

Zetzsche et al, Digital Finance Platforms, 23:1 J. Bus. L. 273 (2021), www.ssrn.com/abstract=3532975 Buckley/Arner/Zetzsche, FinTech: Finance, Technology, and Regulation (CUP 2023), pp. 247-310

Context: Tech and Finance



- Multi-tiered services chain in the financial sector
- Cross-border set-up of financial services groups
- Additional investment objectives: ESG/sustainability
- Datafication of Finance
- New tech-based actors in traditional finance
- ⇒Regulators worldwide inquire into
 - «BigFinTechs» (FSB/BIS)
 - «Mixed Activity Groups» (EU)
 - «TechFins»

Joint ESAs: Global Footprint of Mixed Activity Groups (7/2022)

HQ	MAG	Main business	Current accounts	Credit provision	Payments	Crowdfunding	Asset management	Insurance
US	Alphabet (Google)	Internet search/advertising	X	X	X			
US	Amazon	E-commerce/online retail		X	X	X		X
US	Facebook	Social media/advertising		X	X			
US	Apple	Tech/producing hardware			X			
US	Microsoft	Tech/producing hardware			X			
CN	Alibaba (Ant Group)	E-commerce/online retail	Х	X	X	X	Х	X
CN	Tencent	Tech/gaming and messaging	Х	X	X	X	X	X
CN	Baidu (Du Xiaoman)	Internet search/advertising	X	X	X	X	X	X
CN	JD.com (JD Digits)	E-commerce/online retail	X	X	X	X	X	X
JP	NTT Docomo	Mobile communications	X	X	X	X		
JP	Rakuten	E-commerce/online retail	Х		X		Х	Х
AR	Mercado Libre	E-commerce/online retail		X	X		Х	
UK	Vodafone	Mobile communications		X	X			
KR	Samsung	Tech/producing hardware			X			

Key Contributions of Our Research



- «Rule of the 12» institutional investors due to technology
- General applicable lessons for financial services at large
- How to regulate digital finance
- A look into the future?

Overview



- I. Introduction $\sqrt{}$
- II. The Rise of Digital Finance Platforms
- III. The Case for Regulating Digital Finance Platforms
- IV. A New Approach to Regulating Digital Finance Platforms
- V. A Brief Look at the EU
- VI. Conclusion

§ 2 - The Rise of Digital Finance Platforms



- § 2 The Rise of Digital Finance Platforms in Asset Management
 - A. Conceptualizing Digital Finance Platforms
 - B. Aladdin: The Paradigmatic Back-end Platform
 - C. Front-End Investment Platforms
 - D. Towards Financial Ecosystems

Back-end DFPs: data control

- Blackrock's Aladdin as « first FinTech »
- The data giant:
 - assets > U.S. GDP, US total stock market cap
 - +240 institutions / 55,000 investment professionals

⇒ Data control

Front-end DFPs: Liquidity control

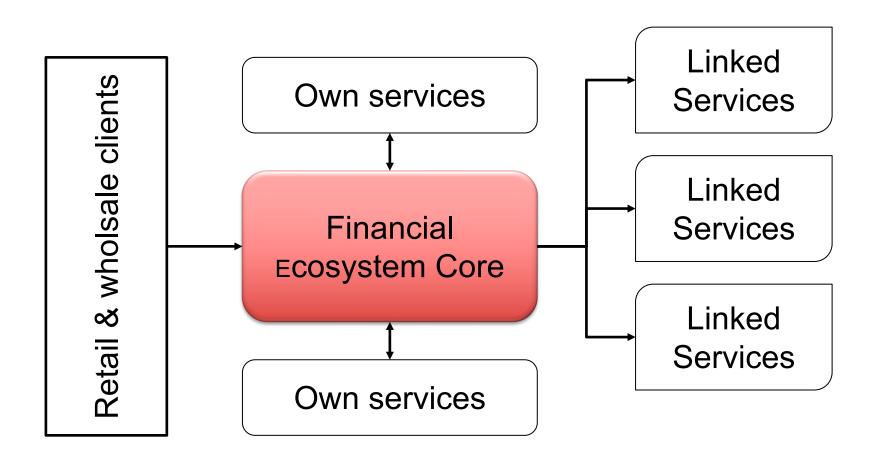
- Various front-end FOS emerging: Fidelity, Vanguard, Schwab,
 J.P.Morgan, Goldman (Marcus) pp.
- Why «Zero fees»?
- \Rightarrow Liquidity control

	Clients	AuA (approx)
Schwab	34 mn	\$ 8 trillion
Vanguard	30 mn	\$ 7 trillion
Fidelity	41 mn	\$ 6/10 trillion
Blackrock	60 mn	\$ 9 trillion

Front-and-back-end DFPs: Financial Ecosystems

- Ant Group: most precious FinTech (Ant > Godman)
- Full service range: payments, investment advice, funds, insurance, financial planning
 - Alipay: 900 mn Chinese clients / 65% GDP; market share: 54%
 - Globally 1.3 bn users, 27 currencies
 - Yuebaoh: Largest money market fund in the world (\$250 billion)
 - AntFortuna: 180 mn users; all 116 regulated fund managers
 - Insurance: 400 mn clients

⇒ Data + Liquidity control



§ 3 – The Case for Regulating Digital Finance Platforms?



- § 3 The Case for Regulating Digital Finance Platforms
 - A. Benefits
 - B. Risks and Costs
 - C. Regulatory Arbitrage

The Case for Regulating DFPs

- Benefits
 - Transaction costs ↓
 - Service level↑

The Case for Regulating DFPs

Risks and costs

- Client protection: uncovered tech risks; platform complexity
- Innovation? Access of third-party developers?
- National security: single point of failure
- Tech Risk of Systemic Dimension
- Oligopolization of the Financial System, irrespective of balance sheets

(1) Systemic Risks

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Too small to care

Too large to Ignore

Too big to fail

(2) TechRisk

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- Cyberresilience ⇔ access to FS
- From side to central
- From back to front office



Access

Competition, Concentraion vs Innovation

- Enhanced Complexity (AI etc.)
- Dynamic innovation
- Limited Resources at FI, FSAs

Expertise & Resources

Interlinkage & Asymmetry

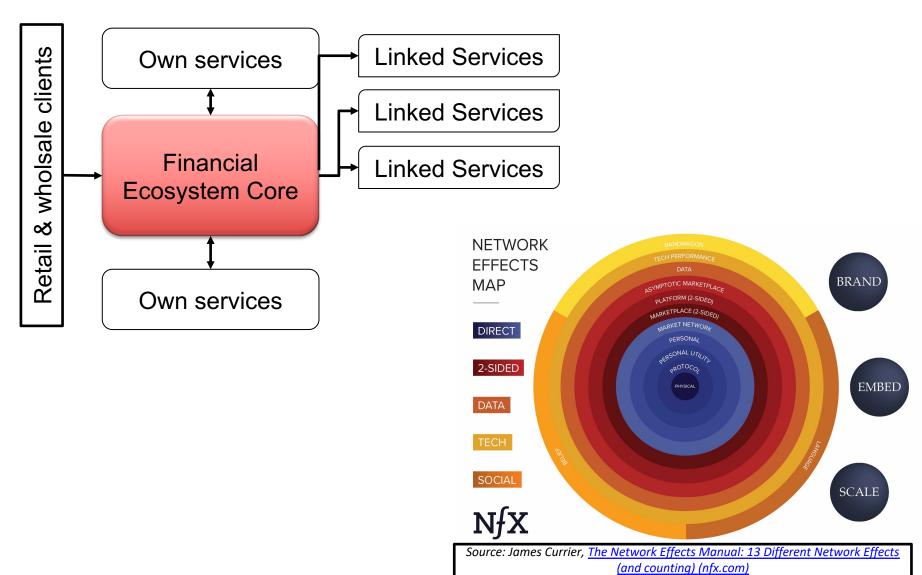


- Data & software scale economies
- Network effects
- From ,too small to care' to ,TBTF'

- New Interconnectedness ("TCTF")
- Risk Symmetry from Operational Risk
- International Dimension / Transparency

(3) Market Concentration in Core Technologies ... single points of failure





The Case for Regulating DFPs

- DFPs escape regulation
 - Technology ≠ regulated activity
 - Jurisdictional & sectoral conflicts
 - Tech dependency ≠ traditional definition of systemic risk
 - ⇒ Financial Holding Companies?

§ 4 – Addressing Digital Finance Platforms



- § 4 Addressing Digital Finance Platforms
 - A. Supporting Competition
 - B. Moderate Regulatory Interventions
 - C. Regulation as Public Utilities

A. Stimulate Competition

- Mandating access
- Diversification?
- Rotation?
- Open Data requirement re dominant platforms
- Unbundling of Service & Prices
- Merger Control

B. Moderate Interventions

- Self-regulation?
- Reform command and control regulation
 - «Financial data gathering and analytics» as regulated activity?
 - Code Review by FSAs?
 - Indirect Regulation:
 - => specific: TechRisk
 - => generic: Delegation and counterparty controls
 - Expand Bank / Financial Holding Company regulation

Examples: EU: DORA + MAG inquiry Luxembourg: PFS

C. Regulation as Public Utility

- Public Utility Regulation?
- Nationalization / Co-Ownership of large DFPs (>10% market share)
- Unbundling and separation of DFP functions
 - Eg Investment funds: client intermediary, investment advisor, custodian/depositary

§ 5 – A Brief Look at the EU



- EC's Call for Advice on Digital Finance (Feb 2021)
- Joint ESAs, Stocktake on Multi-Activity Groups (7/2022)
- Joint ESAs, Report on 2023 stocktaking of BigTech direct financial services provision in the EU (Feb 2024)
- Study commissioned by European Commission on MAGs (Fall 2024)
- Decision on forthcoming legislation (exp. 2025).

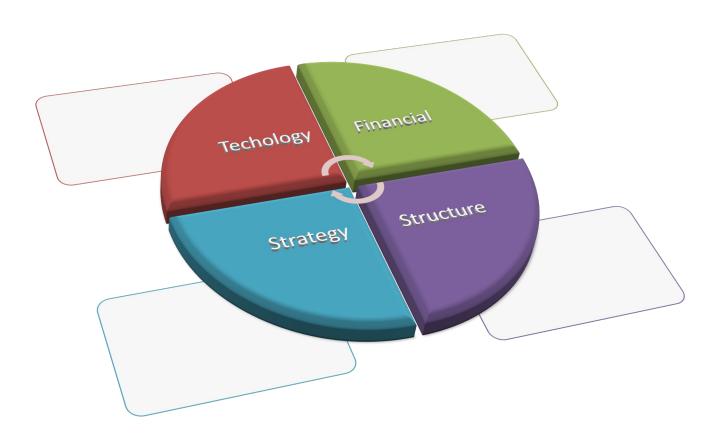
§ 5 – EC's and Joint ESAs' Focus



- Monitoring of scale and scope of BigTech direct financial services
- Role as major technology provider ⇔ DORA (Regulation (EU) 2022/2554)
- Provision of gatekeeper platform services ⇔ Digital Markets Act (Regulaton (EU) 2022/1925)

MAG Dependency Spectrum





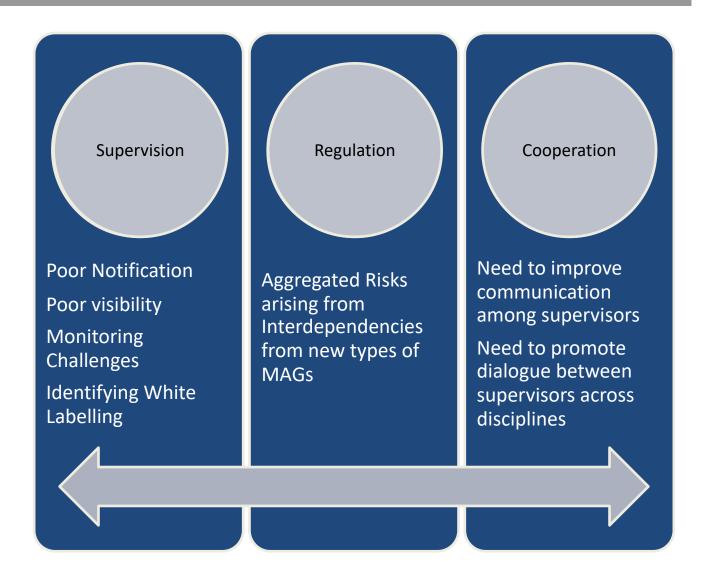


\bigcirc	Operational resilience & cybersecurity risks
\bigcirc	In-group Concentration risk, spill-over effects
\bigcirc	Reputational and Intra-group Contagion Risks
\bigcirc	Governance (conflicts, transparency)
\bigcirc	Data abuse, Consumer Data Risk
\bigcirc	Financial Exclusion
\bigcirc	Systemic Risk
	Risks to the Strategic Autonomy of EU

Supervision and Regulatory Issues









- Data + Liquidity drive concentration in finance
- Traditional regulatory objectives command action
- Adequate 'market structure' as new regulatory concern
- Concentration, Intranparency ⇔ Regulation

PBOC subjected Ant as financial superpower to financial conglomerate regulation + datalake requirements: harbinger of the future?

Please find our latest work at SSRN: www.ssrn.com/author=357808

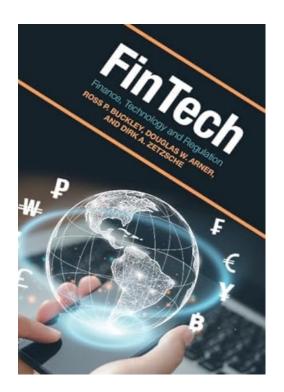
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Thank you!







FinTech book

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More Readings on FinTech



Sandboxes vs Innovation Hubs https://ssrn.com/abstract=3455872



Covid 19, Sustainability Crisis https://ssrn.com/abstract=3783605



Al in Finance: Putting Humans www.ssrn.com/abstract=3531711



Digital Finance Platforms www.ssrn.com/abstract=3532975



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Regulatory Sandboxes www.ssrn.com/abstract=3018534



FT4FI Roadmap www.ssrn.com/abstract=3245287



Corporate Technologies (AI etc.) www.ssrn.com/abstract=3392321



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Rise of Tech Risk www.ssrn.com/abstract=3478640



ICO Gold Rush www.ssrn.com/abstract=3072298



