FinTech and RegTech – Navigating the Latest Trends and Challenges

SPEAKERS:



Michael Wong, IBM

«Emergence & Trends»



Jonathan Fairtlough, Kroll

«FinTech, RegTech and Smart Contracts meets Financial Institution Risk Management»



Nick Beckett, CMS China

«Overview of the Development of FinTech and RegTech in China»



Oliver Yaros, Mayer Brown International LLP «Fintech projects in Europe»

NKF MODERATOR: Dr. András Gurovits, Niederer Kraft & Frey Ltd



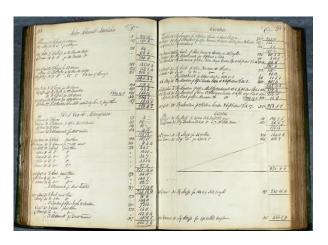
Fintech & Regtech: Emergence & Trends



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Digitisation + Democratisation + De-regulation

Disruption





Peak Fintech hype or the emergence of a new innovative normal?

There has been a cambrian explosion of innovation and PoC's, leading to questions of fabric standardisation and speed of adaption



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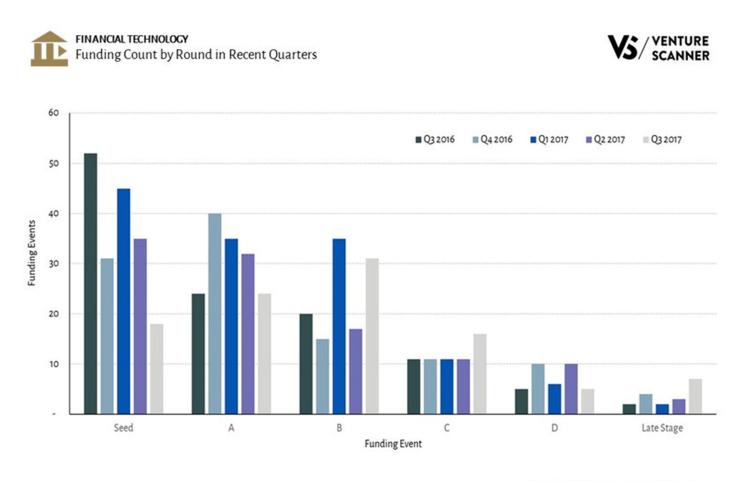
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Cambrian explosion borrows from evolutionary concepts; what are the factors that lead to our cambrian explosion (see earlier slide on contributory factors - democratisation of productivity plus capital availability, incumbent lethargy, regulatory stagnation / disruption)...is this the new normal, will we continue to see growth as emerging markets also begin to access capital and technology base? Will we see mass consolidation as incumbents adapt and absorb differentiating methods from FinTechs in to their "dna" The options are 1) incumbents overcome the new comers, by competing through their own products and regulatory pressure (environmental shaping) 2) incumbents co-operate and adopt, merging into new organisations 3) incumbents disappear, or dwindle as new organisations (FIntech) grow and outcompete or 4) the ecosystem shifts dramatically, with emerging economies and markets coming online we see new spaces emerging giving FinTechs the opportunity to occupy new spaces without overlapping with existing / incumbent / mature markets

Michael WONG; 21.11.2016



Fintech investments are now shifting to later stages, suggesting the industry is beginning to mature



Data cumulative through September 2017

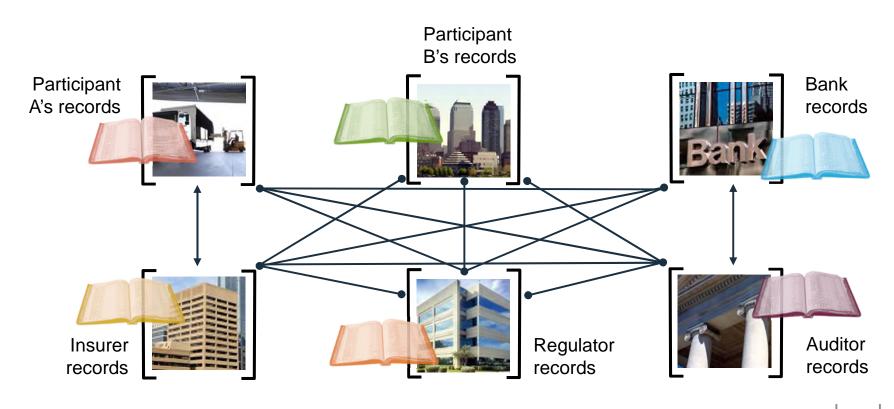
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■ Blockchain; business networks & trust

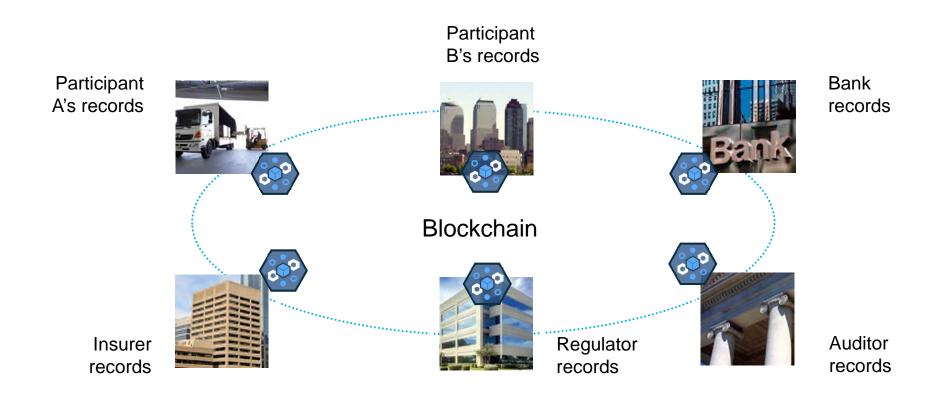
Cognitive computing; making sense of regulation

Today's business environment



... inefficient, expensive, vulnerable

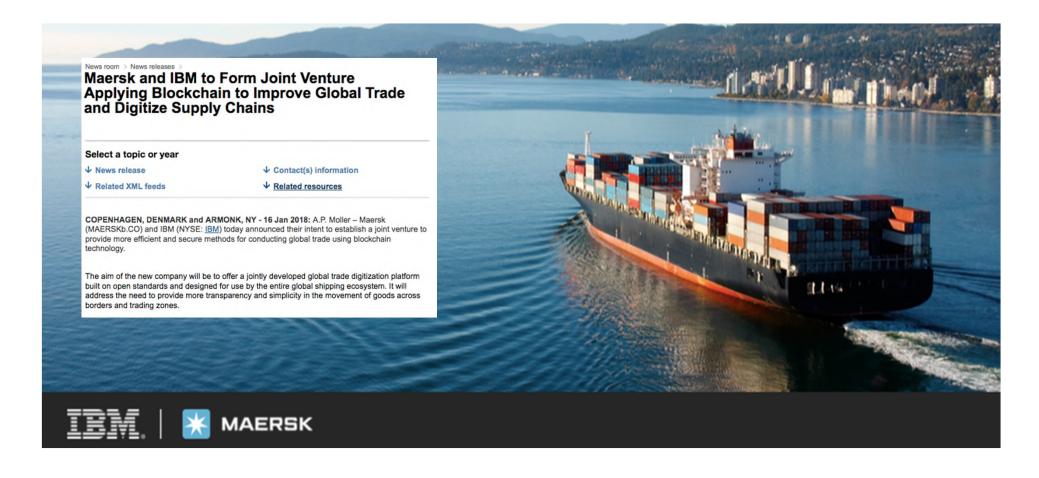
A shared, replicated, permissioned ledger ...



... with consensus, provenance, immutability and finality

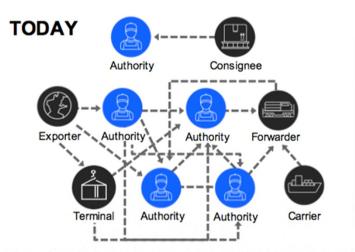


Global Trade Digitization Network - Maersk





Global Trade Digitization Network - Maersk



- Inconsistent information across organizational boundaries and "blind spots" throughout the supply chain hinder the efficient flow of goods
- · Complex, cumbersome, and costly peer-to-peer messaging
- Manual, time-consuming, paper-based processes
- Risk assessments often lack sufficient information; clearance processes subject to fraud
- The administrative cost of handling a container shipment is comparable to the cost of the actual physical transport

TOMORROW



- Instant, secure access to end-to-end supply chain information; single source of the truth
- Assurance of the authenticity and immutability of digital documents
- Trusted cross-organizational workflows
- · Better risk assessments and fewer unnecessary interventions
- Far lower administrative expenses and elimination of costs to move physical paper across international borders



Digital Trade Chain – We.Trade



News room > News releases >

Seven Major European Banks Select IBM to Bring Blockchain-Based Trade Finance to Small and Medium Enterprises

- Blockchain network designed to help make domestic and cross-border commerce easier
- IBM Blockchain running Hyperledger Fabric Selected for Digital Trade Chain

Select a topic or year

↓ Contact(s) information

ARMONK, N.Y. - 26 Jun 2017: IBM (NYSE: IBM (NYSE: IBM) today announced that it has been selected by a consortium of seven of Europe's largest banks to build and host a new trade finance platform based on IBM Blockchain powered by Hyperledger Fabric. The platform is designed to simplify and facilitate domestic and cross-border trade for small and medium enterprises in Europe, while helping to increase overall trade transaction transparency.

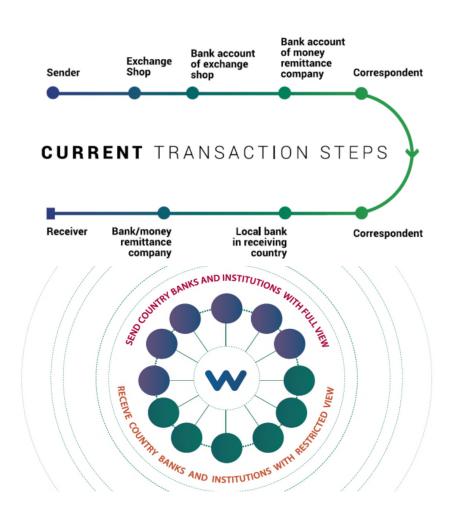
Through a global competitive bidding process, IBM was selected by the Digital Trade Chain Consortium which consists of Deutsche Bank, HSBC, KBC, Natixis, Rabobank, Societe Generale and Unicredit.

The Digital Trade Chain solution will run in the IBM Cloud and is designed to connect the parties involved in a trade transaction, both online and via mobile devices. It is designed to simplify trade finance processes by addressing the challenge of managing, tracking and securing domestic and international trade transactions.

Discover the future of trade transactions. The future of trade finance, today.



Remittance Industry



- Serving mainly unbanked and low income migrant workers
- High costs related to bank fees driven by high risk and regulatory requirements

- Potential for exploitation and money laundering
- Blockchain system Includes regulators, banks and financial institutions



Jeopardy

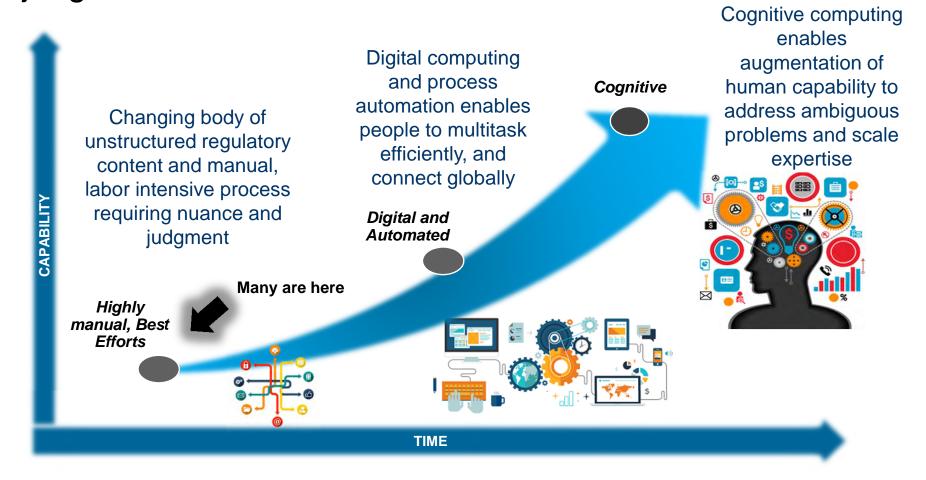




300,000,000



Cognitive: Watson & Promontory solutions augment human judgment and skills





Fintech represents a rising tide of innovation that will fundamentally change the way we do business

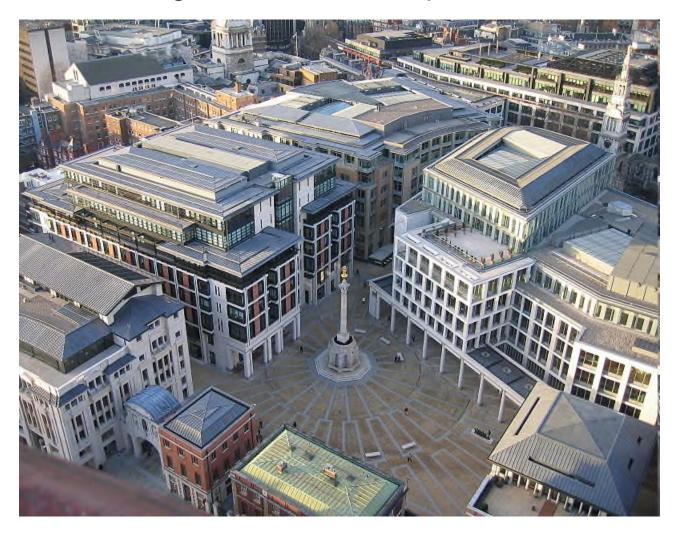
What are the opportunities? How will we engage? Who will we partner with?



Back Up



London Stock Exchange – Paternoster Square



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< 90%

58%



Engagement









- 1. Ecosystem evaluation
- 2. Technology partnership
- 3. Investment & adoption
- 4. Transformation

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FinTech, RegTech, and Smart Contracts meets Financial Institution Risk Management

Jonathan Fairtlough Managing Director

The Cyber Wild West

The thieves are getting better tools to access more targets

- Criminal toolkit has Expanded
 - Wikileaks/Vault
 - Shadow brokers Blog
 - Middleware attacks
- Cyber crime as a service
- Cryptocurrency for ease of payment

- Attack Vectors have increased
 - 3rd party Integration
 - Cloud systems
 - Ubiquity of Encryption
 - Mobile device use
 - Social engineering



Crypto Currencies

A solution and a new set of concerns



- Simplify payment systems
 - Reduce third party intermediaries
 - Global payment verification
 - Block chain as authentication to limit alteration
- Protected Payment method
 - Encrypted transactions
 - Anonymous payment



- Transparency Issues
 - Know your customer issues
- Technical Issues
 - Block chain transfer can be time intensive
- Regulatory Issues
 - Few frameworks in place
- Fueling a crime wave
 - Its strengths protect the criminal
 - ICO craze leaving victims in wake



The issues

The Block Chain, Crypto Currencies and the Financial Industry

- Block chain
 - Global authentication
 - Uses Encryption for validation and authentication controls
 - Allows for Anonymous transactions
 - Reduces need for third party action
- Crypto Currency
 - Online storage security issues
 - Cold storage access issues
 - Making a market impediments

- Issue #1 "Identification"
 - Money Laundering statutes
 - Know your customer statues
- Issue#2 "Notification"
 - Service and Response to process
 - Knowing which statutes apply to a transaction that is global
- Issue #3 "Enforcement"
 - Legal authentication versus digital authentication
 - Forced transfer of crypto codes
- Issue #4 Collection
 - Seizure of collateral
 - Liens, levies and court orders



The New Reality

Digital Due Diligence becoming a requirement

- Customer validation through digital activity needed
- Institutional knowledge sharing needs to be more robust

Forensic Artifact preservation needed

- Logging of processes needs to be verbose, constant and searchable
- Endpoint monitoring critical to early detection of issues
- Institutions need to be able detect anomalous behavior in multiple systems

Data loss and recovery needs a risk management focus

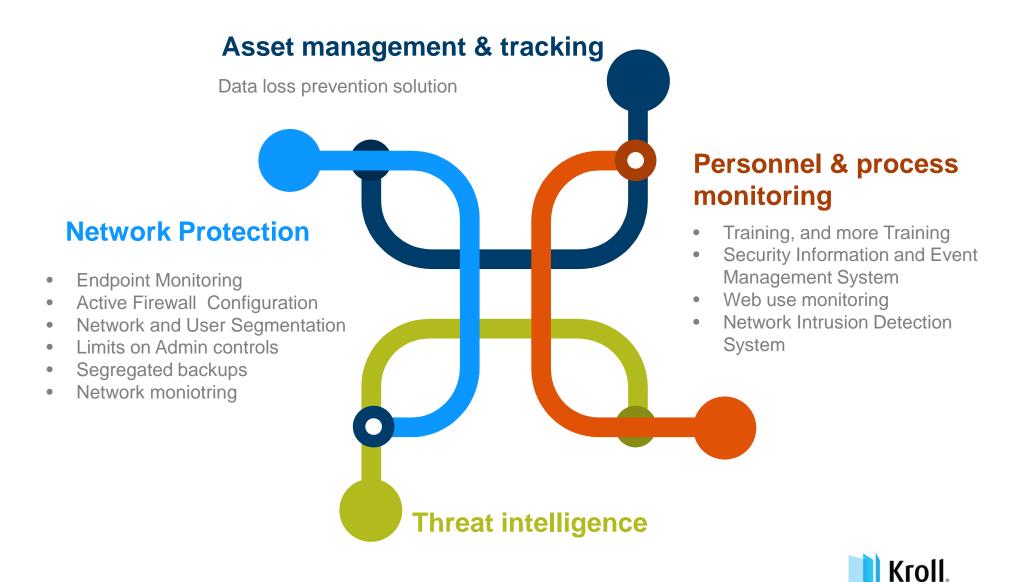
- Identification of important assets and network segregation to match analysis
- Backup Strategy must be robust, external and tested

Cyber attacks cannot be 100% avoided.

- Incident response planning and training is essential
- Early identification is key- fine tune playbooks and internal notification methods



Building a Defense in Depth





Kroll.com

Jonathan Fairtlough

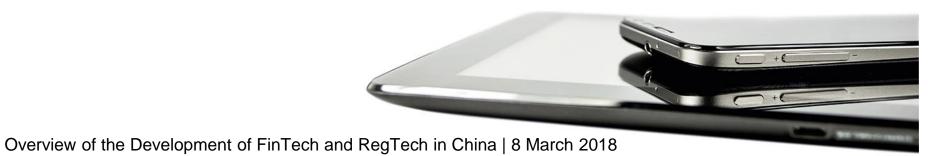
Managing Director,
Cyber Security Investigations

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Overview of the Development of FinTech and RegTech in China

Nick Beckett
Managing Partner, CMS Beijing Office



How are new technologies applied in financial services?



Payment

- online payments and mobile payments
- biometric identification



Process efficiencies

- blockchain technologies
- RegTech



Insurance

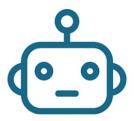
- data based risk identification and mitigation
- smart contract

How are new technologies applied in financial services?



Deposits and lending

- peer-to-peer (P2P) lending
- P2P financing platforms



Investment management

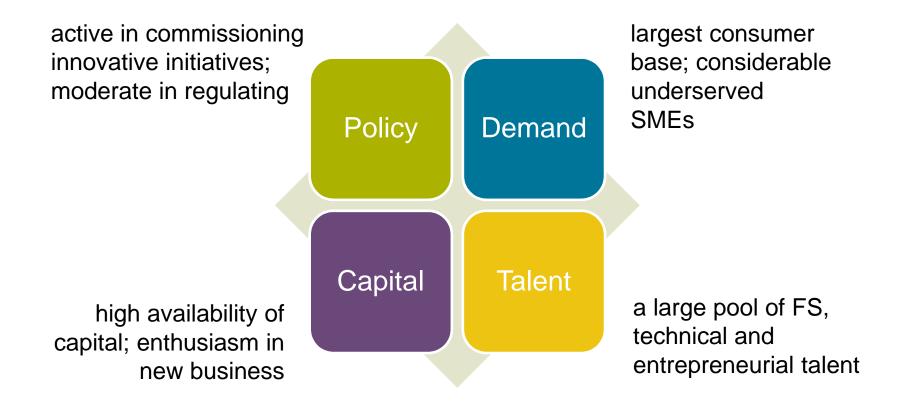
- big data analysis
- Al/robot adviser



Fundraising

- crowdfunding
- Investment syndication

Why does FinTech grow fast in China?

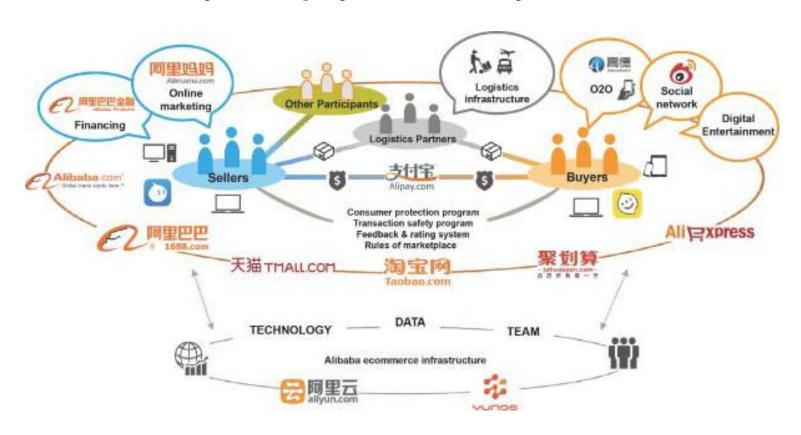


China's AI Strategy



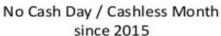


Subsector analysis – payment ecosystem



Subsector analysis – payment ecosystem







Cashless Week since Summer 2017







Subsector analysis – ICO and P2P



ban on ICO



strict regulation over P2P lending

Who are the main players?



Payments

Wealth Management

Securities

Credit Scoring

Financing

Insurance

Banking

Crowdfunding

What are the major legal issues?



Data Protection

- transparency informing users clearly
- trust obtaining users' consent
- security protecting users' privacy

Challenges brought by:

- strict personal data protection requirements under the new PRC Cybersecurity Law
- restrictions on cross-border transfer of personal financial data

What are the major legal issues?



IP Protection

- copyrights
- trademarks
- trade secret

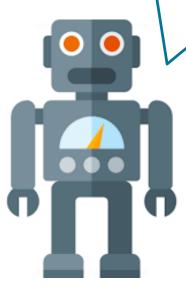
Challenges brought by:

- uncertainty of the patentability of business methods in China
- policy balance between innovation protection and spread of new technologies

RegTech



RegTech is a key component of FinTech. It applies to new technologies developed to help overcome regulatory challenges in financial services.



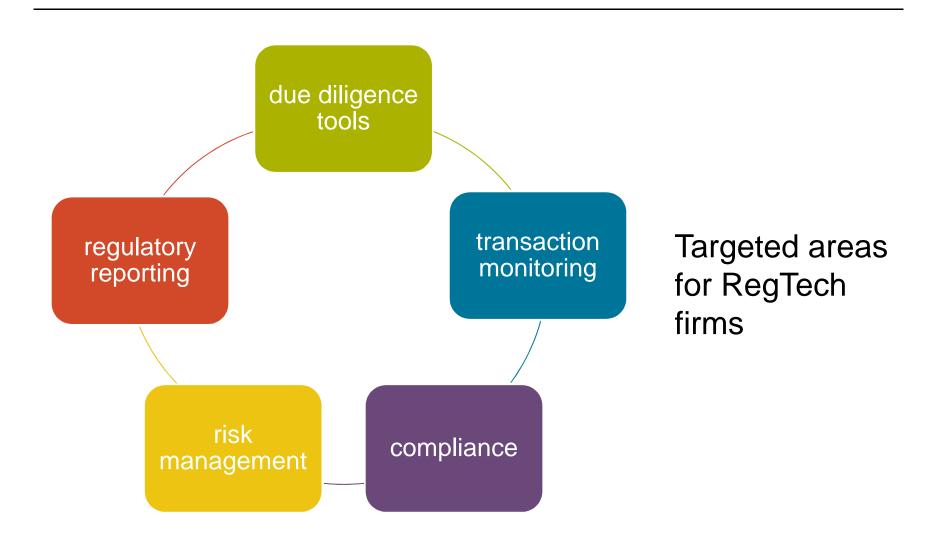
RegTech





A FinTech committee has been established under the PBOC's Technology Department to explore the possibility of applying new technologies in regulatory work.

RegTech







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Fintech and Regtech: Navigating the Latest Trends and Challenges

Fintech projects in Europe

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Speaker



Oliver Yaros is a partner in the Intellectual Property & IT Group of the London office of Mayer Brown International LLP and advises clients on fintech, digital and other technology transactions, outsourcing, data protection, privacy, ecommerce and IP issues. Oliver often acts on global financial industry utility projects, IT and business process outsourcing projects and IT systems procurement transactions as well as advising a range of clients (financial institutions, manufacturers and retailers of consumer products, publishers and providers of digital media and online content) on many e-commerce and data protection issues. He has spent 18 months seconded to the IP and technology legal team of a global bank.

Fintech and Regtech Landscape in Europe

- Open banking and payments
 - Payment processing
 - Mobile payments
 - Forex
 - Cards
 - Rewards
- Insurance (Insurtech)
 - Broking
 - Underwriting
 - Claims
 - Risk Tools
- Planning and risk management
 - Personal finance
 - Retirement planning
 - Tax and budgeting
 - Enterprise Resource Management
 - Customer Resource Management
 - Compliance & KYC
 - Data Storage
 - Infrastructure services
- Lending/crowdfunding
 - Finance platforms
 - Dashboards
 - P2P

- Distributed Ledger Technology (blockchain)
 - Cryptocurrencies
 - Smart Contracts
 - Payments and settlement
 - Asset Tracking
 - Identify Management
- Trading and Investments
 - Investment Management
 - Roboadvisory
 - Trade pricing and algos
 - Trading IT
 - Trading platforms
 - Brokerage
 - Clearing
- Data and Analytics
 - Big data
 - Data visualisation
 - Predictive analytics
 - Data provision
- Security
 - Digital Identity
 - Authentication
 - Fraud Management
 - Cybersecurity
 - Data encryption

Fintech and Regtech in Europe: Project structures

- Disruptors (e.g. N26)
- Bilateral transactions between banks and providers
- Joint ventures (e.g. Santander and Monitise)
- Bank led consortia (e.g. Symphony, R3 etc)
- Service provider led consortia (e.g. kyc.com)
- Cross industry or government supported initiatives (e.g. eID under the Connecting Europe Facility, Project Innovate etc)

Fintech and Regtech in Europe: Typical issues

- Addressing the viability and sophistication of the fintech's business
- Understanding the suitability and limitations of the technology
- IP ownership and licensing
- Future changes to the service and service commitments
- Dealing with data
- Liability

Discussion











