

### Looking Ahead

Forces shaping banking over the next decade

jack henry<sup>™</sup> | strategy



### Where we are...

# financial fragmentation

## Americans' Shadow Financial Lives: Why Banks Don't Know Jack (Or Jill)

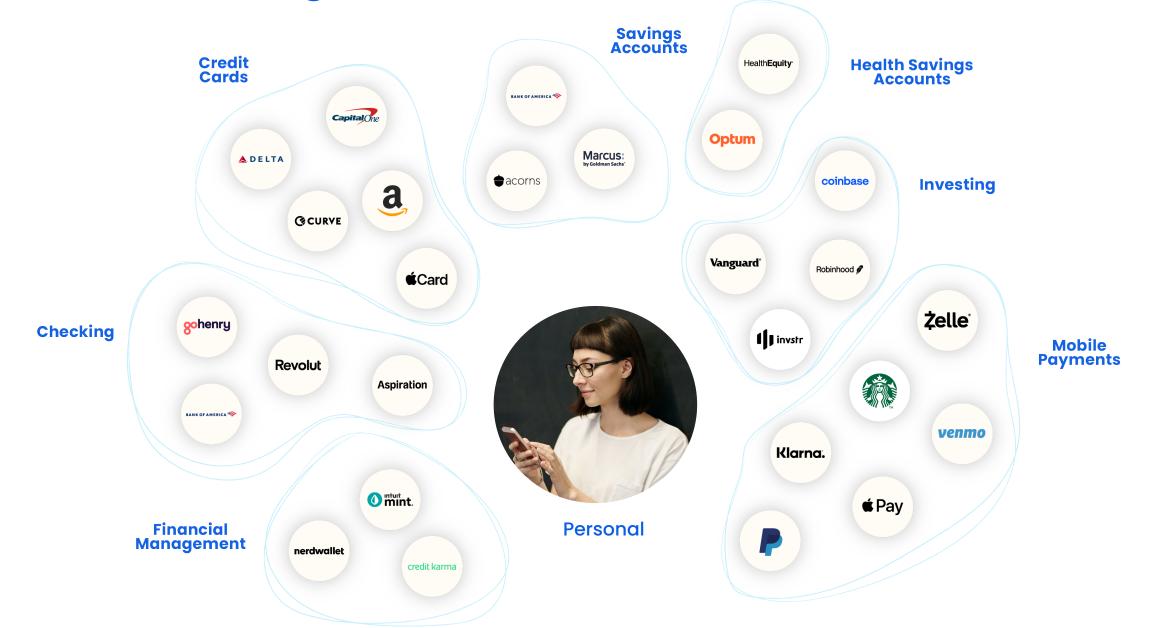


Ron Shevlin Senior Contributor ①
Fintech
Observations from the Fintech Snark Tank

**Forbes** 

"Overall, it's not uncommon for a Gen Z or Millennial couple to do business with 30 to 40 financial providers. In our quest for more convenience in our financial lives, our financial lives have become more complex to manage."

#### financial fragmentation - consumer



Nonbanks provide 52% of financial relationships for all consumers

**65%** Gen Y (1981-1996) **69%** Gen Z (1997+)

52%

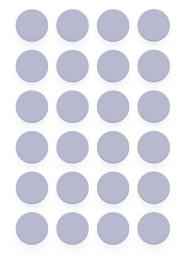
Gen X (1965-1980)

**19%**Silent Generation (1928-1945)

**23%**Baby Boomers (1946-1964)

Nonbank Relationships by Generation

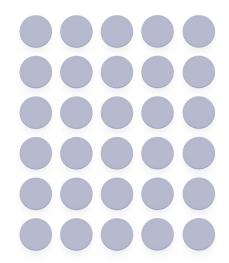
20-30 financial relationships





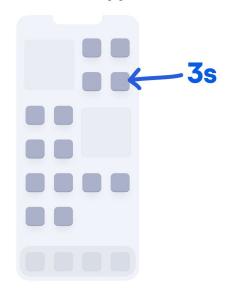
Average person

30-40 financial relationships





14 financial apps





Average person



venmo

**Zelle** CHUCK™

popmoney 5 DWOLLA

ACH



**€** Рау сниск™

FACEBOOK Pay venmo Cards







S Cash App





P PayPal

Cash App **venmo** 

Closed Loop



Rails

Leverage ACH and Card rails for bank transactions

**‡elle RTP** 

Faster Payments



Rails











Distributed Ledger



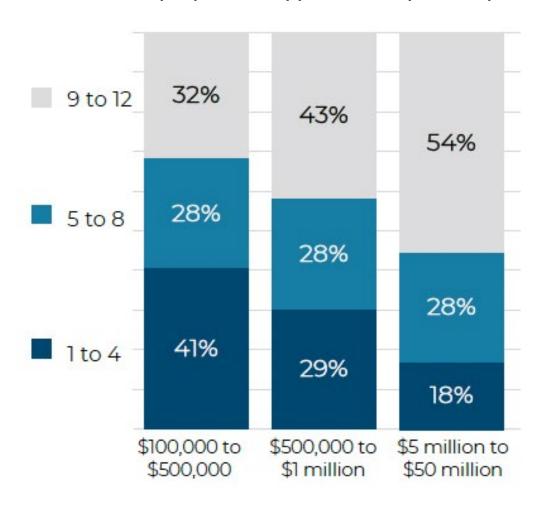


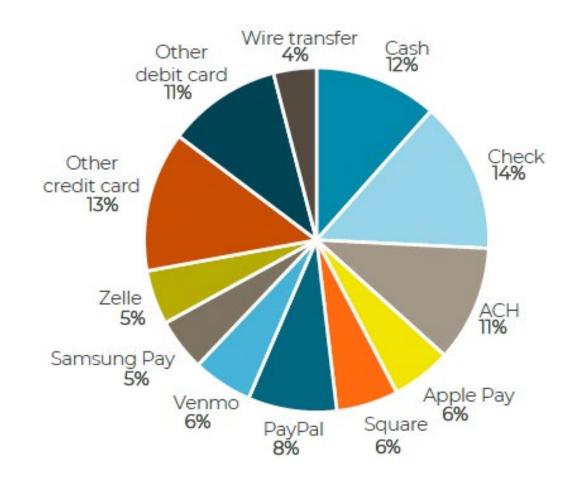




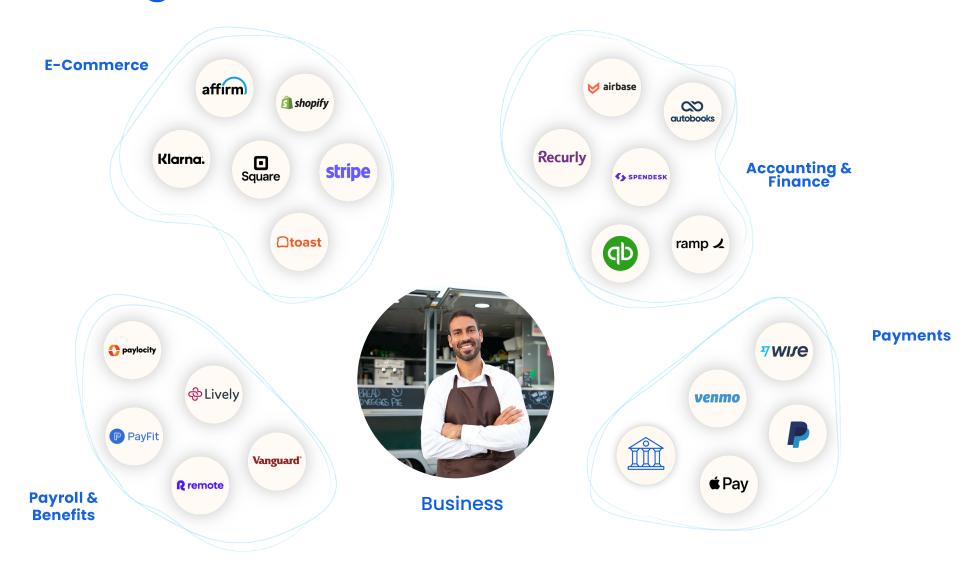
#### payments complexity creates headaches for SMBs

Number of payment types accepted by companies per revenue size; aggregate market





#### • financial fragmentation – small business



#### Industry disruption vs. ecosystem disruption

NOTE: Our industry is undergoing both classic disruption and ecosystem disruption simultaneously.

#### **Industry disruption**

AKA "classic disruption", The 'attack-from-below' model of competition highlights substitute threats, presented by entrants who use a different technology supported by lower costs and prices.

Ron Adner, Winning the Right Game

#### **Ecosystem disruption**

The interaction and fallout that occurs when the introduction of a new value proposition impacts competition across industries, erasing boundaries, changing the rules and overturning structure.

Ron Adner, Winning the Right Game

## WINNING THE RIGHT GAME

HOW TO DISRUPT,
DEFEND, AND DELIVER
IN A CHANGING WORLD

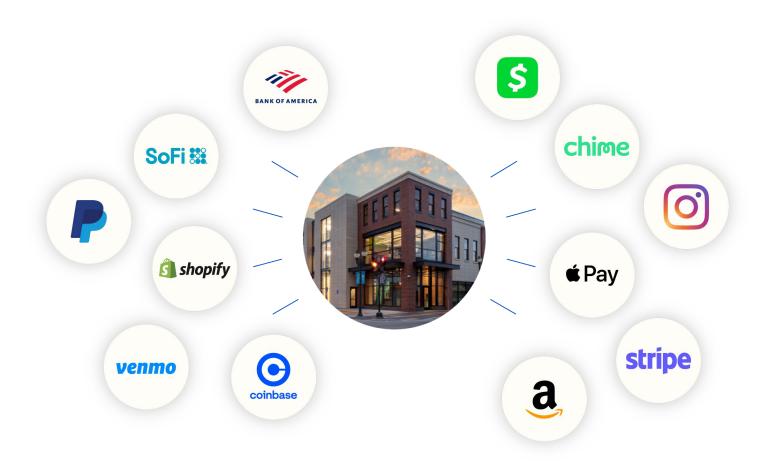
#### **RON ADNER**



"One of our most important strategic thinkers for the twenty-first century."

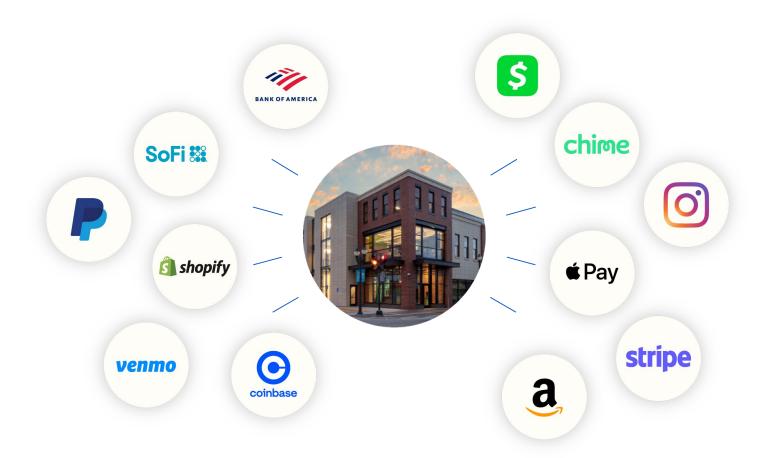
—JIM COLLINS





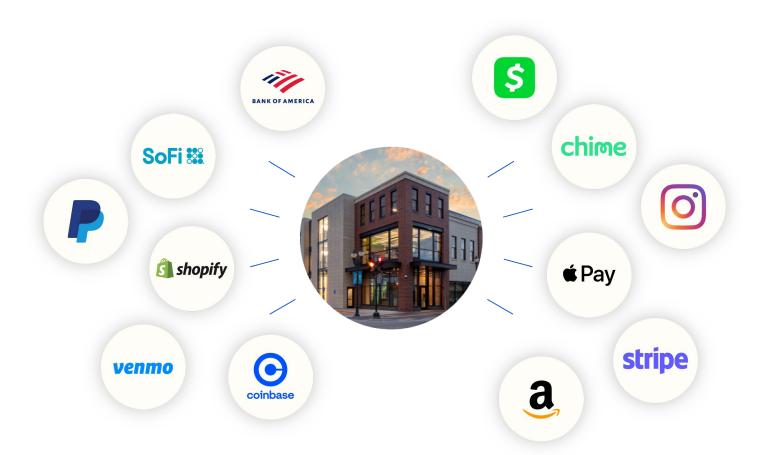
\$250B in payments dollar volume was siphoned away from incumbent financial institutions in 2020.

Cornerstone Advisors



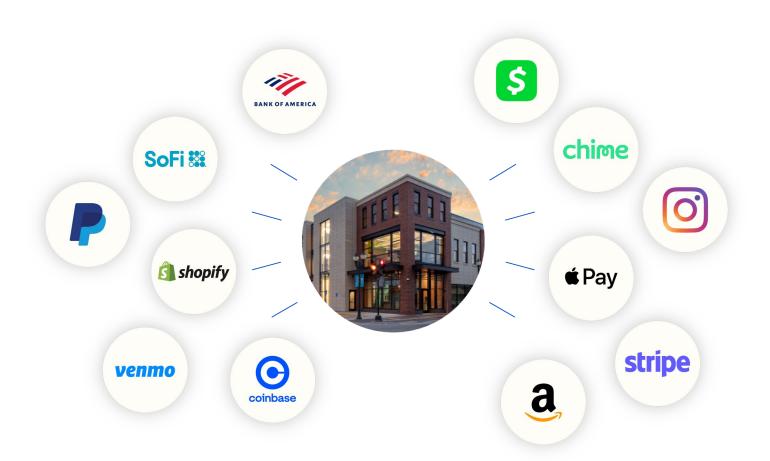
Square provides payment processing for more merchant outlets than Chase, Wells Fargo, Bank of America, Citi Bank and PNC... combined!

Nilson Report, March 2020



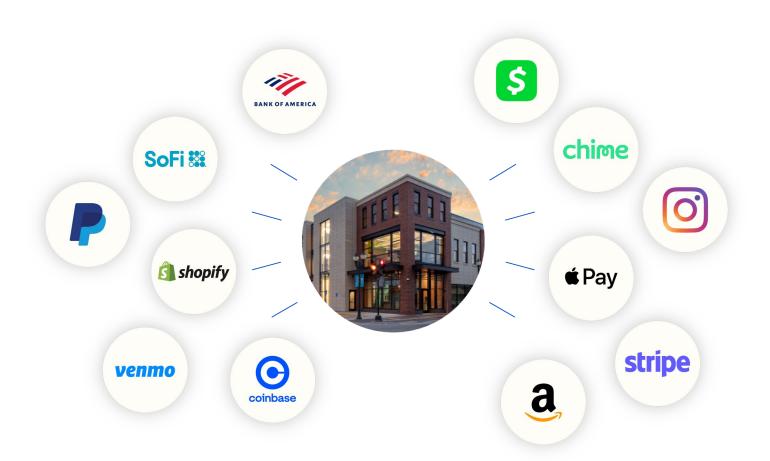
While banks provide merchant services to 2-4% of their commercial DDAs, fintechs service 30-40% of banks' commercial DDAs.

Autobooks analysis



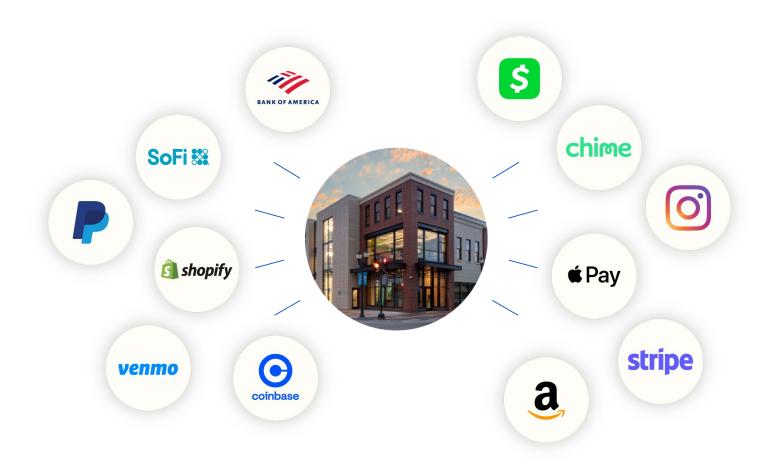
## 19% of FIs' businesses use competitor payment processors.

Segmint analysis



Between 13% and 35% of average FI's consumer accounts are actually small businesses.

Segmint analysis



## Nearly 80% of Fls' small business revenue is at risk.

Oliver Wyman

## How did we get here?

#### **PAST TODAY FUTURE** On-premise Banking "as a service" Banking **primitives** "as a service" User Interface User Interface Fraud Fraud OFAC Regulatory Regulatory FIRE Metro2 Data Data Wires ACH **Payments Payments RTP** Core Systems Core Systems Ledger License License Visa Master card TCH FedLine

# Baas vs. open banking

#### BaaS vs. open banking

#### Understanding the terminology

#### Banking-as-a-Service

A bank allows third-party partner brands to use their charter to embed financial services in their customer experience. Partnering with 3rd parties to deliver more complete account-like experiences (For example, Bancorp, Meta Bank, Sutton, Evolve, powering neobanks, and brands like Square).

#### Open banking

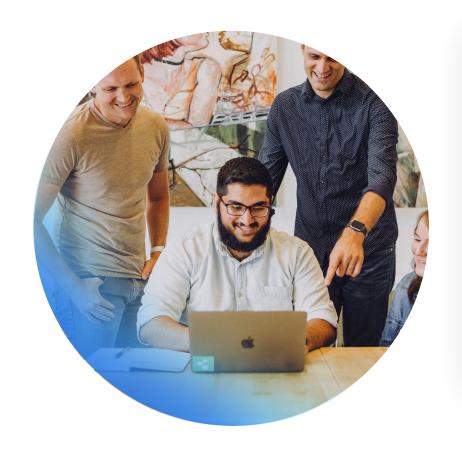
Bank-held data or payments that are initiated by a 3rd party on behalf of your customer (often related to checking products). They are usually, but not exclusively, delivered via API. They do not have to be a regulated activity (but they are in Europe)

#### Consumers already rely on open banking



Many consumers already share data across multiple third parties to manage their finances: merchant apps, P2P apps, PFM apps, digital wallets, crypto exchanges, neobanks, and roboadvisors.

#### The opportunity for financial institutions



Open banking is a blue-ocean opportunity for community financial institutions—to become home base, first app, and/or first wallet. And it's completely consistent with the ethos of community banking and the credit union movement.

#### Open banking considerations



- Customer experience
- Data holding and sharing
- Data requesting and ingesting
- Privacy and security
- Partnerships and third-party access

#### open banking: U.S. vs. Europe

#### Open banking by the numbers

#### **United States**

**200M** 

Bank accounts connected to SEP Plaid alone

**3X** 

Fintech apps on a consumer's phone on average

#### **Europe**

**60M** 

Bank accounts connected to regulated Open Banking 30+

Different providers across all markets

11:FS, DoJ filling, Plaid 2020 Fintech Effect Report, Statista

#### The regulators are coming...

#### Section 1033

Section 1033 of Dodd Frank "requires covered financial services providers to make available to a consumer, upon request, information in the financial services provider's control concerning the consumer financial product or service obtained by the consumer."

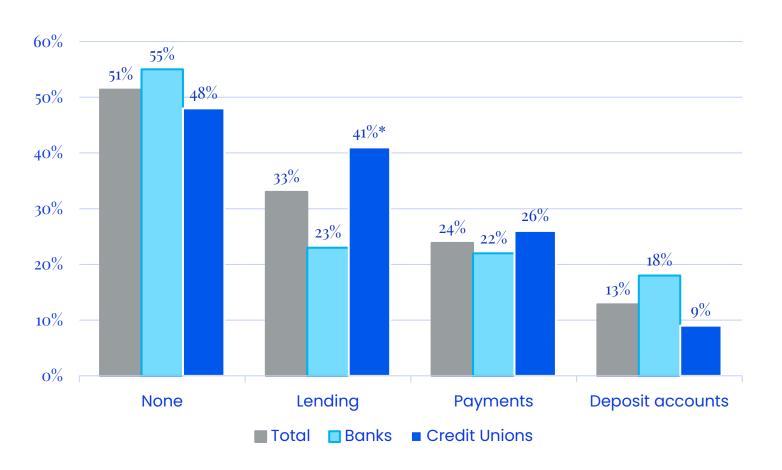
#### The regulators are coming...

## CFPB Advanced Notice of Proposed Rulemaking

1033 has entered public comment, and is much broader than European regulations. It's focused only on account data, but involves any financial product (credit or debit).

#### 55% of banks plan to embed into non-bank brands

"Select which of your financial services you plan to embed into non-bank brands over the next 2 years."



More credit unions (41%\*) plan to embed lending compared to banks.

## what to do

## Plumb into open banking in the U.S...







## Eliminate inbound screen-scraping...

#### screen scraping sucks

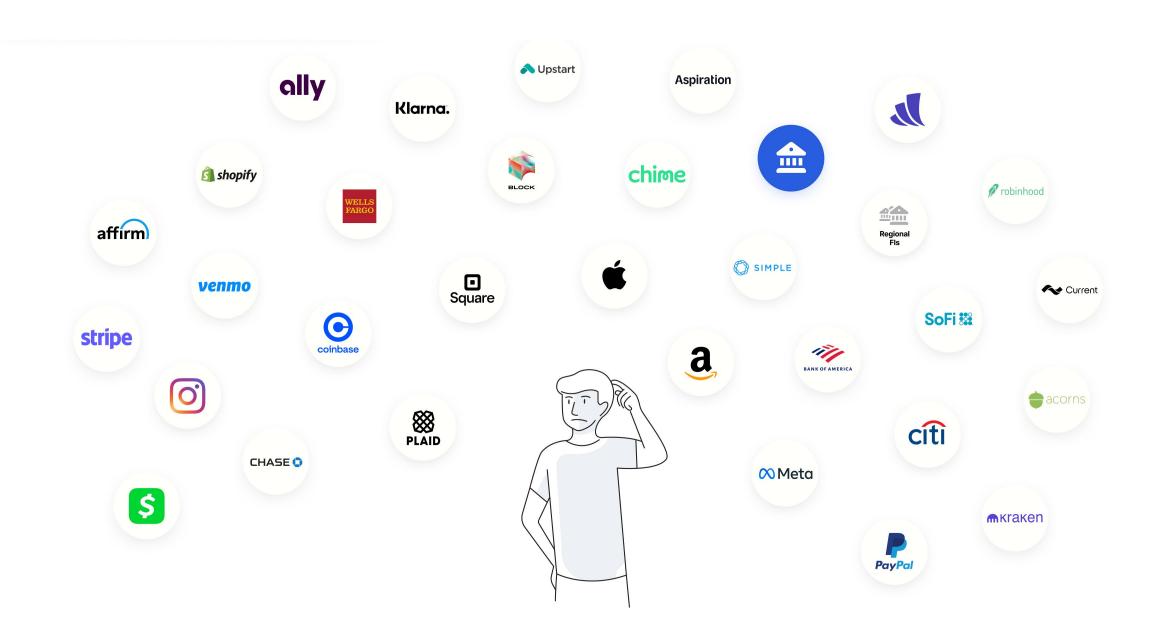
#### **Rule of Thirds:**

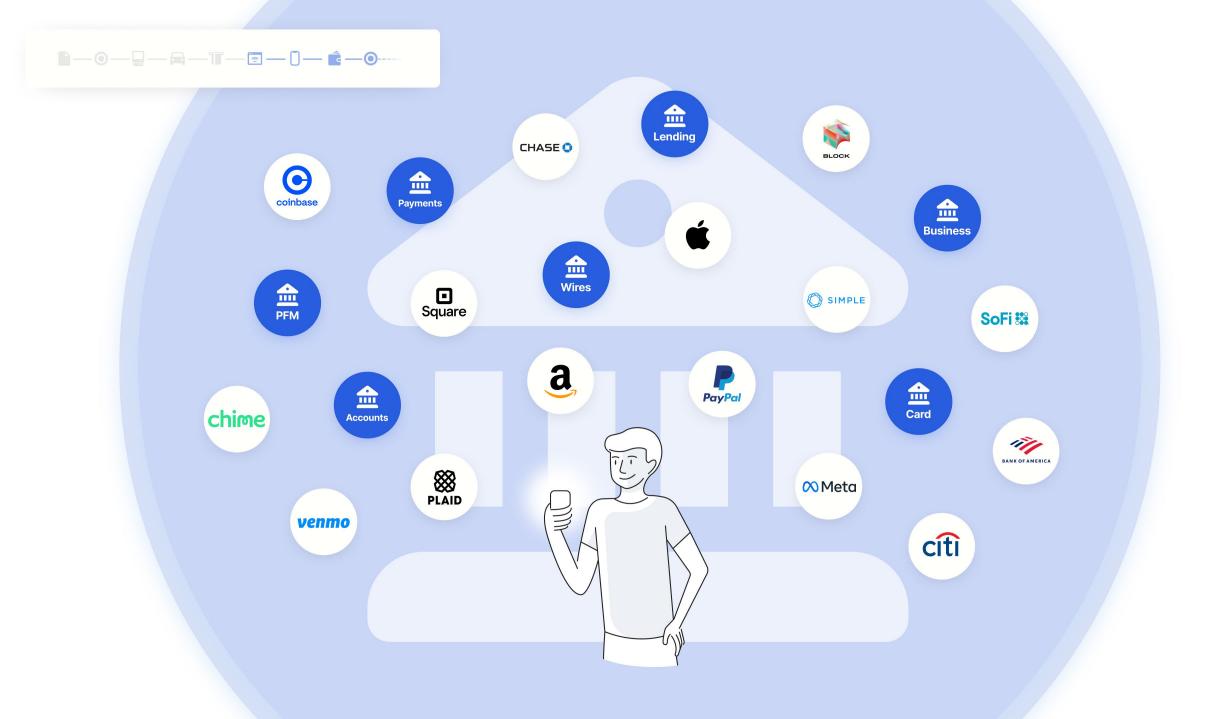
- Approximately 1/3 of financial accountholders share their financial data with 3<sup>rd</sup> parties.<sup>1</sup>
- That means that at least 100M consumers are sharing their financial data in the US...and Plaid alone is exchanging data between 200M accounts in the U.S.

#### On average<sup>1,2</sup> banks' online traffic is:

- 1/3 malicious automation (bots and harvesters)
- 1/3 benign automation (aggregators and apps)
- 1/3 human

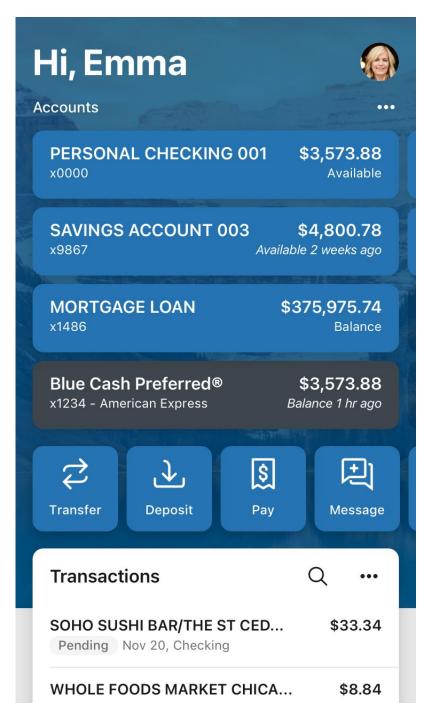
## Solve fragmentation...

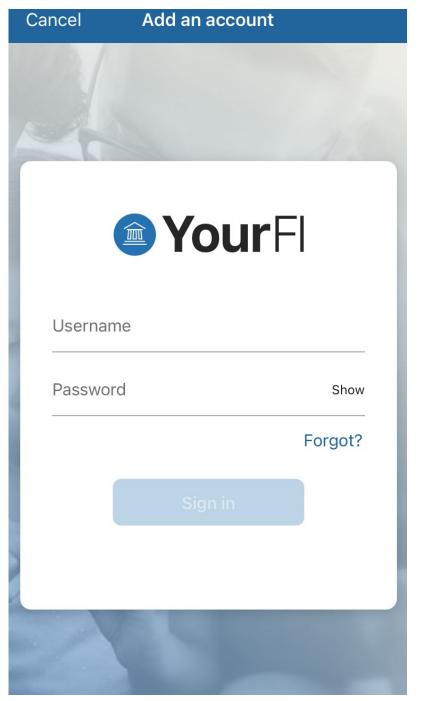


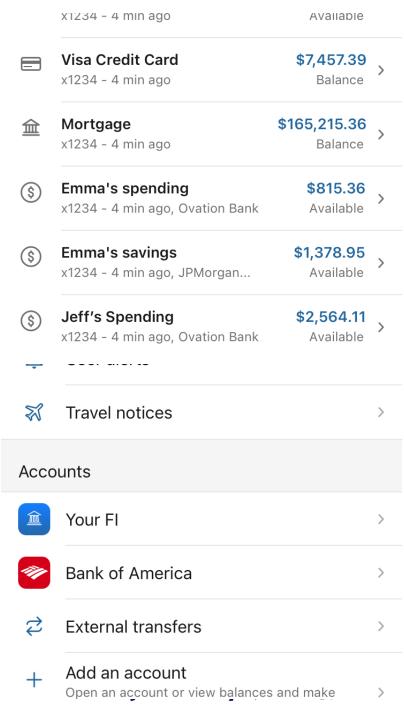




# Consolidate, categorize, enrich transaction data that you bring home...



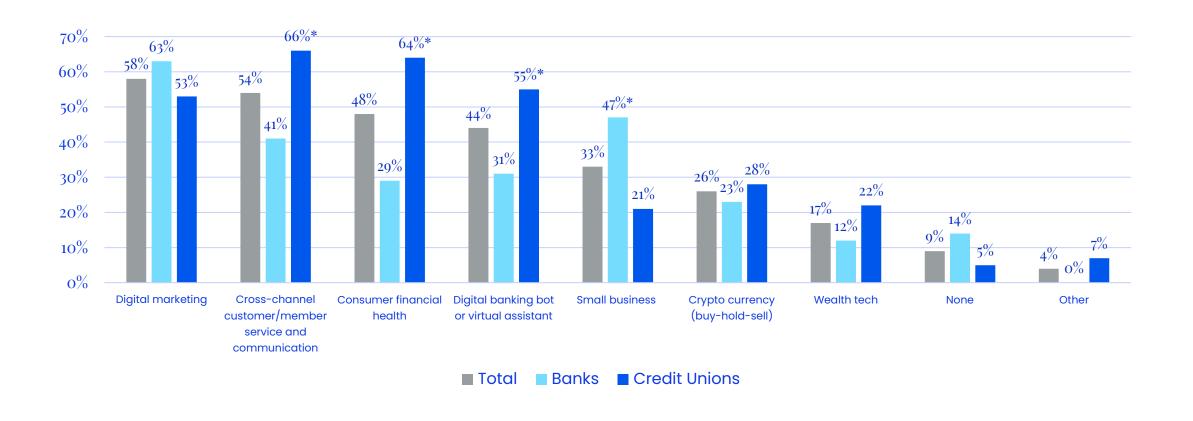




## Embed the right fintech(s)...

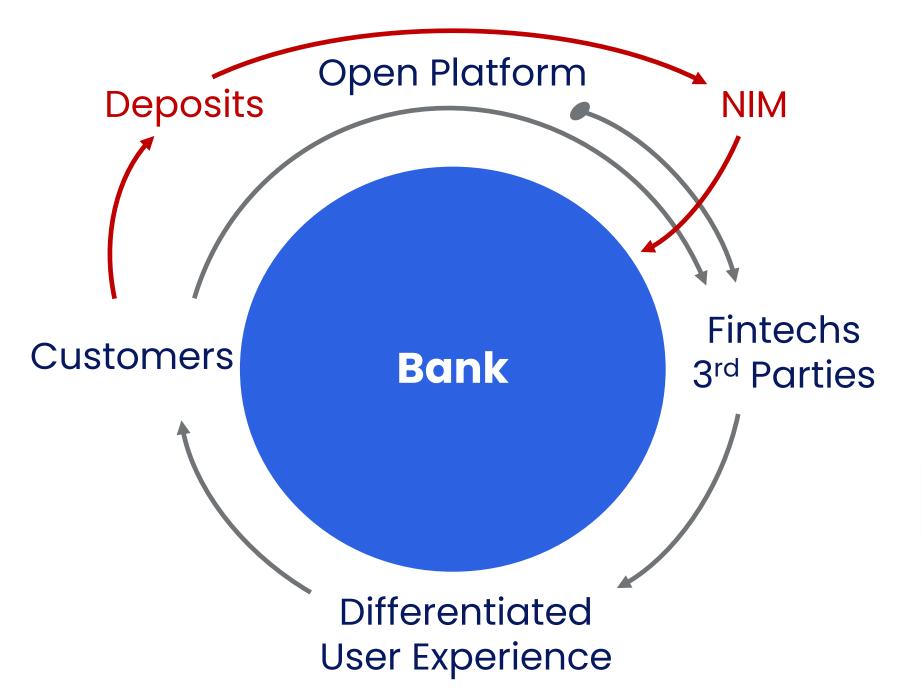
### 90% of banks plan to embed fintech in digital

"Select all types of fintech you plan to embed in your digital banking experience over the next 2 years."



enable your embedded fintech strategy

"The integration of fintech products and services into financial institutions' product sets, websites, mobile apps, and business processes."







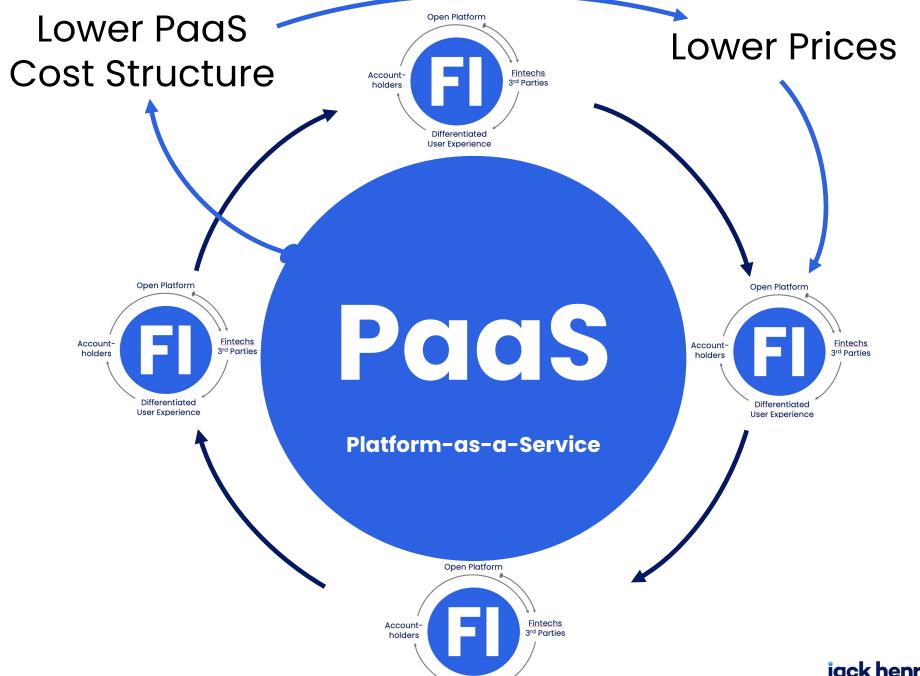








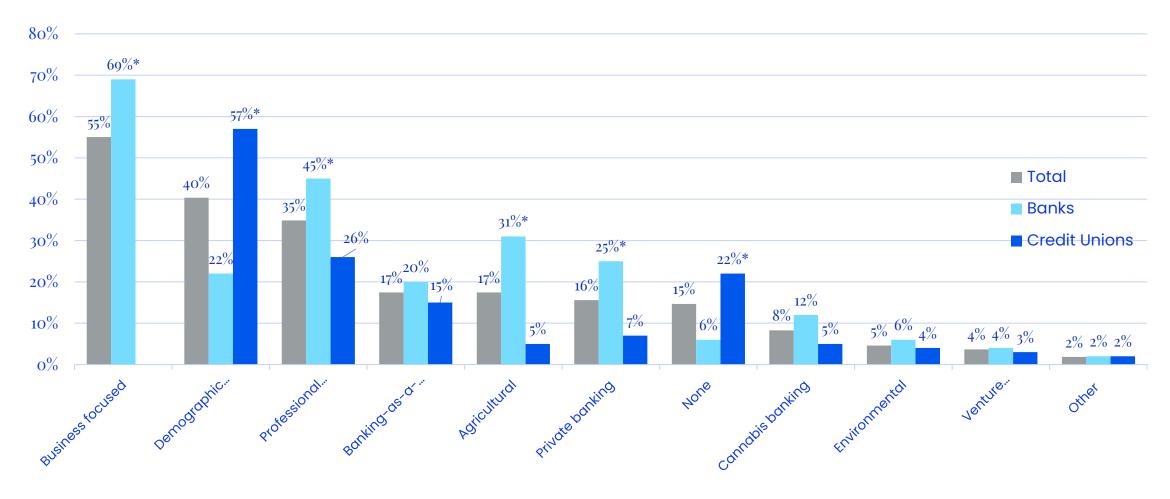




User Experience

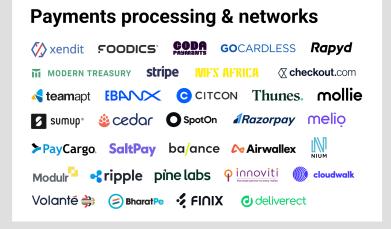
## Pursue a niche...

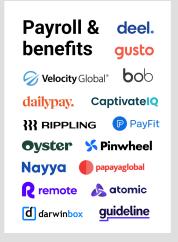
## niche strategies: banks vs. CUs

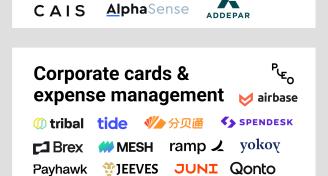


Map (sub) niches to proven fintechs that have the specific innovations, features, and services that would bring unique value to the bank's targeted segments/ prospects.

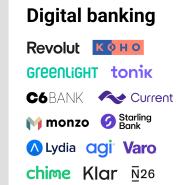






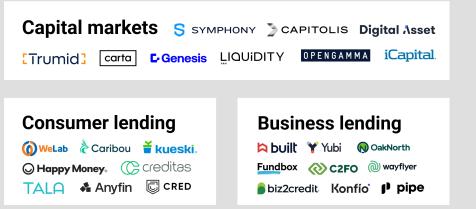


**Asset management** 

















## Financial services automation

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unqork hyperscience
%earnix

### Fraud prevention & compliance





### vetting for high-grade fintechs





Identification of highest-grade fintechs for targeted integration, partnership and acquisition



Quarterly reports identifying key fintech trends, growth and funding





Annual survey of fintechs to track how fintechs experience Jack Henry



Sponsor *Experience FinXTech* and *Acquire or Be Acquired* conferences



Quarterly tracking of fintechs partnering successfully with FIs



Annual fintech Pitch Day of most strategic, vetted fintechs

#### Accounting & Finance brightflag #1003st tipalti Chargebee Khatabook STAMPLI autobooks SAGICAP Clear pilot SETTLE ♥ Pennylane □avidxchange ○highradius Ze∩oti

#### **Capital Markets**



#### Personal Finance



#### POS & Consumer Lending



#### Real Estate & Mortgage



#### Retail Investing & Secondary Markets → Webull atom



#### **Payroll & Benefits**



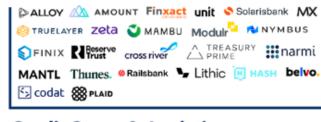
#### Asset Management





#### Payments Processing & Networks +Bolt @cedar mollie





Financial Services & Automation

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Core Banking & Infrastructure

#### Credit Score & Analytics



#### Insurance



#### **Business Lending & Finance**



#### Cryptocurrency



#### **General Lending & Marketplaces**

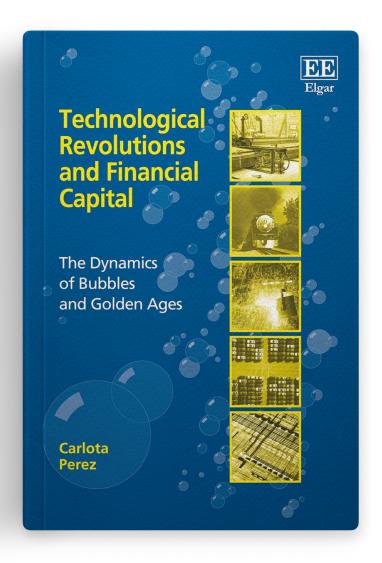


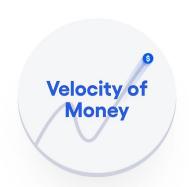
Note: Companies are private as of 9/14/21. Created by You. Powered by questions framing the future for banks

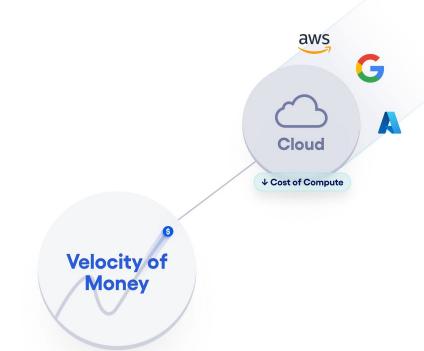
- 1. How will you secure first-app status?
- 2. What is your open strategy?
- 3. What is your real-time (data/payments) strategy?
- 4. What is your embedded fintech strategy?

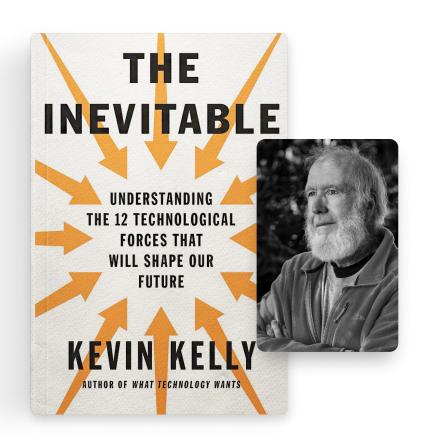
# the future

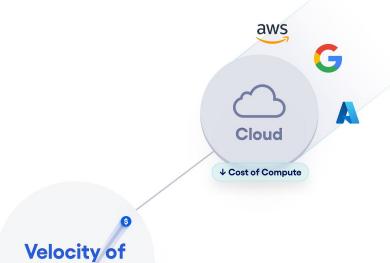
Technical revolutions are never due to one advancement—but a convergence of multiple advancements.



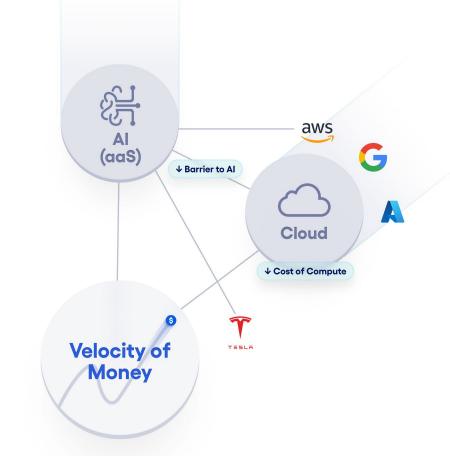


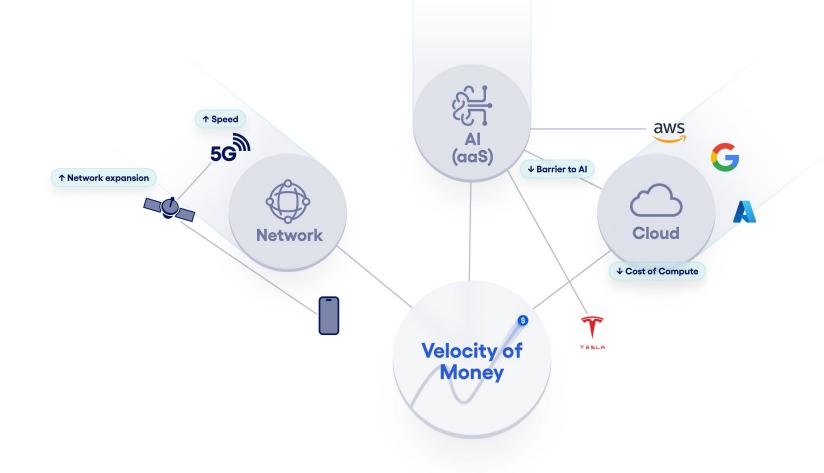


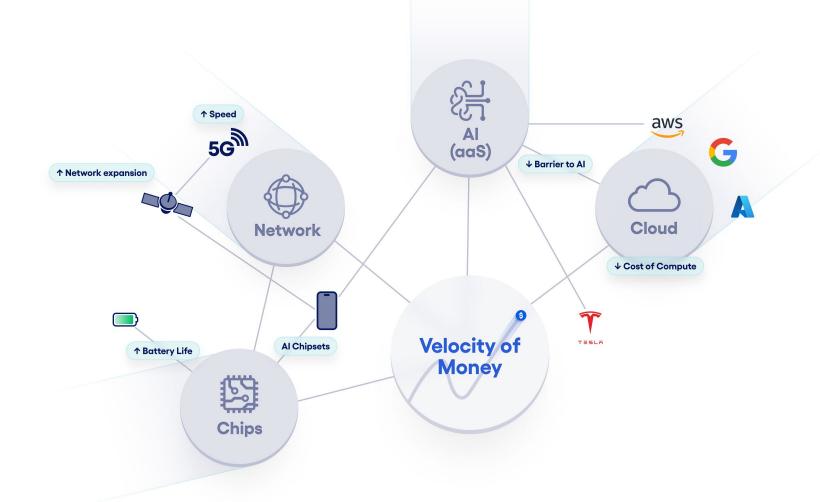


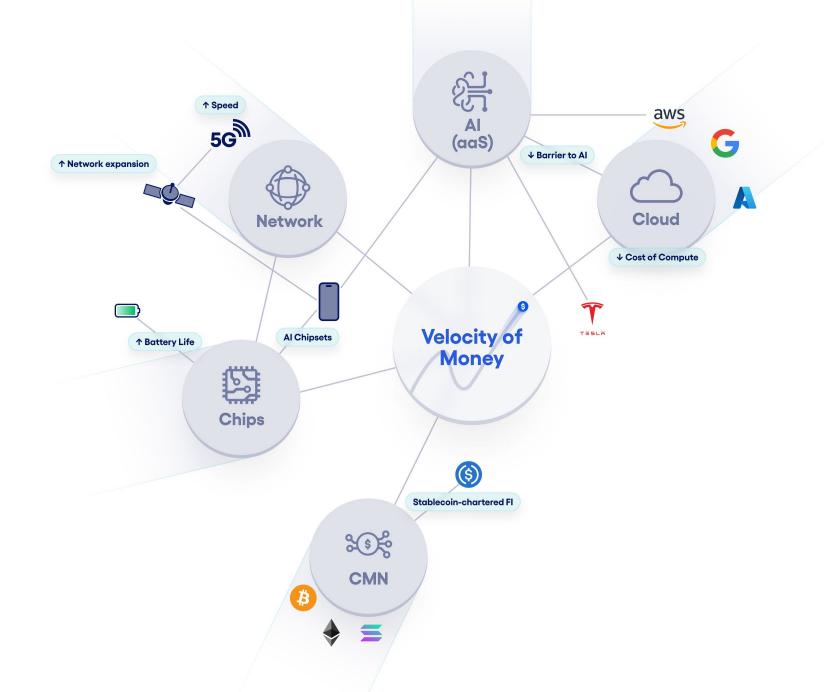


Money



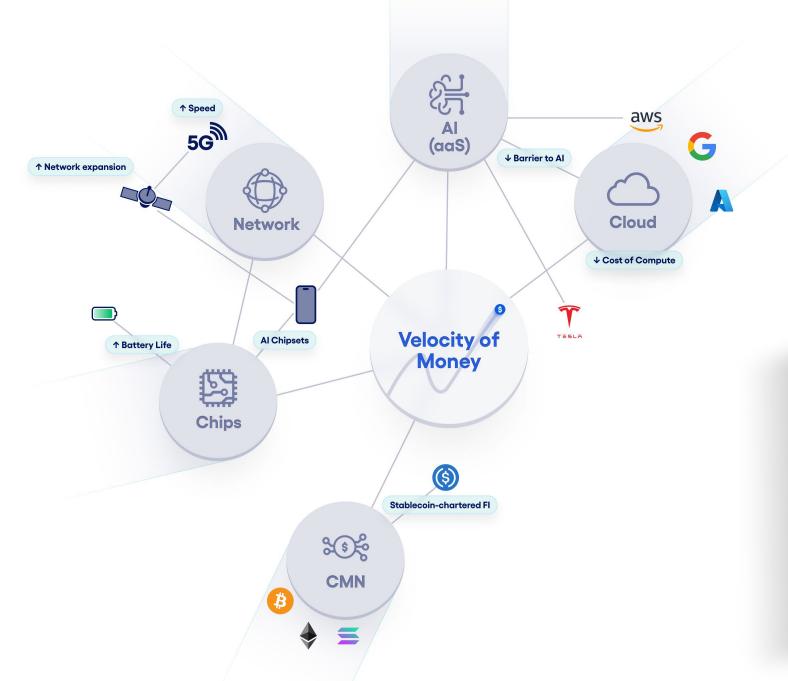


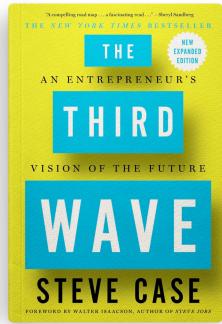


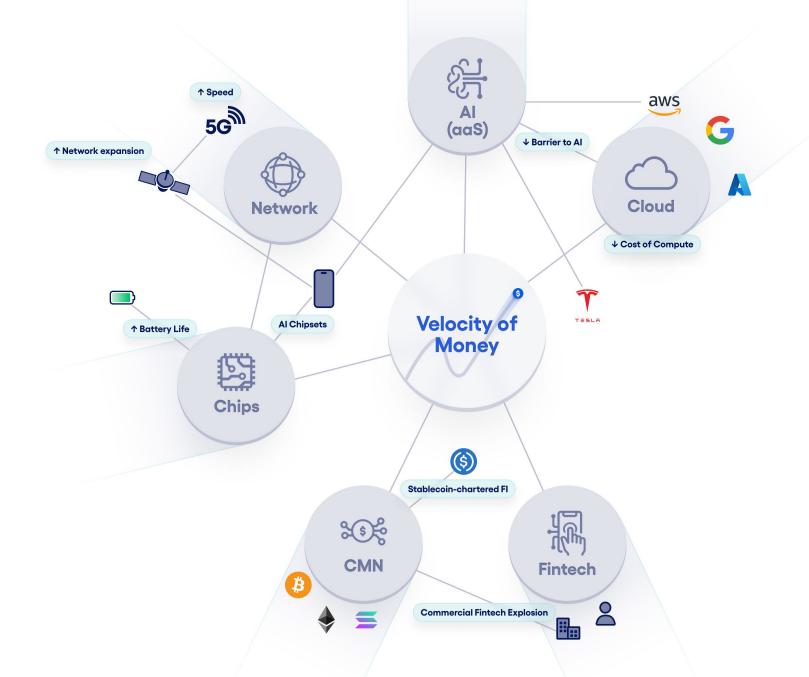


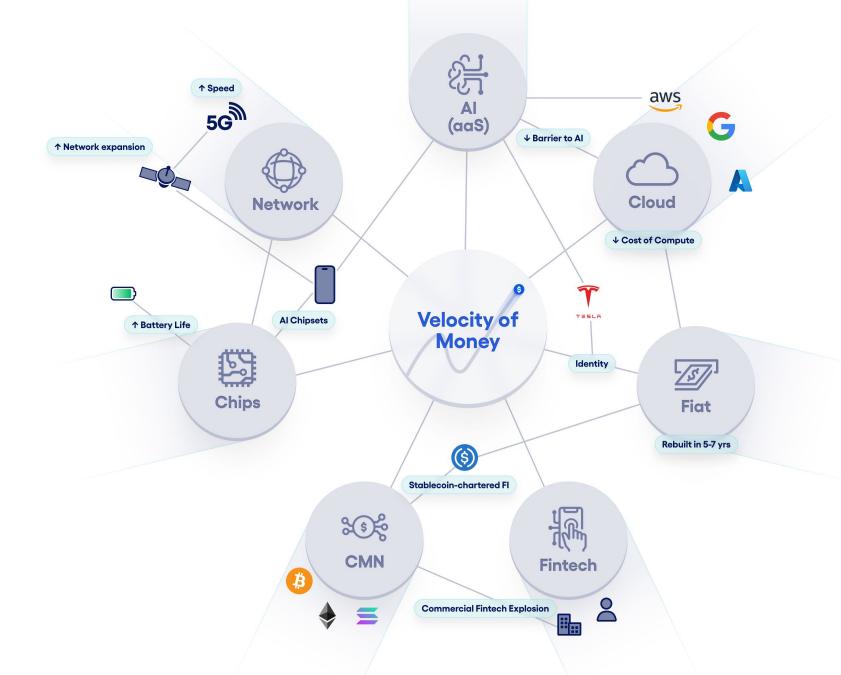
































## future-ready



Digitally centric

**Cloud-native** 

Open

Modular

Extendable

Web 3.0-enabled

### technology modernization

## The ideal platform ecosystem:

- Is open and relational
- Delivers platform-as-a-service (PaaS)
- Offers developer toolkits and open APIs
- Delivers ongoing and deep integration of capabilities
- Facilitates partnerships with the highest grade fintechs to solve your biggest problems...and enables embedding them quickly

## jack henry strategy