



# QE and the inflation dogma Does it work and does it make sense?

Richard Silveira PhD

06 November 2017



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## Agenda

- Does the current mandate make sense?
- Is monetary policy a suitable tool?
- What did QE bring us?
- How will QE unwind?
- Monetary policy and pensions
- Is there another way?

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## Does the current mandate make sense?

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Does the current mandate make sense?

- Why does the BoE exist?

*To promote the good of the people of the United Kingdom*

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Does the current mandate make sense?

- Mandate is via monetary (price) and financial stability

*The remit recognises the role of price stability in achieving economic stability more generally, and in providing the right conditions for sustainable growth in output and employment*

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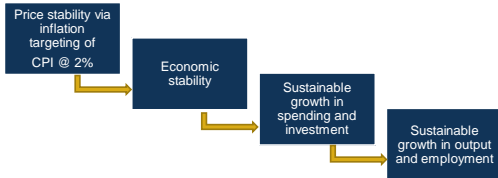
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Does the current mandate make sense?



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Does the current mandate make sense?

- Why a single metric?
- Why 2%?

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Is a single metric sensible?




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Is a single metric sensible?



Necessary *but not sufficient* to achieve sustainable economic growth

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Is a single metric sensible?



Necessary *but not sufficient* to achieve sustainable economic growth

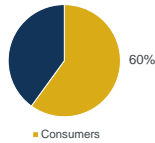
So what else matters?

Seven horizontal lines for notes.

Is a single metric sensible?



GDP is driven by consumers



Seven horizontal lines for notes.

Is a single metric sensible?



Necessary *but not sufficient* to achieve sustainable economic growth

So what else matters for consumers?

Seven horizontal lines for notes.

Is a single metric sensible?



Wage *inflation*?

House price *inflation*?

Rental *inflation*?

Pension *inflation*?

Handwritten notes area with horizontal lines.

Why 2%?

- The sweet spot – not too high, not too low
- Is 2% relevant now? Is a monetary supply issue?
  - Ageing population
  - Technology
- Behavioural factors – why it's still 2%
  - Status quo bias, experts' opinion, fear of regret, anchoring

Handwritten notes area with horizontal lines.

Is monetary policy a suitable tool?

Handwritten notes area with horizontal lines.

### The central banker's toolbox

Setting base rates



Macro-prudential regulation

Quantitative Easing (QE)

Open market operations



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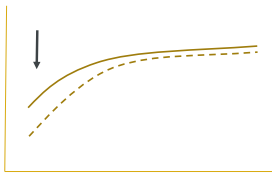
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### The central banker's toolbox



Set the base rate

Longer terms affected through expectation



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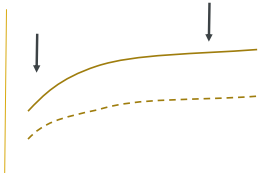
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### The central banker's toolbox



Set the base rate

Longer terms affected through expectation

Add QE for direct influence



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The central banker's toolbox

- Different tools, same intention
- Monetary policy is about
  - the yield curve i.e. the cost of credit
  - the relative value of risk-free and risky assets
- Lower rates to .....
  - increase aggregate demand through credit expansion
  - push capital into riskier assets




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Is monetary policy a suitable tool to lower inflation?

- Yes
- Effective since 1992
- Basis for current mandate
- Can raise rates to arbitrary level




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UK CPI 1989 - 2017




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Is monetary policy a suitable tool to raise inflation?

- A blunt tool
- With costs
- And limitations

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Limitations of monetary policy

- No guarantee cheaper credit is used
- No guarantee it's used for intended purpose
- The lower bound and diminishing returns
- Postpones the issue, doesn't fix it

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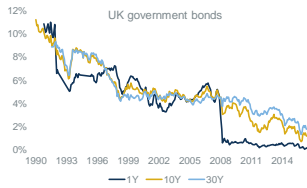
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A 30-year decline in interest rates




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What are the alternatives to monetary policy?

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What are the alternatives to monetary policy?

- Fiscal policy – tax, investment, spending
- Stimulates economy directly
- Not credit-driven -> upfront cost -> politically unpopular

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What did QE bring us?

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Background – March 2009

...the MPC judged at its March meeting that a further monetary loosening was required. In particular, it was concerned that nominal spending in the economy would otherwise be too weak to meet the inflation target in the medium term

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Background – March 2009

The aim of quantitative easing is to inject money into the economy in order to revive nominal spending

It should ultimately lead to an increase in asset prices and spending and therefore bring inflation back to target

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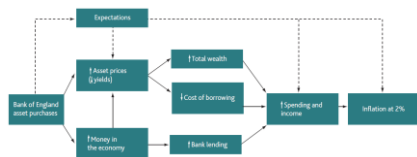
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Mechanism



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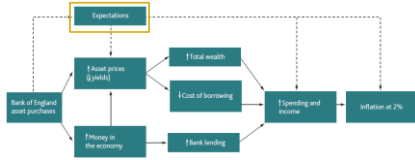
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Mechanism

Asset purchases could have an important impact on expectations



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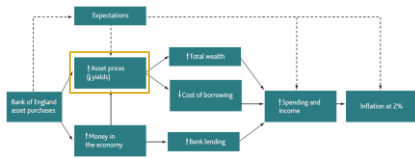
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Mechanism

...higher asset prices increase the wealth of asset holders, which should boost their spending



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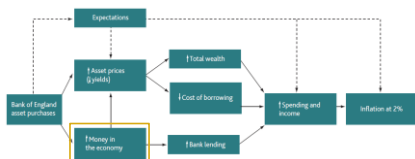
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Mechanism

More bank lending to households and companies should help to support higher consumption and investment



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What does QE look like?

- What's happening to....
  - The gilt curve
  - The amount of bonds purchased
  - Asset prices
  - GDP
  - Inflation



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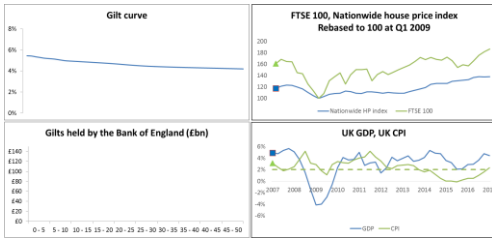
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Q1 2007



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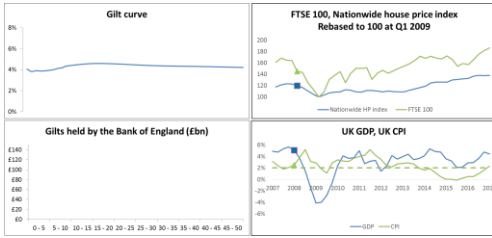
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Q1 2008



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Q1 2009 – Q1 2017

30-year spot rate	4.2% -> 1.7%
FTSE 100	+ 87%
Nationwide Housing Index	+ 38%
Real GDP	3.5%
Average CPI	2.2%



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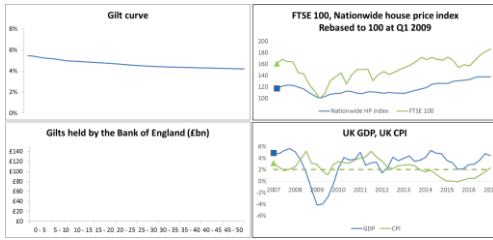
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Q1 2007



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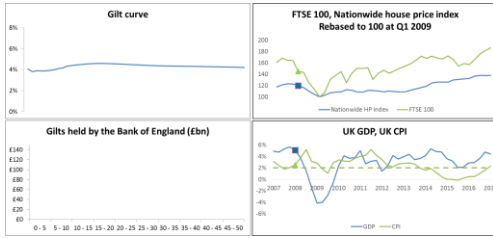
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Q1 2008



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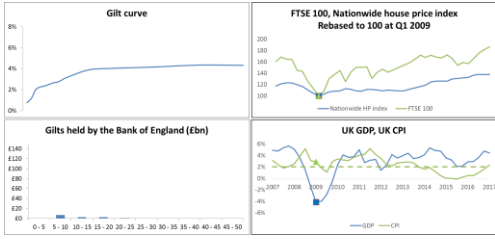
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Q1 2009



Institute and Faculty of Actuaries

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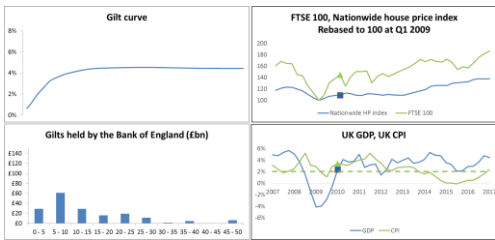
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Q1 2010



Institute and Faculty of Actuaries

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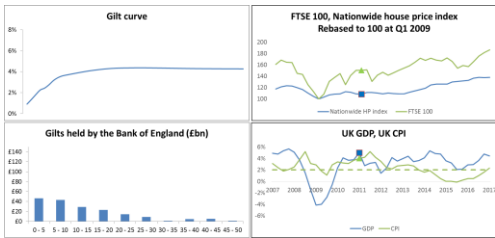
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Q1 2011



Institute and Faculty of Actuaries

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**QE did what it promised**

*It should ultimately lead to an increase in asset prices and spending and therefore bring inflation back to target*

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**QE did what it promised**

*It should ultimately lead to an increase in asset prices and spending and therefore bring inflation back to target*

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**But what else did it bring us?**

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**What else did QE bring us?**

- Debt

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What else did QE bring us?

- Debt
- Dependency

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What else did QE bring us?

- Debt
- Dependency
- Market distortion

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The (extreme) search for yield

- In 2016 Austria sold 2bn Euros of 70-year debt at 1.5%
- Consider the risks:
  - Long term, very high duration
  - Will the Euro exist in 70 years' time?
- For context, for SII, EIOPA deem the last liquid point for the Euro to be 20 years

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### The (extreme) search for yield

- In 2016 Austria sold 2bn Euros of 70-year debt at 1.5%
- **In 2017 Austria sold 3.5bn Euros of 100-year debt at 2.1%**
- Consider the risks:
  - Long term, very high duration
  - Will the Euro exist in 70 years' time?
- For context, for SII, EIOPA deem the last liquid point for the Euro to be 20 years



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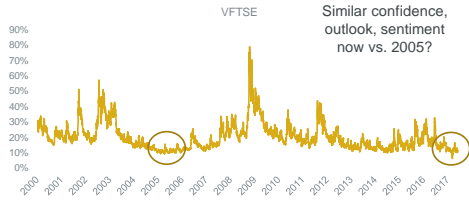
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### Yet the market is (implied) calm



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### What else did QE bring us?

- Debt
- Dependency
- Market distortion
- Pension deficits



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What else did QE bring us?

- Debt
- Dependency
- Market distortion
- Pension deficits
- A new predicament

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What else did QE bring us?

- Debt
- Dependency
- Market distortion
- Pension deficits
- A new predicament
  - Central bank cannot walk away
  - Nor can it stay there forever
  - How does it extract itself?

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How will QE unwind?

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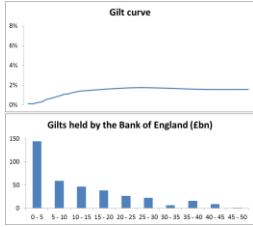
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Q1 2017



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The options

- Sell bonds, reduce balance sheet
- Let bonds mature, with no repurchase
- Repurchase such that maturity and/or notional reduce over time
- Rollover indefinitely i.e. no unwind



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The options

- Sell bonds, reduce balance sheet
- Let bonds mature, with no repurchase
- Repurchase such that maturity and/or notional reduce over time
- Rollover indefinitely i.e. no unwind
- +.....when should rates rise?



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**What the Bank of England has said**

- Q2 2014

*The MPC's preference is to use Bank Rate as the active marginal instrument for monetary policy*

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**What the Bank of England has said**

- Q4 2015

*The MPC expects to maintain the stock of purchased assets at £375 billion until Bank Rate has reached a level from which it can be cut materially*

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**What the Bank of England has done**

- Q3 2017
- Base rate 0.25% ->0.50%

*The Committee also voted unanimously to maintain the stock of UK government bond purchase*

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### Monetary policy and pensions

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### What does the Bank of England think about pensions?



Andy Haldane  
Bank of England chief economist  
Next governor?

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### What does the Bank of England think about pensions?

- May 2016

*I confess to not being able to make the remotest sense of pensions*

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What does the Bank of England think about pensions?

- August 2016, on the best option for retirement

*It ought to be pensions but it's almost certainly property*

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What does the Bank of England think about pensions?

- Assets matter.....
- Liabilities don't?

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What does the Bank of England think about pensions?

Publication	Word count on <i>asset</i>	Word count on <i>liability</i>
<i>Quantitative easing</i> Quarterly Bulletin Q2 2009		
<i>The United Kingdom's quantitative easing policy: design, operation and impact</i> Quarterly Bulletin Q3 2011		

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What does the Bank of England think about pensions?

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<i>Quantitative easing</i> Quarterly Bulletin Q2 2009	173	
<i>The United Kingdom's quantitative easing policy: design, operation and impact</i> Quarterly Bulletin Q3 2011	163	




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<i>Quantitative easing</i> Quarterly Bulletin Q2 2009	173	0
<i>The United Kingdom's quantitative easing policy: design, operation and impact</i> Quarterly Bulletin Q3 2011	163	0




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What does the Bank of England think about pensions?

- Essentially ignored
- Not part of the mandate




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The impact of QE on pensions

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The impact of QE on pensions



PPF estimate of aggregate DB deficits (£bn)

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The impact of QE on pensions



PPF estimate of aggregate DB deficits (£bn)

+ 20Y gilt spot rate

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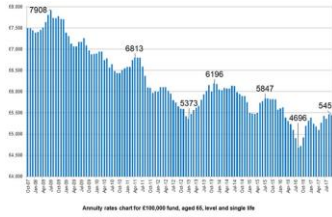
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### The impact of QE on pensions



Falling annuity rates  
 Source:  
 sharingpensions.co.uk

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### The impact of QE on pensions

- How sustainable and secure are DB schemes?
- Subject of recent government consultation

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### The impact of QE on pensions

- How sustainable and secure are DB schemes?
- Subject of recent government consultation
  - Broadly affordable
  - Some schemes may struggle

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### The impact of QE on pensions

- How sustainable and secure are DB schemes?
- Subject of recent government consultation
  - Broadly affordable
  - Some schemes may struggle
- **Affordable but at what cost?**

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### The impact of pension costs on Bank of England's aims

- An implicit assumption that it **doesn't** impact Bank's primary aims
  - *To promote the good of the people of the United Kingdom*
  - *(via) sustainable growth in output and employment*

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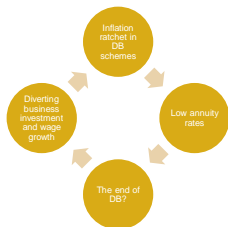
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### The impact of pension costs on Bank of England's aims



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Is there another way?

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Is there another way?

Question	Answer
Does the current mandate make sense?	
Is monetary policy a suitable tool?	
What did QE bring us?	
How will QE unwind?	

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Is there another way?

Question	Answer
Does the current mandate make sense?	In broad terms yes Necessary but not sufficient
Is monetary policy a suitable tool?	
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Is there another way?

Question	Answer
Does the current mandate make sense?	In broad terms yes Necessary but not sufficient
Is monetary policy a suitable tool?	To lower inflation, yes To raise inflation, it's a blunt tool
What did QE bring us?	
How will QE unwind?	



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Is there another way?

Question	Answer
Does the current mandate make sense?	In broad terms yes Necessary but not sufficient
Is monetary policy a suitable tool?	To lower inflation, yes To raise inflation, it's a blunt tool
What did QE bring us?	Exactly what it promised. And more... Debt, dependency, distortion, new risks
How will QE unwind?	



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Is there another way?

Question	Answer
Does the current mandate make sense?	In broad terms yes Necessary but not sufficient
Is monetary policy a suitable tool?	To lower inflation, yes To raise inflation, it's a blunt tool
What did QE bring us?	Exactly what it promised. And more... Debt, dependency, distortion, new risks
How will QE unwind?	Rates then QE (maybe)



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**The issues that central banks need to address**

- Short-termism

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**The issues that central banks need to address**

- Short-termism
- Narrow view

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**The issues that central banks need to address**

- Short-termism
- Narrow view
- Denial that monetary policy has limitations and costs

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**The issues that central banks need to address**

- Short-termism
- Narrow view
- Denial that monetary policy has limitations and costs
- Application of outdated economics

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**What needs to be change?**

- Genuine oversight and accountability

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**What needs to be change?**

- Genuine oversight and accountability
- Better alignment of fiscal and monetary policy

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**What needs to be change?**

- Genuine oversight and accountability
- Better alignment of fiscal and monetary policy
- Wider mandate

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**What needs to be change?**

- Genuine oversight and accountability
- Better alignment of fiscal and monetary policy
- Wider mandate
- Start to unwind QE – intention is key

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*Long term thinking is vital*

Colin Wilson

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