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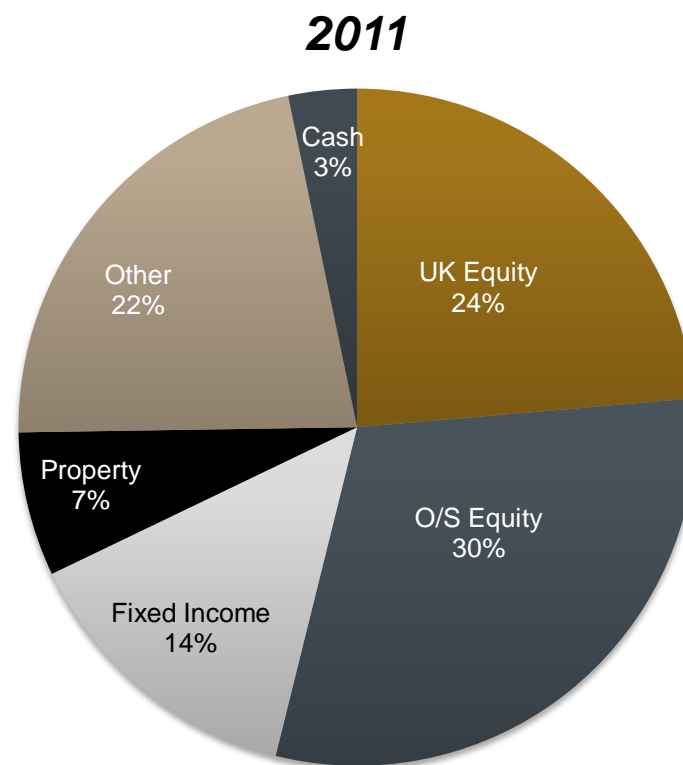
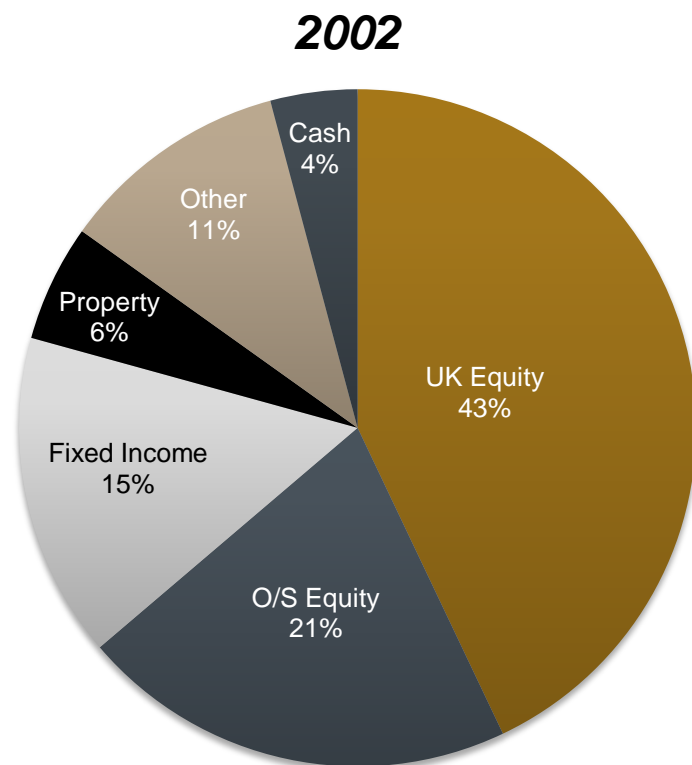
Trends in LGPS asset allocation

Jamie Lewin

BNY Mellon Asset Management International

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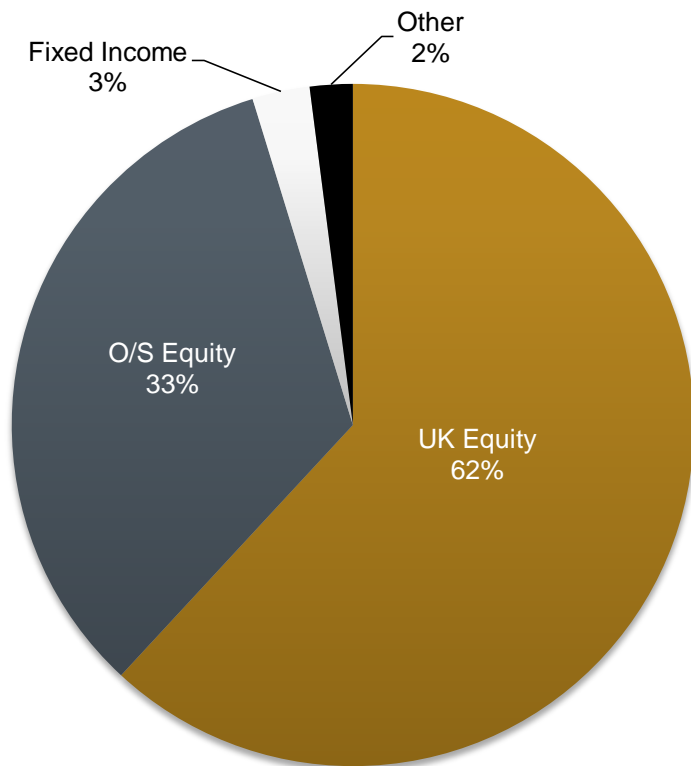
Evolution of the “LGPS” Asset Allocation



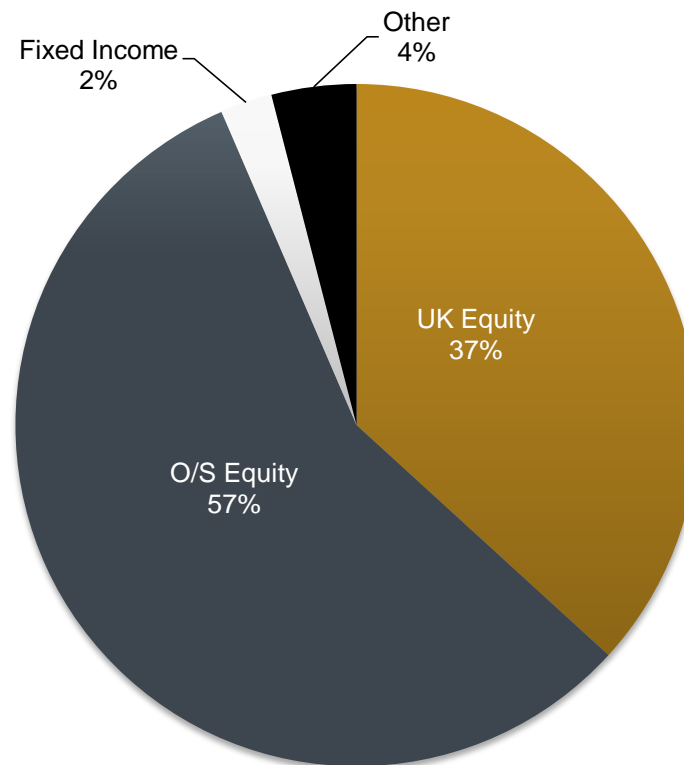
- **Asset allocation policy changes during the last decade**
 - 20% reduction in UK equity exposure
 - 10% increase in overseas equities
 - 10% increase in “other / unclassified” assets
 - approx 15% increase in non-sterling denominated assets

Evolution of the “LGPS” Risk Allocation

2002 (11.3%pa)



2011 (11.0%pa)



- The “average” LGPS has marginally reduced market risk exposure in the last decade
- Equity market risk still dominates the overall “asset only” risk profile
 - 90%+ contribution to total portfolio volatility



Asset Allocation Analysis: Summary of Assumptions

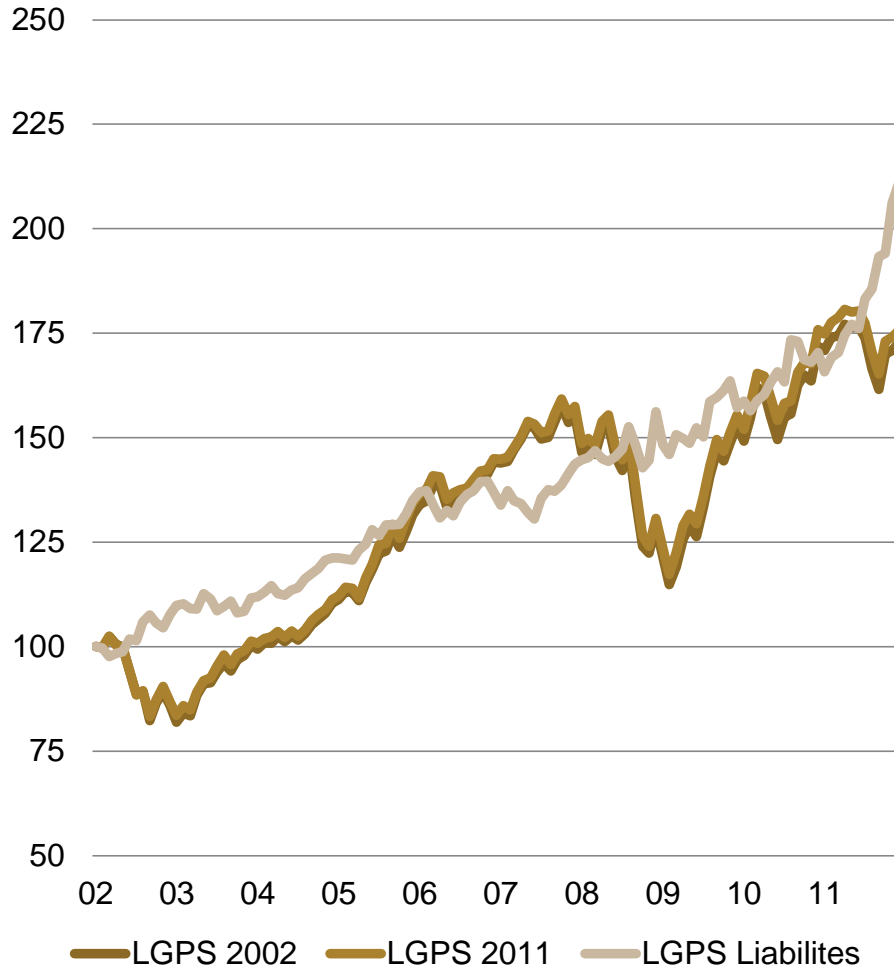
- Analysis is based on the aggregated asset allocation of 108 LGPS* with accumulated asset of £182bn**
- Active management risk and return sources are excluded from the performance and risk analysis (with the exception of Hedge Funds)
- Private Equity and Infrastructure excluded from analysis
- Exposure to “other / unallocated” asset classes and strategies has been re-allocated:
 - 50% allocated pro-rata to equity & fixed income
 - 50% allocated pro-rata to “alternatives”
- Common indices used as proxies for the performance and risk of each asset class / strategy represented in the aggregated asset allocation
- All underlying non-GBP exposures are assumed to be un-hedged
- 60% Long dated ILG / 40% Long-dated Nominal Gilt portfolio used as a proxy for the “typical” scheme’s liability profile

* From Pension Fund Performance Guide – Local Authority Edition. ** As at March 2011



Return and Risk of the LGPS Portfolio

Cumulative Gross Performance (GBP)



Performance and Risk Summary

2002-2011	Gross Return (%pa)	Risk (%pa)	Sharpe Ratio
LGPS 2002	5.6	11.3	0.20
LGPS 2011	5.9	11.0	0.23
LGPS Liabilities	7.8	7.9	
LGPS 2002	-2.0	12.6	-0.16
LGPS 2011	-1.8	12.4	-0.15

Medium term asset allocation trends



Go Global



Seeking returns in a de-leveraging world



**Emerging
“Anything”**



**Tail-risk management:
Going beyond
diversification**



**Preparing for
Inflation**



**Liability-sensitive &
Outcome-driven
investing**

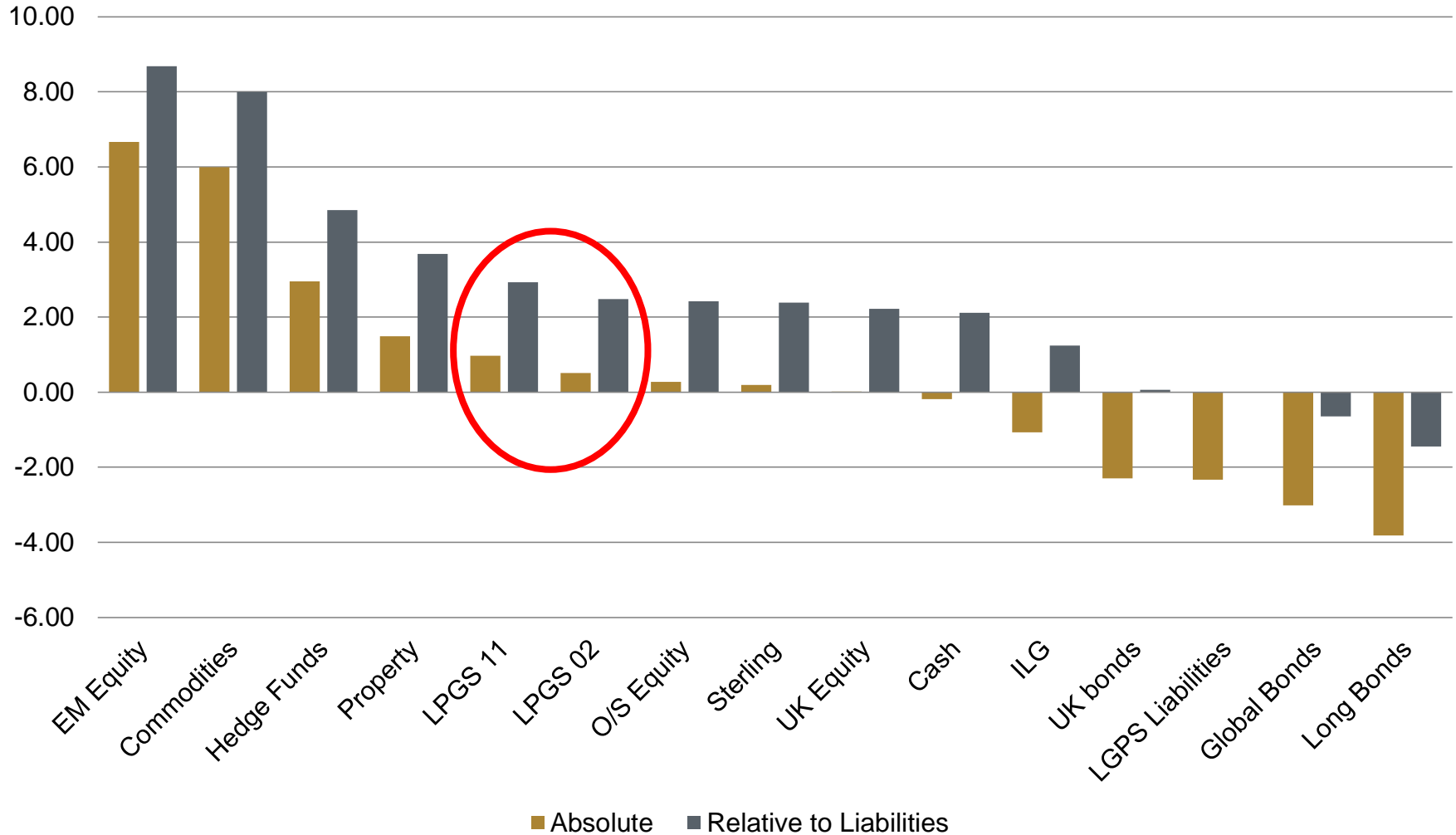


The search for income



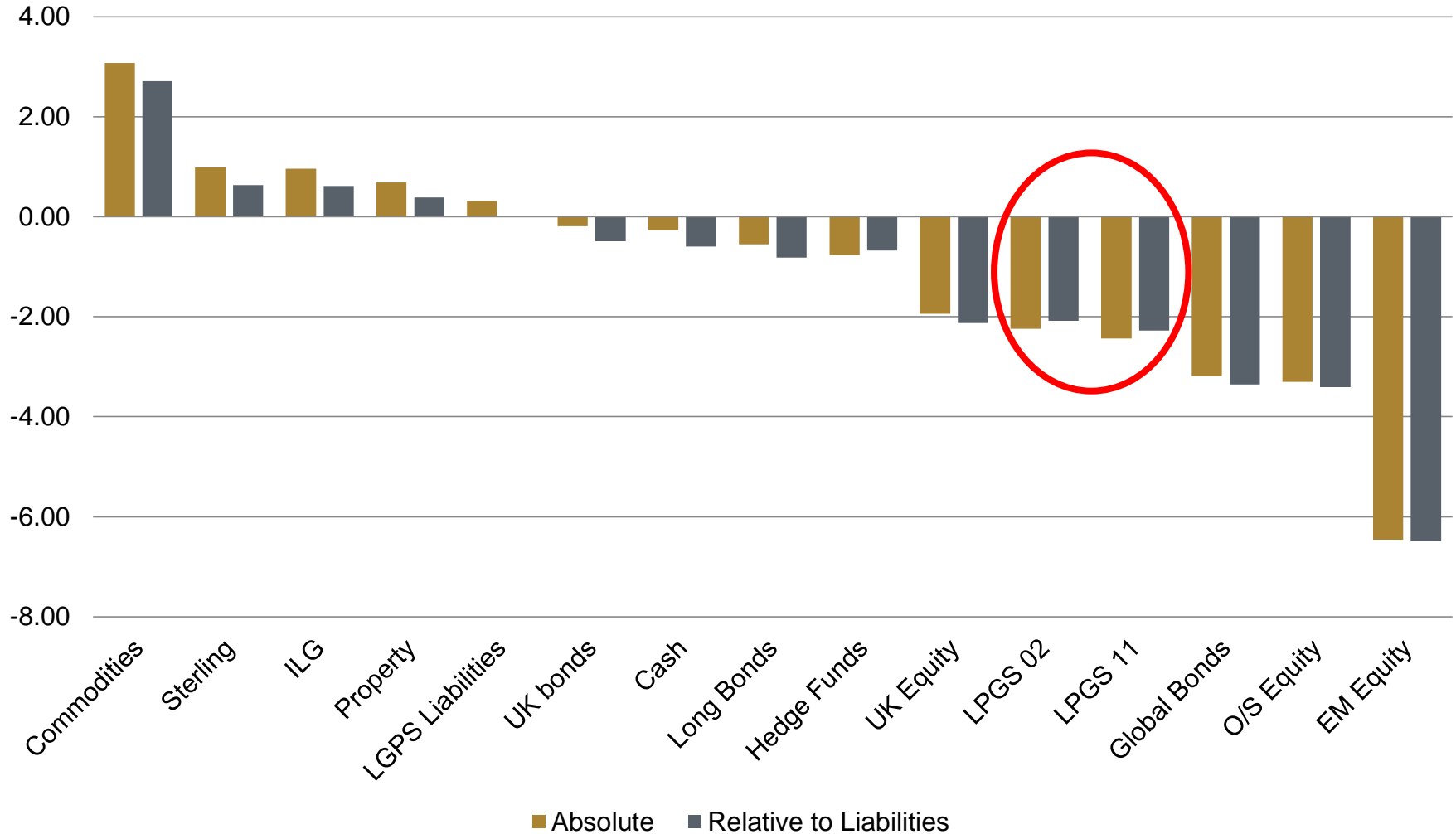
Sensitivity Analysis: Growth “Surprises”

Growth Surprise “Betas”



Sensitivity Analysis: Inflation “Surprises”

Inflation Surprise “Betas”



Summary

- During the last decade we have observed a number changes to the structure of the asset allocation of the typical LGPS
- Impact on absolute and relative-to-liabilities risk profile has been small
- Scheme assets remain positively correlated with growth surprise and negatively correlated with inflation surprises
- This analysis suggests a degree of dynamic asset allocation and active currency hedging is necessary to mitigate the effects of rising economic volatility





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