Value of Fintech

October 2017
Foreword

The UK is currently well-established as a world-leading financial and business services centre, and a global hub for fintech.

We know that financial services are just that, namely services enabling businesses, consumers and investors to access products and services which in turn allow them to achieve their respective ends. We also know that fintech businesses increasingly hold significant importance to the UK economy, particularly following the remarkable growth in those businesses in recent years.

Fintech is however often, and in our view wrongly, understood to be separate from financial services. In fact, we believe that fintech is an evolution of financial services and that every business in the sector must engage with it if they are to survive. The City has reinvented itself many times – fintech is, put simply, the latest iteration of this evolution of how financial services will better meet the needs of its business, retail and institutional customers.

So what is its value?

This report, commissioned by the City of London Corporation and produced by KPMG, seeks to ‘unpack’ the term “Fintech” and its value, not only to financial services but also to other areas of the economy. It considers the position of SMEs, and whether they stand to benefit more from fintech than they have through financial services conventionally delivered. It also aims to demonstrate how fintech will continue to open access to financial services to individual consumers, particularly those hardest to reach.

The key recommendation is for a sector deal for fintech that reinforces and cements the UK as the leading global hub for fintech and as the number one destination for fintech businesses. This will develop a single policy vision for fintech, coordinate open standards, enhance regional engagement and support talent development and greater access to capital for fintech businesses.

Ultimately if we can achieve this, our financial and related professional services businesses will continue to lead the way in providing products and services effectively to consumers by improving financial inclusion, enhancing the customer experience, and increasing transparency, compliance and security.

And surely that is the value of fintech.

Catherine McGuinness
Chairman of Policy
City of London Corporation
Introduction

Fintech has grown rapidly in recent years, driven by technological advancement, changing customer expectations, availability of funding and increasing support from governments and regulators. This report considers the value fintech creates for individuals, small businesses and society, and what makes a successful fintech ecosystem.

Building upon a range of data sources, including KPMG’s Pulse of Fintech report and the results of KPMG’s global survey of fintech activities in financial institutions, the report is based on more than 40 interviews with fintechs, incumbent financial services companies, industry associations, Government agencies, and capital providers.

We found numerous examples of how fintechs enhance the role of financial services firms and help them provide products and services more effectively, identifying five principal themes - improving financial inclusion, enhancing customer experience, increasing transparency, improving security and compliance, and providing support and guidance.

The UK has a strong position as a global fintech hub, reflecting its large financial services sector and sophisticated customer base. The UK’s government and regulators have actively supported fintech growth by creating an open market environment and taking practical steps. A clear theme through interviews was how other countries are making significant progress in attracting fintech, taking steps to attract and retain talent, improve the regulatory environment, and improve the availability of capital.

In an increasingly competitive global market, there is a need for the UK to establish a single and consistent position on fintech which will enable the sector to more effectively market itself as a good destination for fintechs and as a source of fintech services.

Additional steps could be taken to improve policies and regulation, for example by clarifying the perimeter between regulated and unregulated activities and building upon the successes of sandboxes with further regulatory support. There is considerable scope to identify and assist UK regions to become regional hubs and enablers of the growth of the wider fintech ecosystem. Further improvements to infrastructure, support for talent development, and promotion of the UK as a global fintech hub will contribute to the continued success of this vibrant and valued sector.

Paul Merrey
Partner
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01. Executive summary
Executive summary: The fintech landscape

Fintech is an evolution of financial services driven by technology, changing customer expectations, availability of funding, and increasing support from governments and regulators.

Fintech and key drivers of growth

Fintechs, businesses which use technology to transform or enable business and operating models in the financial services (FS) sector, have grown significantly in recent years.

Fintechs have seen close to $1.5 billion in investments into banking, insurance and asset management each year since 2014.

The growth of fintechs has been primarily driven by four factors:

- **Technological evolution**: Fast pace of technological developments combined with reduction in cost of technology.
- **Emerging customer expectations**: Customers now demand digital services and experiences similar to other sectors.
- **Availability of funding and capital**: Funding into fintechs has increased significantly in the last several years.
- **Support from governments and regulators**: Both governments and regulators recognise fintech as the evolution of financial services and proactively support them.

Fintech focus areas in banking, insurance and asset management

Fintechs are challenging traditional business models across banking, insurance and asset management.

- **Banking**: The largest share of fintech investment has been in banking, with payments and lending being the dominant area comprising approximately 65% of all banking fintech investments. Personal finance, peer-to-peer (P2P) services, money transfer and trading platforms are other growth areas.
- **Insurance**: Insurtech is increasingly attracting investment across distribution, underwriting and servicing. Fintechs provide new products such as on-demand and P2P insurance. Internet of Things (IoT) and analytics have also enabled the industry to offer new digital distribution platforms and more effective claims management.
- **Asset management**: Fintechs are changing how products are distributed and advice is delivered in asset management.
- **Financial education**: Fintechs have enabled the financial services industry to deliver tools to help educate customers and manage their finances better.

Fintechs have implications for the consumers, government, regulators and the industry

Fintechs overall drive benefit to society.

- **Consumers**: Fintech adoption has increased globally with a third of customers indicating that they use at least one non-traditional FS firm. While fintech requires digital capabilities, they significantly increase choice and value and empower consumers.
- **Government and regulators**: As fintechs drive opportunities for economic growth and consumers increasingly adopt them, governments and regulators are required to keep pace with technology and provide a regulatory environment which encourages innovation and ensures consumers are protected.
- **Financial services industry**: Business and operating models of incumbents are challenged by new fintechs. Incumbents are required to embrace new technologies either through building capabilities or partnerships and acquisitions.
Executive summary: Value of fintech

Fintechs supplement the traditional roles of the financial services industry by helping incumbents provide products and services effectively and expanding the reach of the industry.

1. Improving financial inclusion
Fintechs enable provision of new products and services to customer groups who haven’t been able to access traditional financial services. These are made possible through:

- The provision of simple products at lower costs (for example, Cuvva, Transferwise).
- Helping underbanked with innovative solutions (for example, åre, Doreming).
- Providing small and medium sized enterprises (SMEs) with funding access (for example, iwoca).

2. Enhancing customer experience
Empowered by new technology, fintechs are able to offer personalised services and communicate interactively with customers, significantly enhancing customer engagement and experience.

- Simple and engaging interaction with customers (for example, RighIndem in claims management and Boundlss in digital health).
- Simplified solutions for SMEs such as those provided by iZettle and Tide.

3. Increasing transparency
Trust is the foundation of the financial services industry. Fintechs enable financial services companies to increase clarity of services and products, and provide transparency on fees and charges. The following examples illustrate fintechs which help improve transparency and increase trust:

- Simply Business and Bold Penguin in commercial insurance brokerage.
- Pension Bee in pensions and savings management.
- Brolly in retail insurance.

4. Improving security and compliance
Retail and SME customers are vulnerable to fraud, cyber attacks and other online risks. For example, 74% of UK small businesses reported a cyber security breach in 2015 and financial fraud losses across payment cards, remote banking and cheques totalled approximately £770 million in 2016.

There are multiple fintechs which help businesses to detect fraud (for example, Ravelin) and manage risks and compliance issues (for example, Trulioo, Covi Analytics).

5. Providing support and guidance
Navigating complex financial services and products can be difficult for end users. Fintechs, through the use of technologies such as Artificial Intelligence (AI) and big data analytics, provide tailored customer support and guidance in a cost efficient way. Examples include Neos in insurance for risk tracking, Oval in banking and Nutmeg in asset management.
Executive summary: UK and London as a fintech hub

The UK, and London in particular, is seen as a leading global fintech hub supported by a large financial services market, forward-looking government and regulators supportive of innovation.

<table>
<thead>
<tr>
<th>Key attributes</th>
<th>Description</th>
<th>UK and London fintech market</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability of market for fintech services</td>
<td>Strong market demand is a fundamental driver of fintechs. Successful fintech hubs have a large local market (UK, US and China) or act as gateways to a larger market (for example, Singapore and Hong Kong).</td>
<td>The UK financial services industry has revenues of approximately £200 billion, making up approximately 11% of GDP, providing a significant market for fintechs. Additionally, the UK market has a high proportion of consumers with digital skills.</td>
</tr>
<tr>
<td>Pool of capital to support fintechs</td>
<td>Availability of funding for fintechs at different stages of maturity and through various funding sources (seed funding, private VC funding, government-backed schemes etc.) is critical for a leading fintech hub.</td>
<td>The UK has good availability of capital for early-stage companies through a strong seed funding landscape and the supportive environment created by the Government. However, the UK has limited growth capital to support late stage start-ups.</td>
</tr>
<tr>
<td>Government participation and support</td>
<td>Government has a significant role to play in the development of the fintech market by creating a fintech friendly business environment through progressive policies, tax incentives and programmes.</td>
<td>The UK Government is perceived as very supportive of fintech growth. The Government has been proactive through initiatives such as the newly established the FinTech Delivery Panel, the Financial Services Trade and Investment Board (FSTIB) FinTech Steering Group and enabling Fintech Bridges.</td>
</tr>
<tr>
<td>Regulatory environment</td>
<td>Regulatory requirements can be complex for start-ups, especially in the financial services sector. A start-up friendly regulatory environment is important to attract and nurture fintechs.</td>
<td>The UK regulators, the PRA and FCA, are seen as global leaders, providing a regulatory environment that is amenable to fintech growth. Such initiatives include the FCA Project Innovate and regulatory sandboxes, and the PRA/FCA New Bank Start-up Unit. The industry believes that the regulators can further enhance fintech growth through additional initiatives.</td>
</tr>
<tr>
<td>Availability of talent (FS, tech, entrepreneurial)</td>
<td>Availability and access to technology and financial services skills and entrepreneurial talent will drive growth of the fintech market.</td>
<td>The UK and London have a good talent pool to support the growth of fintechs. Brexit has elicited significant concerns around availability of tech and entrepreneurial talent in the future. The government and industry recognise the need to address this potential issue.</td>
</tr>
<tr>
<td>Quality of infrastructure to support fintech development</td>
<td>Fintechs require affordable and accessible infrastructure (for example, office spaces), including ancillary services to enable them to grow effectively.</td>
<td>The availability of infrastructure related to technology and services is considered adequate in the market. Fintechs would benefit from more working spaces with ready ancillary services.</td>
</tr>
</tbody>
</table>
Executive summary: Recommendations

We have outlined ten suggested actions for the Government, financial services industry and the wider fintech ecosystem to consider. In addition to helping the UK maintain its leadership as a global hub for fintechs, we believe that these activities would support the UK’s financial services market deliver greater value to society.

1 Secure a fintech sector deal
The UK is considered a global hub for fintechs with significant support from the Government, regulators and the wider financial services industry. We recommend that fintechs, through organisations such as the the City of London Corporation, Innovate Finance and other agencies secure a sector deal through which the Government and the industry can collaborate to further cement the UK’s position as a global leader in fintech, help financial services sector deliver relevant products and solutions to retail customers and businesses, and engage regional development and growth.

Within the sector deal, the fintech industry should collaborate and commit to support the Government in developing a single public policy, vision and strategy for fintech, driving harmonisation / equivalence of standards and regulations for fintech, and supporting fintech bridges with other countries. Additionally, the industry should help the Government enhance regional engagement and integration, and the development of talent that will support the development of fintech and the wider financial services industry.

2 Provide clarity on regulatory perimeters applicable to fintechs
The UK Regulators, the PRA and the FCA, are perceived as proactive in supporting the development of fintechs in the UK and London.

To further support fintechs and the existing financial services companies investing in technology, the regulators should develop and issue fintech specific guidance on regulatory perimeter, provide further clarity on operational and conduct requirements (such as risk, data, processes and technology) and publish / share a pipeline of regulatory activities related to fintechs.

3 Build on the success of the regulators and establish procedures to support fintechs on regulatory requirements
The activities of the PRA and the FCA have firmly established a favourable environment for fintechs. The regulators should identify opportunities to simplify authorisation by further embedding the process within the sandbox. The regulators could also broaden support by setting up specialist fintech teams focused on specific capabilities. Additionally, the PRA could start providing clarity on prudential and solvency requirements as they would apply to fintechs.

4 Identify and support UK regions to become hubs and enablers of fintech growth
The Government should lead initiatives to enable the growth of fintechs across the regions. This could be driven by ensuring fintech is a priority on the agendas for regional and local development plans, local enterprise partnerships (LEPs), identifying regions and cities based on existing infrastructure and capabilities as potential hubs and providing incentives (funding and capital in development plans) for fintechs and financial services companies to consider regions for their fintech activities.
Executive summary: Recommendations

5. Support fintechs in developing partnerships with incumbents
Fintechs face significant challenges in getting traction and securing support from incumbents within the financial services industry. The Government could explore opportunities to develop and implement programmes to enable fintechs to access partners. Industry incumbents should also work with Innovate Finance and similar organisations to articulate what they need from fintechs.

6. Conduct activities to advocate the value of fintechs
Narratives around fintechs have focused around incumbents and start-ups with little focus on the value delivered to the end customers. Successful fintechs, Innovate Finance and wider financial services firms should work together to demonstrate the value delivered through fintechs to the end customers. This will help drive adoption by individuals, SMEs and corporates.

7. Promote and position UK as a global hub for fintechs
Given the size of the UK financial services industry, the UK will continue to be attractive to fintechs. The Government should continue to build the UK’s profile as a global fintech hub by developing a fintech policy position, vision and strategy to lead international efforts on cooperation and equivalence of regulations and standards (for example, data protection and privacy). This will require the Government to provide as much clarity as possible on Brexit and in the short-term, implement a campaign to engage the fintech ecosystem.

8. Identify and unlock sources of funding for late-stage start-ups
The UK has good supply of capital from angel investors and venture capital funds for early-stage start-ups. To make more capital available to late-stage start-ups, the Government should identify and implement measures to unlock the institutional market including pension funds in its Patient Capital review, replacement funds for the European Investment Fund (EIF) by working with British Business Bank and the industry, and review the competitiveness of the existing tax regime for capital providers.

9. Review and provide critical infrastructure and ancillary services available to fintechs
The Government should explore opportunities to develop a fintech cluster to further support and drive growth. The Government and industry should also review existing facilities available to fintechs in and outside London and address gaps with wider stakeholders such as property owners, City Property Association and the City of London Corporation’s own Property Advisory Team. Fintechs and Innovate Finance should collaborate closely with ancillary services providers.

10. Retain existing talent and pipeline and implement measures to address existing and emerging gaps
Fintech is an evolution of financial services sector and will be fundamental to the UK economy. The Government should review the impact of Brexit on talent and consider measures to retain and attract tech, financial services and entrepreneurial talent. The Government should also work with the private sector and higher learning institutions to develop fintech specific training and courses to boost the domestic skills supply.
02. The fintech landscape
What is fintech?

Fintech broadly covers the following four areas:

**Banking**
- **Personal finance**: monitoring spending, savings, credit scores, tax liabilities through technology-driven services, as well as providing basic retail banking outside of traditional banking.
- **Payments/transactions**: using technology to provide the transfer of value as a service, also companies whose core business is predicated on distributed ledger technology and/or relating to the use of cryptocurrency.
- **Lending**: using technology platforms to lend money to new/existing customer segments, including SMEs, using data and analytics.

**Asset management**
- **Distribution**: offering wealth or investment management services to retail investors via platforms. Platforms include simplified interfaces/systems and tools for insights and investments.
- **Advice**: propositions using algorithms to support the advice process. Often called robo-advice, they provide access to customer segments who cannot afford traditional advisers.
- **Portfolio management**: use of artificial intelligence and machine learning for management of portfolio.

**Insurance**
- **Products and solutions**: using data analytics and technology (for example, IoT and wearables) to develop new insurance products (for example, on-demand and peer-to-peer insurance, non-standard insurance) and propositions (for example, wellness).
- **Distribution**: using digital platforms and aggregators to provide insurance products in a targeted manner.
- **Servicing and claims management**: focusing on improving services and overall insurance experience (for example, policy processing and claims management).

**Other cross-industry propositions**
- **Capital markets**: providing various types of financial intermediation services, which were historically performed by investment banks and brokerage firms.
- **Business-to-business fintech**: offering technology-driven solutions and services specifically for other enterprises or financial institutions. For example, software to automate financial processes, and enhance financial security (excluding blockchain), authentication, and make strategic decisions.
- **Regtech**: facilitating and streamlining regulatory compliance by leveraging new technologies, such as big data and machine learning.
Fintech is a radical evolution of the financial services industry, driven by a combination of technology advancements and changing customer expectations.

Fintech has grown significantly in recent years. Investments peaked in 2015 with a total deal value of $60 billion globally.

Banking has led the growth of fintech with insurance and asset management beginning to catch up.

**Figure 1: Total global investment (VC, PE and M&A) in fintech companies**

<table>
<thead>
<tr>
<th>Deal count</th>
<th>Capital Invested ($bn)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>383</td>
</tr>
<tr>
<td>2011</td>
<td>540</td>
</tr>
<tr>
<td>2012</td>
<td>681</td>
</tr>
<tr>
<td>2013</td>
<td>943</td>
</tr>
<tr>
<td>2014</td>
<td>1,293</td>
</tr>
<tr>
<td>2015</td>
<td>1,581</td>
</tr>
<tr>
<td>2016</td>
<td>1,435</td>
</tr>
<tr>
<td>2017</td>
<td>1,164</td>
</tr>
</tbody>
</table>

Note: Estimated value and number of deals for the whole year, based on first three quarters’ figure.

**Banking**

- Payments and lending have been the key sub-sectors driving fintech in banking historically, with a number of them in the top 20 fintech unicorns globally (VC-backed companies valued at over $1 billion).
- Since 2016, investments into payments and lending fintechs have decreased, especially in the developed markets. Main focus expected to move from early-stage funding to late stage financing or exit.
- New fintechs have emerged in personal finance, money transfers and similar areas.

**Insurance**

- Many traditional insurance companies have been focused on IT systems and regulatory transformation programmes, with limited funds to invest in innovation. Hence the industry has lagged behind others in technological innovation.
- Interest in insurtech grew substantially during 2016. Global venture investment in insurtech companies totalled 175 deals, raising $1.7 billion of capital.
- Although most deals have remained small, larger deals are expected in coming quarters as early-stage insurtechs mature and the incumbents adopt more innovations.

**Asset management**

- There has been steady increase in interest in asset management from both Venture Capital (VC) and Private Equity (PE) firms.
- Since 2010, institutional investors have made $11.4 billion of private investments in financial technology firms in the asset management space. The peak in capital invested occurred in 1Q 2016 with $1.9 billion.
- The last four quarters did not see outside financing skewing figures. It was mainly companies raising conservative late-stage funding.
Drivers of fintech

Fintech has grown rapidly, enabled by technological evolution, changing customer expectations, availability of funding and increasing support from governments and regulators.

Fintechs, having no legacy constraints, are ideally placed to take advantage of opportunities arising in the midst of technological evolution

- Fast pace of technological developments including data analytics and the rise of new channels, such as mobile and online, opened new possibilities to those that were ready to adapt (with no legacy systems).
- Technology cost has been decreasing very fast, for example, average cost of storage has declined by 31% per annum over the last 10 years.(4)

“New technologies could transform wholesale payments, clearing and settlement, […] saving tens of billions of pounds of bank capital and significantly improving the resilience of the system”.(5)

Changing customer expectations and their demand for digital services have called for innovative solutions from traditional players and fintechs

- Customer expectations are changing with a growing demand for better experience and service, inspired by digital interfaces delivered by technology companies such as Apple, Google, Facebook etc.
- 63.1% of consumers across the globe have started using fintech products and services.(6)

“Solutions that have the potential to impact the customer experience, such as predictive analytics, are particularly well-positioned for future growth”.(7)

Easier access to funding and capital enables entrepreneurs and founders to start new ventures and innovate in new products and business models

- Funding is available in various forms to support fintechs at different stages of growth.
- For example, seed capital from angel investors and accelerators to nurture initial start-up activities, VC funds and corporate venture vehicles.

“VCs invested $13.6bn of funds globally in fintech in 2016”.(8)

Support from the governments and regulators may lower barriers to entry into services within the financial services industry

- Some governments have started recognising the important role fintechs can play in facilitating and supplementing traditional roles of financial services companies.
- Regulators are proposing new policies, regulatory changes and facilities such as fintech sandboxes to facilitate fintech activities, creating a conducive environment for fintech.

“In 2016, governments across five countries announced the development of regulatory sandbox programs”.(8)

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Fintech propositions in banking revolve around retail and SME customers, with a focus on payments, lending and personal finance.

Figure 2: Fintech companies by proposition

<table>
<thead>
<tr>
<th>Focus areas within banking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payments</td>
</tr>
<tr>
<td>- Payments systems</td>
</tr>
<tr>
<td>- Lending</td>
</tr>
<tr>
<td>- Personal finance</td>
</tr>
<tr>
<td>- Money transfer</td>
</tr>
<tr>
<td>- Digital currency</td>
</tr>
<tr>
<td>- Software/tools</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Billing, automation &amp; streamlining</td>
</tr>
<tr>
<td>- Solutions to streamline invoicing and automate financial processes and billing, targeting SME clients; includes trading platforms.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Personal finance</td>
</tr>
<tr>
<td>- Digital platforms to monitor spending, savings, credit scores or tax liabilities.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Online / Mobile banking</td>
</tr>
<tr>
<td>- Digital banking, deposit and current account solutions, primarily via mobile or online platforms.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Lending</td>
</tr>
<tr>
<td>- Direct lending and underwriting</td>
</tr>
<tr>
<td>- Use of machine learning technologies and other non-traditional methods to assess creditworthiness of individuals and businesses, including SMEs.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Peer-to-peer lending</td>
</tr>
<tr>
<td>- Online platforms for consumer borrowers / SMEs to connect with willing lenders.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Other</td>
</tr>
<tr>
<td>- Money transfer and FX services</td>
</tr>
<tr>
<td>- Digital solution for sending money across borders quickly and cheaply.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Cryptocurrency payments</td>
</tr>
<tr>
<td>- Using digital currencies, for example bitcoin, to make payments faster and more secure.</td>
</tr>
</tbody>
</table>

Key developments
- Focus areas for fintechs have been in banking related technology, ‘with over 70% of investments focusing on the ‘last mile’ of user experience in the consumer space’.\(^{(8)}\)
- Retail and SME lending, and tools for personal finance and payments have seen most innovations.

Key drivers
- Consumers’ expectations for quality service have risen, as they are used to better digital experiences offered by tech and retail companies.
- High penetration of smartphones and other connected devices has enabled adoption of digital solutions.
- By innovating to provide user friendly products, fintechs have gained traction with end customers.

Note: \(^{(a)}\) Analysis was conducted based on 356 fintechs listed in the report ‘FinTech 250’ by CB Insights 2017.

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Fintech propositions in insurance

Insurtechs have started offering innovative and better services for both retail and SME customers from distribution through to servicing.

Figure 3: Fintech companies by proposition\(^{(8)(10)(a)}\)

**Key developments**
- Insurtechs have expanded beyond distribution across the whole value chain to underwriting and claims.
- They are driving new products, better risk selection and pricing, and servicing (including improved claims management).
- New business models such as peer-to-peer (P2P) insurance and on-demand insurance are emerging.

**Key drivers**
- Strong need for the insurance industry to evolve and replace slow and manual legacy processes and systems.
- Consumers are demanding faster and real-time pricing, claims decisions, more transparency and easier ways to choose / switch insurers.

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**Focus areas within insurance**

- **On-demand insurance**: Specialised insurance covering risks based on specific activities at certain times.
- **Insurance coverage dashboard**: Apps that provide analysis of existing coverages and advice on purchase.
- **Digital distribution platforms**: Aggregators focus on user interaction, online brokerage and price comparison platforms.
- **Peer-to-peer insurance**: Business model allowing consumers to pool their capital, self-organise and self-administer their insurance.
- **Connected devices**: Inter-connectedness of physical devices, vehicles, buildings embedded with connectivity to collect and exchange data enabling better pricing.
- **Telematics**: Use of devices in cars and wearables to track customer behaviours and support better risk segmentation.
- **Digital claims management**: Apps which automate and speed up the claims process allowing insurers to process them virtually and deliver better customer services.
- **Fraud management**: Fraud detection and management solutions using big data and analytics, AI and machine learning.

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**Note:** (a) Analysis was conducted based on 111 Insurtechs listed on insuretech.com
Fintech propositions in asset management

Asset management has seen fintechs innovate around advice and distribution.

Figure 4: Fintech companies by propositions

<table>
<thead>
<tr>
<th>Focus areas within asset management</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Portfolio selection</strong></td>
</tr>
<tr>
<td>Robo-advisors</td>
</tr>
<tr>
<td>Digital brokerage</td>
</tr>
<tr>
<td>Investing tools</td>
</tr>
<tr>
<td>Portfolio management</td>
</tr>
<tr>
<td>Software</td>
</tr>
</tbody>
</table>

**Key developments**
- Growing interest in passive investing and increasing use of lower cost automated digital asset management services. For example, robo-advisors.

**Key drivers**
- Pressures on management fees have forced asset management firms to develop fintech solutions which enable cost reduction.
- Changing customer needs and increasing demand for digital experience requires new solutions, especially with millennials entering the asset management market.
- Innovative products attract sticky, younger and more tech-savvy users resulting in a recurring source of revenue.

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Implications for consumers

Fintechs, despite requiring customers to be technologically savvy, have resulted in greater choices and increased ability to make financial decisions.

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Global fintech adoption has increased over the years with over a third of customers stating that they use at least one non-traditional financial services firm.

Close to a fifth of investment management customers surveyed use only non-traditional providers.

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Increasing choice and value

Fintechs are introducing many alternative financial products and platforms providing consumers with more choice around product and access resulting in informed and cost effective decisions.

Reduction of the role of intermediaries and improvement in operational efficiencies enables fintechs to provide products and services at lower costs, and hence increase the returns for consumers.

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Consumer empowerment

Consumers are changing the way they use and think about financial services. Fintechs provide consumers with dashboards and data which provide them more transparency and awareness of products, and control over their choices.

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Dependency on digital access and capabilities

While fintechs deliver services and products efficiently at lower costs, consumers with limited digital skills or access to fast internet connections may find less value from fintechs. Where infrastructure and digital capabilities exist, fintechs enable governments to deliver financial services efficiently to millions of people with no or little access to traditional financial services.

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Figure 5: Customers who use at least one non-traditional firm for financial services, 2016

<table>
<thead>
<tr>
<th>Service</th>
<th>Customers using only non-traditional firms</th>
<th>Customers using both traditional and non-traditional firms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banking</td>
<td>26.5%</td>
<td>29.4%</td>
</tr>
<tr>
<td>Insurance</td>
<td>17.6%</td>
<td>31.4%</td>
</tr>
<tr>
<td>Investment</td>
<td>13.8%</td>
<td>44.8%</td>
</tr>
</tbody>
</table>

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Implications for governments and regulators

Governments and regulators recognise that fintech is a natural evolution of financial services and need to be actively engaged in its development.

Fintechs bring opportunities for economic growth and Governments need to create a supportive environment, in order to seize the opportunity for growth.

“Fintech is a positive disruption which a successful economy like Australia can and must embrace. Growing Australia’s fintech capabilities will position Australia to seize new opportunities to develop export markets for our financial services technology in the transitioning economies of our major trading partners.
— Government of Australia, 21 March 2016”

Government and regulators face a new industry landscape that requires new frameworks and capabilities to govern.

“FCA is (a) thinking about the needs of fintech innovators and entrepreneurs; (b) doing all it reasonably can, within a tight legislative framework, to welcome and encourage innovation; and (c) developing the skills of a team of people who are (presumably) interested in, and want to help, new businesses thrive.
— FCA, 12 April 2016”

Governments around the world are acting to foster and support growth of fintechs. Regulators are refining or redeveloping their approach towards regulation and support offered to fintech innovations.

Main government and regulatory initiatives

<table>
<thead>
<tr>
<th>Project/event initiatives</th>
<th>Set up Coordinating office</th>
<th>International collaboration and fintech bridges</th>
<th>Tax benefits</th>
<th>Investment schemes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulatory sandbox</td>
<td>Policy update</td>
<td>Improving digital infrastructure</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: (a) Based on analysis on five countries / regions: Australia, Hong Kong, Singapore, US, UK.
Implications for financial services institutions

Financial institutions increasingly feel compelled to embrace the innovations brought by fintechs.

Figure 6: Sources of disruption (15)
% of respondents selecting

- Fintechs: 57%
- Regulatory complexity: 51%
- New business models: 46%
- Cyber security: 33%
- Customer adoption of mobile devices: 23%
- Competition from new entrants: 22%
- Labour and talent shortage: 17%
- Changing demographics: 13%

Financial institutions recognise the potential risks. In a survey of 168 respondents within large financial institutions around the world, 57% identified fintechs as ‘the greatest’ source of disruption, ahead of regulatory pressure and other factors such as cyber security.(15)

Meanwhile, financial institutions also view fintechs as sources of innovation. Over 51% of the respondents ranked fintechs as the top source of innovation, with 21% ranking it as the second most important source.(15)

In response to the disruption from fintechs, financial institutions are looking to collaborate and embrace...

Fintechs have disrupted the financial services sector by providing new services/product propositions, with better customer engagement and better quality services. Financial institutions have to keep pace with new technologies and business models, in order to compete with their new rivals.

Financial institutions recognise the potential risks. In a survey of 168 respondents within large financial institutions around the world, 57% identified fintechs as ‘the greatest’ source of disruption, ahead of regulatory pressure and other factors such as cyber security.(15)

Meanwhile, financial institutions also view fintechs as sources of innovation. Over 51% of the respondents ranked fintechs as the top source of innovation, with 21% ranking it as the second most important source.(15)

Figure 7: Approach towards fintech investment (15)
% of respondents selecting

- Partner: 61%
- Build: 52%
- Rent: 32%
- Buy: 24%

Overall, financial institutions are now more likely to push forward their fintech development through partnership, self-build or acquisition.

Partnership appears to be the most popular strategy considered by financial institutions. Partnering with innovators will allow incumbents to bring new solutions to the market quickly.

For firms who have acquired fintechs, integration remains a challenge going forward. Only a third have successfully integrated fintechs into their firms.
Fintech landscape - Summary

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Fintech development

- Fintechs have grown rapidly over recent years and are likely to continue to grow. The focus of fintechs will gradually move beyond customer experience improvement and distribution, to more innovative products.\(^{(16)}\)
- Meanwhile, growing pressure on traditional financial institutions to reduce their cost base will drive more investment into fintechs that focus on middle and back offices.
- Financial services institutions with more manual, complex and out-dated systems (for example, insurance) and business-to-business offerings will benefit from fintech innovations using AI, robotics, blockchain, data analytics and cloud services.
- Regulatory complexities are also bringing regtech and insurtech to the forefront of fintech investments.

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Who does it affect?

- Along with consumer preferences and behaviours, technology has also changed the way consumers use financial services: they require more cost efficient, easy to use and transparent solutions which are able to deliver higher value through a digital experience.
- Financial services institutions recognise the importance of fintechs to innovation and are increasingly more likely to acquire or partner with fintechs.\(^{(17)}\)
- Regulators and governments are seeing the uncertainties and challenges fintechs create. They are looking to introduce new infrastructure and regulatory frameworks in order to support and foster fintech development.

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What is the response?

- To respond to the rapid technological evolution and mounting pressure from changing customers needs, a strategy focused on collaboration may help financial institutions innovate and materialise ideas into outcomes quickly.\(^{(18)}\)
- The industry has come together in the past to bring revolutionary industry wide solutions (for example, SWIFT interbank payments network which was founded and is still owned by banks), so there is a potential to see larger collaborations (for example, applications for decentralised systems, blueprint for digital identity).
- As some of the fintech propositions start to mature, it is likely to see more fintechs becoming an essential part of the ecosystem. In addition, more partnerships will be seen in the areas where mutual benefits can be found: start-ups may offer use of their technology in exchange for access to growth capital, customer base and critical industry infrastructures (for example, regulatory permission).
03. Value of fintech
## Role of the financial services system

A competitive financial services system provides individuals and businesses with access to financial products and services, facilitating everyday life and helping businesses thrive.

### Banking services to support individuals and businesses
- Provides over 140 million current and deposit accounts in the UK, covering over 99% of the adult population.\(^{(19)}\)
- Offers transfer and remittance services.

### Payments infrastructure to facilitate transactions
- Facilitated approximately £647 billion spending through 14.8 billion purchases\(^{(20)}\) in 2016.
- Supported businesses with £94 billion in retail sales through credit card transactions in 2016.\(^{(20)}\)

### Funding and liquidity services
- Lent an estimated £256 billion to homeowners in 2016, up 12% from 2015\(^{(21)}\), helping people to climb up the property ladder.
- Lent £430 billion to companies across all industries (outstanding loan as of year end 2015).\(^{(21)}\)

### Protection for everyday risks and losses
- £44 million was paid out each day in private motor and property claims.\(^{(22)}\)
- Travel insurers paid out £365 million in claims to travellers whilst abroad.\(^{(22)}\)
- Liability insurers pay out £7.2 million every day to protect businesses.\(^{(22)}\)
- £400,000 paid per day in claims for trade credit insurance to protect business against financial distress.\(^{(22)}\)

### Protection of lives and planning for life events
- 5.4 million people in the UK have whole of life insurance and 0.6 million people have term life products.\(^{(21)}\)
- 97% of protection claims presented were paid out.\(^{(22)}\)

### Safeguarding savings and investing for the future
- 19.1 million individual pension policies in force.\(^{(22)}\)
- £8.2 billion was withdrawn from pension pots in 2016.\(^{(22)}\)
- £4.3 trillion asset under management (AuM) by UK fund managers, of which pension assets total around £2.1 trillion.\(^{(19)}\)
Fintechs enhance the role of FS firms and help them provide products and services effectively

How fintechs enhance the FS sector

Value of fintech

1. Fintechs enable access for customers that were previously excluded from the traditional financial system by enhancing infrastructure, innovating in new products, lowering costs and allowing them to enjoy the same standards of services as other customers.

2. Empowered by new technology, fintechs are able to analyse customer data to offer personalised services, and provide more interactive communication through multiple channels, significantly increasing customer engagement and experience.

3. Fintechs enable aggregation of products/services and data, providing information on choices, coverage and pricing of products and services, enhancing fair customer outcomes.

4. Regtech, through use of data analytics and other technologies, offers possible solutions to improve security, mitigate risks and streamline compliance processes.

5. Technologies such as AI and data analytics have enabled fintechs to provide tailored customer support and guidance in a cost effective way. They help customers develop financial knowledge and good saving and spending habits.

While playing a key role in people’s lives and business activities, traditional financial institutions are yet to build and maintain relationships based on trust with their customers. There are various issues and challenges to be addressed, such as limited choices, high costs, lack of transparency, exclusion etc. Fintechs, being the “disruptors” and “facilitators”, are using technology and innovative propositions to help address these challenges.
1 Financial inclusion

A competitive financial services system should be fit-for-purpose for individuals and businesses, enabling them to participate fairly and fully in everyday life and business. Although the UK has a leading financial services industry, some segments of the population could benefit from better access to financial services.

**Credit**

- 1.5 million adults remain unbanked in Britain.\(^{(23)}\)
- Approximately 50% of the newly banked have incurred penalty fees.\(^{(1)}\)

**Banking**

- An estimated 2 million people took out a high cost loan in 2012 as they were unable to access any other forms of credit.\(^{(23)}\)
- The payday loans market reached its peak of £3.7 billion in 2012.\(^{(23)}\)
- Problem of thin/empty credit files impacts 30% of applicants in rented accommodation.\(^{(24)}\)

**Insurance**

- 50% of households in the bottom half of the income distribution lack home contents insurance, compared with 20% of households on average incomes.\(^{(23)}\)
- The average premium for young drivers (aged between 17 and 22) is up to £1,771, compared with average premium of £440.\(^{(26),(22)}\)

**SME financing**

- Rejection rate for first time SME borrowers is around 50% when they apply to big banks.\(^{(24)}\)
- Only 6% of SMEs declined for loans are referred to alternative funding.\(^{(24)}\)
- 37% of businesses appear to give up their search and cancel their spending plan after the first rejection.\(^{(24)}\)

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**Main challenges around financial inclusion**

**Inaccessible facilities**

- Limited access to financial services infrastructure (for example, branches, ATMs, internet).
- 12 million people live in rural or remote areas of the UK, and are impacted by the closing down of branches (583 closures in 2016).\(^{(24),(23)}\)
- 1 in 5 consumers in the UK lack digital skills, and will find it difficult to manage their finances online and access digital services.\(^{(24)}\)

**Lack of non-standard products**

- Mainstream financial offerings are designed to meet standard demand, leaving people with non-standard requirements unprotected. They may face higher costs to use basic services.
- Examples include: insurance for young drivers, health insurance for disabled people.

**Lack of financial profile to support applications**

- Major financial services companies tend to rely on past records (for example, credit profile, lending history) to assess applications. Individuals with little or bad record face difficulties in accessing credit products from high street banks.
- SME businesses encounter difficulties in obtaining low cost funding from banks.
High cost is one of the reasons preventing consumers from getting the product or service they need. Customers, especially those in poor financial situations, get excluded from financial services.

Fintechs have significantly reduced the costs by providing services through innovative yet simple ways.

For example, flexible, subscription-based insurance policies enable infrequent drivers to save on premiums.

New online money transfer service providers eliminate high bank fees by matching its users’ currency demand and supply. This has particularly benefited large number of customers who use cross-border payments.

Financial inclusion - Offering simple products with lower prices

Overview

— Pay-as-you-go car insurance for infrequent drivers through a user friendly mobile app.
— Founded in 2014 in Scotland, with head office based in London.

— A money transfer service across 750 currency routes, with a customer base of over 1 million. (28)
— Founded in London in 2010, launched in 2011.

How it works

— Insurance can be bought via a monthly subscription ranging between £10 and £40 (27). This covers the car whilst it is parked and users buy top-up policies only when they need to drive.
— It also offers short-term insurance that allows drivers to get cover by the hour.
— Information collection, purchase and customer services are all conducted via mobile app.

— TransferWise has built a local banking network across the world, which enables money transactions without crossing the borders.
— The platform automatically matches the currency flows at the real mid-market exchange rate and pays out from the local account.
— This arrangement cuts the traditional banking fees and avoids currency conversion.

Impact

— Significantly reduced the amount spent on car insurance by offering flexible insurance by the hour.
— Simplified the sign up and purchase processes.
— Provides tailored products that meet customers’ needs.

— Transfers £1 billion per month globally, saving consumers £1.5 million every day compared to traditional bank transactions. (29)
— The service is up to 8 times cheaper than the UK’s major high street banks. (30)
Financial inclusion - Helping the ‘underbanked’ with innovative solutions

High street banks have managed to do very little to address the issues faced by those outside their existing customer base. Some fintechs have developed alternative solutions that provide similar functionality to a bank account, in order to support low income individuals. An interesting example we discuss here is a payment service linked to payroll. Fintechs also provide new solutions for those with ‘thin’ credit files. By broadening data scope and utilising data analytics, these firms are able to build alternative credit profiles for customers and enable them to access credit.

1. Aire
   - An algorithmic credit scoring engine that uses AI to conduct assessment and underwriting.
   - Designed to serve the increasing number of non-conventional applicants, such as self-employed individuals and first time borrowers.
   - Founded in 2014, based in London.
   - The Interactive Virtual Interview engages directly with the customers to assess their profession, education, financial maturity etc., simulating the actual underwriting process with AI.
   - Supports lenders through an online underwriting tool and data directly sent back through an API Portal.

2. Doreming
   - A fintech payment service allowing individuals to shop without access to a bank account.
   - Designed to target low income workers.
   - Founded in 2016.
   - The real-time payroll system gives workers access to their daily incomes (in which payments are processed through a virtual account). The virtual account is linked to their payroll account.
   - Supports businesses via the cloud-based All-in-One HR & Payroll management system.

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4. Offers opportunity to create alternative credit profile for self-employed workers and first time borrowers.
   - Fourth credit bureau in UK, increasing competition in the market.
   - Provided credit scores for over $5 billion of loan value.

5. Allows unbanked workers to pay for basic items and enables them to develop their employment history to access banking services including affordable loans from official financial institutions (rather than resort to payday lenders).
   - Wants to create a market for 400 million workers.
High street banks have traditionally underserved SMEs with short trading history, such as start-ups, whose owners had to rely on consumer credit (personal loans, credit cards) to fund their working capital needs.

In addition, some SMEs are discouraged by complex loan applications which could take weeks to process.

A number of fintechs have emerged offering flexible alternative financial solutions for SMEs. Through business model innovations (for example, use invoices as collateral) or applying data analytics, fintechs have simplified the processes, and increased customer coverage, making capital more accessible for SMEs.

**1 Financial inclusion - Providing SMEs with access to funding**

- **Overview**
  - Direct lending platform and focus exclusively on small business finance.
  - Founded in 2010 and headquartered in London.
  - iwoca provides financing to small business.
  - Founded in 2011, with 160 staff headquartered in London.

- **How it works**
  - Funding Circle connects creditworthy small businesses looking for finance with people and organisations with money to lend through their online platform.
  - Businesses can borrow from a wide range of investors, including more than 70,000 people, the UK Government, local councils, the European Investment Bank, a university and a number of financial organisations such as pension and insurance funds.
  - Offers revolving credit facilities with on-demand access to £1,000-100,000 to SMEs in the UK, Germany and Poland.
  - Small businesses apply online via the iwoca website (or through its partner network) within minutes and can get funded within hours of an application.
  - Data-driven credit assessment based on multiple data sources.

- **Impact**
  - More than £3.5 billion has been lent to over 36,000 businesses across the UK, USA, Germany and the Netherlands.
  - ‘a real success story… playing an important role in our economy – helping businesses to grow and create jobs’.
    - (20) – Chancellor Philip Hammond
  - Funded more than 10,000 businesses since 2012 from its own balance sheet in more than 30,000 separate transactions.
  - Removes barriers for small businesses that are unable to access financing from traditional lenders.
Empowered by digital experiences offered by tech and retail players, customers have greater expectations around experience and engagement from financial services providers.

However, financial institutions have been slow to respond to changing customer expectations. According to a survey by Capgemini, overall customer satisfaction was only at the level of 31.1%.(23)

Ongoing engagement and interaction are the most important aspects that reflect customer experience.

Examples of areas where customers value superior experience:

### Banking
1. Digitally update transaction limits.
2. Real-time alert notifications.
3. Real-time information to manage financial life.
4. Initiate or close a loan from digital channels.
5. Real-time loan quotes on mobile.
6. Onboarding process.

### Insurance
1. Proactive updates on status of claim.
2. Instant claim notification to insurer online and / or through mobile.
3. Automatically connect to third parties to assist with an emergency.
4. Policy renewal and cancellation digitally.
5. Reward and incentive programs enabling savings.
6. Onboarding process.

### Customer expectations on engagement

#### Frequent communication via multiple channels
- Customers demand more frequent communication from their services providers through multiple communication channels.
- 57% of insurance customers prefer contact at least semi-annually; however only 47% receive this.(26)

#### Personalisation of services
- Consumers want more personalisation and are willing to participate and share data.
- 63.2% of customers said they would like to have ‘personalised advice and data-driven recommendations for investment goals’ when talking about the asset management services they receive.(23)

#### Ease of control
- Consumers appreciate the ability to control and manage their financial products via digital interfaces, anytime and anywhere.
- This feature is particularly valued in banking and payment products where frequent usage is required.
Customer engagement - Simple and engaging interaction with customers

Fintechs are increasing consumer confidence in financial services by providing products that are engaging and give more control to the customer.

In areas such as claims management in insurance, customers have often suffered from bad experience harming the trust with the insurer.

Fintechs help to increase customer retention rates by making processes easy and transparent to both parties involved.

Some digital health platforms engage customers by offering personalised advice and communications in interactive methods to build close client relationships.

---

**Overview**

- A white label service to help insurers “deliver their promise” and make policyholders whole following a loss.
- SaaS-based motor claims platform; next focus area will be on property claims.
- Founded in 2016 and based in Nottingham.

**How it works**

- Customers can digitally manage their claims via their chosen device.
- The platform enables virtual damage assessment and claims processing including anti-fraud AI.
- It also offers customers the ability to choose repair workshops/replacement vehicles from the same mobile app.

**Impact**

- Reduces the workload of insurers and loss adjusters and improves claims handlers’ productivity (approximately 10x).\(^{38}\)
- Improves customer experience resulting in a 60% increase in renewals during pilots.\(^{38}\)
- During pilots, the use of the platform has resulted in reduction of indemnity spend of 10-20%.\(^{35,36}\)

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**RightIndem**

- A platform which helps insurers engage customers around their health, and build closer relationships with them through a digital health coach in a mobile app: a ‘personal trainer in their pocket’.
- Customers chat to the coach in a ‘Whatsapp’ style chat, creating an easy way for insurers to build stronger personal relationships with them.

**boundlss**

- Customers connect their fitness app or wearable (Boundlss’ integrates with over 200 apps and wearables).
- The AI analyses their data and sends out personalised messages about their activity, and helpful suggestions on exercise, nutrition, sleep, stress management, mindfulness and sleep.
- Customers can chat to the coach and ask for help and suggestions to meet their health goals.\(^{37}\)

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- The platform enables virtual damage assessment and claims processing including anti-fraud AI.
- It also offers customers the ability to choose repair workshops/replacement vehicles from the same mobile app.

---

- Boundlss’ blended AI and human health coaching is being trialled by health insurers in Hong Kong, Singapore and in the UK.\(^{38}\)
- Customers have found this to be an engaging and easy way to chat to their insurer about their health and their needs, and many form close bonds with their ‘coach’.

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Customer engagement – Simplified solutions for SMEs

Fintechs have largely focused on simple solutions, transparent fee structures and products that help individuals and SMEs resolve issues they did not have answers to before.

Following the wave of digital only banking and payment solutions in the retail space, SME customers recently started to benefit from the rapid development in the “last mile” of payment and banking services and insurance.

With the help of fintech tools, SMEs are able to participate in the digital payments growth and simplify their daily financial management.

iZettle

— iZettle provides services which allows small businesses to take payments, register and track sales and get funding.
— Founded in 2010 from Stockholm.

Tide

— Digital only account services targeting small businesses.
— Founded in 2016 in London.

Overview

— Provides a chip-card reader and a point-of-sale app for smartphone and tablet based payments.
— Complete electronic point-of-sale solution for hospitality clients.
— Provides partner applications and small business loans.

How it works

— Offers current account functionality for small businesses.
— Built-in tools to help business operations including categorising transactions, attaching files to transactions to help manage expenses, and sending invoices reminders.

Impact

— Has witnessed its small and micro customers grow 15% every year.
— Has reported 1,000 new businesses being introduced every day, and an annual processing volume of €5 billion.
— Users reported increase of sales as a result of accepting card payment.

Sales have increased more than 50% since I can take card payment.” – a market vendor

— Announced a new partnership with iwoca to initiate its first loan programme, offering up to £100,000.
— Lowers cost and simplifies admin tasks for SMEs.

“People who run small businesses waste time with crappy administrative tasks, so we work out smart ways with software to automate these things.” – Tide CEO

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3 Transparency and trust

Trust is one of the main pillars of an effective financial services system. With a reduction in consumer confidence since the financial crisis in 2008, only just over a third of customers say they trust traditional financial services firms.²³

Although traditional firms still hold a slight advantage over the newcomers and fintechs in areas such as quality and security²³, non-traditional players are more valued for their timely and more efficient services and value for money – factors which are more important in winning customers and building their trust.

With the appeal of digital solutions being stronger amongst the customer segments of the future (Generation Y and Generation Z), fintechs have a solid platform on which to build trust, especially as the regulators take an increasingly active role in this space.

What affects trust in financial services companies and their products?

**Banking**
- System outages, broken promises around local branch closures, regulatory scandals and fines have damaged banks’ reputation and their ability to maintain customers long term.
- Propensity to switch is increasing with 1 in 5 UK customers stating they would consider banking with PayPal if it offered current accounts.²⁶

**Insurance**
- Customers’ reliance on online reviews is increasing; negative customer experience is easier to share.
- Price comparison sites and aggregators are increasing awareness of competitors and their products in the market.
- Customers may be willing to share more personal data but only if security and privacy can be guaranteed.

Digital has given customers a window into the factory. The aim of RBS is to become ‘radically transparent’ to meet the corporate objective of becoming the UK’s most trusted bank.

— Chris Popple, RBS²⁶

Main issues around trust and transparency

**Clarity of services and offers**
- Recent regulatory scandals and fines (for example, PPI) have shown the importance of being transparent with customers.
- Awareness of financial products and providers is increasing but customers and regulators are demanding information and advice to be presented in plain/easy-to-understand language.
- With more customers taking decision making into their own hands, transparency is becoming vital in attracting and retaining customers.

**Transparency on fees**
- Demand is increasing for greater transparency on fees which is proving difficult for traditional firms with complex pricing policies and structures.
- Fintechs are taking advantage of technology to provide simple fee structures, dashboards to monitor activity and comparison tools to help customers understand differences between different providers and offerings.

**Security and exchange of data**
- As the financial services industry becomes increasingly dependent on data, customers are more willing to share their data in exchange for personalised services.
- Those that can show an ability to safeguard customers’ privacy and ensure security will be seen as trustworthy and will have stronger customer relationships.
In industries with many legacy complex systems and manual processes such as insurance, many businesses have benefited from fintechs which brought digital platforms with fast and lean processes that help them reduce workload and serve their customers more efficiently.

Overview

- An online B-Corp Certified (US) brokerage service delivering policies tailored to individual business requirements.
- Owned by Travelers, a US-based insurance company.

How it works

- Provides public liability insurance and landlord insurance for small, micro-businesses and landlords.
- Uses Snowplow analytics\(^{41}\), Google and Twilio to personalise site experience for individual users.\(^{41}\)
- Provides insurance policies from leading insurers including AXA, Hiscox, Ageas etc. along with its own insurance brands which are underwritten by AXA and Munich Re.

Impact

- Has more than 425,000 micro-business customers since 2005, covering more than 1,000 classes of business.\(^{42}\)

Value of fintech

- Commercial insurance brokerage portal which allows agents to link with carriers.
- Delivers a more streamlined insurance experience to commercial insurance agents.
- Based in Ohio, US.

- Portal allows the insurance agent and carrier to streamline the quoting, binding, and servicing elements of new and existing policies.\(^{43}\)
- Offers solutions in areas of underwriting efficiency, customer retention and management, and risk data aggregation.
- Targets independent and captive insurance agents and brokers.
- Has partnered with Hiscox.

- Within six months of its launch, more than 3,000 insurance agents and brokers signed up for Bold Penguin.\(^{43}\)
3 Transparency and trust - Increasing transparency using dashboards and all-in-one solutions

With an increasing number of financial products available to customers and many purchasing more than one product, it has become more difficult to consolidate all the paperwork in a single place and understand where overlaps or gaps might exist.

A number of fintechs have started offering solutions which focus on organising financial products (for example, insurance policies or pension plans) in one place and using technology like AI to help customers identify gaps in their financial needs.

**Overview**

- **PensionBee**
  - A web app that enables its users to bring and manage all their pension plans together.
  - Founded in 2014, based in London.

- **An AI-driven application acting as a central place for buying, managing and getting advice on insurance.**
  - Founded in 2016, based in London.

**How it works**

- Enables users to manage their savings by finding and combining old pensions into an online value plan.
- Customers have access to their current balance, a projected retirement income and a tool to set up regular or one-off contributions.
- Easy drawdown solution for customers over 55.
- Pension plans are managed by BlackRock and State Street.

- Uses data from the holistic profiles of individuals to price insurance policies.
- Brolly Advisor provides insurance advice and keeps the customer informed about coverage gaps.
- Brolly Locker stores all policy documents, key dates and contacts.
- Brolly Shop enables consumers to purchase the best value insurance and switch providers easily.

**Impact**

- Already has a customer base of more than 50,000 since its start in 2014.

- Brolly has impacted the role of brokers by using AI and data analytics to provide personalised insurance buying.
Security and compliance

Retail and SME customers are particularly vulnerable to fraud, cyber attack and other risks online. With more financial services activities now carried out online, security becomes a key issue that needs to be addressed.

A competitive financial services system would need to create a secure and disciplined environment for financial activities. Financial institutions have the responsibility to meet regulatory and compliance requirements; however they have yet to find an effective, efficient and economic solution.

With the use of technology and data analytics, regtech offers possible solutions to improve security, prevent risks and streamline compliance processes.

Key areas that regtech can help

Fraud detection and prevention

— Leverages machine learning technology and data analytics to check and verify identity.
— Analytics to understand fraud patterns and predict susceptibility to fraud.

Cyber security

— Identify information security and cyber security threats, conduct vulnerability management, threat remediation and alert notification to help companies prevent cyber risks.
— Provision of pre-emptive security services to protect against cyber.

Internal risk management tools

Includes a wide range of risk management tools supporting financial institutions such as:

— Anti-money laundering (AML) / Know your customer (KYC) tools.
— Enterprise risk management.
— Portfolio risk management.
— Regulatory reporting.
— Conduct monitoring.
With the growth of e-commerce, merchants and financial services institutions face challenges in customer verification to protect their business. Card security and online payments fraud remain the biggest issues today.

To mitigate rising fraud related issues, fintechs are applying technology to detect fraudulent and abnormal financial behaviour.

Security and compliance - Helping businesses to detect fraud

### Overview
- A fraud detection and prevention platform to stop online payment fraud for merchants.
- Founded in 2014, based in London.

### How it works
- The platform imports the client’s visitor, registration, and payment data in real-time, via an API and uses AI to analyse it.
- Uses machine learning and graph network techniques to analyse customer behaviour and look for fraudulent patterns in customer data.
- Ravelin recommends the merchants whether to accept or reject a transaction in real-time. Ravelin has several hundred proprietary fraud signals.

### Impact
- Has proven to reduce the charge-back to 0.1% across the client base.\(^{(46)}\)
- Managed to reduce charge-back of Deliveroo by 90% using machine learning to predict if an order is fraudulent.\(^{(47)}\)

### Overview
- Using big data and text analytics Hello Soda provides multilingual software solutions, helping businesses leverage digital data to verify identity, reduce fraud, and personalise the user experience.
- Founded in 2013, Hello Soda is headquartered in Manchester with subsidiaries in Austin and Bangkok, and has clients across 5 continents.

### How it works
- Uses advanced text analytics techniques such as psycholinguistics, natural language processing and Bayesian belief networks to support verification.
- With explicit user consent, Hello Soda’s primary verification solution PROFILE ID, collects and analyses data from a consumer’s digital footprint allowing businesses to confirm a user’s identity and recognise fraud indicators.

### Impact
- Recent clients of Hello Soda have seen a 30% uplift in customers they are able to verify ID more quickly compared against traditional data sources.\(^{(78)}\)
- Customers who are verified through Hello Soda’s solutions prove to be better performers as banks have seen a reduction in delinquency rates of 27% when using Hello Soda’s solutions.\(^{(78)}\)
Cross border online commerce continues to grow exponentially and merchants face the challenges of customer verification to protect their business.

Some regtechs are applying technology to identity verification applications such as digital identities, passports, e-residency, birth certificates etc. With reliable data and advanced technologies, the process of identity verification can be automated during customer registration or checkout to further reduce fraud.

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**Overview**

- Global online identity verification company which provides instant electronic identity and address verification.
- Founded in 2011 in Vancouver with a satellite office in San Francisco.

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**How it works**

- Trulioo’s bank-grade electronic identity verification (eIDV) platform, GlobalGateway, enables businesses to perform frictionless identity verification via more than 200 sources.
- Trulioo’s identity verification solution helps businesses and organisations streamline and automate AML and KYC processes.
- Through a single API, clients can instantly verify customers and businesses online and screen them against international watch lists.

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**Impact**

- Has the ability to verify over 4 billion people in 60+ countries.(49)
- Helps businesses scale into new markets faster, more efficiently saving them time, money and resources.
- Helps businesses meet complex compliance requirements while also reducing fraud/risk.

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**Simplifies compliance for financial institutions based on an AI powered SaaS suite.**

- Founded in December 2015, based in London.

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- AI powered SaaS platform.
- Have tools to interpret principle based regulations, and map them to business processes.
- Simplifies and automates repetitive exercises, with the support of management tools.
- Provides visualisation and analytics on regulatory reporting.

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- Helps financial institutions be more effective at managing their compliance commitments, freeing up management’s time to focus on driving the business forward.

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Navigating the financial services world can be daunting and time consuming to many customers. Complexity of products, low level of awareness, lack of plain language solutions and easy to access advice creates information barriers.

Fintechs offer digital platforms providing investment and savings advice, advanced analytics on digital transactions and personalised offers with a touch of a button.

**What guidance and support could financial services firms provide?**

### Banking
1. Real-time bank balances.
2. Alerts when exceeding monthly expenditures, unexpected payments.
3. Spending pattern analysis.
4. Savings advice.
5. Digital card control.
6. Individual transaction notifications.

### Insurance
1. Gaps in coverage.
2. Personalised offers and advice.
4. Alerts as/before the event (for example, break-in) happens.
5. Consolidated view of all policies and paperwork.

### Asset management
1. Consolidated view of all assets and portfolios.
2. Personalised advice and recommendations.
3. Instant view of possible and earned returns.
4. Convenient and simple way to interact and access information.

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**Main areas for support and guidance**

**Decision making**
- Product complexity, lack of financial education and awareness together with an increasing number of financial products create a need for support with decision making to consumers.
- Price and product comparison sites help customers in some areas but advice using chatbots and robo-advisors is becoming increasingly attractive.

**Risk awareness and mitigation**
- Insurance companies are moving away from transaction-only based relationships to more comprehensive relationships to help customers mitigate risks.
- Customers are willing to exchange their data for a lower insurance premium or insights and advice on spending, saving or asset management.

**Savings and investment advice**
- The UK has a historically low savings rate compared with other European countries with 4 in 10 UK adults having less than £500 in savings to cover an unexpected bill.
- A number of fintechs have introduced micro saving solutions which help customers understand their spending habits and simplify and automate savings they can afford.
Telematics and connected devices are changing the way consumers buy insurance and interact with insurance providers. Consumers install or connect their existing devices to insurers’ platforms in order to receive notifications and help them mitigate risks. Insurers are moving away from a simple transactional role to a risk partner/advisor role. At the same time, consumers benefit from lower premiums and savings from avoiding the accidents and break-ins etc.

Overview

- Connected home insurance provider that uses smart technology to connect, protect and insure homes.

How it works

- Uses connected home technology to provide wireless smart home security devices to policyholders including cameras, leak detectors, motion sensors and smoke detectors which are all connected to the Neos app.
- The app sends alerts to homeowners in case of a break-in, leak or fire and also contacts the 24 hour monitoring team.
- Includes comprehensive home insurance.

Impact

- Will impact the £7 billion home insurance and the UK’s Internet of Things (IoT) market which is expected to grow to 156 million connections by 2024.

MYPOLICY

- Specialises in insurance for young drivers through a black box policy (telematics), and offers mileage-based insurance to low miles drivers.
- Helps safe young drivers and inexperienced drivers to secure lower premiums with some of the UK’s leading insurers.
- Installs telematics to record driving history and monitor mileage.
- Provides an online dashboard for monitoring driving behaviour.
- Offers rewards for safe drivers.

Impact

- Telematics based motor insurance has witnessed a 40% surge in a year with approximately 445,000 people using technology to monitor driving behaviour.
- Claims savings of 65% on premiums for drivers on the black box policy.
In the digital age, consumers don’t have the time to manually monitor and track numerous accounts, collect all the necessary paperwork or keep on top of all financial products they use.

Fintechs have come to help consumers by introducing digital platforms which allow customers to link their bank accounts, cards and investments in a single place to analyse spending patterns, provide insights on user habits advise the best ways and amounts to save, all with a click of a button, and available via an app.

Guidance and support - Educating and helping customers manage their savings

Overview

- Oval is creating a platform designed to tackle the global issue of financial literacy.
- The app also leverages a community experience to make saving more dynamic.
- Founded in London in 2016 and with offices in London and Turin.

How it works

- Allows users to link the app to their bank accounts and cards and have an overview of their monthly budget with all expenses and earnings categorised automatically through machine learning and collective intelligence.
- Educates users on how to save effectively by monitoring their spending habits and by making savings automatic through automated saving rules that are linked to transactions.

Impact

- Users of Oval Money now save an average of £114/month versus £72/month just 5 months ago, that is a 58% increase in savings. (52)
- “I’ve managed to save so much in under a month, meaning I could buy the new shoes my daughter needed without worrying” – Oval customer

Moneybox

- Mobile app that helps customers save and invest for the future.
- Based in the UK and regulated by the FCA.

- Moneybox enables users to invest the spare change from their everyday purchases.
- Users can sign up to Moneybox and open an ISA in minutes from their mobile phone.
- Users can invest into a Stocks & Shares ISA, with as little as £1. Tracker funds are provided by Vanguard, BlackRock and Henderson.

- Encourages young people to save, opening up the market to a new generation of investors.
- Democrats investment via simple and engaging mobile experience.
Guidance and support - Simplified digital asset management advice and support

A number of Fintechs have started offering online investment advice through robo-advisors and chatboxes to offer convenience to consumers who don’t have the time to physically visit or who can’t afford financial advisors.

Moreover, the use of algorithms and AI have reduced the costs of providing tailored advice to customer, compared with the traditional independent financial adviser (IFA) model. Robo-advice has enabled customers who were not able to afford such services to benefit from the services at an affordable price.

It will have a positive impact on the society’s saving and retirement planning.

Overview

WealthWizards

- An online independent financial advisor via a simple online app.
- Founded in 2009, based in Leamington Spa.
- Directly regulated by FCA since 2011.

nutmeg

- An online discretionary asset management company.
- Founded in 2011 in London.

How it works

- Combines financial planning, actuarial science and smart software technology to offer pension and retirement advice at affordable cost.
- Works with employers and pension consultants to offer online contributions and at-retirement advice to employees.
- Offers white label algorithm-based SaaS, providing advice and guidance solutions to large financial services brands.

- When clients sign up they are asked about their investing goals and their risk preference. With that information, Nutmeg helps customers choose a portfolio that is right for them.
- Portfolios are diversified across different asset classes, countries and industry sectors, with use of ETFs to keep costs low while maximising diversification and transparency.
- Nutmeg offers two investment styles – fully managed and fixed allocation.

Impact

- First online app to provide affordable and accessible financial advice for pension investments.

“Our services are designed to address the advice gap. Using AI and expert systems to build robo-advice solutions, we are addressing a largely underserved population, creating a new market” – CEO, Wealth Wizards

- Has more than 47,000 customers and more than £900m of AuM.

“The way consumers save the invest is changing. […] We are leading this change by offering smarter investment options for both experienced and new investors” – Chief Marketing Officer, Nutmeg
Risks and implications

While fintechs deliver significant value to end customers and the wider financial services market, there are emerging risks that need to be mitigated.

Fintechs need to consider some emerging risks …

Data Privacy
- Almost all fintech solutions involve data exchange and analysis, which pose potential risks to customers’ data privacy.
- Ensuring data security will be key to protect customers and increase their willingness to share their data, enhancing the trusted relationship.
- While UK Open Banking initiatives will enable fintechs to have access to more data from banks, fintechs will need to comply with the rules on data storing and privacy of GDPR.

Cyber security
- Cyber threats are a growing concern in any sector. As financial services become more connected, it exposes customers to the risks of fraud.
- Fintechs are also vulnerable due to their size, maturity and level of technological exposure.

Financial stability
New players may develop their product and systems without sufficient risk management expertise or under-estimate the amount of risk taken on. As a result, financial activities carried out may fall outside the more rigorous regulatory perimeter and pose a risk to the wider system. For example, existing capital buffer calculation may not be sufficient for high frequency transactions.

Players in the financial services ecosystem should work together to mitigate risks…

Balanced policymaking from regulators
Rising risks should be captured in the regulatory framework. A careful balance must be struck, with regulations providing necessary protection and encouraging innovation without hindering the development of fintechs. Policymaking will need to be nimble, experimental and cooperative.

Actions from fintechs
Fintechs need to enhance risk prevention mechanisms in their products / offerings in order to protect customers, as well as develop risk management capabilities to manage operational risks.

Support from governments
The Government would need to play a key role in raising awareness of potential risks, and invest in improving the overall environment for data protection, cyber security and financial stability. This could be achieved through providing an educational programmes, sponsoring academic research, etc.
04. London and UK as a fintech hub
The fintech ecosystem

A vibrant and successful fintech ecosystem requires six key components to be attractive to fintechs and other players.

Components

1. **Market**
   - Demand for fintech, and appetite and adoption rates from financial institutions, SMEs and retail customers.

2. **Capital**
   - Availability of funding for fintechs at different stages of maturity and through various funding sources such as seed, private VC funding, government-backed schemes etc.

3. **Government**
   - Government participation and openness to fintech development through progressive policies, tax incentives and programmes to attract and support start-ups.

4. **Regulation**
   - Capability of regulators, friendliness of regulatory environment and the level of progressiveness and support for fintechs.

5. **Talent**
   - Availability and access to technology, financial services and entrepreneurial talent, including existing and pipeline of talent.

6. **Infrastructure**
   - Quality of affordable infrastructure appropriate for start-ups with innovative and flexible business models, including hard infrastructure such as office space and soft infrastructure such as industry standards.

Page 45-50 illustrate examples of fintech hubs which have good capabilities across the six components followed by a qualitative view of how the UK performs (Page 51-56).
Key attributes of fintech hub - Market

Strong market demand is a fundamental driver for fintech growth. Successful fintech hubs will be those that strategically leverage local demand or provide a gateway to a bigger market.

Singapore

Singapore is a large financial services centre with over 200 banks present with many headquartered there. The local fintech sector has benefited from the collaborative attitude and active involvement of the local banks and insurers. It hosts more than 200 fintechs dominated by payments and wealthtech. FS

Financial institutions have established accelerators and corporate venture funds (CVC) for investing in fintechs. For example:

- United Overseas Bank (UOB) started Tag. Pass accelerator program and launched a UOB Mighty mobile wallet.
- Oversea Chinese Banking Corporation launched an accelerator program "The Vault", investing S$100 million in building data capabilities.
- MetLife LumenLab was established to develop disruptive new business models in wellness, wealth and retirement areas.

"In Singapore financial institutions have maintained customer trust and therefore do not see fintechs as a threat. The banks and fintechs are working in a collaborative model."

- Tek Yew Chia, Head of Fintech, KPMG Singapore

China

China has a very big addressable market with a digitally savvy population and a less developed financial services industry open to innovation.

- With a population of approximately 1.4 billion, China is leading fintech adoption around the world with over 80% of consumers using at least one non-traditional financial services firm in 2016.
- Payments and lending have already passed the tipping point of disruption in the Chinese market. For example, its peer-to-peer cumulative lending volume is expected to account for 9% of total retail loans by end of 2018.
- China has nurtured several fintech "Unicorns" each with valuation over $1 billion, including Ant Financial, Lufax, Qufengqi and Jimubox.

"If we put customer driven and government led models at the two ends of the spectrum, China is definitely at one end of it, where market is driven by large consumer base"

- Tek Yew Chia, Head of Fintech, KPMG Singapore
Key attributes of fintech hub - Capital

Ability to provide funding at all stages of fintech development from a variety of sources (seed, VC, government) is critical to nurturing a successful fintech ecosystem.

Access to funding is one of the crucial ingredients for a fintech hub. Companies require different types of capital depending on the stage of their development. Early stage investment such as seed and crowd funding will attract new businesses but to ensure sustainability there should be sufficient growth capital for example, well established VC sector.

Where private investments may be insufficient or additional stimulus is required government backed schemes and tax incentives can help create favourable conditions for fintech hubs.

Silicon Valley

Silicon Valley is known not only for its strong association with innovation and technology but also for the amount of capital it is able to attract.

VC investment reached $4 billion (232 deals) in 2015 in Silicon Valley, with $2.4 billion (192 deals) invested in 2016. Many fintech start-up investors providing both early-stage and growth capital are based in Silicon Valley, for example, well established VC sector.

Private accelerator programmes such as Y-Combinator and Plug and Play offer funding, 3 months of support and mentoring and demo days to investors.

Singapore

The vast number of VC investors in Southeast Asia as well as multiple government funding schemes make Singapore an attractive location for fintechs.

VC investments in Southeast Asian fintech start-ups totalled approximately S$150 million in 2015, with Singapore contributing a significant share.

Local investor presence. For example, Life SREDA, Golden Gate ventures, makes it easier to access VC funds.

Innovation & Enterprise Office runs a number of programmes supporting fintechs.

Early-Stage Venture Fund (ESVF): invests S$10 million on a 1:1 matching basis to seed several VCs.

Proof Of Concept Grants (POCG): up to S$250k for technology projects.

Technology Incubation Scheme (TIS): up to 85% co-investment Singapore-based start-ups.
Success of many fintech hubs has been driven by government initiatives such as financial incentives, collaboration platforms and innovation programmes.

Fintechs are attracted to locations with governments that stay open, are willing to collaborate and incentivise innovation and entrepreneurship.

Government programmes designed to increase competition and promote innovation together with financial incentives play a key role in building a successful fintech hub.

Some governments have taken a very active role in fintech development (for example, Australia, Singapore) by creating funding schemes, effective tax breaks and making it easy to set up and navigate complex governing systems. These regions have managed to grow the fintech market in a very short time.

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**Singapore**

Various government agencies support the Singapore innovation ecosystem by providing mechanisms such as government grants, tax incentives and other support available to fintechs

- The Monetary Authority of Singapore (MAS) continues to drive the majority of fintech activity, shifting the focus in early 2017 from education and innovation to promoting technology adoption and attracting companies in Singapore. 

- MAS is committed to establishing a smart financial centre and has committed $225m to fintech growth.

- MAS has set up a Fintech Office to serve as a one-stop shop for all fintech matters which enables a whole-of-government approach to the fintech ecosystem.

- MAS is also organising Fintech Festivals and events to boost fintech innovation in Singapore.

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**Australia**

The Government has entered into multiple international cooperation agreements, launched innovation programmes with funding, tax and infrastructure support.

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**France**

Growing government support includes investments through La French Tech, incentives to relocate to/set up in Paris and industry events such as Paris Fintech Forum.

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**Hong Kong**

Increasing government focus, support and co-funding, for example IP Trading Hub, Innovation and Technology Venture Fund (HK$5 billion), Cyberport, Accelerator programme.

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**Germany**

Finance Ministry’s FinCamp encourages collaboration between FIs and fintechs. There are support options for start-ups to help navigate legal and tax processes.
Key attributes of fintech hub - Regulation

Regulatory complexities can be challenging for start-ups and countries with more flexible approaches seen to be attractive to the fintech players.

Regulators have a key role in protecting the stability of financial markets. With the rapid development of fintech, regulators need to stay alert of new risks while providing an environment that supports innovation and competition.

While some regulators are staying cautious, others are taking a more active and collaborative approach.

Countries like Australia and Singapore are proactively helping fintechs navigate complexities of regulations, allowing fintechs to test their products through Regulatory Sandboxes under limited and more relaxed regulatory standards.

Examples of Regulatory “Sandboxes”

Australia

Australian government and regulators have started taking an active interest in fintech development and provide support through a number of initiatives:

- The number of fintech start-ups has increased from 100 in 2014 to more than 500 in 2017 with $0.7 million invested in 2016.
- National Innovation and Science Agenda committed approximately $500 million to promote innovation and offers tax incentives, talent initiatives, access to crowdsourced equity funding and an incubator support programme.
- Developed innovation hubs to help fintechs navigate the regulatory landscape which includes senior staff being available at open events and industry hubs to respond to questions.
- Australian Securities and Investments Commission Regulatory Sandbox allowing fintechs to test certain services for up to 12 months without an Australian Financial Services or Credit Licence.

Singapore

Fintechs can offer their solution to targeted groups of customers for a period of time under certain MAS conditions. They are tested in a safe environment before mass deployment.

Hong Kong

Following Singapore’s example, Hong Kong introduced Regulatory Sandbox for fintechs in 2016 to allow institutions to gather data and feedback on new products before meeting regulatory standards.

Canada

The Canadian Securities Administrators (CSA) launched its Regulatory Sandbox Initiative in early 2017 which will allow fintechs to operate in all Canadian jurisdictions once approved by one of them.
Key attributes of fintech hub - Talent

Fintech hubs need to be able to attract good tech, financial services and entrepreneurial talent.

Fintech growth is dependent on the availability of technical and financial services expertise and the strength of entrepreneurial environment. Well known technological or financial centres such as Silicon Valley or New York benefit from good access to one or all of the skills.

For countries without such unique advantages, government policies around mobility and education system are important to attract foreign talent and train the local workforce. Countries like Israel and Germany have grown their start-up and fintech base rapidly due to the local skills and culture, strong education systems delivering a sustainable talent pipeline as well as access and incentives to attract foreign entrepreneurs and expertise.

**Israel**

Israel has a strong technical talent pool fuelled by highly regarded universities, strong R&D programmes as well as a young army trained workforce who find fintech environment a comfortable “home” for their innovative and entrepreneurial nature.

- Israel has the largest R&D spend per capita in the world with 20% of its GDP generated by high-tech industry with more than 8,500 companies and 35 global R&D centres.  
- Many tech giants such as Google, Intel, and Microsoft have branches in Israel, and claim that the key to success lies with the country’s local talent.
- Israel has a successful STEM education system and its mandatory military service provides early training in sophisticated technologies.
- “Innovation visas” and expert visas allow local companies including start-ups to hire foreign talent and attract entrepreneurs wanting to set up in Israel.

**Germany**

Germany’s solid foothold in financial services, excellent school and higher education systems and entrepreneurial culture provide essential skills and a strong talent pipeline for fintechs.

- Germany’s educational system is internationally recognised with nine universities ranked within the top 100 in the world. Subjects such as mechanical, electrical and information engineering are becoming increasingly popular among students.
- Berlin has developed as an innovation hub with 1,200 start-ups which attracted €1.1 billion external capital with 1 in 8 jobs in Berlin being created by the digital sector.
- Existing banking expertise in Frankfurt and Berlin from established FS players provides access to FS talent.
- Visa-free access can attract talent across the wider EU.
The quality of digital and physical infrastructure plays a key role in creating the innovation demand and opportunities for rapid fintech sector development.

### Key attributes of fintech hub - Infrastructure

Access to a quality infrastructure, such as fast internet speed, and affordable office space tailored to start-ups is a key enabler for fintech hub success. Advanced digital and financial infrastructure, such as digital identity and real-time payment systems, also create more opportunities for innovators. For example, Australia is taking very clear steps in digitalising their economy and financial services.

**Australia**

Australia has taken a particularly proactive approach in improving its digital infrastructure as well as creating physical hubs offering support specifically to fintechs.

- National Broadband Network (NBN), to be completed by 2020, is replacing the telephony networks and is expected to significantly improve internet speeds and coverage.
- New payment platform (NPP), a new national, open access infrastructure facilitating fast, versatile and data-rich payments, is expected to ramp up innovation.
- Digital Transformation Office is expected to help enhance the digital identity processes to improve efficiency and security across the digital economy.
- Real estate is affordable when compared to other regional financial peers such as Seoul, Tokyo, Hong Kong or London and Paris.\(^{(62)}\)
- Physical locations such as the Stone & Chalk and the Tyro Fintech Hub: purpose built to support fintech ventures to start and grow combined with education events and accelerator capabilities.\(^{(63)}\)

### Regional examples in the UK

**Manchester**

Shed and Innospace run by Manchester Metropolitan University offer graduates and entrepreneurs office space. Two new technology hubs are being developed by Allied London and Manchester Science Partnerships.

**Leeds**

The first UK fintech start-up hub outside London, Dotforge, was established in 2015 in Leeds and offers financial support, office space and networking opportunities for fintech start-ups.

**Edinburgh**

CodeBase in Edinburgh is the largest technology incubator in the UK and one of the fastest growing in Europe.\(^{(64)}\) Another organisation, Creative Exchange and Techcube offers business space for technology and innovation start-ups.
The UK fintech environment - Market

The UK has strong demand for fintech from its large financial services sector and sophisticated customer base. It will require more collaborative and open culture to take demand to next level.

### Performance (qualitative)

| Low | High |

Benefiting from the large financial services sector, the UK has the advantage to drive growth of fintechs from institutional demand. However, large corporates are still relatively conservative in collaborating with fintechs, with a lot of players taking the “wait and see” or “self-build” approach.

On the consumer end, the UK consumers have good digital skills and are willing to adopt new fintech products. However the market size is moderate and Brexit may bring additional challenges for UK fintechs to expand their consumer reach to the EU.

### Current initiatives

#### Demand from the financial services sector

**The UK, particularly London, benefits from the large financial services sector.**

- The financial sector in UK earned approximately £200 bn in revenues (11% of GDP) in 2015.\(^{(65)}\)
- As the leading financial services centre (ranked No.1 in the Global Financial Centre Index)\(^{(81)}\), London provides a strong institutional customer base for fintechs.

**Financial institutions in the UK see the value of fintech and actively work with fintechs.**

- The UK’s fintechs have received CVC investments from 48 corporates in 2016, totalling $499 million across 42 deals.\(^{(66)}\)
- However, financial institutions are relatively cautious in bringing fintech propositions into their core business processes. A lot of large companies may choose to build their new technology propositions internally, rather than directly purchase from or integrate with fintechs.

> “We are competing with companies’ self-built services. At the moment we have seen a 50/50 split between those who self-build and those who use fintech solutions.”

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**B2B fintech solution provider**

> “Large corporates are confident with their capabilities and prefer to build by themselves.”

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**Fintech player**

### Consumer demand

- 2/3rds of adults have mortgages and >95% have at least one bank account with a total of over 140 million current and deposit accounts with high street banks and 50 million customers registered for online banking.\(^{(67)}\)
- Adoption of digital is very rapid, for example, use of mobile banking has tripled in 4 years reaching 27% in 2014.\(^{(68)}\)
The UK fintech environment - Capital

The UK has good availability of capital for early-stage companies and could do more to provide access to capital for more mature fintechs.

The UK provides sufficient access to capital for early-stage fintechs, supported by an active angel investor network, and government initiatives. Tax incentives have encouraged investors to invest in fintechs. Fintechs and entrepreneurs also benefit from tax incentives.

However, there is limited capital available for companies at later stages of growth due to the relatively conservative appetite of local capital. There is also concern around the withdrawal of the EIF, which currently plays an important role in providing fintechs with capital.

Performance (qualitative)

Current initiatives

Seed funding

The UK market has a strong seed funding landscape, supported by active investor networks.

There is a supportive environment created by the government.

- Schemes such as Seed Enterprise Investment Scheme (SEIS), Enterprise Investment Scheme (EIS) support high growth firms at the early-stage.
- The FCA supports British Business Bank’s Business Finance Program which offers innovative financing solutions and considers applications even with minimum funding requirement of £800 million.
- Other funding programmes include start-up loan scheme, enterprise capital fund program and UK angel co-funding.

Investors and entrepreneurs benefit from fintech specific tax benefits.

- Small Business Rate Relief will be doubled from 50% to 100% in April 2017 in order to foster fintech start-ups in the country.

Growth capital

However, there is limited growth capital in the UK to support late-stage/mature fintechs.

- Interviewees commented that they have seen less capital available for companies once they move from seed funding to a more mature stage.
- It requires a long term liquidity market to support and retain good fintechs. It was noted by several interviewees that some companies receiving US investment had to go through a process of restructuring and registration in the US.
- Concerns are expressed among interviewees around the uncertainties of Brexit and implications of the withdrawal of the EIF. The EIF has been key provider of finance to fintechs. The likely withdrawal of this fund from UK fintech funding market will impact funding availability.

"Local capital seems to be more conservative compared to US capital and we had to go to the US to raise funding even though we are based in the UK"

"UK is fine on seed funding but there are gaps in Series A funding. Not enough VC talent in the UK"

"UK government may need to consider developing a UK version of EIF post Brexit, investing in a longer horizon"

— Fintech player

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The UK fintech environment - Government

The UK government has actively supported fintech growth by creating an open market environment and promoting engagement around fintech.

Current initiatives

Communication and discussion

- **FinTech Delivery Panel (2016)** – a forum for fintech, supported by HM Treasury, to drive forward collaborative initiatives to improve and nurture the fintech landscape.
- **Financial Services Trade and Investment Board (FSTIB) FinTech Steering Group** – supported by HM Treasury and run by TheCityUK, the Steering Group focuses on issues impacting the attractiveness of the fintech ecosystem for incumbent companies and those seeking to invest in the UK.
- **All Party Parliamentary Group on FinTech** was set up to raise awareness in Parliament of the importance of fintech to the UK economy.
- **FinTech Bridges**: a framework for enhanced cooperation which will help fintechs in their overseas growth plans. The UK Government has set up fintech bridges with South Korea, Singapore and Hong Kong.

Open banking framework

The Government is driving the **Open Banking Standards** to promote openness and competition in banking.
- This will allow fintechs to access bank data and initiate payments via APIs and support a host of lower cost and innovative services.
- Open Banking will be delivered from January 2018.

Other initiatives

- The Government has established various **investment schemes** and **tax measures** to support high growth firms and encourage investors (see previous page).
- The Government has supported the FCA in **driving international collaboration** with regulators in other countries (for example, Australia, Canada and China).
- **Innovative Finance ISA** – introduced by the FCA for loans arranged via P2P platforms in FY16.

“Fintech is a great economy opportunity and UK has the best platform to take it to next level. The government should have a role in taking this to the rest of the world, e.g. Africa, South America”

– Fintech player

“The Government’s focus on fintech may get diverted considering the current challenges around Brexit”

– Fintech player

The UK Government has been supportive of fintech growth. It has mobilised resources among government bodies, regulators and public organisations to raise awareness and promote discussion on fintech. It also backs a wide range of initiatives to support fintech growth such as the Fintech Delivery Panel, TechCity, investment and tax incentive schemes. It has driven the industry to create an open environment and supported regulators to develop a more open approach to fintech.

However, there are concerns from market players whether the Government can retain focus and deploy sufficient resource to support fintechs. There is also a call for the government to have a common policy position and message around the fintech evolution.
The UK fintech environment - Regulation

The PRA and the FCA have taken open and practical approaches to support fintech growth. They could further enhance their role by providing more forward thinking rules and guidance.

The UK regulators have taken a proactive approach and launched a number of initiatives for fintech regulation. UK leads on a number of new regulatory considerations. The FCA Regulatory Sandbox has helped to create an open field for both fintechs and other players to try and learn in a more relaxed regulatory environment. The Bank of England has a fintech accelerator to work with firms to explore innovation.

The fast pace of fintech development requires the regulator to move quickly, develop new rules / provide guidance around new technologies (P2P, blockchain, Initial Coin Offerings (ICOs), IoT) and clarify regulatory perimeters.

The UK regulators have been leading the fintech agenda, with an open and practical approach.

- Project Innovate was launched in 2014 by the FCA to facilitate the introduction of innovative financial products and services.
- Regulatory sandbox, introduced in 2015, provides an environment for fintechs to test new products, services, business models with extra support adhering to regulatory processes. There have been a total of 55 firms selected by the programme.
- Fast-track authorisation (under consideration) – businesses that have engaged with the FCA Innovation Hub will subsequently be assisted through a fast-track authorisation process with specific help to internationalise their business.
- The PRA and FCA have established New Bank Start-up Unit to support new bank authorisations.

Development areas raised by the interviewees include:
- Being more forward thinking to develop rules for new fintech propositions, keeping up pace with fintech development.
- Being more prescriptive to define parameters of measuring good/bad practices, providing clear guidance.
- Supporting internationalisation of the regulatory frameworks and helping firms to grow globally.

Current initiatives

Regulatory initiatives

New regulations under consideration

Digital currencies: the Anti-money Laundering (AML) regulation is expected to be applied to digital currency exchanges as per Budget 2015.

“Regulator’s initiatives have created an open conversation, which allow us to learn and try.”

– Head of Innovation at a major bank

“Regulator needs to be nimble. Currently they may not have sufficient resource to support the number of new business”

– VC investor

“It should go beyond interpreting the rules relevant to fintech within the old framework. New rules need to be developed.”

– Fintech player

“Regulators may have a role to play in supporting fintech’s internationalisation.”

– Fintech player
The UK fintech environment – Talent

The UK has a good talent pool for financial services expertise, however, the depth and sustainability of talent requires improvement.

Performance (qualitative)

Market participants indicated the UK has strong talent around financial services but lacks depth of tech and entrepreneurial skills compared to some leading tech hubs such as California and Israel. There is limited level of support around tech education with few or no training schemes and courses. Lack of local talent will require the UK to consider how to retain and attract foreign expertise. Uncertainties exist around the labour market post Brexit, and the Government needs to consider how any emerging talent gaps can be addressed.

Current initiatives

Regulatory initiatives
- The UK has a good existing talent pool in both financial services and technology
  - The UK fintech industry has over 60,000 employees, larger than those in Singapore, Hong Kong and Australia combined.\(^{69}\)
  - The UK employs over a million people in the financial services industry and enjoys an unrivalled lead in financial expertise.\(^{2,3}\) It also has over a million tech workers.

However, the depth and pipeline of talent in the UK needs to be improved. Our interviewees expressed concerns around:
  - Lack of entrepreneurs to start-up companies.
  - Significant gaps in technology skills compared with some other fintech centres such as Israel and California.

Fintechs interviewed expect Brexit may impact availability of talent to some extent and look forward to government’s actions on this.

“London still has its charm to the fintech community due to the good infrastructure, attractive market and English speaking environment.”

– Fintech player

“A lot of Fintech players like myself may have to consider relocating after Brexit, which we certainly don’t want to”

– Fintech player

Academic networks and Tech Education
- Government STEM policy paper “2010 to 2015” – outlines actions to support and grow STEM in schools.
  - ELITE Programme (2014) – 14 month programme run by the London Stock Exchange in partnership with Imperial College to provide education, mentorship and funding to start-ups.
  - Tech City UK’s Digital Academy (2014) – provides online courses on business acumen.
  - The ICT Curriculum Review (2013) – introduced computer science and coding courses in school in order to develop talent in the UK.

Visa scheme
  - Graduate Entrepreneur Visa (2012) – Enables exceptional overseas graduates to stay in the UK if they possess sought-after entrepreneurial skills or have genuine, innovative business ideas.

“We are hoping that the government would have some sort of arrangements to mitigate the impact”

– Fintech player
The UK fintech environment - Infrastructure

Soft infrastructure for fintech in the UK is adequate while more support is needed in providing affordable office spaces.

The UK Government has taken initiatives to develop leading infrastructure in both technology and financial services. Investment in cloud computing capability can provide best-in-class tech infrastructure that fintech can use to create their products, conduct analysis and deliver services. Development of financial services infrastructure such as payment standards of distributed ledger, would clear barriers for fintech to innovate.

The industry is expecting the Government to play a greater role in identifying and providing office space, as well as industry wide standards such as digital identity to facilitate the further disruption.

The UK Government has taken initiatives to develop leading infrastructure in both technology and financial services. Investment in cloud computing capability can provide best-in-class tech infrastructure that fintech can use to create their products, conduct analysis and deliver services. Development of financial services infrastructure such as payment standards of distributed ledger, would clear barriers for fintech to innovate.

The industry is expecting the Government to play a greater role in identifying and providing office space, as well as industry wide standards such as digital identity to facilitate the further disruption.

"Space is seen to be an issue especially in the 2nd year of a fintech’s life cycle."

"Provision of space is important to create cluster. City of London is a great location to provide the base for the cluster"

– Fintech observer

Current initiatives

**Office space for fintech**

- Fintechs face challenges in accessing low cost office space.
- Start-ups have started working from co-working spaces which provides flexibility and low cost office space. In 2016, flexible office take-up amounted to 8.8% of total office take-up.\(^{(70)}\)
- However, London is still an expensive place to rent compared with other regions. Prime rental cost of office space in London is more than twice the cost of other major cities such as Manchester and Birmingham.\(^{(71)}\)

Support to fintechs could be in the form of providing office space and other soft infrastructure.
- It is noted that some regional hubs are doing well in this respect. The Welsh Government has created Cardiff Central Enterprise Zone, with 560,000 sq.ft. of new office space and offering additional business support package for companies in the Enterprise Zone.\(^{(72)}\)

**Infrastructure supporting cloud computing**

- **G-Cloud Framework**: A UK government programme to promote government-wide adoption of cloud computing.\(^{(73)}\)
- **Business–led digital skills programme**: Trainings launched by companies like Microsoft and Amazon to upskill people on cloud computing technology.\(^{(74)}\)
- **Investments in cloud data centres** to support UK firms to work faster and in a smarter way.\(^{(74)}\)

**Initiatives around payment & distributive ledger**

- **Payment Systems Regulator**: Launched in 2015 to ensure that payment systems promote the interests of businesses and consumers through effective competition and innovation.
- Initiatives taken by the Bank of England:
  - Widening access to RTGS payment to include non-bank Payment Service Providers (PSP).\(^{(75)}\)
  - Upgrading the RTGS system which will be compatible with distributed ledger.\(^{(76)}\)
05. Recommendations
Recommendations: Secure a fintech sector deal

Secure a sector deal for fintech to reinforce and cement the UK and London as a leading global hub for fintech

The UK is considered a global hub for fintech with the UK government and the financial services regulators perceived as very proactive in supporting the evolution of fintech. Other countries such as China, Korea and India are keen to partner with the UK through fintech bridges to learn and encourage developments in their own markets.

However, there is a need for the UK to establish a single and consistent position on fintech which will further enable the overall sector to effectively market itself as a good destination for fintechs and as a source of fintech services.

We believe that the fintech ecosystem, coordinated by the City of London Corporation and other organisations such as Innovate Finance and FinTech Delivery Panel, should secure a fintech sector deal as set out in the Government’s Industrial Strategy Green Paper (January 2017). This will further cement the UK as a global leader in fintech.

Within the purview of the sector deal, the following initiatives need to be undertaken:

- The fintech industry and the key players should collaborate with each other and commit to develop and implement initiatives aligned to the objective of the Government’s industrial strategy to improve living standards and economic growth by increasing productivity and driving growth through the following:
  - Support the government in implementing initiatives such as developing a single public policy, vision and strategy for fintech and driving harmonisation/equivalence of international standards and regulations (for example, data protection and privacy) for fintechs, and engaging emerging markets such as China through the fintech bridges initiative to explore export opportunities for the UK.
  - Along with the government, coordinate the development of open standards relevant to fintech (for data, technology and processes) by building on the Government’s Open Standards Principles and the Technology Code of Practice. This will enable the UK to drive consistency across fintech services.
  - Develop standards / guidelines that will enable incumbents and wider industry to identify high potential fintechs / technologies.
  - Enhance regional engagement and integration by locating in and sourcing capabilities and expertise from the regions.
  - Support talent development through training and apprentice schemes targeted at fintechs.

- The Government should support the development of fintech through initiatives focused on policy and regulations, funding and capital, infrastructure and talent (elaborated in the pages that follow).
Recommendations: Policy and regulations

Based on interviews and analysis of the market, we have identified four recommendations focused on policy and regulations.

The UK government and the financial services regulators (the PRA and the FCA) are perceived as proactive in supporting the evolution of fintech through a wide range of initiatives such as the FinTech Delivery Panel, Tech City UK, New Bank Start-up Unit and the FCA’s Project Innovate and regulatory sandbox. While these initiatives position the UK favourably, there are significant opportunities to further support fintech, expand its economic reach and accelerate growth of the fintech ecosystem.

Recommendations:

2. Provide clarity on the regulatory perimeter applicable to fintech and the underlying technologies they employ (for example, platforms, AI and machine learning, p2p and crowdsourcing) and clarify requirements that fintechs need to fulfil.

The PRA and the FCA, as the regulators of the financial services industry, have defined regulatory perimeters as it applies to financial stability and services that financial services provide.

With the development of fintech, the traditional practices in the provision of banking, insurance and asset management services are changing due to the use of innovative technologies (for example, telematics, IoT, ICOs, AI and DLTs) and analytical tools. Fintechs also provide non-standard products to previously underserved and unserved customers. The PRA (through the New Bank Start-up Unit) and FCA (through regulatory sandbox and Project Innovate) have provided support and guidance to fintechs.

However, fintechs would benefit from more clarity on what compliance looks like and what the key conduct, operational, risk, data security and management requirements are for the fintech industry.

In order to clarify the regulatory perimeter and key requirements, we recommend the following:

- Develop and issue regulatory perimeter guidance specific to fintech activities, aligned to the existing PRA and FCA regulatory perimeter guidance. This will build on and further supplement existing guidance (for example, FCA handbook) and that provided by the FCA through Project Innovate and PRA initiatives.

- Provide clarity on the operational requirements (for example, across risk, processes, business plan, IT and data) for fintechs to be authorised (see recommendation 3).

- Assess developments in fintech together with the industry to identify and prioritise the pipeline of regulatory initiatives. The pipeline can be shared with the wider fintech community to enable them to understand regulatory intent.

3. Build on the successes of the PRA and the FCA initiatives and establish procedures to support fintechs around regulatory requirements.

FCA launched Project Innovate in 2014 with the aim of helping fintechs tackle regulatory barriers to innovation. Since its inception, it has assisted over 350 firms resulting in 29 authorisations and 11 additional applications. Project Innovate also supports the development of regtech.

FCA also launched the Regulatory sandbox to enable fintechs to test innovative products, services and business models. The PRA has implemented a fintech accelerator and partnered with the FCA on the New Bank Start-up Unit.

These initiatives have firmly established the UK’s regulatory environment as very open to innovation.

To further cement the UK as the global hub for fintech, we recommend the regulators to consider the following initiatives:

- Simplify authorisation for the FCA regulatory sandbox participants by requiring minimum but critical information and documents to enable the FCA to make authorisation decisions quicker. This could also be achieved by further embedding the authorisation process within the sandbox and identifying opportunities to support/engage with fintechs early in their development so that they understand the requirements for authorisation.

- Provide support around regulatory issues by having dedicated fintech capability/teams around sectors (for example insurtech, peer-to-peer, on-demand insurance)/specialisms (for example robotics, telematics) and manage outreach activities to the broader fintech ecosystem. Replicating the success of the current sandbox through additional sandboxes at the FCA/PRA could also broaden support to the increasing number of fintechs.

- While the PRA is engaged in fintech through the accelerator and the New Bank Start-up Unit, the PRA should work towards providing more clarity around prudential and solvency requirements for fintechs as they grow bigger.
Recommendations: Policy and regulations

Based on interviews and analysis of the market, we have identified four recommendations focused on policy and regulations.

4 Identify and support UK regions to become regional hubs and enablers of the growth of the wider fintech ecosystem

The UK financial services industry is spread across the UK, with London and Edinburgh as the major centres. A number of financial services companies such as Nationwide, NFU Mutual, Admiral Insurance and LV= are based outside London and Edinburgh. The regions also provide operational capabilities such as customer, marketing and technology support to these financial centres.

The development of fintechs aligns to the distribution of financial services and regions continue to play an important role in the development of fintech. For instance, successful fintechs such as Atom Bank and Crowdcube are based outside London.

There are significant benefits to the UK economy and the wider financial services by supporting growth of fintechs in the regions. Fintechs could provide opportunities for the UK to drive growth and integration of the regions into the overall fintech and financial services ecosystem. This could be achieved through the following:

— Ensure fintech is a priority agenda on the plans of regional and local governments, and the LEPs. For instance, ensure that the development of the financial services industry and fintech is a key component of the regional and local government initiatives such as the Northern Powerhouse. The Government can leverage the existing network for fintech envoys for some regions and the FCA’s engagement framework with the regions.

— Identify regions and cities as focus areas for fintechs and provide (infrastructure and financial) support to develop them into fintech clusters/hubs (for example, leverage the financial services cluster in Leeds City Region). Collaborate with industry associations such as the ABI, BIBA, UK Finance and regulators such as the PRA and FCA.

— Explore opportunities to identify and agree focus areas of fintechs in the regions and allocate funding and capital / provide incentives to local and regional government and qualifying start-ups. Encourage financial services companies and Fintechs to consider regions and cities for their fintech hubs and in sourcing capabilities such as talent and technology.

5 Support fintechs in developing partnerships with the financial services incumbents

A key challenge for the existing fintechs is their inability to get traction with incumbents who bring financial services expertise, customers and data to test their ideas and scale up. While Open Banking and similar innovations provide better access to fintechs, partnerships with and access to incumbents in the financial services industry will accelerate how fintechs develop.

A challenge for incumbents in developing relationships with and investing in fintechs is in understanding whether fintechs have sufficient resources in the medium term to be sustainable.

We recommend the following:

— The Government should explore opportunities to develop and implement a match-making scheme/programme where fintechs can get access to incumbents (who volunteer or are selected) and test/experiment their products and business). The Government can consider incentives such as R&D tax credits for incumbents who partner and work together with fintechs to develop their capabilities / technologies.

— Industry associations (for example, ABI, UK Finance, BIBA, Investment Association) should work together with Innovate Finance and some of the larger accelerators to articulate what incumbents seek from fintechs.

— Fintechs, through Innovate Finance, develop standards that will help incumbents and the wider industry understand fintech offerings and their business models. This will further enable the technology divisions within incumbent firms adopt fintech.
Recommendations: Advocacy

Narratives of fintech in the market have focused on activities of the emergent fintechs and the incumbent financial institutions. Opportunities exist in the market to advocate and share positive messages on the value of fintech with the end customers to generate demand and engage the industry.

Success stories around fintech have focused on both incumbents and fintechs, with little or no focus on how fintechs can drive benefits to the end consumers. Fintechs, the wider FS sector and the Government should share the value of fintech to the end consumers and wider society.

6 Conduct activities to advocate the benefits of fintech and drive engagement with end customers and the policy makers

Success stories around fintech have been focused on incumbents and fintechs, with little to no focus on the value fintechs deliver to the end customers. The fintechs, the wider FS sector and the Government should implement initiatives to share the value of fintech to the end customers and the wider society:

— **Successful fintechs, Innovate Finance and the FS Industry should demonstrate the benefits** that fintech can deliver to the end customers by providing new products and services, reducing costs and improving customer experience through combined or joint marketing activities and events. This will help drive adoption by individuals, SMEs and corporate clients.

— **Together with the relevant Government departments**, the fintech industry and the wider sector should also **hold information sessions to engage wider stakeholders and policy makers in the Government** on fintech and how fintech supports and enables the UK’s financial services industry to remain competitive in addition to driving benefits to the wider society.

7 Promote and position the UK as a global hub for fintechs

While the UK fintech industry is reliant on the EU for access to capital funding and tech talent, it’s overall economy and FS market will continue to be huge. The UK will continue to be attractive to both incumbents and fintechs if the Government should implement the following actions to provide certainty and direction for the market players:

— **Promote and position the UK as a global hub for fintechs in the long term** by developing a single government policy position, vision and strategy for fintech. The Government can leverage the UK’s leadership in fintech and the evolving fintech bridges to **drive international cooperation and inter-jurisdictional equivalence of regulations and standards** (including those for data protection and privacy).

— **Develop and implement, in the short term, a campaign to engage the fintech ecosystem** and keep them on board. This could be an initiative spearheaded by one of the Government agencies with support from the wider FS and fintech market.

— **Provide, as much as possible direction, on what Brexit will mean for the FS industry and the fintech ecosystem** (for example, harmonisation of regulations, approach to talent).
Recommendations: Funding and capital, and infrastructure

The Government and the industry should work together to unlock funding for mature start-ups to attract and retain larger fintechs.

While the UK has a large financial services market and a favourable regulatory environment, our interviews and analysis indicate a shortfall in funding and capital for mature start-ups.

There is an opportunity to review infrastructure and ancillary services available for fintechs and implement initiatives to address any critical gaps.

Quality infrastructure and ancillary services (legal services, tax and risk support) are critical for the success of fintech hubs.

8 Identify and unlock sources of funding for late-stage and mature start-ups

The UK is attractive for early-stage start-ups due to availability of capital from angel investors and venture capital funds. However, as the fintechs mature and funding needs become larger, market interviews have indicated that capital is scarce, often requiring the firms to seek funding from the US and the European VC markets. Sometimes these require the fintechs to relocate to the US.

The Government is currently undertaking a review of Patient Capital to identify barriers for innovation firms to access long term finance.

To specifically support fintechs and make funding available for mature start-ups, the following initiatives should be considered:

— Within the Patient Capital Review, the Government should assess how funding from the institutional market, including pension funds, can be unlocked for fintechs and late-stage and mature start-ups.

— Following Brexit, the European Investment Fund will be withdrawn. The Government should work with British Business Bank and other stakeholders to provide (replacement) capital or a fund into the fintech and wider start-up market for projects that run beyond 2019 (under EIF) and for fintechs looking to UK post 2019.

— Review the existing tax regime (for example, Capital Gains Taxes, R&D Tax credits for incumbents and corporation tax), incentivise retail and institutional investments and benchmark against emerging financial services and fintech hubs and assess if the taxes applicable to capital providers make the UK competitive in the long term.

9 Review any infrastructure and ancillary services that are critical for UK fintechs and implement initiatives to address any gaps

London has around 40 accelerators and incubators and multiple co-working spaces. Leeds, Edinburgh and Manchester also have similar facilities for fintechs and start-ups. However, our interviews indicate that the UK and London could provide support around infrastructure and ancillary services to aid the fintech market.

We believe the Government and the industry should address any emerging gaps through the following initiatives:

— Review existing accelerator and incubator facilities in and outside London, and assess the availability of affordable infrastructure and ancillary services for fintechs. Identify gaps and work with incumbent financial services firms, property owners and City Property Association to see how the facilities can be more effectively utilised and targeted at fintechs.

— Fintechs and Innovate Finance should collaborate with providers of ancillary services such as the accountancy firms, property services companies, legal and tax firms. Such firms have teams dedicated to supporting the fintech sector. The Government, through the Fintech Delivery Panel and Tech City UK, could organise forums and platforms to collaborate with each other, and build a database of fintech friendly service providers.

— The UK overall lacks a specific cluster focused on fintechs (similar to Silicon Fen / Cambridge Tech cluster or the digital health cluster in Birmingham) which can accelerate growth by attracting capital, talent and specialist companies. The Government should, through consultation with the financial services industry, fintech players and other partners such as property owners and Professional Services firms, identify potential locations for a fintech cluster in or outside London. For instance, the Government can leverage the emerging financial services cluster in the Leeds City Region.
Recommendations: Talent

Financial services, technology and entrepreneurial talent is key to the development of the fintech market. We recommend assessing the existing talent pool and developing the future talent pipeline.

Fintech is an evolution of the financial services sector and will continue to demand financial services, tech and entrepreneurial talent. Availability of talent, now and in the future, is critical to the development of fintech hubs. The UK, through its large financial services sector, has an ample supply of financial services talent. However key players in the fintech ecosystem have indicated that the UK and the London fintechs face potential talent gaps, particularly in technology and entrepreneurship, in the medium and long term.

1. **Assess talent (financial services, tech and entrepreneurial) needs within the UK fintech market, assess availability and implement short and medium term measures**

To address emerging concerns of supply of talent in the fintech industry, the government and industry should implement the following:

- **Review the talent needs of fintechs incorporating the likely impact of Brexit.** Fintechs and investors into start-ups point to the significant proportion of talent from the EU and outside the UK. For example, approximately 30% of founders are non-British. This could be led by one of the Government-backed initiatives such as the FinTech Delivery Panel or a fintech association in partnership with financial services companies and the wider fintech participants.

- **Encourage the private sector (financial services and successful fintechs) to develop short programmes and courses** specific to fintech (for example emerging technology, coding) which aspiring graduates/individuals can pursue to develop their skills. The fintech industry should also identify relevant universities for research partnerships to support fintech development.

- **Assess the talent pipeline for the next 5-10 years and build relationships with universities** to develop specific fintech courses (for example, Oxford Business School FinTech course) to train potential science and management graduates for careers in FS and fintech. If required amend/update curriculum to align it to the overall fintech strategy.

- **Review and identify measures for how talent specific to financial services and fintech can be attracted into the UK** through further refining the current visa regime (relaxing specific requirements under the work visa scheme) and streamlining it to the fintech market needs.
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Methodology

Scope and definition
The report focuses on the value of fintech to end customers and highlights how the UK and London perform as a fintech hub against key attributes required for a successful fintech hub.

While defining fintechs, the research excludes large incumbent technology and software companies which also participate in financial services.

Data
This report uses fintech deal data collected by Pitchbook platform up until end of August 2017. The data includes investments made by Venture Capital, Private Equity and M&A. Where the report refers to investment by specific source, it is explicitly clarified. The research also includes data from KPMG’s publications in fintech such as The Pulse of Fintech. We also refer to a number of publicly available information, and complement with KPMG analysis.

Survey
The research also uses findings from KPMG’s global survey of fintech activities in financial institutions. The survey studies on the role of fintech among global financial institutions, reviewing how incumbent financial services firms view and approach to fintechs. The survey involved 92 banks, 46 insurance companies and 25 asset managers across 36 countries. 58% of the respondents held a C-level position.

Interview programme
During the course of the research, we interviewed a selected number of players in the fintech ecosystem. The interviewees included fintechs, incumbent financial services companies, industry associations such as the ABI, TISA, Innovate Finance, representatives from Government agencies, and capital providers. In total, we spoke to more than 40 organisations and individuals. The interviews and discussions focused on the value of fintech and their perspectives on how the UK and London compare with other fintech hubs.

In addition, we also gathered inputs from KPMG’s network of fintech hubs, focusing on the practices of other leading fintech hubs around the world.

We would like to express our sincere thanks to all interviewed participants and their contributions to this report.
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<th>Abbreviation</th>
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<td>ABI</td>
<td>Association of British Insurers</td>
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<tr>
<td>AI</td>
<td>Artificial Intelligence</td>
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<td>AML</td>
<td>Anti-Money Laundry</td>
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<td>API</td>
<td>Application Programming Interface</td>
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<td>AuM</td>
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<td>BIBA</td>
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<td>DLT</td>
<td>Distributed Ledger Technology</td>
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<td>EIF</td>
<td>European Investment Fund</td>
</tr>
<tr>
<td>eIDV</td>
<td>Electronic Identity Verification</td>
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<tr>
<td>ESVF</td>
<td>Early Stage Venture Fund</td>
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<tr>
<td>ETF</td>
<td>Exchange Traded Fund</td>
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<tr>
<td>EU</td>
<td>European Union</td>
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<tr>
<td>FCA</td>
<td>Financial Conduct Authority</td>
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<tr>
<td>FI</td>
<td>Financial Institution</td>
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<tr>
<td>Fintech</td>
<td>Financial Technology</td>
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<tr>
<td>FS</td>
<td>Financial Services</td>
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<tr>
<td>FX</td>
<td>Foreign Exchange</td>
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<tr>
<td>GDP</td>
<td>Gross Domestic Product</td>
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<td>GDPR</td>
<td>General Data Protection Regulation</td>
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<td>HR</td>
<td>Human Resources</td>
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<tr>
<td>Insurtech</td>
<td>Insurance Technology</td>
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<tr>
<td>ICO</td>
<td>Initial Coin Offering</td>
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<tr>
<td>IoT</td>
<td>Internet of Things</td>
</tr>
<tr>
<td>ISA</td>
<td>Individual Savings Accounts</td>
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<tr>
<td>IP</td>
<td>Intellectual Property</td>
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<td>IT</td>
<td>Information Technology</td>
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<td>KYC</td>
<td>Know Your Customer</td>
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<tr>
<td>LEP</td>
<td>Local Enterprise Partnership</td>
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<tr>
<td>M&amp;A</td>
<td>Mergers &amp; Acquisitions</td>
</tr>
<tr>
<td>MAS</td>
<td>Monetary Authority of Singapore</td>
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<tr>
<td>NBN</td>
<td>National Broadband Network</td>
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<tr>
<td>NLP</td>
<td>Neurolinguistics Programming</td>
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<td>NPP</td>
<td>New Payments Platform</td>
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<td>P2P</td>
<td>Person to Person</td>
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<td>Private Equity</td>
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<td>PPI</td>
<td>Payment Protection Insurance</td>
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<td>PRA</td>
<td>Prudential Regulation Authority</td>
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<td>PSP</td>
<td>Payment Service Providers</td>
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<td>R&amp;D</td>
<td>Research and Development</td>
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<td>Regtech</td>
<td>Regulatory Technology</td>
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<td>RTGS</td>
<td>Real Time Gross Settlement</td>
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<td>SaaS</td>
<td>Software-as-a-Service</td>
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<td>SEIS</td>
<td>Seed Enterprise Investment Scheme</td>
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<tr>
<td>SME</td>
<td>Small and Medium Enterprises</td>
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<tr>
<td>STEM</td>
<td>Science, Engineering, Technology and Mathematics</td>
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<tr>
<td>TIS</td>
<td>Technology Incubation Scheme</td>
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<td>TISA</td>
<td>Tax Incentivised Savings Association</td>
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<td>UK</td>
<td>United Kingdom</td>
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<td>US</td>
<td>United States of America</td>
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<tr>
<td>VC</td>
<td>Venture Capital</td>
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</table>
Fintechs featured in this report
About The City of London Corporation

The City of London Corporation is a uniquely diverse organisation. We have a special role and wide remit that goes beyond that of an ordinary local authority with three main aims: to support and promote London as the world’s leading international financial and business centre and attract new business to the capital and the whole UK; to work in partnership with local communities to increase skills, employment and opportunities for all Londoners, including through the City Bridge Trust; and to enhance the capital as a hub of culture, history and green spaces for Londoners – residents, workers, and visitors. Many of these services are funded from our own resources, at no cost to the public, and benefit London and the nation. The City Corporation also plays a key role in sustaining London’s lead in international business and finance.

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KPMG’s Global Strategy Group works with private, public and not-for-profit organisations to develop and implement strategy from ‘Innovation to Results’ helping clients achieve their goals and objectives. KPMG Global Strategy professionals develop insights and ideas to address organisational challenges such as growth, operating strategy, cost, deals and transformation.

About KPMG Fintech

The Financial Services sector is transforming with the emergence of innovative products and solutions. This wave of innovation is primarily driven by changing customer expectations and continued regulatory and infrastructure cost pressures. KPMG is passionate about this transformation, working directly with emerging fintechs through 30 global fintech hubs. KPMG also brings its global fintech insight to traditional financial institutions, helping them fully realise the potential fintech has to grow their business, meet customer demands, and help them stay relevant and competitive.

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