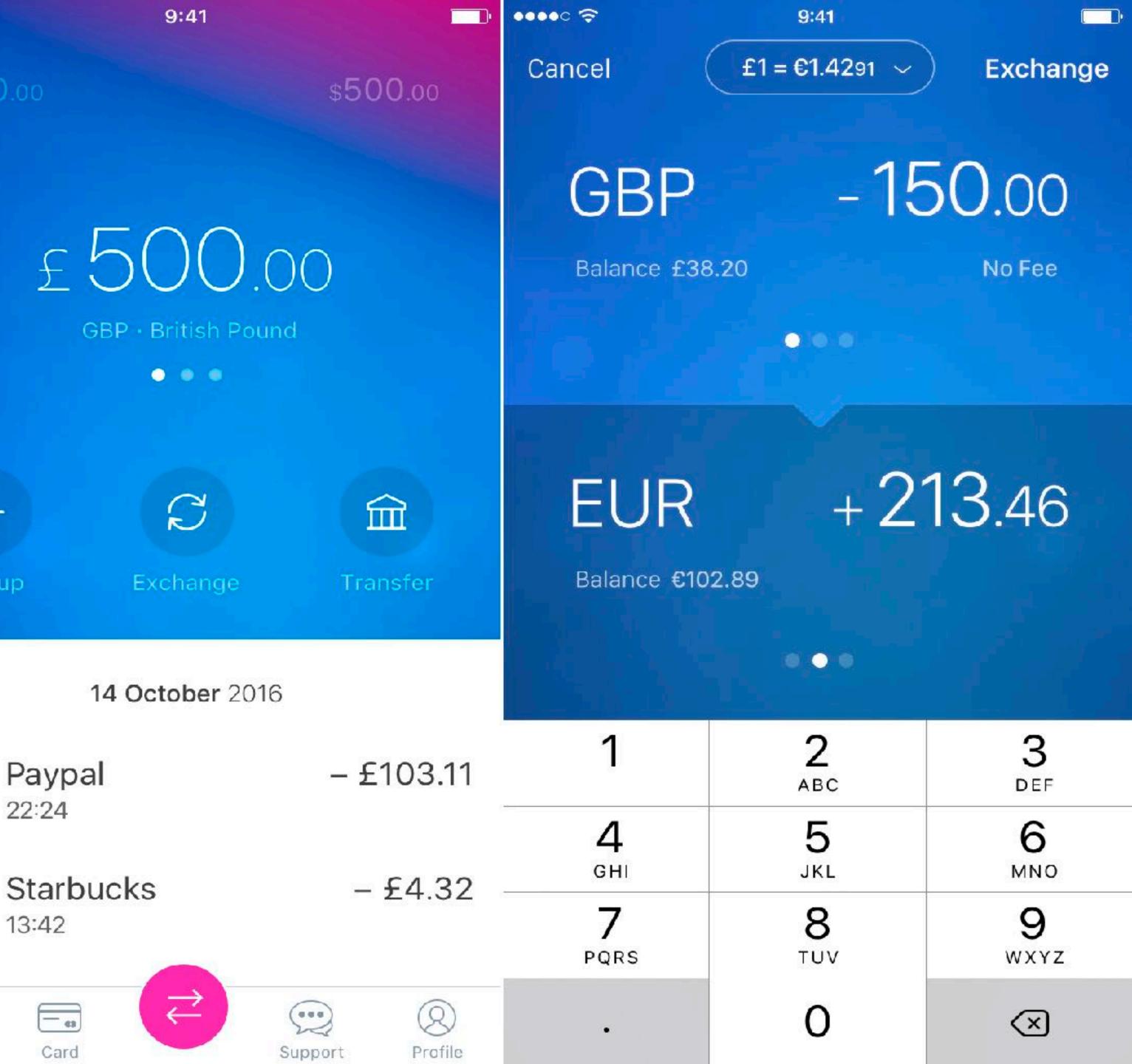
payments











Looking ahead

Where banks should be focusing technology efforts in 2018

Artificial intelligence and machine learning

APIs and open banking

Cybersecurity/biometrics

Commercial banking innovation

Source: American Banker research

FINANCIAL PLAYERS **INVESTING IN AI**







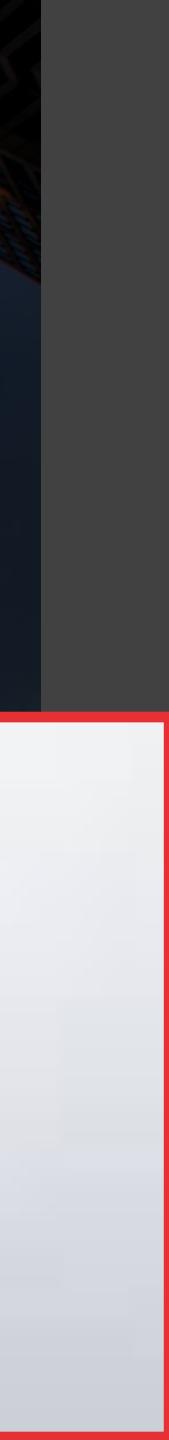




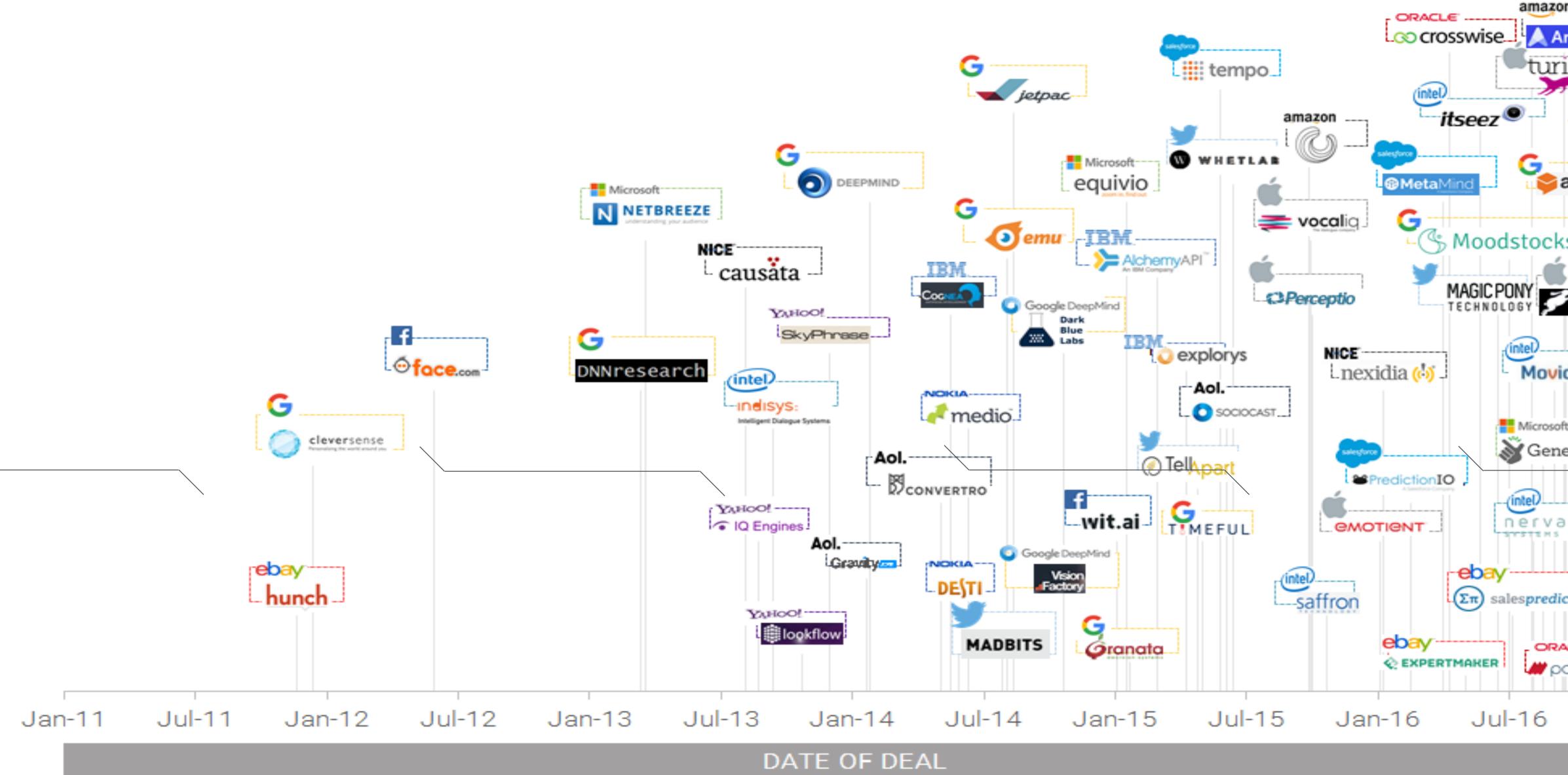


Major financial players are placing big bets on Al

* Amazon & Watson popular * Acquiring startups * Incubation/acceleration of talent Losing against the tech giants - talent war



RACE FOR AI: MAJOR ACQUIRERS IN ARTIFICIAL INTELLIGENCE 2011 - 2016 YTD (12/1/16)

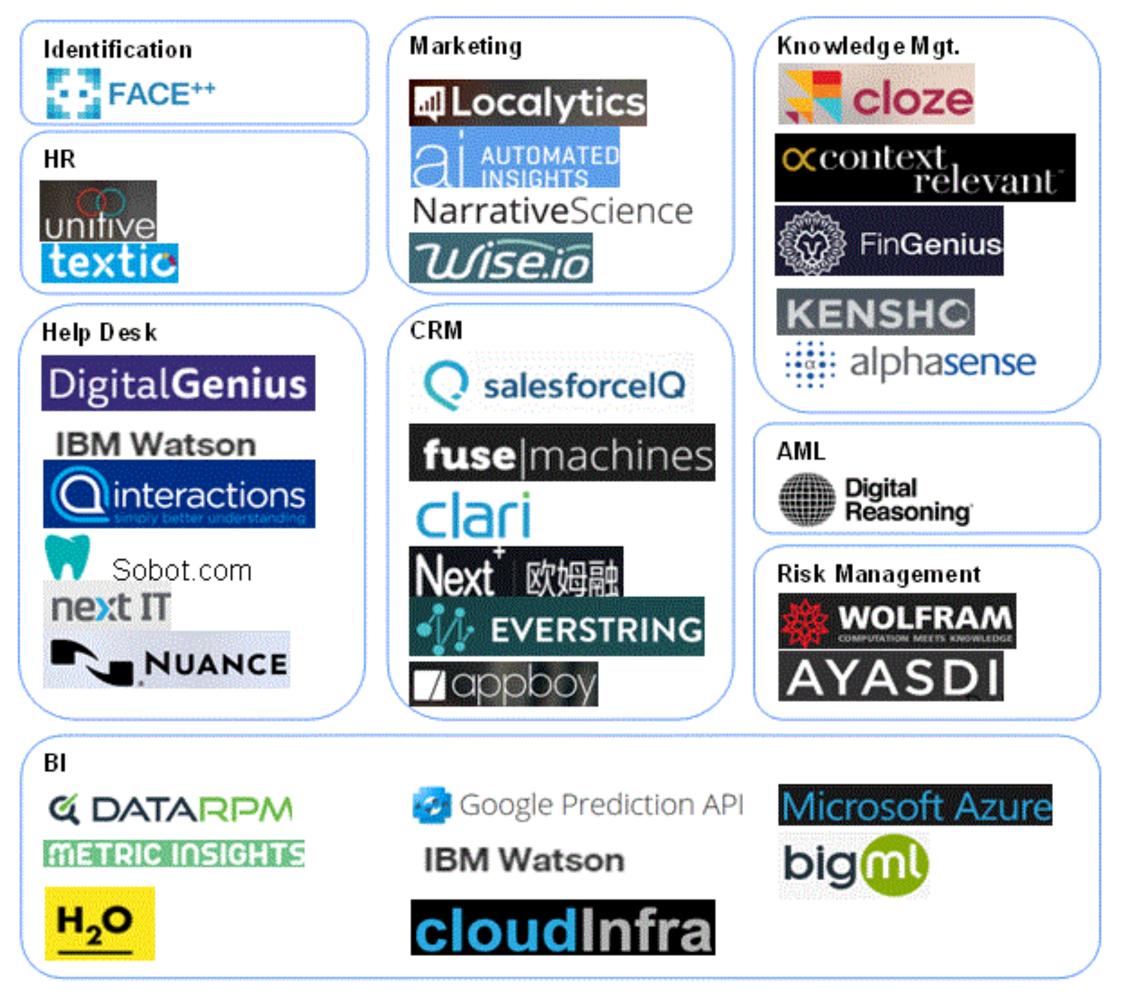


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Selected Firms with AI Banking Applications



WHY AI IN BANKING

Might be only means of survival

True differentiator - ability to spoil customers

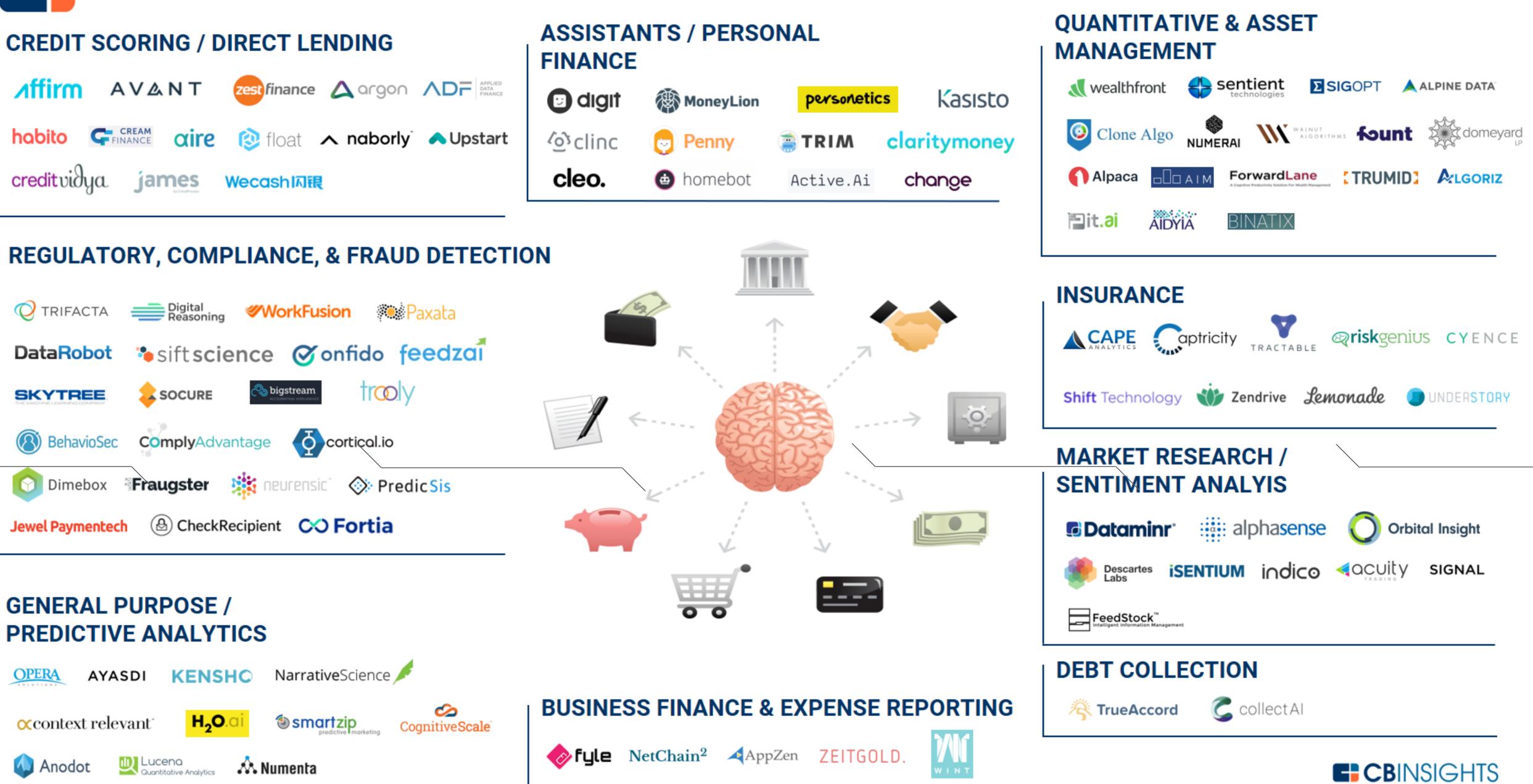
UBS says AI could boost banks' revenues by 3.4% and cut costs by 3.9% over the next three years.

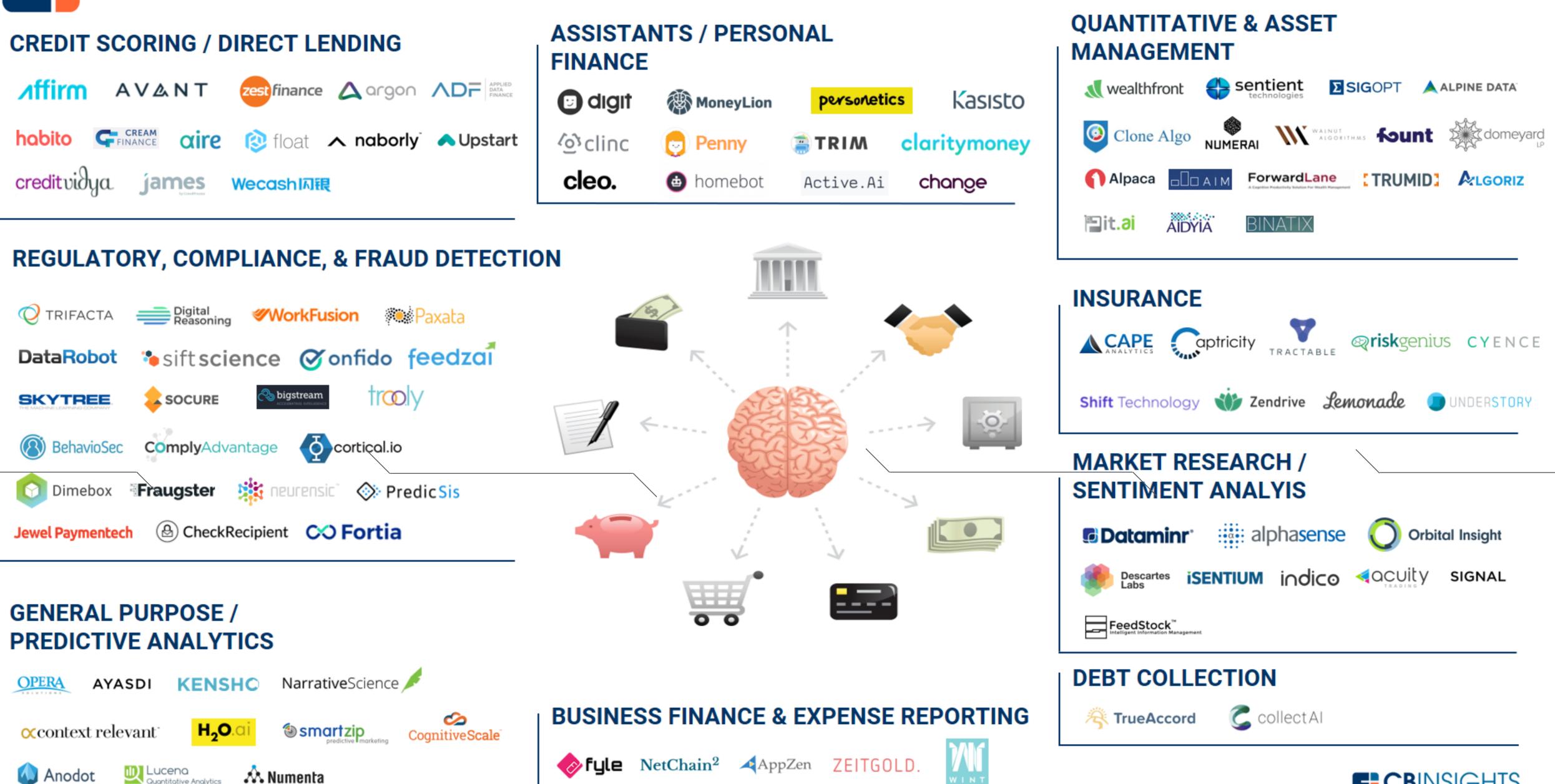
Investment and retail banks are looking at the application of AI for things like "robo advisors," chatbots, and compliance tools.

But there are challenges to implementation, as most banks need to sort their data sets out to handle AI.



CREDIT SCORING / DIRECT LENDING





USE CASES IN BANKING



- **Banking operations (machine learning)**
- Risk profiling
- Compliance
- Robo Trading
- Smart contracing



Customer engagement (chatbots)

- Customer insight/analytics
- Personal advising



JP MORGEN CHASE

360,000 HOURS OF MANUAL **REVIEWMENT REDUCED TO** SECONDS - ROBOTRADING

CHATBOT: COIN

Bank of America

BANK OF AMERICA

INVESTED 3\$ BILLION INTO INNOVATION AND HAS HAD IT'S SECOND MOST **PROFITABLE YEAR IN 2016**

CHATBOT: ERICA

WELLS FARGO

GOOD EXAMPLE OF A BANK DOING ACCELERATION - 1100 **APPLICATIONS SINCE** 2014

US BANK

INVESTED IN MACHINE LEARNING PRACTICE IN OVER 25 STATES WHERE IT OPERATES - CEO EXPRESSES **GREAT INTEREST IN CHATBOTS AS A CONVERSATIONAL INTERFACE**





You've been paid! Looks like you could afford to save £300 this month...

Shall I move that to your stocks and share ISA?

Yep pls - and can we up that for next month?

On it 👌

And I'll change next month's budget accordingly.

cleo.

CHATBOT//VIRTUAL AGENTS

Chatbots are the new 24/7 customer service

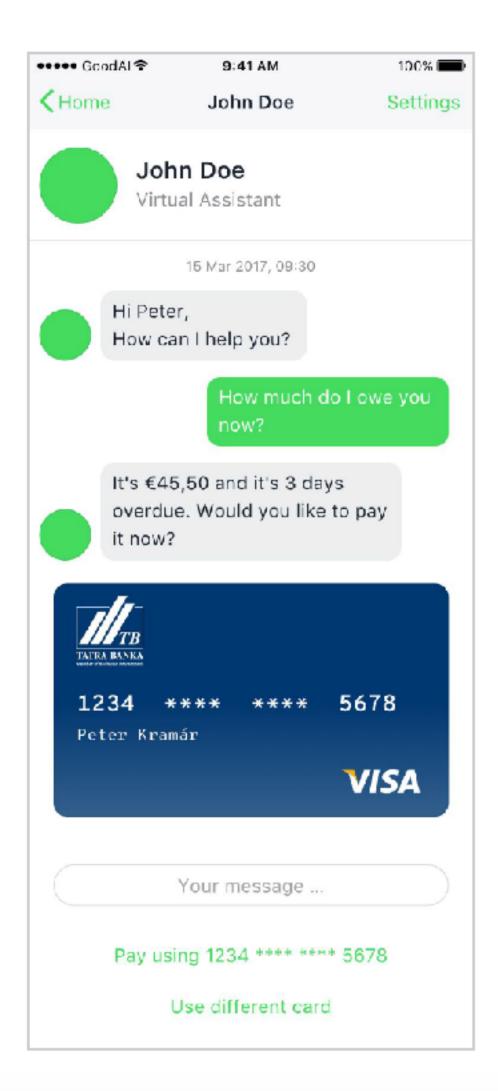
Help to automate fraud prevention processes/ collect information

Push relevant content to end users and analyze user engagement

Makes brand identity more consistent:one voice, one message, one tone for each client.

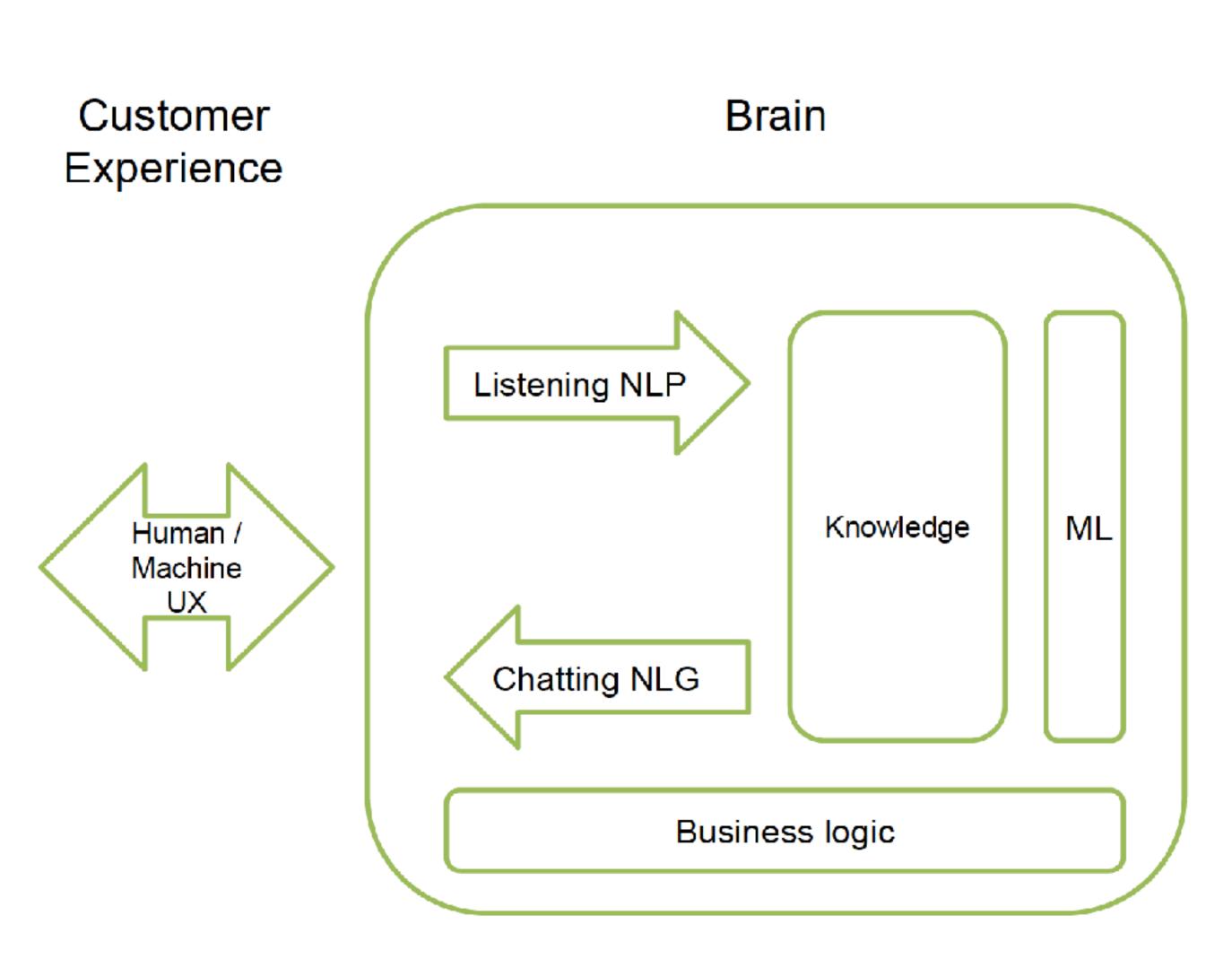
Run smoothly during peak traffic times, -> resulting a great user experience

JPMorgan, Bank of America, Citibank, Capital One & many startups building banking bots



Channels







RESULTS

BNY Mellon implementation of chatbots led to the following results:

- 100 percent accuracy in account-closure validations across five systems
- 88 percent improvement in processing time
- 66 percent improvement in trade entry turnaround time
- ¼-second robotic reconciliation of a failed trade vs. 5-10 minutes by a human
- \$300.000 savings due to fund transferring bots

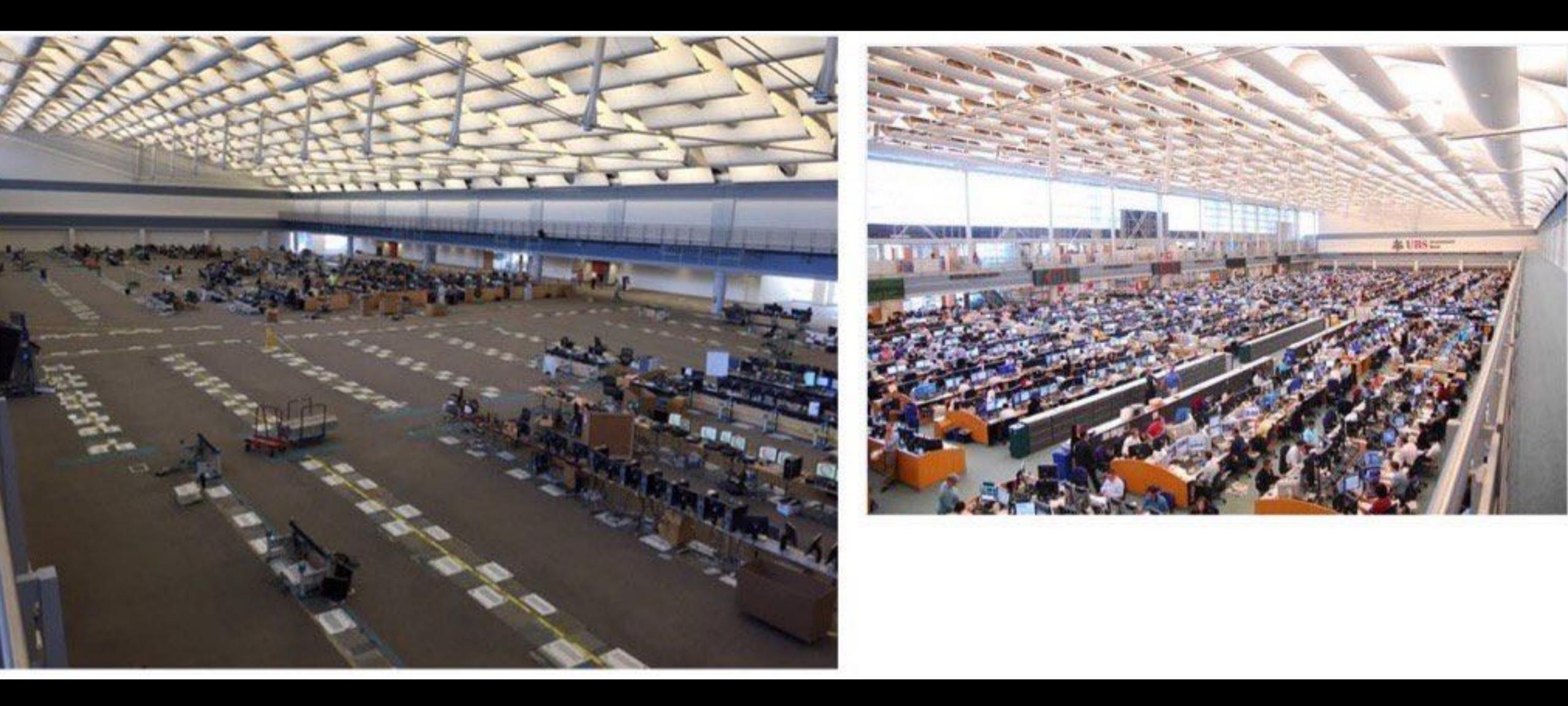
ROBO TRADING

"At its height back in 2000, the U.S. cash equities trading desk at Goldman Sachs's New York headquarters employed 600 traders, buying and selling stock on the orders of the investment bank's large clients. Today there are just two equity traders left"

Across Goldman Sachs, over 30% of staff are now computer engineers.

JP morgan hired "global head of machine learning" for same direction





How would you apply Al

Use existing platforms, Amazon, Watson, Microsoft Azure etc

External technologies, developers, startups -> W.UP

In-house machine learning division -> US bank/BoA

Acceleration & Incubation programs -> Wells Fargo, MKB

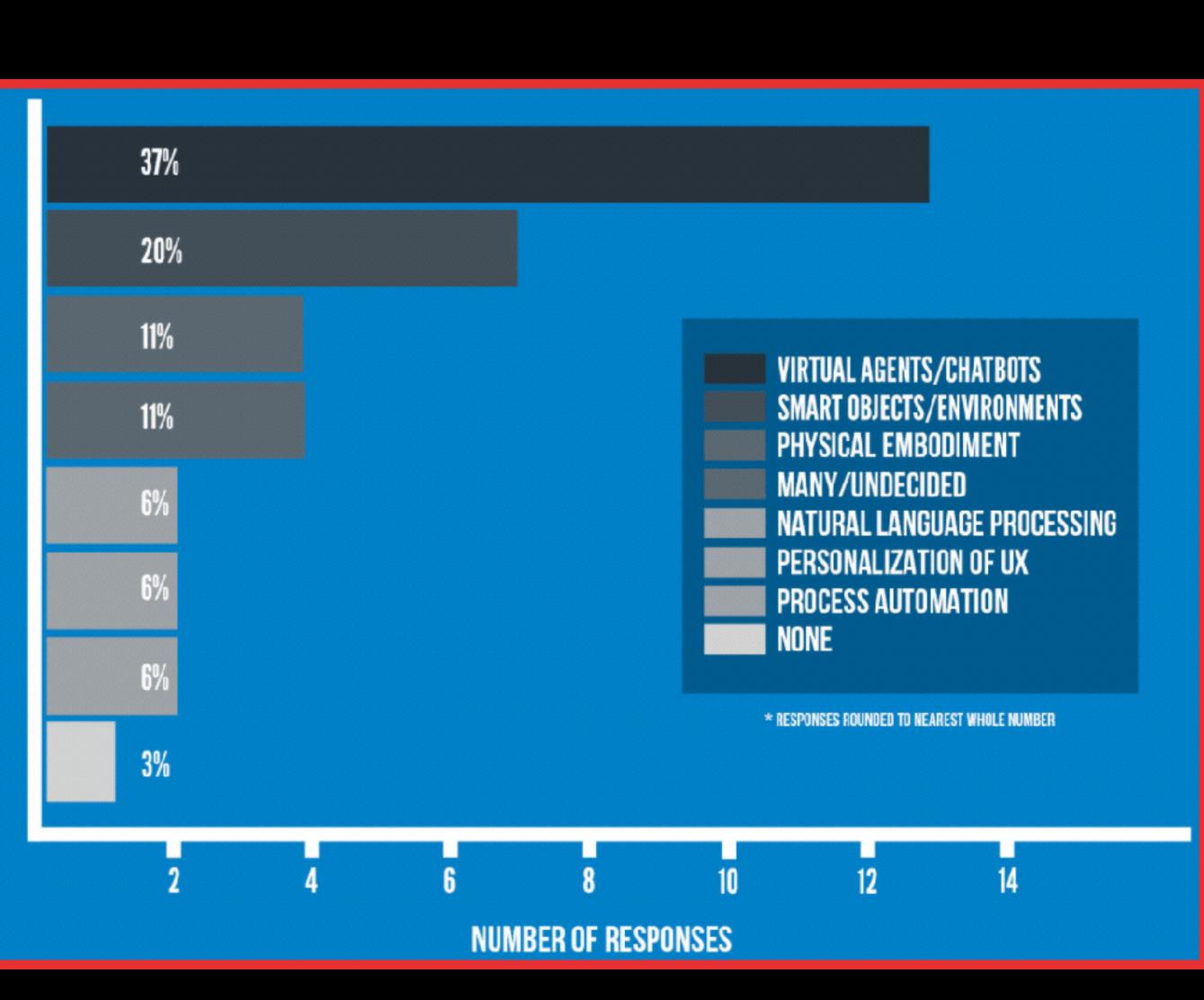
KEY TAKE AWAYS

• Al is going to transform the banking industry

- Technology is hyped up, keep your heads cool
- Many applicable areas, with many upcoming • use cases
- **Clean Data necessary** •

 Applying AI in financial industry may be the only way to tackle the challenges in the future

AI & Blockchain should be on the top list of



QUESTIONS?

REMCO VEENENBERG

WWW.BUDAPEST.AI

REMCO@BUDAPEST.AI TEL: +36707052844

