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More thoughts on \$FISV following investor day last week

This time focused on the newly named FinTech segment: core account processing and digital banking arm of legacy Fiserv

TLDR: While it's the smallest segment (~20% of FISV revenue), it's the "glue" that ties things together

1) \$FISV FinTech segment is the #1 provider of core processing and digital banking solutions to the ~11,000 banks and credit unions in the US

Its mission critical systems power 3,700 FIs:

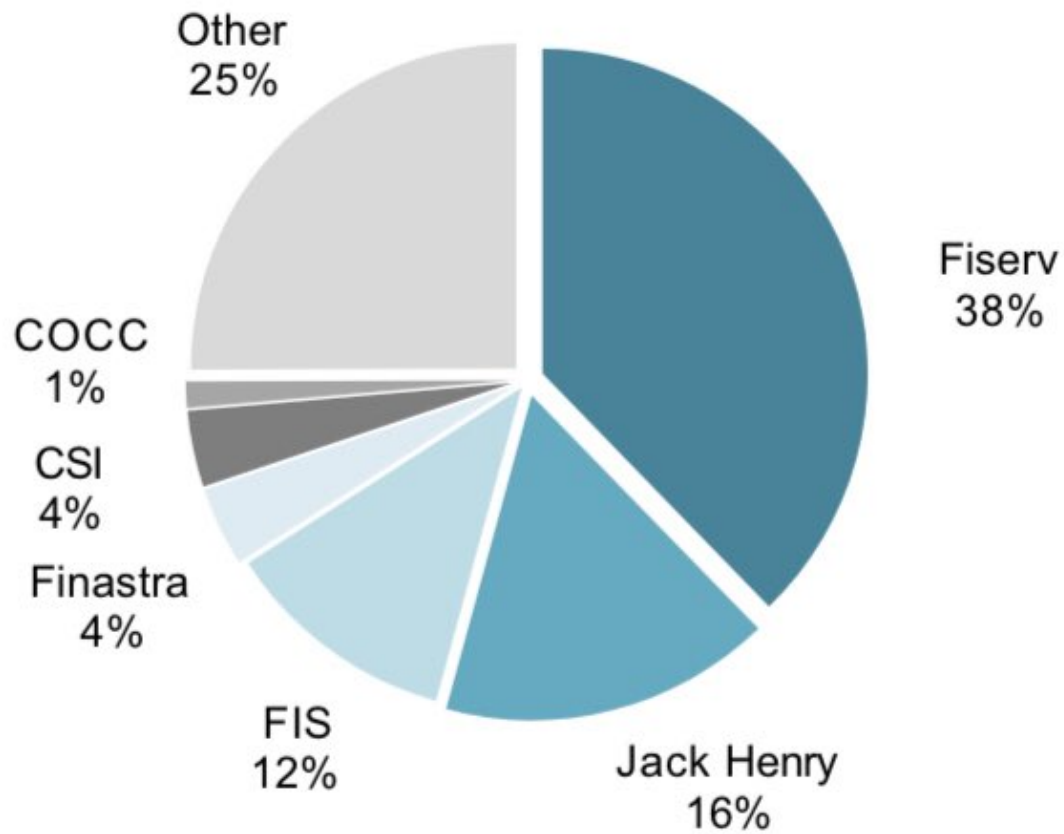
- core processor for 1 out of every 3 banks
- digital offering for 95 out of top 100 banks

Financial Technology



2) This segment dates back to the origins of FISV, and today it's the market share leader with nearly 40% of all US banks relying on FISV to power everything from new account opening, items processing, online/mobile banking, regulatory compliance, general ledger/reporting, etc

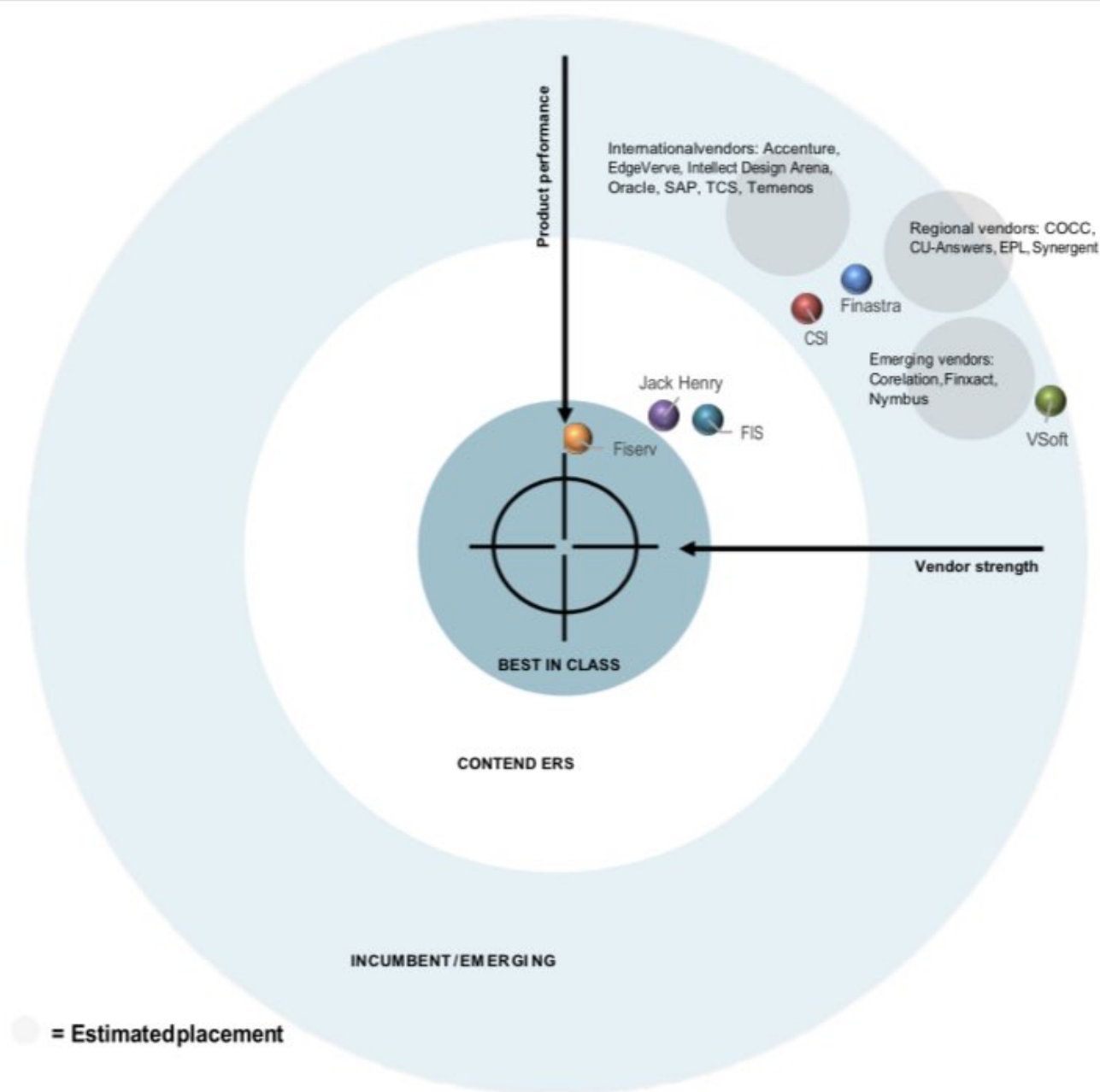
Estimated Vendor Market Share Among U.S. Financial Institutions (Total U.S. financial institutions at mid-2018=11,022)



3) Not just the market leader, \$FISV is also has a best-in-class offering

Well regarded Aite Group rates it better than nearest competitors \$FIS \$JKHY

Today, these 3 dominate the market and maintain an oligopoly structure, with various other point solutions pretty far behind

Figure 23: U.S. Core Banking AIM

Source: Vendors, Aite Group

BEST-IN-CLASS VENDOR: FISERV

This award is in recognition of a vendor's overall experience in the core banking market, including total client base, overall client growth, and recent successes. Fiserv leads the pack from a total-number-of-deployments standpoint. There are more than 4,000 financial institutions live on its various core banking offerings. Fiserv has the ability to meet many (or most) of a financial institution's technology and service needs. This is especially important to smaller institutions that look to their core providers to be their primary technology partners. Premier continues to represent the largest number of clients for Fiserv, and DNA continues to see great momentum in the credit union space.

4) \$FIS skews larger multinational banks (2x+ as many \$10B+ banks as FISV/JKHY combined) and \$JKHY is 1,700+ community/credit unions

However, the sweet spot for \$FISV is \$1-50B banks (now 500+ as clients) while also maintaining a strong base of 3,200+ community/credit unions

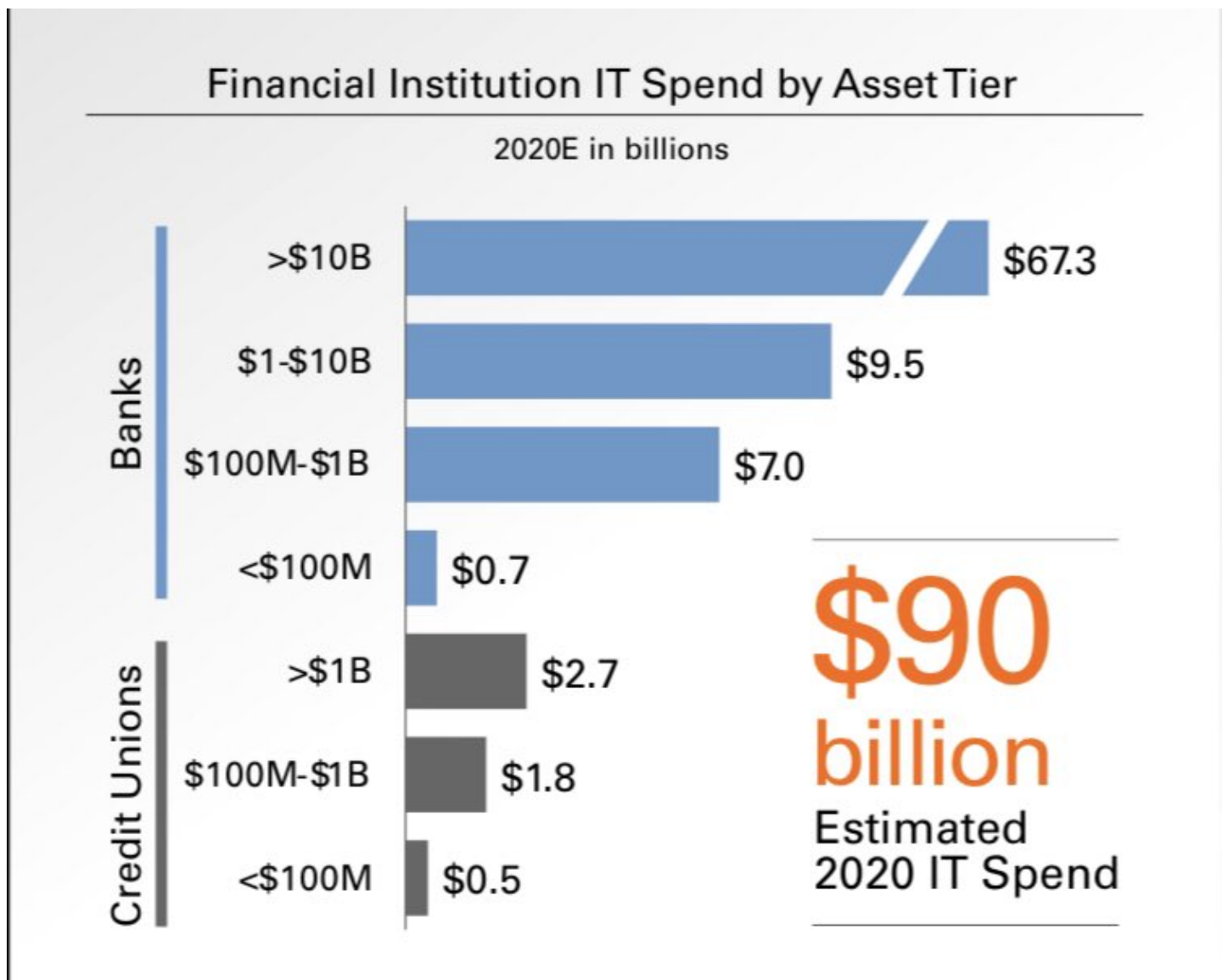
5) Why is this important?

Here's the US bank IT spend:

~135 Large banks (\$10B+) = \$67B annually (~\$500M budget each)

~1,000 Mid sized banks and large credit unions (\$1-10B) = \$12B (~\$10M budget each)

~10,000+ Small banks and credit unions (<\$1B) = \$8B (< \$1M budget each)



6) Segmentation matters

~135 large banks: a lot of IT spend is in-house. Any 3rd party systems are highly customized

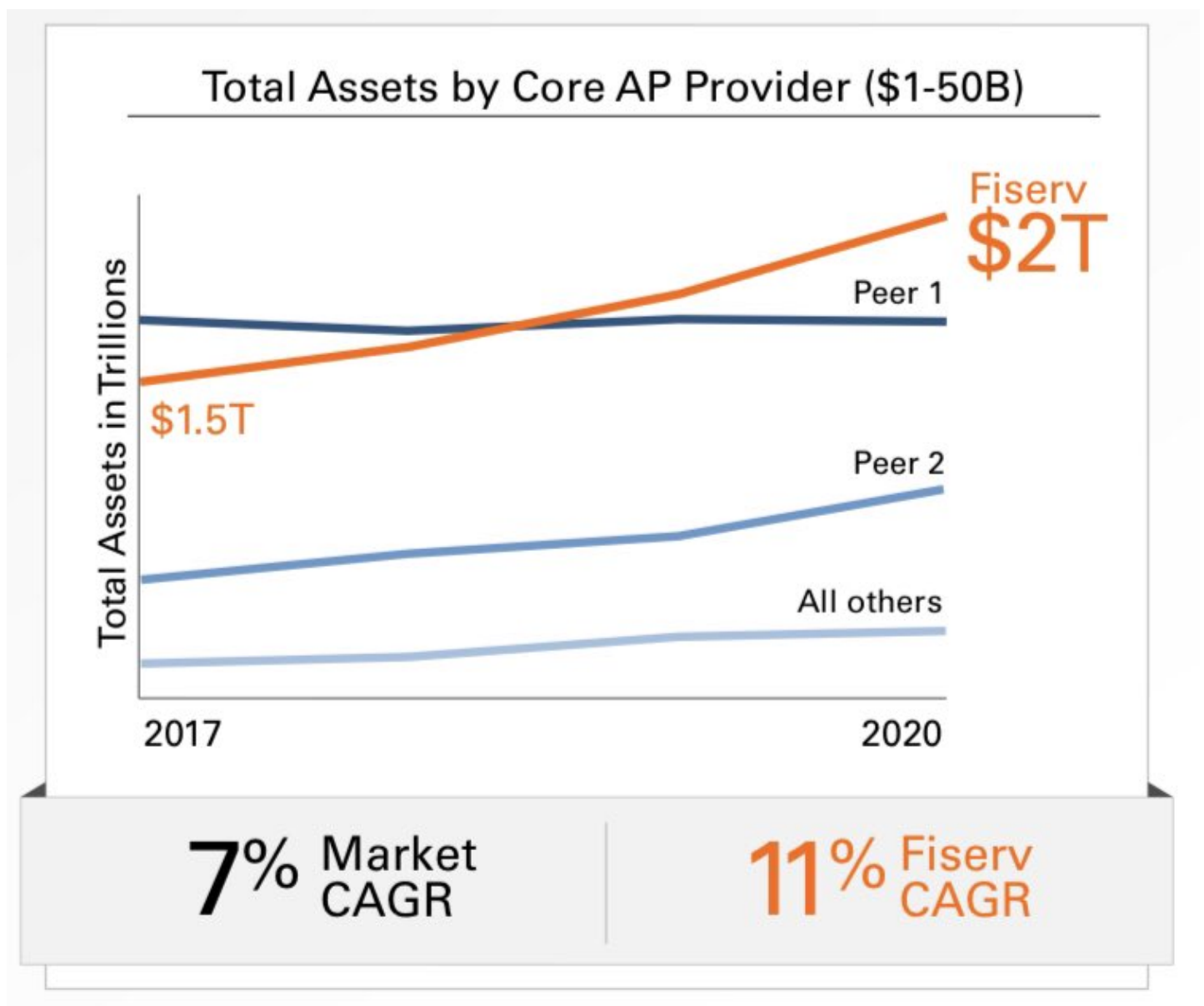
~1,000 mid-sized banks: need to keep up with larger banks but can't afford to do it themselves

~10,000 smallest banks: entirely reliant on their core processor

7) While \$FIS is elephant hunting the largest banks, \$FISV focuses on the attractive mid-market (\$1-50B banks) and is winning

Large banks often supplement in-house systems with multiple 3rd party vendors

Mid-sized banks look for integrated solutions, enabling FISV to cross sell



8) Even more than mid-sized banks, the ~10,000 small/community banks and credit unions with <\$1B in assets just simply don't have a choice but to rely 100% on the core processor

Many don't employ more than a handful of IT staff, so they outsource everything to \$FISV \$FIS \$JKHY

<https://t.co/p1i7uh7K94>

Here\u2019s some more of the same.

Not to trivialize the issue (unhappy customers never good), but entrenchment actually illustrates the deep moat that \$FISV, \$FIS, \$JKHY have established over the years.

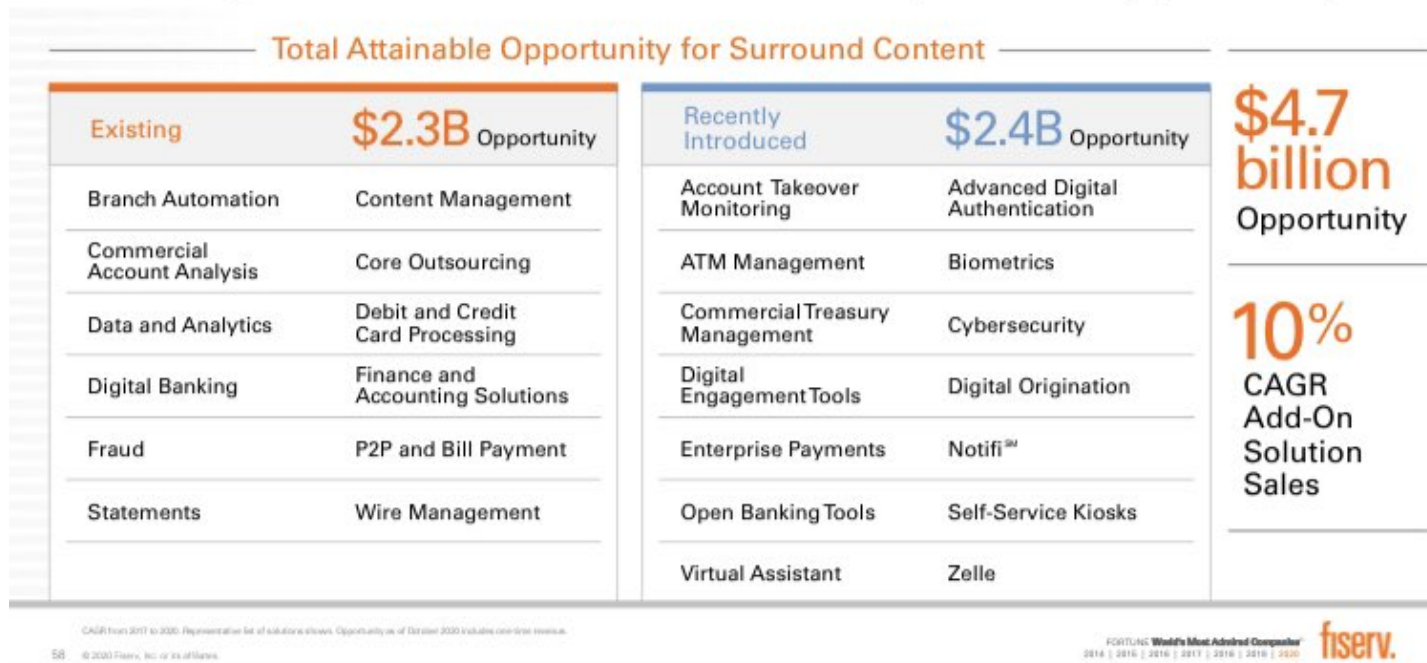
My thoughts and some context on this oligopoly:<https://t.co/Kttv2CSe6G>

— BlueToothDDS (@BlueToothDDS) October 27, 2019

9) \$FISV delivering “integrated value” to mid-and-small sized bank clients has been the hallmark of its strategy

With a foot in the door from core account processing, FISV expands its share of wallet with additional “surrounds” such as digital banking, P2P, bill pay, cards, etc

Advantaged Business Model Enables Expansive Opportunity



10) Some “surrounds” are internally developed, but many are acquired capabilities that \$FISV can immediately cross-selling into its ~4,000 bank core account processing installed base

This is why I view the FinTech segment as “glue” that ties the rest of the portfolio together

11) A good illustration of this is today’s announced acquisition of OnDot to add digital card controls

\$FISV was already a partner to OnDot but now owning this capability allows deeper integration and cross-sell, and therefore value capture vs status quo

<https://t.co/1rR0BfWhU6>

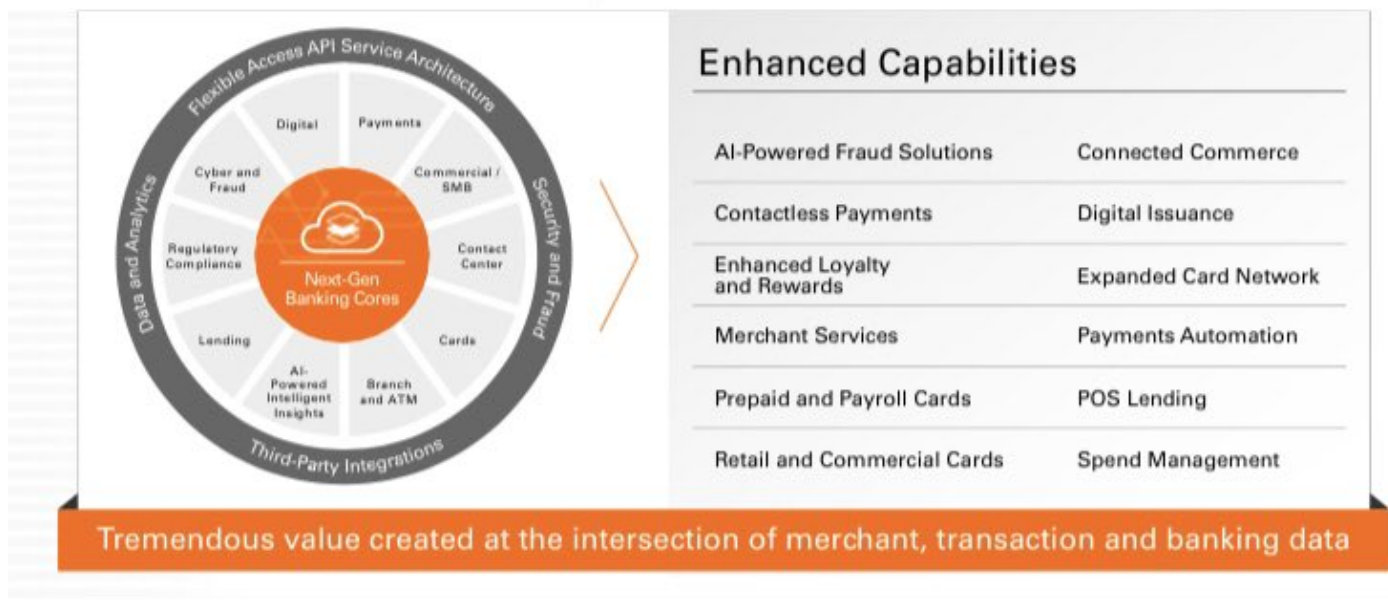
12) The list of \$FISV acquired “surrounds” is pretty long:

- CheckFree/BillMatrix (bill pay)
- CashEdge/Dovetail (P2P/RTP)
- M-Com/Monitise (mobile banking)
- Elan (ATM managed services)
- Open Solutions (next gen core)
- PCLender (loan origination)
- OBS (business banking)

13) Today, the average bank client purchases 37 products from \$FISV, up from ~20 just 3 years ago

This integrated selling strategy is further enhanced by the FDC merger, with a number of new offerings offering enhanced value by combining merchant, transaction and bank data

Powerful Combination Expands Growth Potential



14) With limited internal IT budget to keep pace with the largest banks — and now increasingly digital-first challenger banks — mid-and-small banks effectively look to \$FISV for outsourced “innovation” to power their own digital transformations

It's roadmap is their roadmap ...

Powering Digital Transformation



IDC
FINTECH
BANKING
REAL RESULTS

Winner

Together with Fiserv,
we've created an
industry-leading
omnichannel experience
for our customers to
engage with us.

— Amela Ciric
Executive Vice President,
Innovation Strategy and
Product Development



Current Year Growth

^ 169%

Credit Monitoring
Users

^ 150%

Digital Account
Opening

^ 115%

Zelle
Transactions

^ 52%

Digital
Card Controls

^ 36%

Cardless
Cash

^ 35%

Digital Wire
Origination

^ 24%

Remote
Check Deposit

^ 12%

Mobile Bill
Payments

31%

Mobile Bank
Market Share

6.3M

New Mobile
User Registrations

4.8 ★★★★★

App Store Rating

Source: FI Navigator, Mobile Banking Market (active Banks), US Banks as of June 30, 2019; IDC App Store Rating, October 2019. All percentage increases are year-over-year comparing the last nine months January through September. New Mobile user registrations January 2019 through September 2019.

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15) ... and this roadmap has already helped 1/3 of all US banks evolve from physical branch focused banking to internet delivered to mobile/omni-channel today

Now \$FISV seeks to transition its bank clients to the world of open banking: consumption of bank services via open APIs

Creating the Framework for the Future of Banking

Branch Banking

Physical distribution
of FI-developed
products

Internet Banking

Online distribution
of FI-developed
products

Mobile Banking

Native app distribution
of FI-developed
products

Open Banking

Multi-industry distribution
of financial services
products enabled by cloud
and open APIs

Continued Evolution for the Distribution of Banking Products and Services

Cloud, Real-Time and SaaS-Ready Core Platforms

Omnichannel Digital Surrounds

Data Insights and Analytics

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16) Tying this back to growth

For years, \$FISV FinTech has grown low single digits (3% in 2019)

The accelerated 4-6% medium term growth outlook will depend on continued outperformance in the mid-market (\$1-50B banks) and cross-sell of its growing portfolio of “surrounds”

Delivering the Next in Digital Banking

Integrated Banking Summary

Innovating to sustain leadership position in a healthy and growing market

Winning in the industry’s fastest growing segment by creating superior value for clients

Transforming core banking to drive the next generation of digital experiences

Unlocking new growth opportunities through expanded surround capabilities

Medium-Term Outlook

Internal Revenue Growth

4-6%

Adjusted Operating Margin



Medium-Term Outlook reflects anticipated financial results in each of 2022 and 2023. See appendix to presentation for additional information.

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