

June
2016

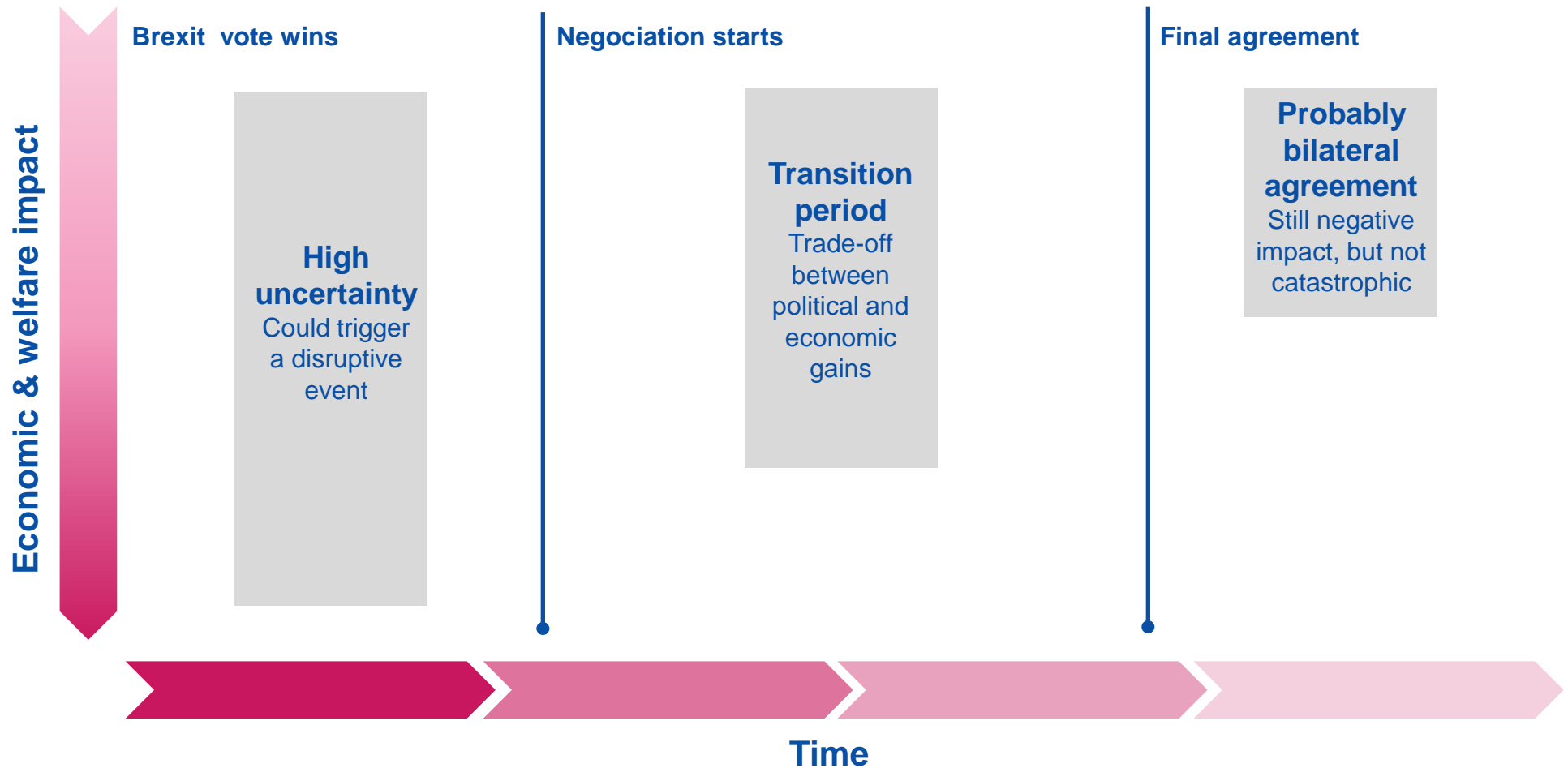
The Economic Consequences of Brexit



Key messages

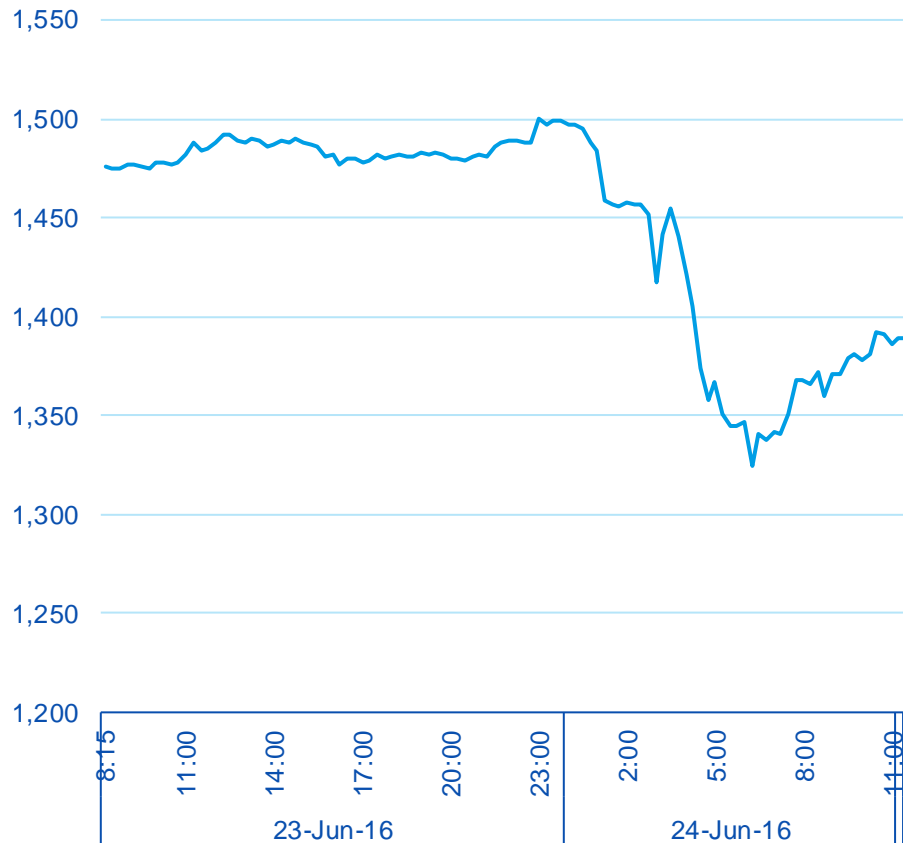
- The decision on **Brexit has been based more on politics and emotions** than economics.
- **High uncertainty about the timeline of negotiations and the new relationship agreements.**
- **New agreements:** The more beneficial politically, the more damaging economically. **The most likely outcome would be a bilateral agreement UK-EU** –neither “Norway model” nor WTO status.
- The **economic impact in the long term for the UK is undoubtedly negative (range of 2% - 8% lower GDP level by 2030)**, but not dramatic.
- The current level of **political and economic policy uncertainty is already damaging activity.**
- **The largest uncertainty relates to the short-term impact of Brexit.** For financial markets, the impact is potentially serious, especially for the UK, with contagion effects to Europe (periphery) and global impact. However, there are no clear fundamentals to justify a large and persistent contagion effect. It will depend on the political negotiation, which will be difficult.
- **Bank of England’s reaction will favor monetary easing** unless inflation rises or capital rapidly flows out
- **The UK would lose its Passport rights for financial services**, hampering access to the EU market. The actual impact will depend very much on the negotiation process and political climate towards the City
- The economic long-term impact on the rest of the EU should be limited, but the road could be noisy. **Brexit might hamper the integration process in the EU and is the biggest unknown that we will face. The attitude of the core European countries will be key.**

Uncertainty after Brexit will be higher in the first steps



Markets react to shock Brexit vote: depreciation of the British Pound, flight to safety (lower bond yields) and correction of risky assets (equity)

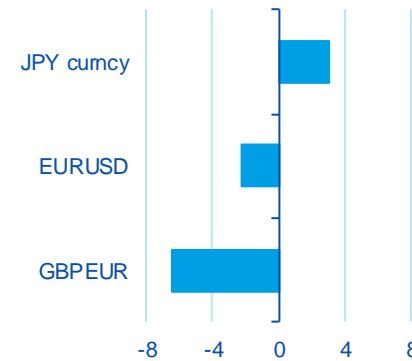
British pound intraday performance



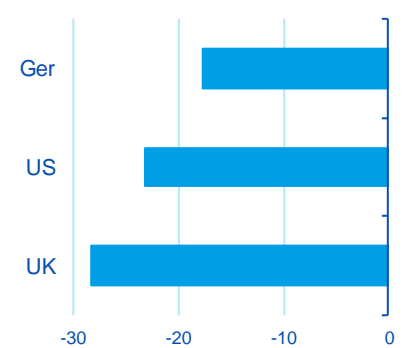
Source: Bloomberg

Asset performance (1D chg.)

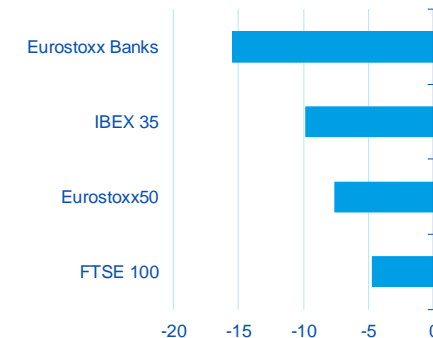
FX (%)



10 Y Yield (bp)

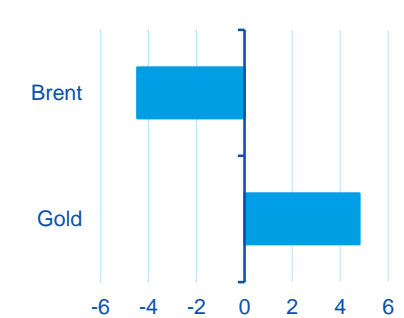


Equity (%)



Source: Bloomberg

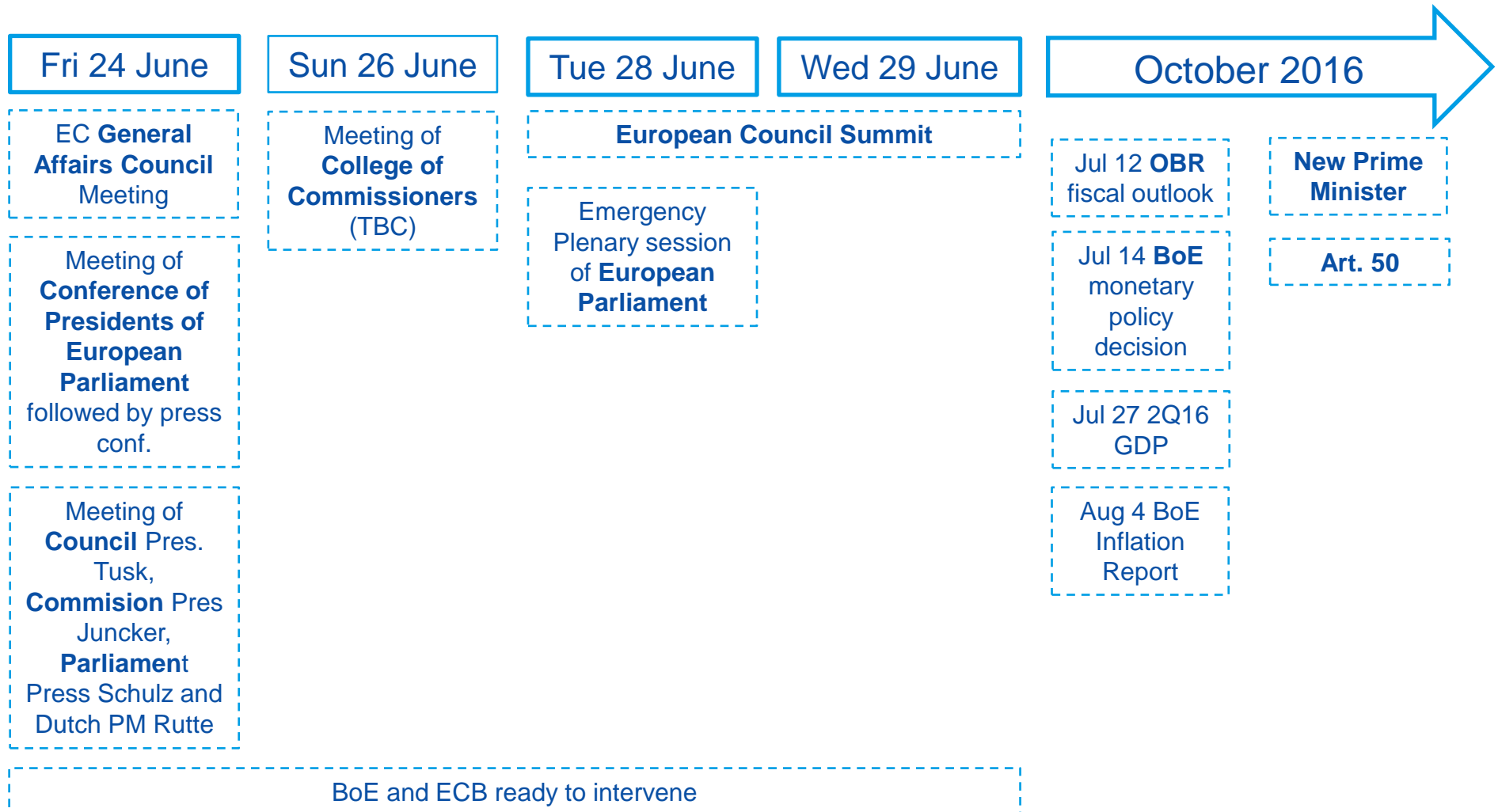
Commodities (%)



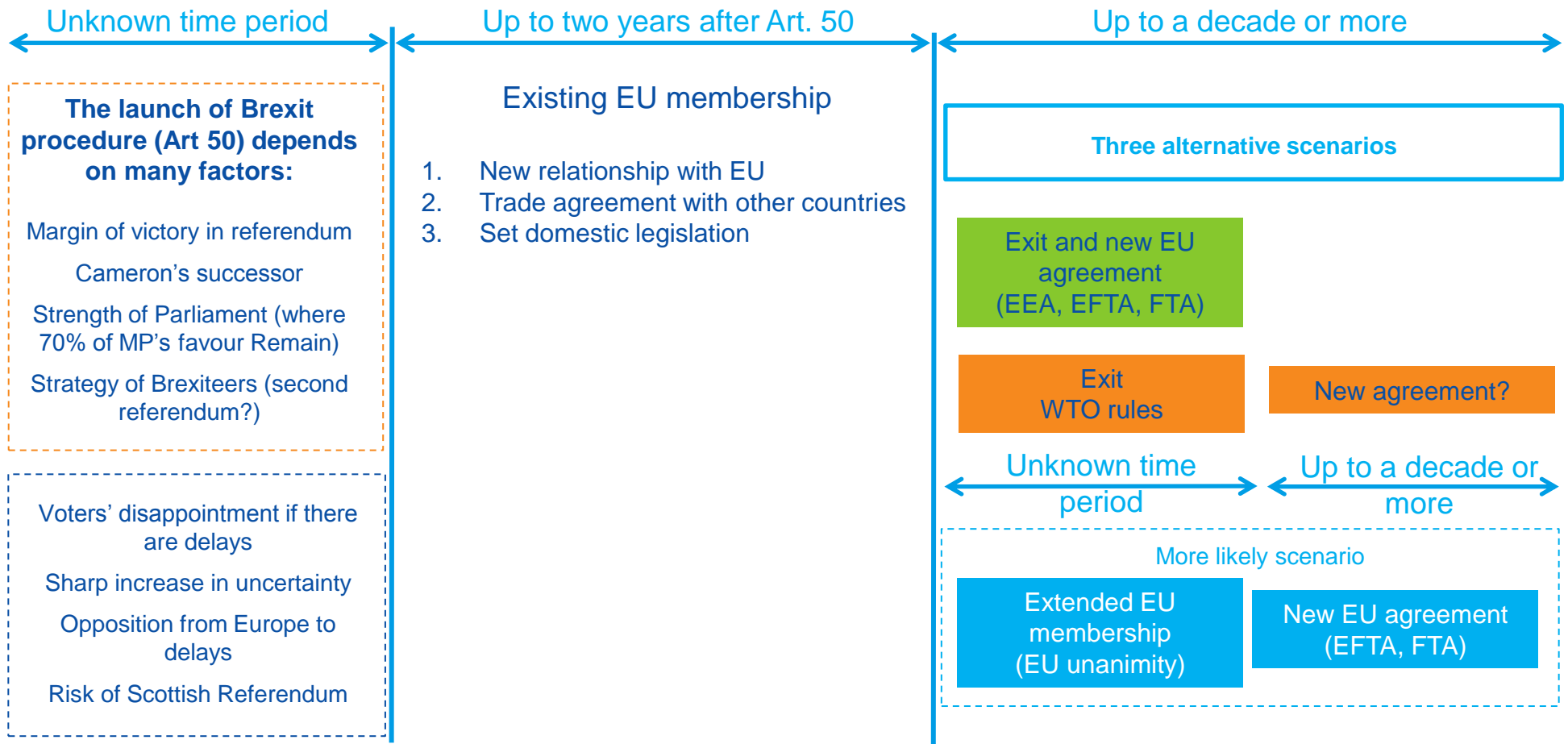
Main questions

- What are the immediate steps after leave vote?
- What is the timeline of the exit process?
- What are the models of post-Brexit agreements?
- What is the long-term impact of Brexit for the UK?
- What about the passport rights for the financial sector?
- Will London keep its financial hub status?
- Is uncertainty about Brexit already affecting growth?
- How strong is the UK exposure to EU and capital flows?
- How would the Bank of England deal with Brexit?
- What will be the effects of Brexit on the EU?
- Which EU country is most exposed to Brexit?

Immediately next steps after leave vote

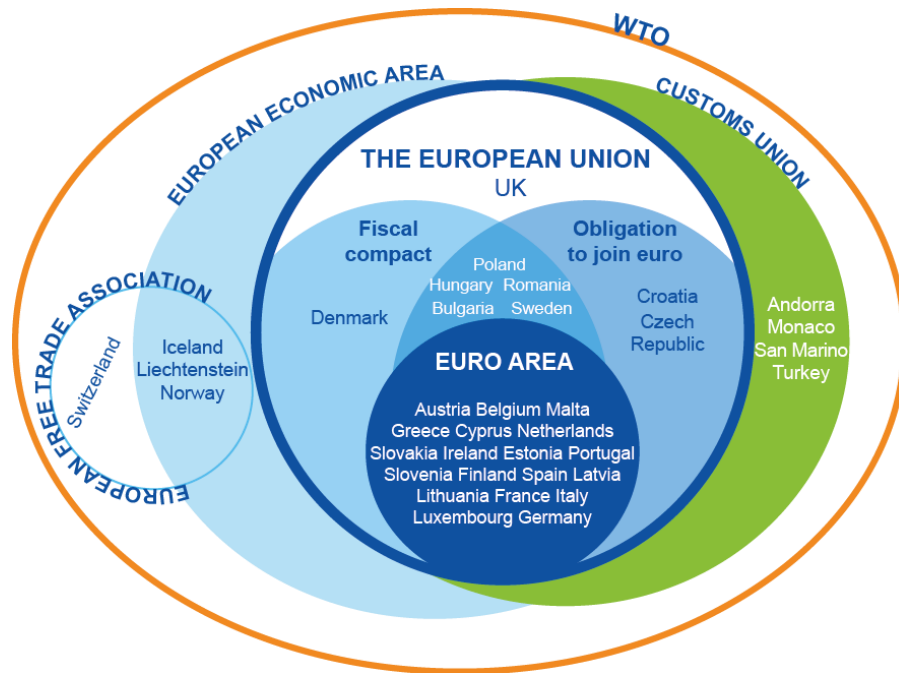


What is the timeline of the exit process? Highly uncertain



What are the models of post-Brexit agreements?

Current EU membership groupings



Source: HM Treasury

Implications of different exit models.

Colours indicate attractiveness from a UK policy perspective

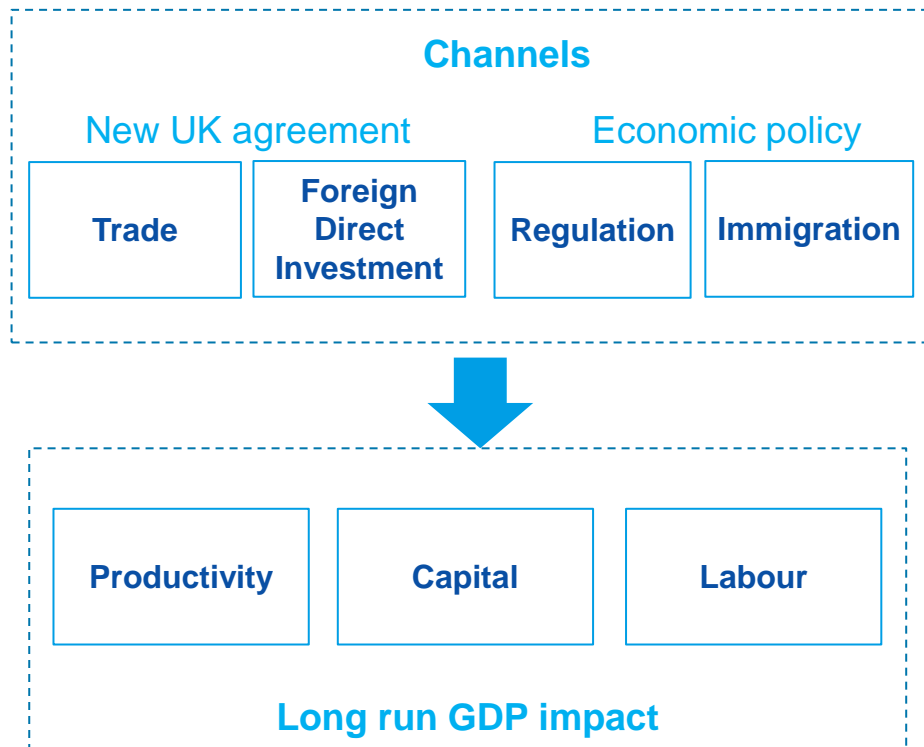
	EEA (Norway)	EFTA (Switzerland)	FTA	Customs Union (Turkey)	WTO
Political issues	✗	✗	✓	✓	✓
Economic issues	✓	✗	✗	✗	✗
	Does not address UK's demands	Favorable for UK / No attractive for EU	Possible, but depends on the deal	Does not address UK's demands	Probably worst case

This is why it is very difficult!

Source: BBVA Research

What is the long-term impact of Brexit for the UK?

Clearly negative



The UK would be better off maintaining a preferential trading relationship with the EU

Lower trade and FDI hit productivity (already low) which feeds through into lower GDP and living standards

Potential gains from deregulation seem to be limited as the UK labour and product markets are amongst the most flexible in the OECD

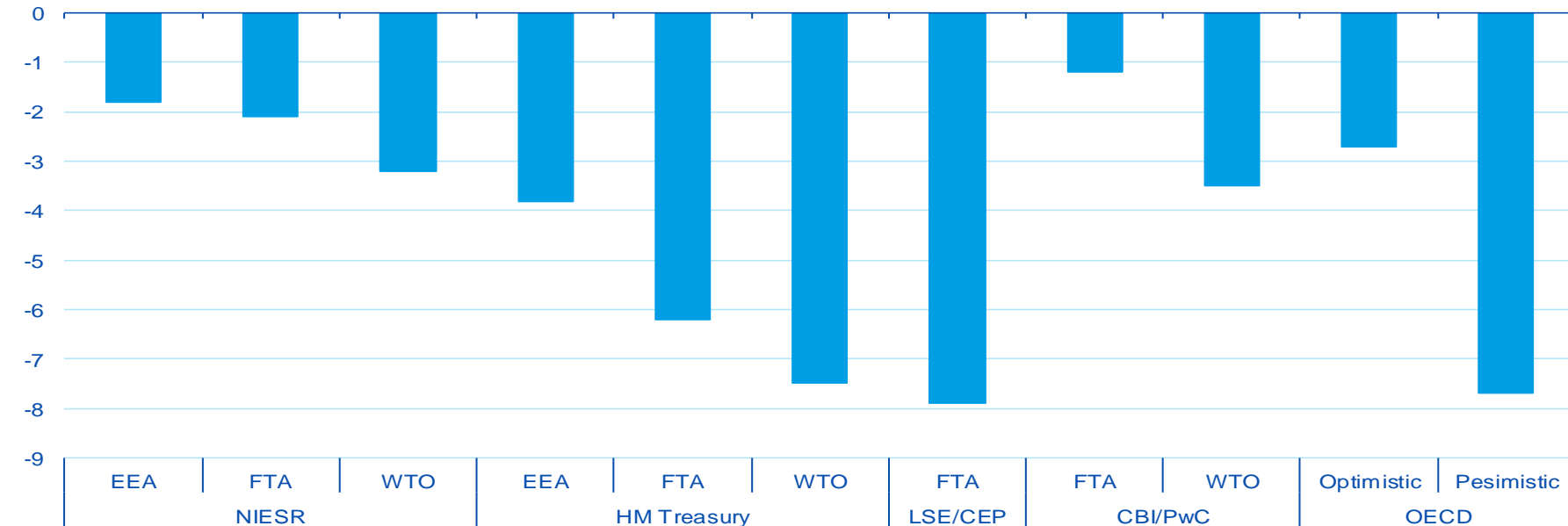
Immigration is an important driver of employment and GDP growth, with positive contribution to public finances. Risk of populist politics

If government adopts a more liberal, pro-business policy response (especially, immigration), the level of GDP holds up better

What is the long-term impact of Brexit for the UK? Politically convenient agreements have higher economic costs

Cumulated GDP fall in 2030

(pp from baseline)

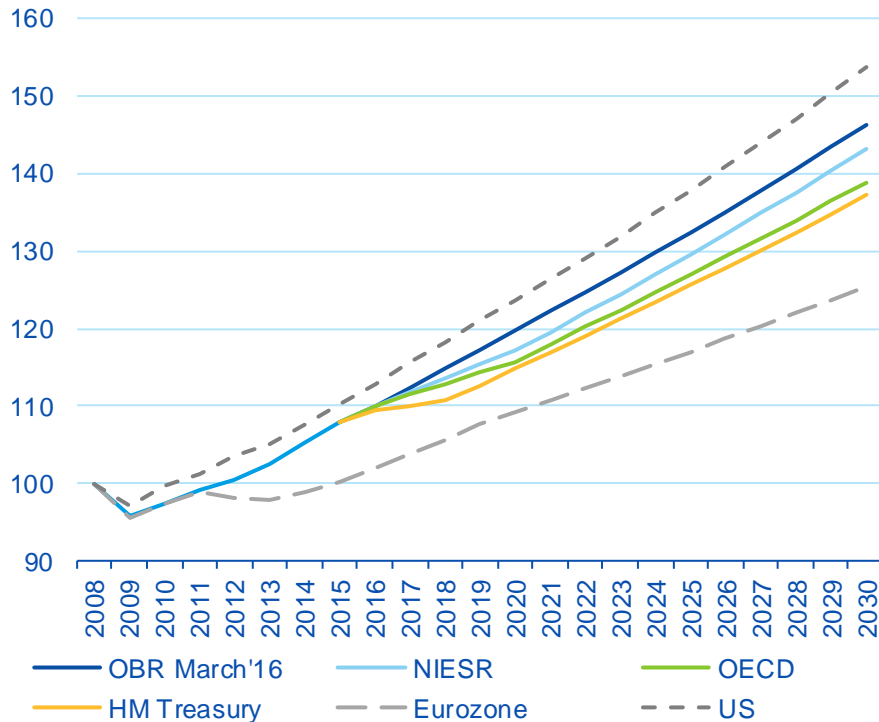


Source: NIESR, HM Treasury, LSE/CEP, CBI/PwC and OECD

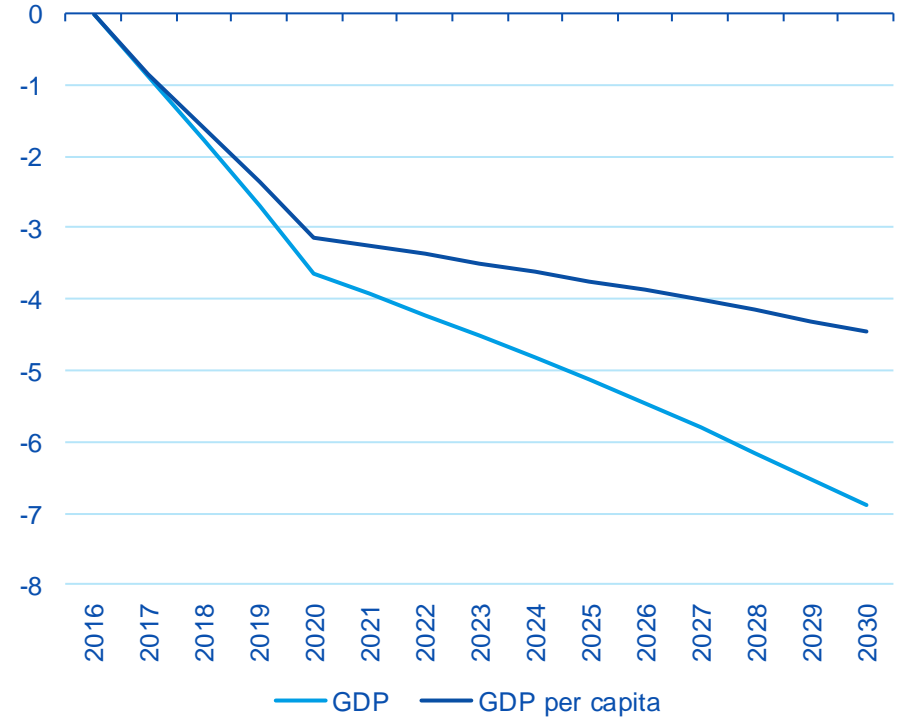


What is the long-term impact of Brexit for the UK? Negative but not catastrophic, especially in per capita terms

GDP level
(2008=100)



Cumulated GDP and per capita GDP fall
(pp from baseline)



Source: BBVA Research from NIESR, HM Treasury, LSE/CEP, CBI/PwC and OECD

Source: BBVA Research from OECD

What about the passport rights for the financial sector? They could be lost (except with a “Norway” style deal)

- The **Passport** for banks and financial firms **allows firms** authorized by any Member State (MS) to **establish branches or provide cross-border financial services** in other MS

No passport implies:

- Firms in UK would need to **establish subsidiaries in EU** increasing **funding costs**
- **Exports of financial services to the EU might fall*** - There would also be an indirect effect associated with lower exports, e.g. reduction in legal advice services
- **Migration of financial firms away from the UK** (spread over time)
- **Central Counterparties (CCP)** trading Euro-denominated products **are likely to reallocate**
- Negative effects might be **partially mitigated** in the short term by the equivalence of the **third countries regime** - Grants access to the EU market for non-EU firms, if the home country has an **equivalent regime** (see annex for further explanation)

* Capital Economics (2015) estimates this reduction to 0,55% of GDP (nearly half of current levels)

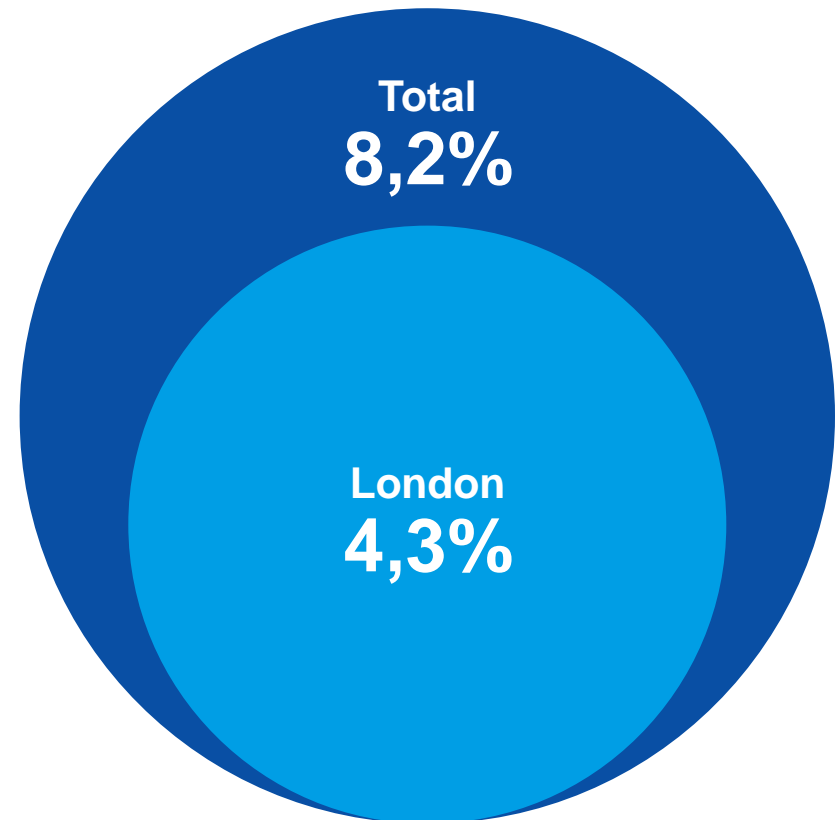
Could London keep its financial hub status? It should remain an important but “diminished” financial center

<p>Strengths</p>	<ul style="list-style-type: none"> • Skilled labour, critical mass of knowledge on financial services, accounting and law • Language, legal system and convenient time-zone • Its importance predates the single market
<p>Weakness (Brexit case)</p>	<ul style="list-style-type: none"> • Little room to reduce regulation after Brexit (see annex for further explanations) • Important number of foreign firms based in UK would consider their options out* • Reallocation of CCPs activities on Euro-denominated trades* • Negative message to the market – Equivalence status depends on EU assessment*

London status as financial centre would be damaged, losing part of their businesses

But it would remain an important financial hub due to intrinsic strengths

Financial Sector
(% of GVA in 2014)

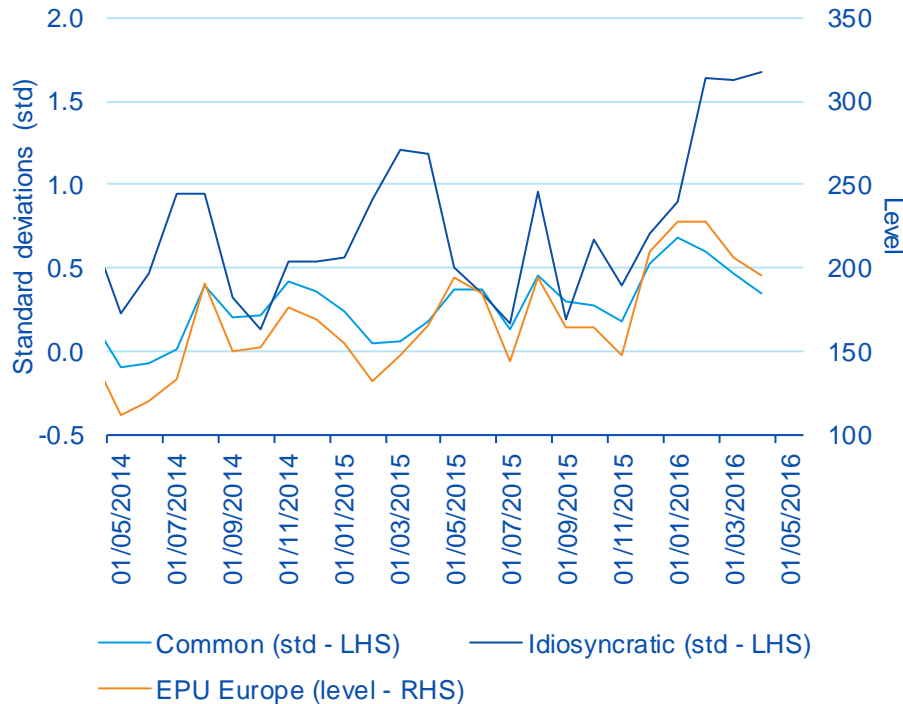


* Assuming no Passport rights in the final agreement

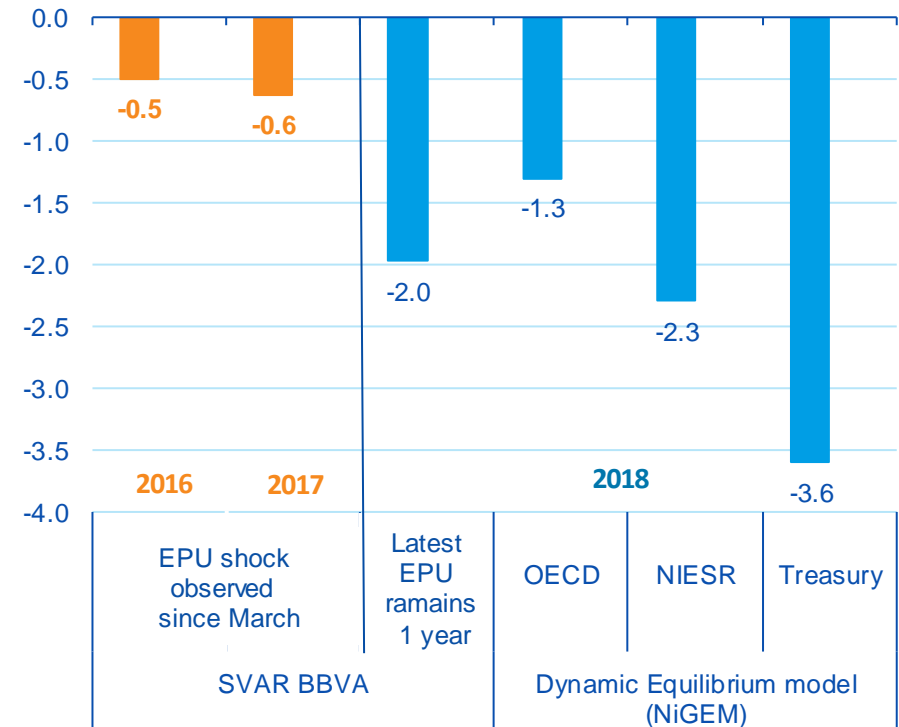


Has uncertainty about Brexit already affected growth? Yes, with potential to have a further impact on GDP

Economic policy uncertainty (EPU)

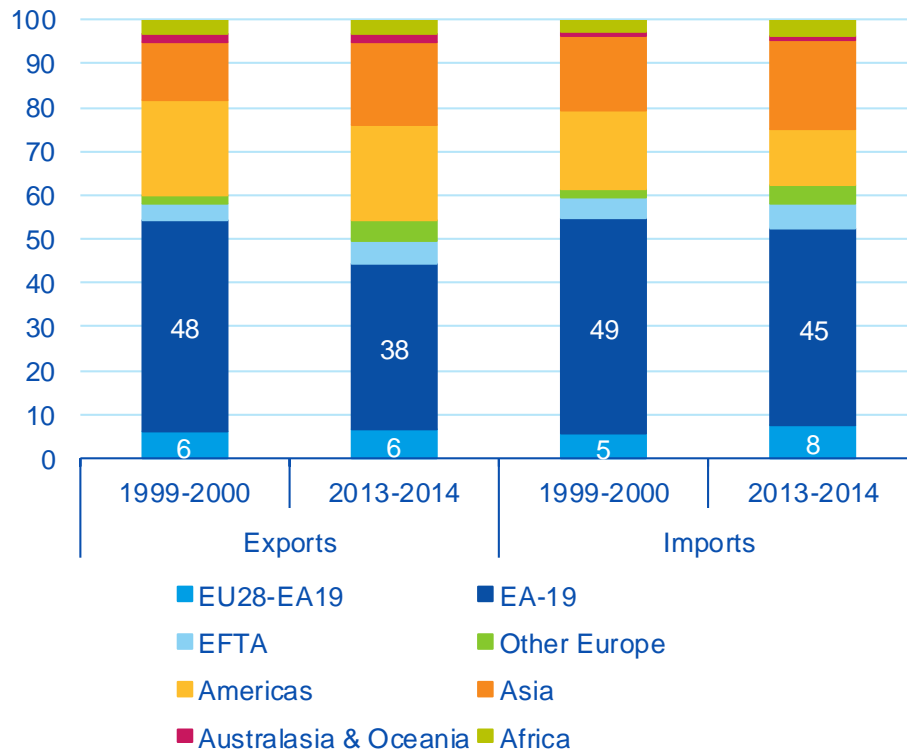


Effect of EPU shock on GDP level (pp from baseline)

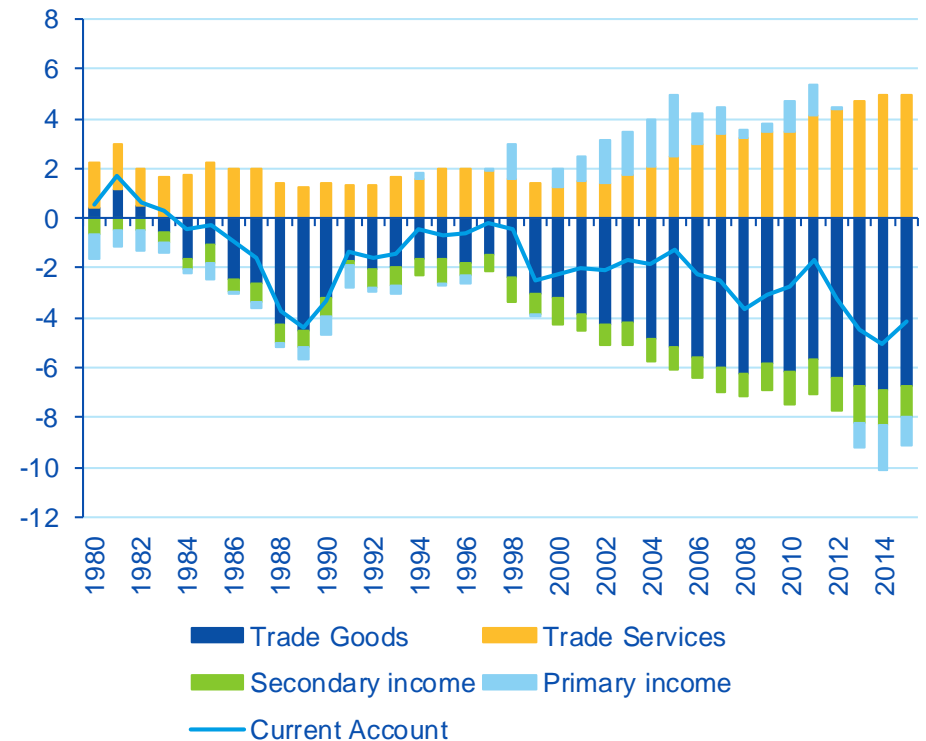


How strong is the UK exposure to EU and capital flows? Very high; this is a vulnerability factor

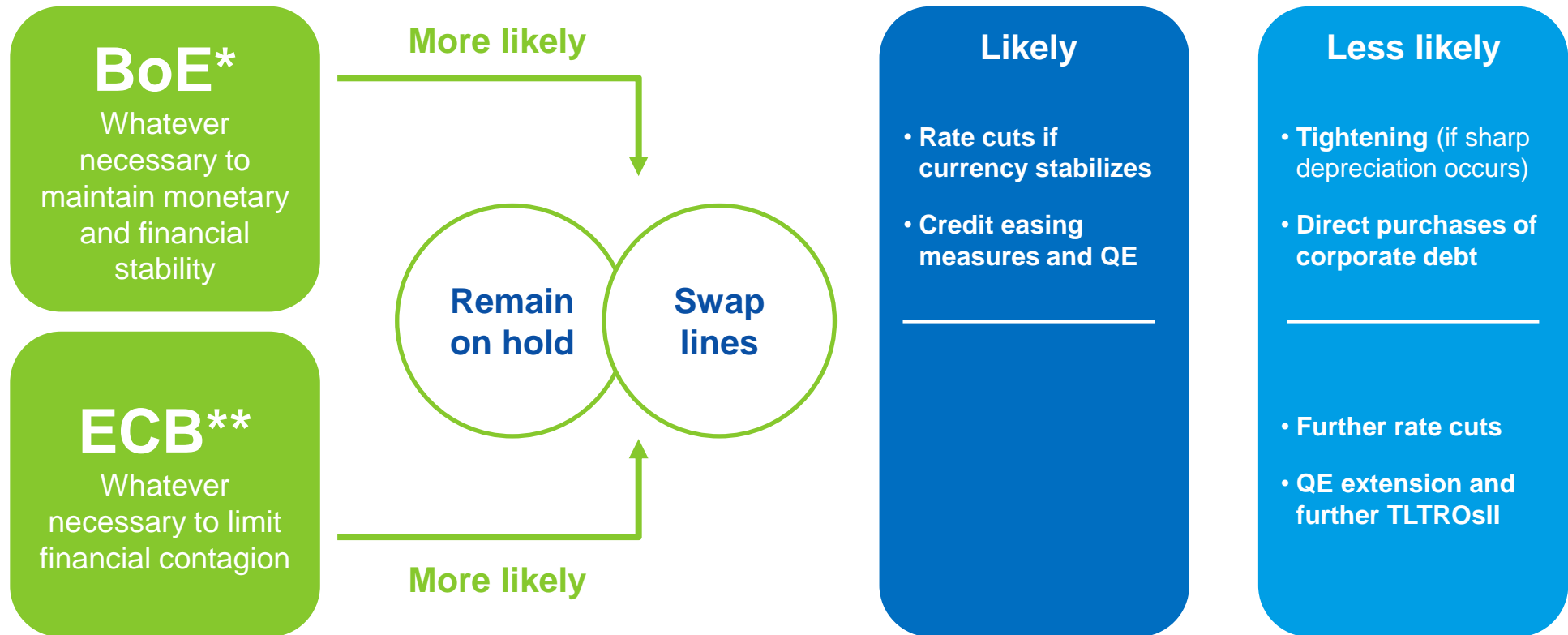
UK exports share by region



UK current account balance (% GDP)



How will the Bank of England deal with Brexit? Favouring monetary easing unless inflation rises or capital flows out



Eventual coordination of central banks

* Mr Carney on Brexit: "I certainly think that would increase the risk of recession". "will do everything in our power to discharge our responsibility to achieve monetary stability and financial stability". "Official interest rates might go up or down depending on the inflationary effects on spending, the exchange rate and investment."

** Mr Draghi on Brexit: He said that it has already had some impact on the markets, but he does not see it as a risk for Eurozone recovery. "The ECB is ready for all contingencies."

What will be the effects on the EU? The key is the political contagion, though a positive reaction is eventually expected

Economic effects

Long-run: limited impact, mainly driven by lower trade, but also by the loss of Britain's pro-market influence; differences across countries

Short-run: more uncertainty effect due to potential contagion, although it is not supported by fundamentals and should not be a disruptive event

Potential positive impact on financial system in the long term at the expense of the City

Political outcomes

Risks of **further centripetal moves** (demands for opt-outs or exit) in other EU countries, mostly in Eastern Europe and Nordics

In the short run, core countries could react with **limited plans** of further integration on less controversial issues (external borders, immigration, security), but **signaling the way towards a more integrated Europe. The European Council needs to play an important role**

From 2018 onwards (after French and German elections in the Fall of 2017) **Europe's integration project could be re-launched towards a multi-speed EU**

Which EU country is most exposed to Brexit?

Differences across countries

Netherlands	Very strong trade (7.6% of GDP), investment (27.6%) and bank exposure to the UK (3% over total assets). Closely aligned in many EU policy debates (less regulation, more liberal markets, and opening up external trade). Increasing dissatisfaction with the EU
Ireland	Most deeply integrated with the UK (trade (11.8%), investment (7.5%) bank exposure to the UK (8% over total assets) , supply channels, migration, language, culture). Similar approaches to economic policy
Sweden	Closely aligned in policy debates. Significant eurosceptic strain
Belgium	Strong trade (6.8%), investment (4.9%) and bank exposure to the UK (4% over total assets). Strong strain of euroscepticism
Germany	Trade (2.8%), investment (2.4%) and bank exposure to the UK (2% over total assets).. Often but not always aligned in EU policy debates, but the UK acts as a counter-weight to France, allowing Germany to act as the decisive swing voter . Challenges for foreign policy
Spain	Trade (2.5%), especially tourism, investment (6%) and bank exposure to the UK (14% over total assets) . Around 800000 britons live in Spain
France	Trade (2%), investment (4.3%) and bank exposure to the UK (3% over total assets). Deep ideological divisions with the UK.
Italy	Trade (1.4%), investment (0.6%) and bank exposure to the UK (1% over total assets). Risks are mostly indirect (relationship between large countries, deterioration support to Europe)

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Annex



Description of exit models

	Brief description	Opinion
EEA – Norway style	EEA membership ensures full access to the single market, but UK must adopt EU standards and regulations (with little influence on them). Still entails substantial contributions to the EU budget. Unable to impose immigration restrictions.	It would not address UK's main demands.
EFTA – Swiss style bilateral agreements	A set of bilateral accords, granting access to the single market in specific sectors. UK has to follow regulation in the sectors covered. It is allowed to negotiate FTAs separately. On immigration, the final setting depends on negotiations.	Might be favourable for UK - EU might not be interested.
Custom Union - Turkey style	No internal tariff barriers. UK has to adopt EU product market regulation. Not all sectors are covered (incomplete access - e.g. financial sector). UK has to follow EU external tariffs to third markets. No influence on them.	It would not address UK's main demands.
FTA	UK-EU relationship ruled by a FTA. Tariff barriers are unlikely, but the UK would likely have to comply with EU standards and regulation. UK is free to apply FTA with third countries.	Might address UK's concerns, but will depend ultimately on the final agreement.
WTO	UK would not need to follow EU standards and regulation, but it will be completely out of the single market. It would face the EU's common external tariff. Gains in migration policy and freedom to trade with rest of the world.	Probably worst case scenario for UK.

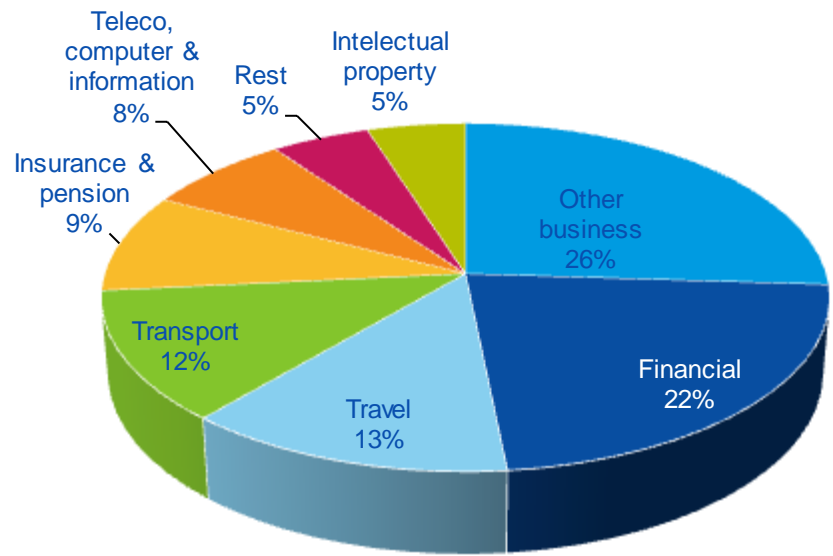
Implications of different exit models

Colours indicate attractiveness from a UK policy perspective

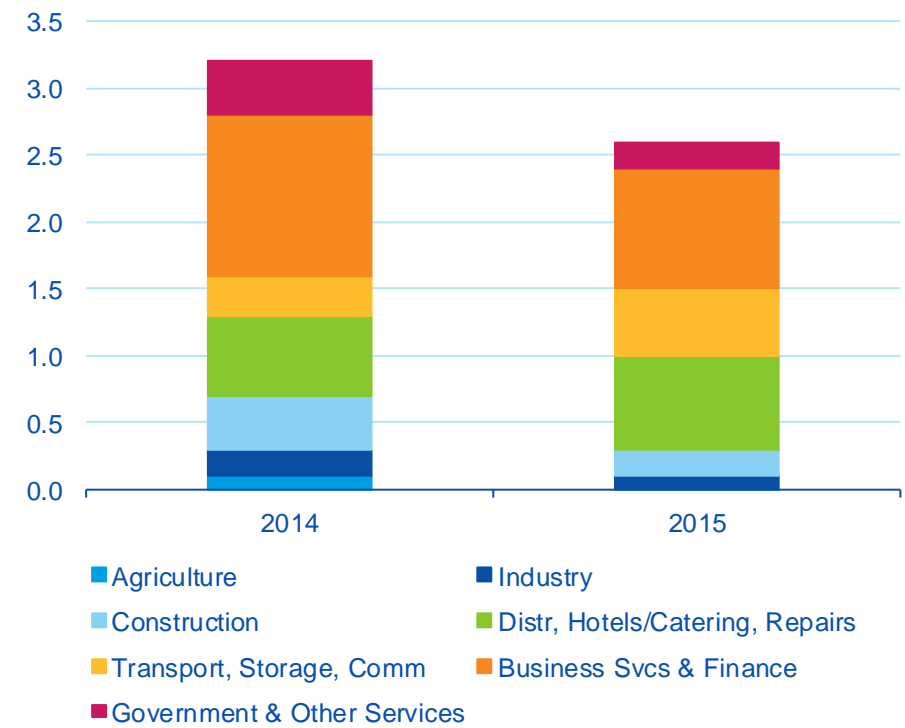
	EEA (Norway)	EFTA (Switzerland)	FTA	Customs Union (Turkey)	WTO
Migration controls	✗	?	✓	✓	✓
EU budget contribution	✗	✗	✓	✓	✓
Compliance with EU rules	✗	?	?	?	✓
Free to negotiate with third countries	✗	✓	✓	✗	✓
Passporting rights	✓	✗	✗	✗	✗
Direct access to Single Market	✓	✗	✗	✗	✗
Tariffs	✓	✓	✓	✓	✗
Dynamic agreement	✓	✓	✗	✓	✗
Influence	✗	✗	✗	✗	✗
	No address UK's demands	Favourable for UK / No attractive for EU	Possible, but depends on the deal	No address UK's demands	Probably worst case

What would be the consequences on trade? A reduction, and the need of new trade agreements

Exports of services 2014
(%)



Contribution to GVA
(pp)



Source: ONS and BBVA Research

Source: ONS and BBVA Research

The importance of the Financial sector and the EU for UK

Financial Sector 7% GDP
4% Employment

Financial Services Exports
2,71% GDP

Trade Surplus with EU
0,91% GDP

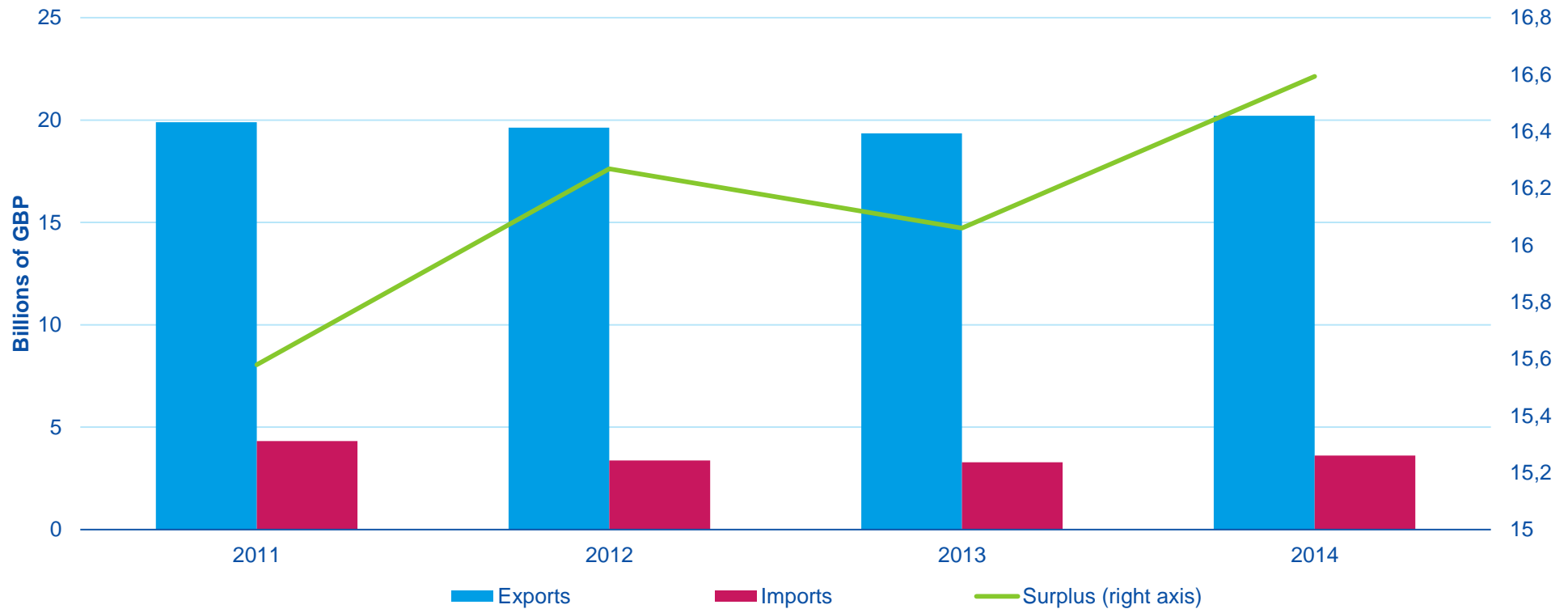
EU capital market activities in UK
80% of tot.

FX trade for € in UK
40% of tot.

UK financial service exports to EU
40% of tot.

The importance of the financial sector and the EU for UK

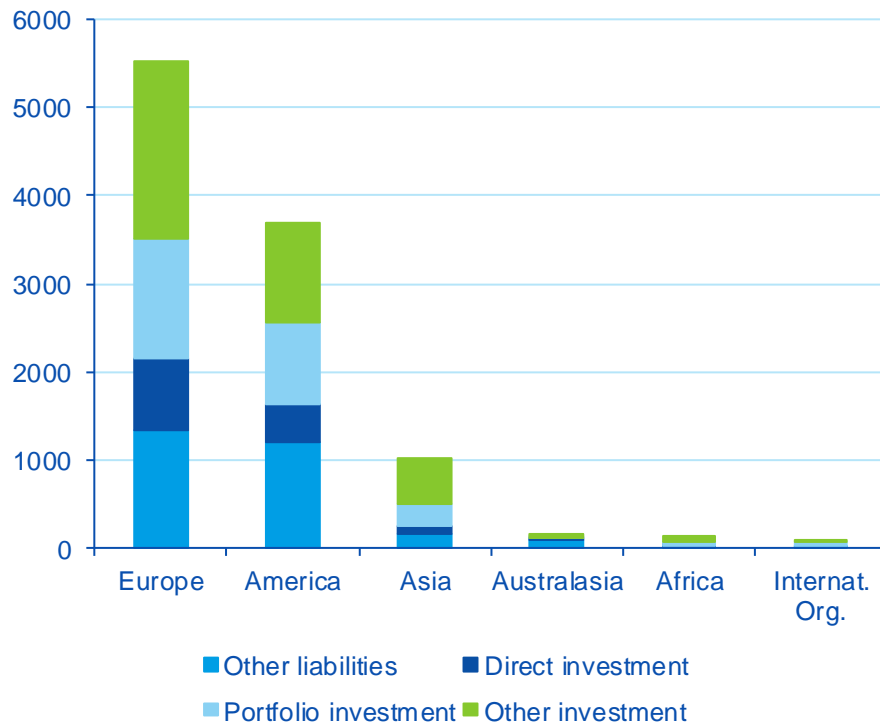
UK-EU financial services trade



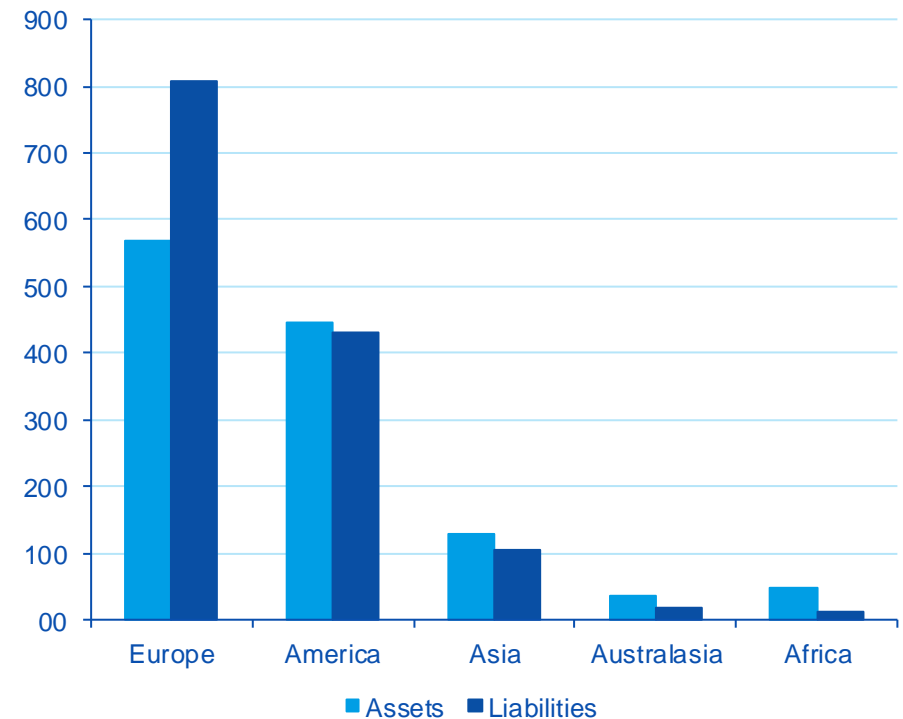
Losing the passport might lead to a reduction in financial services exports to the EU to about £ 10 billion (0,55% of GDP)

What is the foreign investment composition in the UK? Increasing exposure to EU due to crisis

UK Investment exposure by areas
(GBP bn, end-2014)

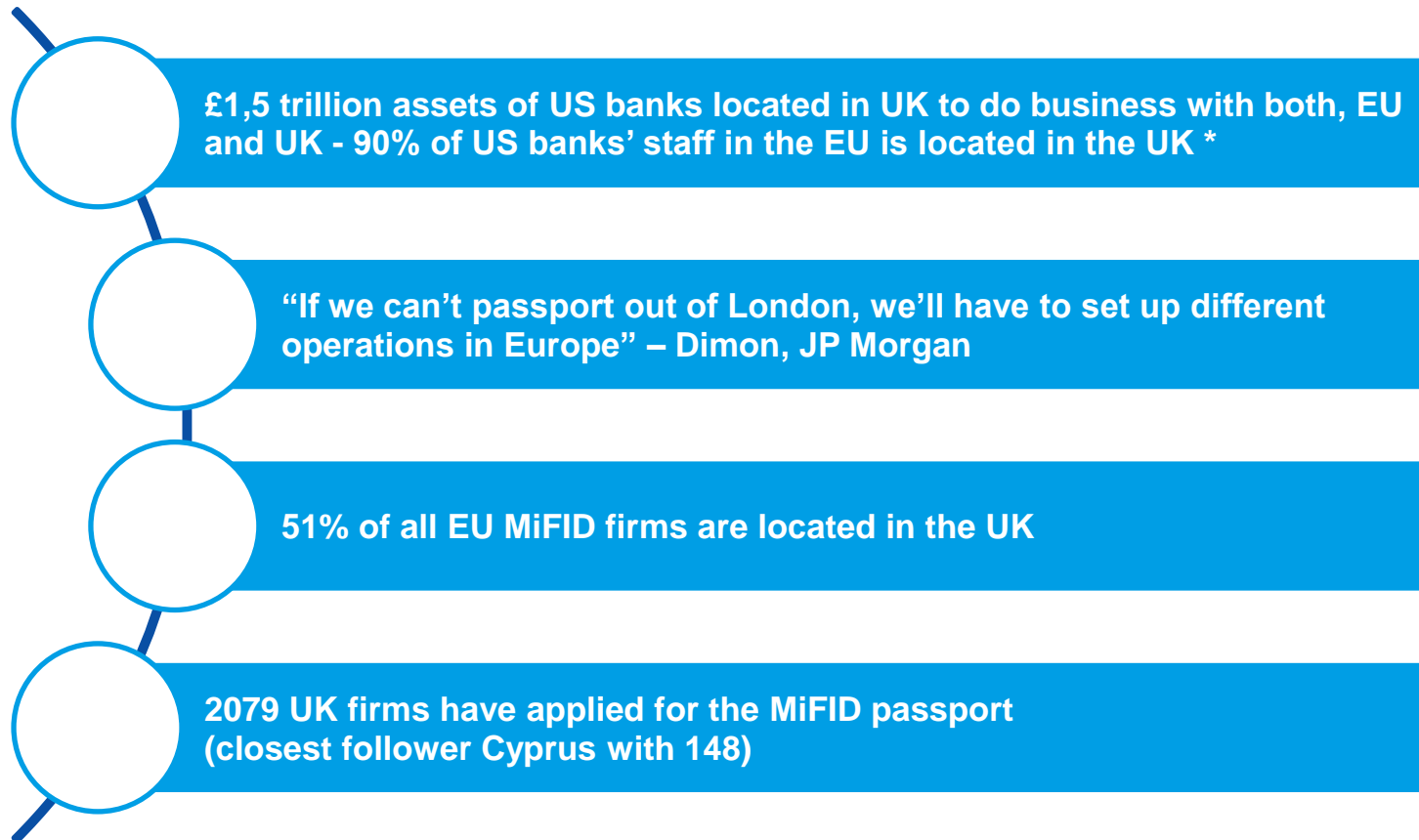


UK direct investment by areas
(GBP bn, end-2014)



Which is the relative importance of the Passport for the UK?

Significant consequences



Source: IIF, The Financial Times and EBA

* Unclear the proportion of those resources devoted to operations with the EU (outside UK), but suggestive of the importance of the Passport

Is there any alternative to the Passport for the UK?

Third country regimes, but not for the long run

- **Grants access to the EU market for non-EU firms**, mitigating the adverse consequences of losing the Passport
- “It leads to considering certain services / products / activities of third countries’ firms as acceptable for the various regulatory purposes in the EU”
- **Condition**: home country has an **EQUIVALENT** regime - The UK would have to demonstrate that its **regulatory framework is equivalent to that of the EU** for each individual directive
- **The Commission** (with technical assistance of EBA, ESMA or EOIPA) **assesses the equivalence**, and makes a formal decision via a Delegated Act (**European Parliament or Council might object**)

But this system has some drawbacks

- **Does not cover all services** provided by the Passport (i.e. those provided by CRD - deposit taking, lending, financial leasing, payment services...)
- The **UK framework would have to mirror any change in the EU** regulatory landscape without any saying on it
- Equivalence should not imply an additional burden in the short run, **but it would not be a long term solution**

How would Central Counterparties (CCPs) react to Brexit?

They might need to reallocate after Brexit

- In March 2015, the General Court of the European Union annulled the ECB's policy framework requiring CCPs to be located in the Eurozone (in favour of UK)
- In case of Brexit this would be difficult to justify:
 - “For this reason, an exit scenario would necessary mean in my view that the **euro-area authorities could no longer tolerate** that such a high proportion of **financial activities involving their currency would take place abroad**” - Christian Noyer, London, March 2016

- **Deutsche Börse and the London Stock Exchange merger** would link their clearing houses (Eurex and LHC) - The **holding company** is originally **planned to be located in London**
- Even though the groups claim that in case of Brexit the deal is still on, they are giving their shareholders the opportunity to **decide on the merge after the Referendum**
- If Brexit, **German shareholders might vote against** or demand to restructure the deal

Survey of studies on the impact of Brexit in the near term

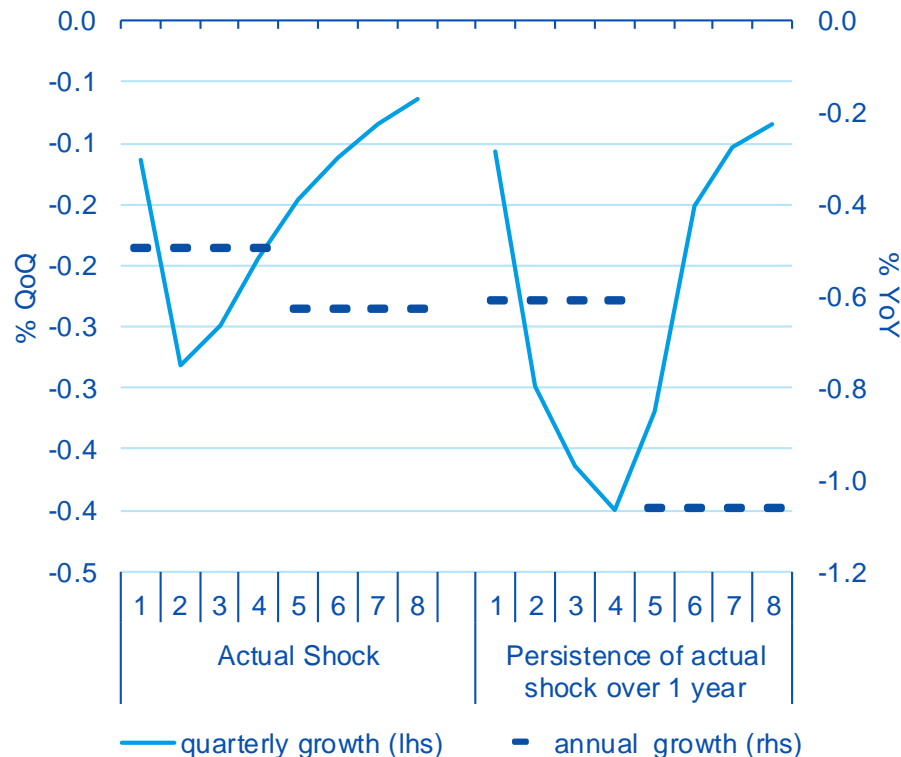
Assumptions, calibration and short-term impact				
Shocks	Magnitude	Calibration method		GDP impact
NIESR	Uncertainty	3Q16 three times level of baseline previous quarter	Probability of a vote to leave the EU as implied by betting markets data was around 1/3	
	Exchange risk premia	Sterling depreciates by around 12% in 3Q16	Shoked by 2/3 of the magnitude observed in 2008	
	Corporate and houshedold borrowing spreads	Raised by 50bp for 6 quarters	Academic literature and historical data	
	Equity risk premia	Raised by 50bp for 6 quarters	Academic literature and historical data	
	Government debt term premia	Raised by 100bp for 4 quarters	Academic literature and historical data	
Long-run effects (Transition)				
	Exchange risk premia	10% depeciation of sterling in mid-2016	-	
OECD	Corporate and houshedold borrowing spreads	Raised by 100bp over 2H16-2017	Estimated equation lining corporate bond spreads, the Economic Policy Uncertainty Index and stock market volatility. EPUI and stock market volatility both shocked by two standard deviations to calibrate the corporta bond spread shock	
	Investment and equity risk premia	Raised by 50bp in 1H16, 150bp in 2H16-2017, and 100bp in 2018	Broadly reflects corporate bond spreads above	
	Government debt term premia	Raised by 20bp in 1H16 and then 50bp over the rest of the simulation period	-	
	Saving rate	Increased by just over 1% in 2H16	-	
Long-run effects (Transition)				
			Shocks on trade volumes, net immigration and productivity	
HM Treasury	Uncertainty	One standard deviation	Estimate a VAR to calibrate shocks on private consumption and business investment within NIGEM following a one standard deviation shock to uncertainty	
	Exchange risk premia	Yes	Calibrate to produce a 12% sterling depreciation on impact	
	Corporate borrowing spread	130bp	1 standard deviation based on historical data	
	Household borrowing spread	70bp	1 standard deviation based on historical data	
	Equity risk premia	120bp	1 standard deviation based on historical data	
	Government debt term premia	40bp	1/2 standard deviation based on historical data	
Long-run effects (Transition)				
			Shocks on trade volumes, productivity and FDI	

Source: NIESR and BBVA Research

Economic policy uncertainty shocks: effects over GDP

UK GDP response to a political uncertainty shock

(pp, quarters after shock)



A SVAR model identified with sign restrictions has been estimated

The identified shock simultaneously and negatively affect the development of the idiosyncratic components of all three variables that enters in the model (EPU, spread and industrial confidence)

Therefore, our SVAR model identifies a shock of economic policy uncertainty, but also it impacts on financial variables

Other studies consider not only uncertainty, but also financial shocks and a transitional effect to a new steady state

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