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Consultation on a new digital finance strategy for Europe / FinTech action plan

Fields marked with * are mandatory.

Introduction

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1. Background for this consultation

Digitalisation is transforming the European financial system and the provision of financial services to Europe's businesses and citizens. In the past years, the EU and the Commission embraced digitalisation and innovation in the financial sector through a combination of horizontal policies mainly implemented under the umbrella of the Digital Single Market Strategy, the Cyber Strategy and the Data economy and sectoral initiatives such as the revised Payment Services Directive, the recent political agreement on the crowdfunding regulation and the FinTech Action Plan (https://ec.europa.eu/info/publications/180308-action-plan-fintech_en). The initiatives set out in the FinTech Action Plan aimed in particular at supporting the scaling up of innovative services and businesses across the EU, for example through enhanced supervisory convergence to promote the uptake of new technologies by the financial industry (e.g. cloud computing) but also to enhance the security and resilience of the financial sector. All actions in the Plan have been completed.

The financial ecosystem is continuously evolving, with technologies moving from experimentation to pilot testing and deployment stage (e.g. blockchain; artificial intelligence; Internet of Things) and new market players entering the financial sector either directly or through partnering with the incumbent financial institutions. In this fast-moving environment, the Commission should ensure that European consumers and the financial industry can reap the potential of the digital transformation while mitigating the new risks digital finance may bring. The expert group on Regulatory Obstacles to Financial Innovation, established under the 2018 FinTech Action Plan, highlight these challenges in its report published in December 2019.

The Commission's immediate political focus is on the task of fighting the coronavirus health emergency, including its economic and social consequences. On the economic side, the European financial sector has to cope with this unprecedented crisis, providing liquidity to businesses, workers and consumers impacted by a sudden drop of activity and revenues. Banks must be able to reschedule credits rapidly, through rapid and effective processes carried out fully remotely. Other financial services providers will have to play their role in the same way in the coming weeks.

Digital finance can contribute in a number of ways to tackle the COVID-19 outbreak and its consequences for citizens, businesses, and the economy at large. Indeed, digitalisation of the financial sector can be expected to accelerate as a consequence of the pandemic. The coronavirus emergency has underscored the importance of innovations in digital financial products services, including for those who are not digital native, as during the lockdown everybody is obliged to rely on remote services. At the same time, as people have access to their bank accounts and other financial services remotely, and as financial sector employees work remotely, the digital operational resilience of the financial sector has becoming even more important.

As set out in the Commission Work Programme, given the broad and fundamental nature of the challenges ahead for the financial sector, the Commission will propose in Q3 2020 a new Digital Finance Strategy/FinTech Action Plan that sets out a number of areas that public policy should focus on in the coming five years. It will also include policy measures organised under these priorities. The Commission may also add other measures in light of market developments and in coordination with other horizontal Commission initiatives already announced to further support the digital transformation of the European economy, including new policies and strategies on data (https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52020DC0066), artificial intelligence (https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52020DC0065), platforms and cybersecurity.

2. Responding to this consultation and follow up

Building on the work carried out in the context of the FinTech Action Plan (e.g. the EU Fintech Lab), the work of the European Supervisory Authorities and the report issued in December 2019 by the Regulatory Obstacles to Financial Innovation Expert Group (https://ec.europa.eu/info/publications/191113-report-expert-group-regulatory-obstacles-financial-innovation_en), and taking into account the contribution digital finance can make to deal with the COVID-19 outbreak and its consequences, the Commission has identified the following four priority areas to spur the development of digital finance in the EU:

1. ensuring that the EU financial services regulatory framework is fit for the digital age;

2. enabling consumers and firms to reap the opportunities offered by the EU-wide Single Market for digital financial services;

3. promoting a data-driven financial sector for the benefit of EU consumers and firms; and

4. enhancing the digital operational resilience of the EU financial system.

In this context and in line with Better Regulation principles (https://ec.europa.eu/info/law/law-making-process/planning-and-proposing-law/better-regulation-why-and-how_en), the Commission is launching a consultation designed to gather stakeholders' views on policies to support digital finance. It follows two public consultations launched in December 2019, focusing specifically on crypto-assets (https://ec.europa.eu/info/publications/finance-consultations-2019-crypto-assets_en) and digital operational resilience (https://ec.europa.eu/info/publications/finance-consultations-2019-financial-services-digital-resilience_en).

This consultation is structured in three sections corresponding to the priorities areas 1, 2 and 3 presented above. Given that the ongoing consultation on digital operational resilience fully addresses the issues identified as part of this priority area, questions on this priority area are not reproduced in this consultation. As for priority area 1, this consultation includes additional questions given that this priority area goes beyond the issues raised in the currently ongoing consultation on crypto-assets. In addition, the

Commission will also be consulting specifically on payment services. Payment services and associated technologies and business models are highly relevant for the digital financial fabric, but also present specificities meriting separate consideration. These considerations are addressed in a specific consultation on a Retail Payments Strategy (https://ec.europa.eu/info/publications/finance-consultations-2020-retail-payments-strategy_en) launched on the same day as this one. Finally, and specific to financial services, the Commission is also supporting the work of a High Level Forum on Capital Markets Union, that is expected to also address key technology, business model and policy challenges emerging from digitalisation.

The first section of the consultation seeks views on how to ensure that the financial services regulatory framework is technology neutral and innovation-friendly, hence addressing risks in a proportionate way so as not to unduly hinder the emergence and scaling up of new technologies and innovative business models while maintaining a sufficiently cautious approach as regards consumer protection. While an in-depth assessment is already on-going on crypto-assets, assessment of whether the EU regulatory framework can accommodate other types of new digital technology driven services and business models is needed. Looking at a potentially more complex financial ecosystem - including a wider range of firms, such as incumbent financial institutions, start-ups or technology companies like BigTechs - the Commission is also seeking stakeholders' views on potential challenges or risks that would need to be addressed.

The second section invites stakeholder views on ways to remove fragmentation of the Single Market for digital financial services. Building on the preparatory work carried out in the context of the 2018 FinTech Action Plan, the Commission has already identified a number of obstacles to the Single Market for digital financial services and is therefore seeking stakeholders' views on how best to address these. In addition, the consultation includes a number of forward-looking questions aiming to get stakeholders' feedback as regards other potential issues that may limit the deepening of the Digital Single Market and should be tackled at EU level.

Finally, the third section seeks views on how best to promote a well-regulated data-driven financial sector, building on the current horizontal frameworks governing data (e.g. General Data Protection Regulation; Free Flow of Data Regulation) but also on the recent sectoral developments such as the implementation of the revised Payment Services Directive in the EU. Considering the significant benefits data-driven innovation can bring in the EU across all sectors, the Commission recently adopted a new European Data Strategy and a White Paper on Artificial Intelligence. Building on these horizontal measures, the Commission is now seeking stakeholders' views on the potential additional measures that would be needed in the financial sector to reap the full benefits of the data economy while respecting European values and standards. Responses to this consultation will inform forthcoming work on a Digital Finance Strategy/FinTech Action Plan to be adopted later in 2020.

Please note: In order to ensure a fair and transparent consultation process **only responses received through our online questionnaire will be taken into account** and included in the report summarising the responses. Should you have a problem completing this questionnaire or if you require particular assistance, please contact fisma-digital-finance@ec.europa.eu (mailto:fisma-digital-finance@ec.europa.eu).

More information:

- on this consultation (https://ec.europa.eu/info/publications/finance-consultations-2020-digital-finance-strategy_en)

- on the consultation document (https://ec.europa.eu/info/files/2020-digital-finance-strategy-consultation-document_en)

- on digital finance (https://ec.europa.eu/info/business-economy-euro/banking-and-finance/digital-finance_en)

- on the protection of personal data regime for this consultation (https://ec.europa.eu/info/files/2020-digital-finance-strategy-specific-privacy-statement_en)

About you

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*Language of my contribution

> English

*I am giving my contribution as

> Business association

*First name

> Tarek

*Surname

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> tarek.tranberg@eact.eu

*Organisation name

255 character(s) maximum

> European Association of Corporate Treasurers - EACT

*Organisation size

- ◉ Micro (1 to 9 employees)
- ○ Small (10 to 49 employees)

○ Medium (50 to 249 employees)

○ Large (250 or more)

Transparency register number

255 character(s) maximum

Check if your organisation is on the transparency register (http://ec.europa.eu/transparencyregister/public/homePage.do?redir=false&locale=en). It's a voluntary database for organisations seeking to influence EU decision-making.

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9160958318-89
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*Country of origin

Please add your country of origin, or that of your organisation.

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France
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*Field of activity or sector (if applicable):

at least 1 choice(s)

☐ Accounting

☐ Auditing

☐ Banking

☐ Credit rating agencies

☐ Insurance

☐ Pension provision

☐ Investment management (e.g. hedge funds, private equity funds, venture capital funds, money market funds, securities)

☐ Market infrastructure operation (e.g. CCPs, CSDs, Stock exchanges)

☐ Technology companies

☐ Organisation representing European consumers' interests

☐ Organisation representing European retail investors' interests

☐ National supervisory authority

☐ European supervisory authority

☑ Other

☐ Not applicable

*Please specify your activity field(s) or sector(s):

> Corporate Treasury

*Publication privacy settings

The Commission will publish the responses to this consultation. You can choose whether you would like your details to be made public or to remain anonymous.

○ **Anonymous**
Only your type of respondent, country of origin and contribution will be published. All other personal details (name, organisation name and size, transparency register number) will not be published.

◉ **Public**
Your personal details (name, organisation name and size, transparency register number, country of origin) will be published with your contribution.

☑ I agree with the personal data protection provisions (https://ec.europa.eu/info/law/better-regulation/specific-privacy-statement_en)

General questions

Europe's strategic objective should be to ensure that European consumers and firms fully reap the benefits stemming from digital finance while being adequately protected from the potential new risks it may bring. To achieve that, the European financial sector needs to be at the forefront of innovation and its implementation in a market and production environment in order to better serve consumers and firms in an efficient, safe, sound and sustainable manner. Strong and innovative digital capacities in the financial sector will help improve the EU's ability to deal with emergencies such as the COVID-19 outbreak. It will help to further deepen the Banking Union and the Capital Markets Union and thereby strengthen Europe's economic and monetary union and to mobilise funding in support of key policy priorities such as the Green Deal and sustainable finance. It is also essential for Europe to safeguard its strategic sovereignty in financial services, and our capacity to manage, regulate and supervise the financial system in a way that promotes and protects Europe's values and financial stability. This will also help to strengthen the international role of the euro.

With a view to adopt a new Digital Finance Strategy/FinTech Action Plan for Europe later this year, the Commission is now seeking your views to identify the priority areas for action and the possible policy measures.

Question 1. What are the main obstacles to fully reap the opportunities of innovative technologies in the European financial sector (please mention no more than 4)?

Please also take into account the <u>analysis of the expert group on Regulatory Obstacles to Financial Innovation (XXXX)</u> in that respect.

5,000 character(s) maximum

including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

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Some of obstacles to fully reaping the opportunities associated with innovative technologies are in our view the
following:

1. Cyber resilience and security - rapid advances in technology and FinTech offerings to corporates also tend to come hand
in hand with an increase in cyber risk. As a result, the promotion of Fintech activities and uptake of FinTech solutions
in the EU needs to be complemented with a reinforced approach to cybersecurity and cyber resilience for the financial
sector and end-users of Fintech solutions offered by the financial sector.

2. Uniform and harmonised standards - to provide legal certainty and encourage growth in the Fintech sector without
stifling innovation there is merit in introducing a harmonised minimum regulatory standard to ensure a level playing
field.

3. A stronger enabling framework for use of innovative FinTech solutions in regulatory compliance - for example for KYC
and customer due diligence processes, but also for AML compliance and remote customer onboarding.

4. Lack of passporting among EU Member States for digital financial servcies, coupled with a lack of investment by
incumbents in adoption of FinTech.
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Question 2. What are the key advantages and challenges consumers are facing with the increasing digitalisation of the financial sector (please mention no more than 4)?

For each of them, what if any are the initiatives that should be taken at EU level?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

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Amongst the main advantages of the increasing digitalisation of the financial sector for corporates are the following:

- A growing level of interconnectivity and harmonisation of data from a multitude of sources, coupled with faster and
better integrated data flows. This would also result in greater access and process speeds for both supply and demand.

- A proliferation of more financial services at lower cost (PSD2 has already been a game changer in this context). More
open access - if appropriately managed - could lead to more market transparency, competition, and scalability of new
technological solutions.

- Larger levels of trust and security through a greater decentralisation of risk.

- Enhanced cyber-security and AML compliance through use of technologies like DLT, machine learning, Robotic Process
Automation, and AI.

There are however also some challenges for corporates:

- Little harmonisation across the EU regarding licencing procedures for new solutions.

- Cross border frictions for use of new solutions (e.g. for KYC and payments).

- Understanding and preventing the principal risks connected with the adopted/would be adopted technologies.

What should be done at EU level:

There should be a greater push to harmonise EU legislation with regard to licencing in the sector to ensure harmonised
standards across the EU. For corproates operating across a multitude of jurisdictions in the EU, local initiatives will
rarely provide effective or attractive solutions.

EU level efforts should also focus on providing incentives for the uptake of new financial technologies and supporting the
companies that develop them. It is equally important to invest more effort into financial literacy to drive consumer
confidence in the benefit of adopting new technologies.
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Building on previous policy and legislative work, and taking into account the contribution digital finance can make to deal with the COVID-19 emergency and its consequences, the Commission services are considering four key priority areas for policy action to spur the development of digital finance:

1. ensuring that the EU financial services regulatory framework is technology-neutral and innovation friendly;

2. reaping the opportunities offered by the EU-wide Single Market for digital financial services for consumers and firms;

3. promoting a data-driven financial sector for the benefit of EU consumers and firms; and

4. enhancing the operational resilience of the financial sector.

Question 3. Do you agree with the choice of these priority areas?

- ◉ Yes
- ○ No
- ○ Don't know / no opinion / not relevant

Question 3.1 Please explain your answer to question 3 and specify if you see other areas that would merit further attention from the Commission:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

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In our view, the main areas that would merit attention are further harmonisation of the single market rulebook with regard
to digital financial services, a strong focus on operational and cyber resilience in the financial sector, as well as a
stronger focus on the end-user/customer side (corporate side) of the equation when it comes to the development of
standards for digital financial services.
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I. Ensuring a technology-neutral and innovation friendly EU financial services regulatory framework

In order to be fit for the digital age, the EU financial services regulatory framework should neither prescribe nor prevent the use of particular technologies whilst ensuring that regulatory objectives continue to be satisfied. It should also not hinder the emergence and scaling up of innovative business models, including platform-based ones, provided that the new risks these new business models may bring are properly addressed. The Commission undertook an in-depth assessment of these issues in the context of the FinTech Action Plan and is already acting on certain issues. Even so, in this fast-moving and increasingly complex ecosystem, it is essential to monitor technological and market trends on a regular basis and to identify at an early stage whether new regulatory issues, including e.g. prudential ones, are emerging and, if so, how to address them in a proportionate manner.

Question 4. Do you consider the existing EU financial services regulatory framework to be technology neutral and innovation friendly?

- ◉ Yes

○ No

○ Don't know / no opinion / not relevant

Question 5. Do you consider that the current level of consumer protection for the retail financial products and services established by the EU regulatory framework is technology neutral and should be also applied to innovative ones using new technologies, although adapted to the features of these products and to the distribution models?

○ Yes

○ No

◉ Don't know / no opinion / not relevant

Question 5.1 Please explain your reasoning on your answer to question 5, and where relevant explain the necessary adaptations:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Identify areas where the financial services regulatory framework may need to be adapted

The use of Distributed Ledger Technology (DLT), and in particular the use of one of its applications, the so-called crypto-assets, have been identified as an area where the European regulatory framework may need to be adapted. A public consultation on crypto-assets is on-going to gather stakeholders' views on these issues. Beyond the area of crypto assets, and looking at other technological and market developments, the Commission considers that it is important to identify potential regulatory obstacles to innovation at an early stage and see how to best address these obstacles not to slow down the uptake of new technologies in the financial sector.

Question 6. In your opinion, is the use for financial services of the new technologies listed below limited due to obstacles stemming from the EU financial services regulatory framework or other EU level regulatory requirements that also apply to financial services providers?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.

Distributed Ledger Technology (except crypto-assets)	○	○	◉	○	○	○
Cloud computing	○	○	◉	○	○	○
Artificial Intelligence/Machine learning	○	○	◉	○	○	○
Internet Of Things (IoT)	○	○	◉	○	○	○
Biometrics	○	○	◉	○	○	○
Quantum computing	○	○	◉	○	○	○
Other	○	○	◉	○	○	○

Question 6.1 Please explain your answer to question 6, specify the specific provisions and legislation you are referring to and indicate your views on how it should be addressed:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 7. Building on your experience, what are the best ways (regulatory and non-regulatory measures) for the EU to support the uptake of nascent technologies and business models relying on them while also mitigating the risks they may pose?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.

	1	2	3	4	5	6
Setting up dedicated observatories to monitor technological and market trends (e.g. EU Blockchain Observatory & Forum; Platform Observatory)	○	○	○	○	◉	○
Funding experimentation on certain applications of new technologies in finance (e.g blockchain use cases)	○	○	○	◉	○	○
Promoting supervisory innovation hubs and sandboxes	○	○	○	◉	○	○
Supporting industry codes of conduct on certain applications of new technologies in finance	○	○	○	○	◉	○
Enhancing legal clarity through guidance at EU level for specific technologies and/or use cases	○	○	○	○	◉	○
Creating bespoke EU regimes adapted to nascent markets, possibly on a temporary basis	○	○	○	◉	○	○
Other	○	○	○	○	○	○

Assess the need for adapting the existing prudential frameworks to the new financial ecosystem, also to ensure a level playing field

Financial services providers are increasingly relying on technology companies to support delivery mechanisms for financial services. Technology companies are also increasingly entering financial services directly. Such trends will have an impact on the customers, the supply chain, incumbent financial institutions and their regulators and supervisors. Big technology companies are able to quickly scale up services due to network effects and large user bases. Their entry may accordingly over time significantly change market structures. This may require a review of how the EU financial legislative framework regulates firms and activities, in particular if technology companies were to become direct providers of specific services (e.g. lending) or a broader range of financial services or activities. This may also require a review of how to supervise the overall risks stemming from financial services of such companies.

Financial regulation should harness the opportunities offered by digitalisation – e.g. in terms of innovative solutions that better serve customers - while protecting the public interest in terms of e.g. fair competition, financial stability, consumer protection and market integrity. The Commission accordingly invite stakeholders' views on the potential impact of technology companies entering financial services and possible required policy response in view of the above public policy objectives.

Question 8. In which financial services do you expect technology companies which have their main business outside the financial sector (individually or collectively) to gain significant market share in the EU in the five upcoming years?

Please rate each proposal from 1 to 5:

	1 (very low market share - below 1%)	2 (low market share	3 (neutral)	4 (significant market share)	5 (very significant market share - above 25%)	N.A.
Intra-European retail payments	○	○	○	○	◉	○
Intra-European wholesale payments	○	○	○	◉	○	○
Consumer credit provision to households with risk taking	○	○	○	◉	○	○
Consumer credit distribution to households with partner institution(s)	○	○	○	○	◉	○
Mortgage credit provision to households with risk taking	○	○	◉	○	○	○
Mortgage credit distribution to households with partner institution(s)	○	○	○	◉	○	○
Credit provision to SMEs with risk taking	○	○	○	◉	○	○
Credit distribution to SMEs with partner institution(s)	○	○	○	○	◉	○
Credit provision to large corporates with risk taking	○	○	○	◉	○	○
Syndicated lending services with risk taking	○	○	○	◉	○	○
Risk-taking activities in Life insurance products	○	○	○	◉	○	○
Risk-taking activities in Non-life insurance products	○	○	○	◉	○	○

Risk-taking activities in pension products	○	○	◉	○	○	○
Intermediation / Distribution of life insurance products	○	○	○	◉	○	○
Intermediation / Distribution of non-life insurance products	○	○	○	◉	○	○
Intermediation / Distribution of pension products	○	○	○	◉	○	○
Other insurance related activities, e.g. claims management	○	○	○	◉	○	○
Re-insurance services	○	○	○	◉	○	○
Investment products distribution	○	○	○	○	◉	○
Asset management	○	○	○	○	◉	○
Others	○	○	○	○	○	○

Question 8.1 Please explain your answer to question 8 and, if necessary, describe how you expect technology companies to enter and advance in the various financial services markets in the EU Member States:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

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An additional area where we may see more market share fall to technology companies is in supply chain finance.
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Question 9. Do you see specific financial services areas where the principle of "same activity creating the same risks should be regulated in the same way" is not respected?

○ Yes
○ No
◉ Don't know / no opinion / not relevant

Question 9.1 Please explain your answer to question 9 and provide examples if needed:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 10. Which prudential and conduct risks do you expect to change with technology companies gaining significant market share in financial services in the EU in the five upcoming years?

Please rate each proposal from 1 to 5:

	1 (significant reduction in risks)	2 (reduction in risks)	3 (neutral)	4 (increase in risks)	5 (significant increase in risks	N.A.
Liquidity risk in interbank market (e.g. increased volatility)	○	○	○	◉	○	○
Liquidity risk for particular credit institutions	○	○	◉	○	○	○
Liquidity risk for asset management companies	○	○	○	◉	○	○
Credit risk: household lending	○	○	○	◉	○	○
Credit risk: SME lending	○	○	◉	○	○	○
Credit risk: corporate lending	○	○	◉	○	○	○
Pro-cyclical credit provision	○	○	◉	○	○	○
Concentration risk for funds collected and invested (e.g. lack of diversification)	○	○	◉	○	○	○

Concentration risk for holders of funds (e.g. large deposits or investments held in a bank or fund)	○	◉	○	○	○	○
Undertaken insurance risk in life insurance	○	◉	○	○	○	○
Undertaken insurance risk in non-life insurance	○	○	◉	○	○	○
Operational risks for technology companies and platforms	○	○	◉	○	○	○
Operational risk for incumbent financial service providers	○	○	◉	○	○	○
Systemic risks (e.g. technology companies and platforms become too big, too interconnected to fail)	○	○	○	◉	○	○
Money-laundering and terrorism financing risk	○	○	○	◉	○	○
Other	○	○	○	○	○	○

Question 10.1 Please explain your answer to question 10 and, if necessary, please describe how the risks would emerge, decrease or increase with the higher activity of technology companies in financial services and which market participants would face these increased risks:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

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A stronger shift towards use of more decentralised and perhaps less regulated financial technologies bears the risk of
regulatory arbitrage, which in turn increases broader conduct risk in the market. Harmonised and clear standards are
therefore necessary, especially when techology companies move towards offering the same type of financial services as
those offered by existing providers.
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Question 11. Which consumer risks do you expect to change when technology companies gain significant market share in financial services in the EU in the five upcoming years?

Please rate each proposal from 1 to 5:

	1 (significant reduction in risks)	2 (reduction in risks)	3 (neutral)	4 (increase in risks)	5 (significant increase in risks	N.A.
Default risk for funds held in non-banks and not protected by Deposit Guarantee Scheme	○	○	◉	○	○	○
Liquidity risk	○	○	○	◉	○	○
Misselling of insurance products	○	○	○	◉	○	○
Misselling of investment products	○	○	○	◉	○	○
Misselling of credit products	○	○	○	◉	○	○
Misselling of pension products	○	○	○	◉	○	○
Inadequate provision of information	○	○	○	◉	○	○
Inadequate complaint and redress process and management	○	○	○	◉	○	○
Use/abuse of personal data for financial commercial purposes	○	○	○	◉	○	○
Discrimination e.g. based on profiles	○	○	○	◉	○	○
Operational risk e.g. interrupted service, loss of data	○	○	○	◉	○	○
Other	○	○	○	○	○	○

Question 11.1 If necessary, please describe how the risks would emerge, decrease or increase with the higher activity of technology companies in financial services and which market participants would face these increased risks:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

> Enabling the provision of regulated financial services by a wider range of companies increases the risk for manipulation and criminal abuse. Consumer protection and transparency must be a priority. This also includes transparency over the use of end-user data. There are also some concerns that the advent of more decentralised financial services provisions could increase liquidity risk.

Question 12. Do you consider that any of the developments referred to in the questions 8 to 11 require adjusting the regulatory approach in the EU (for example by moving to more activity-based regulation, extending the regulatory perimeter to certain entities, adjusting certain parts of the EU single rulebook)?

○ Yes
○ No
◉ Don't know / no opinion / not relevant

Question 12.1 Please explain your answer to question 12, elaborating on specific areas and providing specific examples:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Enhance multi-disciplinary cooperation between authorities

The regulation and supervision of Digital Finance requires more coordination between authorities in charge of regulating and supervising finance, personal data, consumer protection, anti-money-laundering and competition-related issues.

Question 13. Building on your experience, what are the main challenges authorities are facing while supervising innovative/digital players in finance and how should they be addressed?

Please explain your reasoning and provide examples for each sector you are referring to (e.g. banking, insurance, pension, capital markets):

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 14. According to you, which initiatives could be put in place at EU level to enhance this multi-disciplinary cooperation between authorities?

Please explain your reasoning and provide examples if needed:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

II. Removing fragmentation in the single market for digital financial services

Removing Single Market fragmentation has always been on the radar of EU institutions. In the digital age, however, the ability of firms to scale up is a matter of economic productivity and competitiveness. The economics of data and digital networks determines that firms with substantial network effects enjoy a competitive advantage over rivals. Only a strong Single Market for financial services could bring about EU-wide businesses that would be able to compete with comparably sized peers from other jurisdictions, such as the US and China.

Removing fragmentation of the Single Market in digital financial services while maintaining an adequate level of security for the financial system is also essential for expanding access to financial services for consumers, investors and businesses across the EU. Innovative business models and services are flourishing in the EU, with the potential to bring greater choice and better services to consumers. Traditional players and start-ups are both competing, but also increasingly establishing partnerships to innovate. Notwithstanding the opportunities provided by the Digital Single Market, firms still face obstacles when scaling up across the Single Market.

Examples include a lack of consistency in the transposition, interpretation and application of EU financial legislation, divergent regulatory and supervisory attitudes towards digital innovation, national 'gold-plating' of EU rules, cumbersome licensing processes, insufficient funding, but also local preferences and dampen cross-border and international ambition and entrepreneurial spirit and risk taking on the part of business leaders and investors. Likewise, consumers face barriers in tapping innovative digital products and being offered and receiving services from other Member States other than of their residence and also in accessing affordable market data to inform their investment choices. These issues must be further addressed if the EU is to continue to be an incubator for innovative companies that can compete at a global scale.

Question 15. According to you, and in addition to the issues addressed in questions 16 to 25 below, do you see other obstacles to a Single Market for digital financial services and how should they be addressed?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Facilitate the use of digital financial identities throughout the EU

Both start-ups and incumbent financial institutions increasingly operate online, without any need for physical establishment in a particular jurisdiction. Technologies are enabling the development of new ways to verify information related to the identity and financial situation of customers and to allow for portability of such information as customers change providers or use services by different firms. However, remote on-boarding relies on different technological means (e.g. use of biometric data, facial recognition, live video) to identify and verify a customer, with different national approaches regarding their acceptability. Moreover, supervisory authorities have different expectations concerning the rules in the 5th Anti-Money Laundering Directive permitting reliance on third parties for elements of on-boarding. The Commission will also consult shortly in the context of the review of the EU Anti-Money Laundering framework.

Question 16. What should be done at EU level to facilitate interoperable cross-border solutions for digital on-boarding?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Harmonise rules governing customer due diligence requirements in the Anti-Money Laundering legislation	○	○	○	○	◉	○
Harmonise rules governing the acceptable use of remote identification technologies and services in the Anti-Money Laundering legislation	○	○	○	○	◉	○
Broaden access for obliged entities to publicly held information (public databases and registers) to enable verification of customer identities	○	○	○	○	◉	○

Provide further guidance or standards in support of the customer due diligence process (e.g. detailed ID elements, eligible trusted sources; risk assessment of remote identification technologies)	○	○	○	○	◉	○
Facilitate the development of digital on-boarding processes, which build on the e-IDAS Regulation	○	○	○	○	◉	○
Facilitate cooperation between public authorities and private sector digital identity solution providers	○	○	○	○	◉	○
Integrate KYC attributes into e-IDAS in order to enable on-boarding through trusted digital identities	○	○	○	○	◉	○
Other	○	○	○	○	○	○

Question 17. What should be done at EU level to facilitate reliance by financial institutions on digital identities gathered by third parties (including by other financial institutions) and data re-use/portability?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Make the rules on third party reliance in the Anti-Money Laundering legislation more specific	○	○	○	○	◉	○
Provide further guidance relating to reliance on third parties for carrying out identification and verification through digital means, including on issues relating to liability	○	○	○	◉	○	○
Promote re-use of digital identities collected for customer due diligence purposes in accordance with data protection rules	○	○	○	○	◉	○
Promote a universally accepted public electronic identity	○	○	○	◉	○	○

Define the provision of digital identities as a new private sector trust service under the supervisory regime of the eIDAS Regulation	○	○	○	◉	○	○
Other	○	○	○	○	○	○

Question 18. Should one consider going beyond customer identification and develop Digital Financial Identities to facilitate switching and easier access for customers to specific financial services?

Should such Digital Financial Identities be usable and recognised throughout the EU?

Which data, where appropriate and in accordance with data protection rules, should be part of such a Digital Financial Identity, in addition to the data already required in the context of the anti-money laundering measures (e.g. data for suitability test for investment services; data for creditworthiness assessment; other data)?

Please explain your reasoning and also provide examples for each case you would find relevant.

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

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Digital onboarding, KYC, and customer due diligence, as well as broader AML compliance are some of the most time and
resource intensive processes. There is potential for embedding information relevant in this context into financial digital
identities, possibly in conjunction with a digital platform to host the data, which can be accessed by financial and non-
financial institutions for compliance purposes.
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Question 19. Would a further increased mandatory use of identifiers such as Legal Entity Identifier (LEI), Unique Transaction Identifier (UTI) and Unique Product Identifier (UPI) facilitate digital and/or automated processes in financial services?

◉ Yes
○ No
○ Don't know / no opinion / not relevant

If yes, in which framework(s) is there the biggest potential for efficiency gains?

5,000 character(s) maximum

including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

> Greater use of the LEI in particular could facilitate remote customer onboarding, customer due diligence checks, as well as KYC and AML processes within treasury. At the same time, a greater use of the LEI could potentially contribute to mitigating cyber risks in treasury in the area of payments. Greater use of UTIs could equally facilitate cross border payments and customs and smoothen trade finance processes.
>
> Overall, greater use of such data formats that can be shared digitally would result in a significant increase in efficiency for market participants.
>
> Ultimately however, any greater leveraging of digital standards for compliance functions would require single platforms or registries that host the compliance relevant information that is embedded in the digital standards to enable multi-jurisdictional and cross-institutional access to the same data.

Make it easier for firms to carry out technology pilots and scale up across the Single Market

Currently, three national competent authorities have established regulatory sandboxes with five more under development. Regulatory sandboxes are most often schemes to enable firms to test, pursuant to a specific testing plan agreed and monitored by a dedicated function of the competent authority, innovative financial products, financial services or business models. Besides, almost all competent authorities have established innovation hubs. Innovation hubs provide a dedicated point of contact for firms to ask questions to competent authorities on FinTech related issues and to seek non-binding guidance on regulatory and supervisory expectations, including licensing requirements. The European Forum of Innovation Facilitators (EFIF) is intended to promote greater coordination and cooperation between innovation facilitators established by financial sector supervisors to support the scaling up of digital finance across the Single Market, including by promoting knowledge-sharing between innovation hubs and facilitating cross-border testing in regulatory sandboxes.

Question 20. In your opinion (and where applicable, based on your experience), what is the main benefit of a supervisor implementing (a) an innovation hub or (b) a regulatory sandbox as defined above?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 21. In your opinion, how could the relevant EU authorities enhance coordination among different schemes in the EU?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Promote convergence among national authorities in setting up innovation hubs and sandboxes, through additional best practices or guidelines	○	○	○	○	◉	○
Facilitate the possibility for firms to test new products and activities for marketing in several Member States ("cross border testing")	○	○	○	○	◉	○
Raise awareness among industry stakeholders	○	○	○	○	◉	○
Ensure closer coordination with authorities beyond the financial sector (e.g. data and consumer protection authorities)	○	○	○	○	◉	○
Promote the establishment of innovation hubs or sandboxes with a specific focus (e.g. a specific technology like Blockchain or a specific purpose like sustainable finance)	○	○	○	○	◉	○
Other	○	○	○	○	○	○

Question 21.1 If necessary, please explain your reasoning and also provide examples for each case you would find relevant:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 22. In the EU, regulated financial services providers can scale up across the Single Market thanks to adequate licenses and passporting rights.

Do you see the need to extend the existing EU licenses passporting rights to further areas (e.g. lending) in order to support the uptake of digital finance in the EU?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Ensure fair and open access to relevant technical infrastructures for all financial service providers that wish to offer their services across the Single Market

(It should be noted that this topic is also included, from the payment perspective, in the Retail Payments consultation (https://ec.europa.eu/info/publications/finance-consultations-2020-retail-payments-strategy_en))

The emergence of providers of technical services supporting the provision of financial services bring both opportunities and challenges. On the one hand, such providers can facilitate the provision of cross-border services. On the other hand, they may in certain cases limit access to the platform or relevant devices' interface, or provide it under unfair and non-transparent terms and conditions. Certain Member States are starting to take measures in this respect.

Question 23. In your opinion, are EU level initiatives needed to avoid fragmentation in the Single Market caused by diverging national measures on ensuring non-discriminatory access to relevant technical infrastructures supporting financial services?

Please elaborate on the types of financial services and technical infrastructures where this would be relevant and on the type of potential EU initiatives you would consider relevant and helpful:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Empower and protect EU consumers and investors using digital finance across the Single Market

An increasing number of new digital financial products and services expose consumers and retail investors to both opportunities and risks: more choice, more tailored products, more convenience, but also bad advice, mis-selling, poor information and even discrimination. Accordingly, it is important to carefully consider how to tap the potential of innovative products, services and business models while empowering and protecting end-users, to ensure that they benefit from a broader access to, and range of innovative products and

services across the Single Market in a safe and sound manner. This may also require reviewing existing legislation to ensure that the consumer perspective is sufficiently taken into account. In addition, promoting financial education and digital financial skills may be important to ensure that consumers and retail investors are able to make the most of what digital finance has to offer and to select and use various digital tools, whilst at the same time increasing the potential size of the market for firms.

Question 24. In your opinion, what should be done at EU level to achieve improved financial education and literacy in the digital context?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Ensure more affordable access at EU level to financial data for consumers and retail investors	○	○	○	○	◉	○
Encourage supervisors to set up hubs focussed on guiding consumers in the digital world	○	○	○	◉	○	○
Organise pan-European campaigns and advisory hubs focusing on digitalisation to raise awareness among consumers	○	○	○	○	◉	○
Collect best practices	○	○	○	○	◉	○
Promote digital financial services to address financial inclusion	○	○	○	◉	○	○
Introduce rules related to financial education comparable to Article 6 of the Mortgage Credit Directive, with a stronger focus on digitalisation, in other EU financial regulation proposals	○	○	○	○	◉	○
Other	○	○	○	○	○	○

Question 25: If you consider that initiatives aiming to enhance financial education and literacy are insufficient to protect consumers in the digital context, which additional measures would you recommend?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

> There would be a need to stringently implement data privacy rules and ensure and safeguard consumers' right to their own data. An overview of consumers' rights in this context needs to be communicated in an easily digestible manner for the average consumer. At the same time, digital financial products need to include a minimum set of disclosures to ensure adequate consumer protection.

III. Promote a well-regulated data-driven financial sector

Data-driven innovation can enable better and more competitive financial services for consumers and businesses, as well as more integrated capital markets (e.g. as discussed in the on-going work of the High-Level Forum). Whilst finance has always been a data-intensive sector, data-processing capabilities have substantially improved over the recent years, enabling fast parallel computing at low cost. Large amounts of data have also become available as computers and their users are increasingly linked, supported by better storage data capabilities. These developments have enabled the use of artificial intelligence (AI) applications to make predictions about future outcomes at a lower cost. Following on to the European data strategy adopted on 19 February 2020, the Commission services are considering a number of steps in this area (see also the parallel consultation on the Mifid review).

Question 26: In the recent communication "A European strategy for data", the Commission is proposing measures aiming to make more data available for use in the economy and society, while keeping those who generate the data in control.

According to you, and in addition to the issues addressed in questions 27 to 46 below, do you see other measures needed to promote a well-regulated data driven financial sector in the EU and to further develop a common European data space for finance?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Facilitate the access to publicly available data in finance

Financial institutions are currently required to make public a wealth of financial information. This information e.g. allows investors to make more informed choices. For example, such data include financial reporting and non-financial reporting, prudential disclosures under the Capital Requirements Directive or Solvency II, securities market disclosures, key information documents for retail investment products, etc. However, this data is not always easy to access and process. The Commission services are reflecting on how to further facilitate access to public disclosures of financial and supervisory data currently mandated by law, for example by promoting the use of common technical standards. This could for instance contribute to achieving other policies of public interest, such as enhancing access to finance for European businesses through more integrated capital markets, improving market transparency and supporting sustainable finance in the EU.

Question 27. Considering the potential that the use of publicly available data brings in finance, in which areas would you see the need to facilitate integrated access to these data in the EU?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Financial reporting data from listed companies	○	○	○	○	◉	○
Non-financial reporting data from listed companies	○	○	○	○	◉	○
SME data	○	○	○	◉	○	○
Prudential disclosure stemming from financial services legislation	○	○	○	◉	○	○
Securities market disclosure	○	○	○	○	◉	○
Disclosure regarding retail investment products	○	○	○	○	◉	○
Other	○	○	○	○	○	○

As part of the European Financial Transparency Gateway (EFTG) project (https://europa.eu/!kX66Hf), the Commission has been assessing since 2017 the prospects of using Distributed Ledger Technology to federate and provide a single point of access to information relevant to investors in European listed companies.

Question 28. In your opinion, what would be needed to make these data easily usable across the EU?

Please rate each proposal from 1 to 5:

	1 (irrele vant)	2 (rather not relevant)	3 (ne utra l)	4 (rather relevant)	5 (fully relevant)	N. A.
Standardised (e.g. XML) and machine-readable format	○	○	○	○	◉	○
Further development of the European Financial Transparency Gateway, federating existing public databases with a Single EU access point	○	○	○	○	◉	○
Application Programming Interfaces to access databases	○	○	○	○	◉	○
Public EU databases	○	○	○	○	◉	○
Other	○	○	○	○	○	○

Consent-based access to personal data and data sharing in the financial sector

The Commission is reflecting how to further enable consumers, investors and businesses to maximise the benefits their data can bring in the financial sector, in full respect of our European standards and values, in particular the European data protection rules, fundamental rights and security.

The revised Payment Services Directive marked an important step towards the sharing and use of customer-permissioned data by banks and third party providers to create new services. However, this new framework is limited to payment data held by payment services providers, and does not cover other types of data relevant to financial services and held by other firms within and outside the financial sector. The Commission is reflecting upon additional steps in the area of financial services inspired by the principle of open finance. Any new initiative in this area would be based on the principle that data subjects must have full control over their data.

Better availability and use of data, leveraging for instance on new technologies such as AI, could contribute to supporting innovative services that could benefit European consumers and firms. At the same time, the use of cutting-edge technologies may give rise to new risks that would need to be kept in check, as equally referred to in section I.

Question 29. In your opinion, under what conditions would consumers favour sharing their data relevant to financial services with other financial services providers in order to get better offers for financial products and services?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 30. In your opinion, what could be the main benefits of implementing an open finance policy in the EU?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
More innovative and convenient services for consumers/investors, e.g. aggregators, comparison, switching tools	○	○	○	◉	○	○
Cheaper traditional services for consumers/investors	○	○	○	◉	○	○
Efficiencies for the industry by making processes more automated (e.g. suitability test for investment services)	○	○	○	◉	○	○
Business opportunities for new entrants in the financial industry	○	○	○	◉	○	○
New opportunities for incumbent financial services firms, including through partnerships with innovative start-ups	○	○	○	◉	○	○

	1	2	3	4	5	N.A.
Easier access to bigger sets of data, hence facilitating development of data dependent services	○	○	○	○	◉	○
Enhanced access to European capital markets for retail investors	○	○	○	○	◉	○
Enhanced access to credit for small businesses	○	○	○	◉	○	○
Other	○	○	○	○	○	○

Question 31. In your opinion, what could be the main risks of implementing an open finance policy in the EU?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Privacy issues / security of personal data	○	○	○	○	◉	○
Financial exclusion	○	○	○	○	◉	○
Poor consumer outcomes (e.g. unfair pricing strategies)	○	○	◉	○	○	○
Misuse of consumers' financial data	○	○	○	◉	○	○
Business confidentiality issues	○	○	○	◉	○	○
Increased cyber risks	○	○	◉	○	○	○

Lack of level playing field in terms of access to data across financial sector activities	○	○	○	◉	○	○
Other	○	○	○	○	○	○

Question 32. In your opinion, what safeguards would be necessary to mitigate these risks?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

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Broader financial literacy and digital financial education campaigns to better inform end-users and consumers of their
rights and the risks associated with financial products and services, but also of the opportunities that technology can
offer.
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Question 33. In your opinion, for which specific financial products would an open finance policy offer more benefits and opportunities?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Savings accounts	○	○	○	◉	○	○
Consumer credit	○	○	○	○	◉	○
SME credit	○	○	◉	○	○	○
Mortgages	○	○	○	◉	○	○
Retail investment products (e.g. securities accounts)	○	○	○	◉	○	○
Non-life insurance products (e.g. motor, home…)	○	○	○	◉	○	○

Life insurance products	○	○	○	◉	○	○
Pension products	○	○	○	◉	○	○
Other	○	○	○	○	○	○

Question 33.1 Please explain your answer to question 33 and give examples for each category:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 34. What specific data (personal and non-personal) would you find most relevant when developing open finance services based on customer consent?

To what extent would you also consider relevant data generated by other services or products (energy, retail, transport, social media, e-commerce, etc.) to the extent they are relevant to financial services and customers consent to their use?

Please explain your reasoning and provide the example per sector:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 35. Which elements should be considered to implement an open finance policy?

Please rate each proposal from 1 to 5:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Standardisation of data, data formats	○	○	○	○	◉	○
Clarity on the entities covered, including potential thresholds	○	○	○	○	◉	○
Clarity on the way data can be technically accessed including whether data is shared in real-time (e.g. standardised APIs)	○	○	○	○	◉	○
Clarity on how to ensure full compliance with GDPR and e-Privacy Directive requirements and need to ensure that data subjects remain in full control of their personal data	○	○	○	○	◉	○
Clarity on the terms and conditions under which data can be shared between financial services providers (e.g. fees)	○	○	○	○	◉	○
Interoperability across sectors	○	○	○	○	◉	○
Clarity on the way data shared will be used	○	○	○	○	◉	○
Introduction of mandatory data sharing beyond PSD2 in the framework of EU regulatory regime	○	○	○	○	◉	○
If mandatory data sharing is considered, making data available free of cost for the recipient	○	○	○	◉	○	○
Other	○	○	○	○	○	○

Support the uptake of Artificial intelligence in finance

Artificial intelligence (AI) can bring considerable benefits for EU citizens and businesses alike and the Commission is committed to support its uptake with appropriate frameworks and investment. The White Paper on Artificial intelligence details the Commission's vision on a European approach for AI in Europe.

In the financial sector, AI and machine learning solutions are increasingly applied throughout the entire value chain. This may benefit both firms and consumers. As regards firms, AI applications that enable better predictions can result in immediate cost savings due to improved risk analysis or better client segmentation and product price differentiation. Provided it can be achieved, this could in the medium term lead to better risk management and improved profitability. As an immediate effect, AI allows firms to save on costs, but as prediction technology becomes more accurate and reliable over time, it may also lead to more productive business models and entirely new ways to compete.

On the consumer side, the use of AI applications can result in an improved price-quality relationship of financial services, better personalisation and in some cases even in financial inclusion of previously excluded consumers. At the same time, AI may entail new risks such as opaque decision-making, biases, discrimination or loss of privacy.

The Commission is seeking stakeholders' views regarding the use of AI and machine learning solutions in finance, including the assessment of the overall opportunities and risks it could bring as well as the specificities of each sector, e.g. banking, insurance or investment services.

Question 36: Do you/does your firm already deploy AI based services in a production environment in the EU?

○ Yes
○ No
◉ Don't know / no opinion / not relevant

Question 37: Do you encounter any policy or regulatory issues with your use of AI?

Have you refrained from putting AI based services in production as a result of regulatory requirements or due to legal uncertainty?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 38. In your opinion, what are the most promising areas for AI-applications in the financial sector in the medium term and what are the main benefits that these AI-applications can bring in the financial sector to consumers and firms?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

In treasury, robotic process automation (RPA) is used for the automation of tasks. This will involve recurring tasks where decisions are relatively minor. This could for example be the reconciliation of data sets. There are also use cases for treasury forecasting to allow treasury to produce real-time and, to the best extent possible, accurate cash flow forecasts. There are also functionalities that can support complex decisions that need to be taken by humans by providing complementary information and analysis to support the decision-making process. This could be relevant in determining the choice of financial instrument or the best time to participate in capital markets.

Machine Learning if viewed as a subset of AI can also contribute to reducing the risk of fraud. Algorithms can be trained to detect anomalies and separate legitimate from fraudulent transactions in the area of payments for example.

Ultimately however, to ensure any broader uptake by end-users and corporates of AI, RPA, or ML solutions, there would need to be more regulatory clarity on the assignment of liability to provide legal certainty over who the ulitmate responsible party is.

Question 39. In your opinion, what are the main challenges or risks that the increased use of AI-based models is likely to raise for the financial industry, for customers/investors, for businesses and for the supervisory authorities?

Please rate each proposal from 1 to 5:

1. Financial industry

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
1.1. Lack of legal clarity on certain horizontal EU rules	○	○	○	○	○	○
1.2. Lack of legal clarity on certain sector-specific EU rules	○	○	○	○	○	○
1.3. Lack of skills to develop such models	○	○	○	○	○	○

1.4. Lack of understanding from and oversight by the supervisory authorities	○	○	○	○	○	○
1.5. Concentration risks	○	○	○	○	○	○
1.6. Other	○	○	○	○	○	○

Please specify what other main challenge(s) or risk(s) the increased use of AI-based models is likely to raise for the financial industry:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

2. Consumers/investors

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
2.1. Lack of awareness on the use of an algorithm	○	○	○	○	◉	○
2.2. Lack of transparency on how the outcome has been produced	○	○	○	○	◉	○
2.3. Lack of understanding on how the outcome has been produced	○	○	○	○	◉	○
2.4. Difficult to challenge a specific outcome	○	○	○	○	◉	○
2.5. Biases and/or exploitative profiling	○	○	○	○	○	◉
2.6. Financial exclusion	○	○	○	○	○	◉

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
2.7. Algorithm-based behavioural manipulation (e.g. collusion and other coordinated firm behaviour)	○	○	○	○	◉	○
2.8. Loss of privacy	○	○	○	○	◉	○
2.9. Other	○	○	○	○	○	○

3. Supervisory authorities

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
3.1. Lack of expertise in understanding more complex AI-based models used by the supervised entities	○	○	○	○	◉	○
3.2. Lack of clarity in explainability requirements, which may lead to reject these models	○	○	○	○	◉	○
3.3. Lack of adequate coordination with other authorities (e.g. data protection)	○	○	○	○	◉	○
3.4. Biases	○	○	○	○	○	◉
3.5. Other	○	○	○	○	○	◉

Question 40. In your opinion, what are the best ways to address these new issues?

Please rate each proposal from 1 to 5

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N. A.
New EU rules on AI at horizontal level	○	○	○	○	◉	○
New EU rules on AI for the financial sector	○	○	○	○	◉	○
Guidance at EU level for the financial sector	○	○	○	○	◉	○
Experimentation on specific AI applications under the control of competent authorities	○	○	○	○	◉	○
Certification of AI systems	○	○	○	○	◉	○
Auditing of AI systems	○	○	○	○	◉	○
Registration with and access to AI systems for relevant supervisory authorities	○	○	○	◉	○	○
Other	○	○	○	○	○	○

Harness the benefits data-driven innovation can bring in compliance and supervision

RegTech tools that are emerging across Europe can bring significant efficiencies for the financial industry. Besides, national and European supervisory authorities also acknowledge the benefits new technologies can bring in the data-intensive supervision area. Following on the findings of the Fitness Check of EU supervisory reporting, the Commission is already acting to develop a supervisory reporting that is fit for the future. Leveraging on machine learning technology, the Commission is mapping the concepts definitions and reporting obligations across the EU financial services legislation to identify the areas where further standardisation is needed. Standardised concept definitions and reporting obligations are a prerequisite for the use of more automated processes. Moreover, the Commission is assessing through a Proof of Concept the benefits and challenges recent innovation could bring in the reporting area such as machine-readable and machine executable legislation. Looking at these market trends and building on that work, the Commission is reflecting upon the need for additional initiatives at EU level to facilitate the uptake of RegTech and/or SupTech solutions.

Question 41. In your opinion, what are the main barriers for new RegTech solutions to scale up in the Single Market?

Please rate each proposal from 1 to 5:

Providers of RegTech solutions:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Lack of harmonisation of EU rules	○	○	○	○	○	○
Lack of clarity regarding the interpretation of regulatory requirements (e.g. reporting)	○	○	○	○	○	○
Lack of standards	○	○	○	○	○	○
Lack of real time access to data from regulated institutions	○	○	○	○	○	○
Lack of interactions between RegTech firms, regulated financial institutions and authorities	○	○	○	○	○	○
Lack of supervisory one stop shop for RegTech within the EU	○	○	○	○	○	○
Frequent changes in the applicable rules	○	○	○	○	○	○
Other	○	○	○	○	○	○

Financial service providers:

	1 (irrelevant)	2 (rather not relevant)	3 (neutral)	4 (rather relevant)	5 (fully relevant)	N.A.
Lack of harmonisation of EU rules	○	○	○	○	○	○
Lack of trust in newly developed solutions	○	○	○	○	○	○
Lack of harmonised approach to RegTech within the EU	○	○	○	○	○	○
Other	○	○	○	○	○	○

Question 42. In your opinion, are initiatives needed at EU level to support the deployment of these solutions, ensure convergence among different authorities and enable RegTech to scale up in the Single Market?

○ Yes
○ No
○ Don't know / no opinion / not relevant

Question 42.1 Please explain your answer to question 42 and, if necessary, please explain your reasoning and provide examples:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 43. In your opinion, which parts of financial services legislation would benefit the most from being translated into machine-executable form?

Please specify what are the potential benefits and risks associated with machine-executable financial services legislation:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 44. The Commission is working on standardising concept definitions and reporting obligations across the whole EU financial services legislation.

Do you see additional initiatives that it should take to support a move towards a fully digitalised supervisory approach in the area of financial services?

Please explain your reasoning and provide examples if needed:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 45. What are the potential benefits and drawbacks of a stronger use of supervisory data combined with other publicly available data (e.g. social media data) for effective supervision?

Should the Please explain your reasoning and provide examples if needed:

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

IV. Broader issues

Question 46. How could the financial sector in the EU contribute to funding the digital transition in the EU? Are there any specific barriers preventing the sector from providing such funding?

Are there specific measures that should then be taken at EU level in this respect?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Question 47. Are there specific measures needed at EU level to ensure that the digital transformation of the European financial sector is environmentally sustainable?

5,000 character(s) maximum
including spaces and line breaks, i.e. stricter than the MS Word characters counting method.

Additional information

Should you wish to provide additional information (e.g. a position paper, report) or raise specific points not covered by the questionnaire, you can upload your additional document(s) here:

Useful links

More on this consultation (https://ec.europa.eu/info/publications/finance-consultations-2020-digital-finance-strategy_en) (https://ec.europa.eu/info/publications/finance-consultations-2020-digital-finance-strategy_en)

Consultation document (https://ec.europa.eu/info/files/2020-digital-finance-strategy-consultation-document_en) (https://ec.europa.eu/info/files/2020-digital-finance-strategy-consultation-document_en)

More on digital finance (https://ec.europa.eu/info/business-economy-euro/banking-and-finance/digital-finance_en) (https://ec.europa.eu/info/business-economy-euro/banking-and-finance/digital-finance_en)

Specific privacy statement (https://ec.europa.eu/info/files/2020-digital-finance-strategy-specific-privacy-statement_en) (https://ec.europa.eu/info/files/2020-digital-finance-strategy-specific-privacy-statement_en)

More on the Transparency register (http://ec.europa.eu/transparencyregister/public/homePage.do?locale=en) (http://ec.europa.eu/transparencyregister/public/homePage.do?locale=en)

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