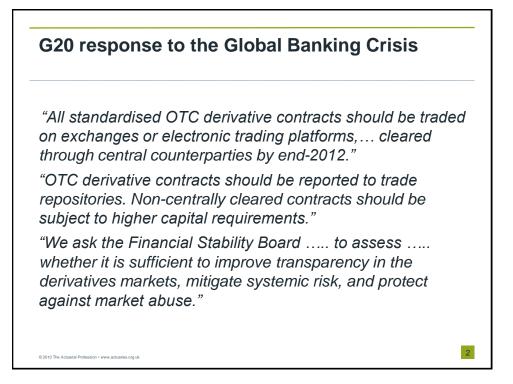
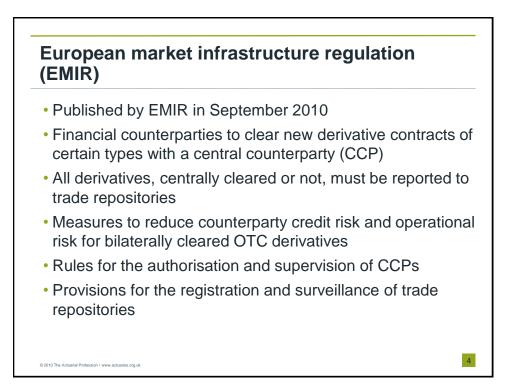


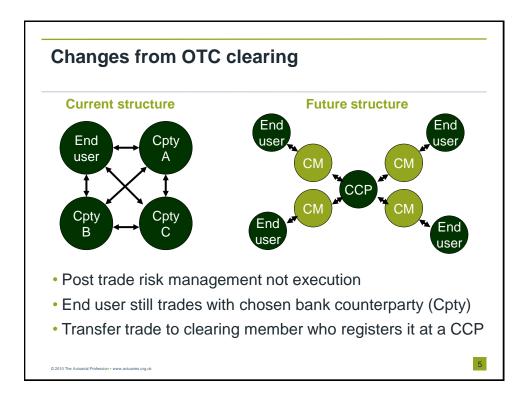
OTC Derivatives - central clearing, discounting and other issues

- Enrico Biffis
- Alvar Chambers
- David Epstein
- Jeff Neate
- Cyprian Njamma
- Emily Penn
- Dick Rae
- Bobby Riddaway



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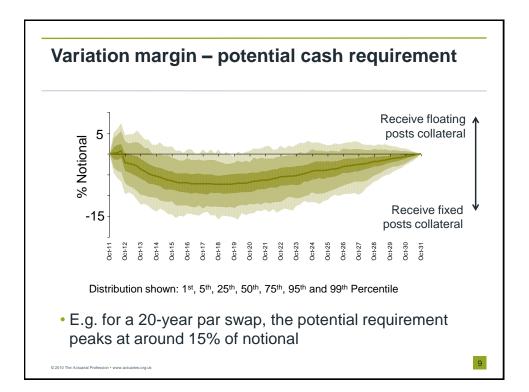
Changes	from	отс	clearing	contd.
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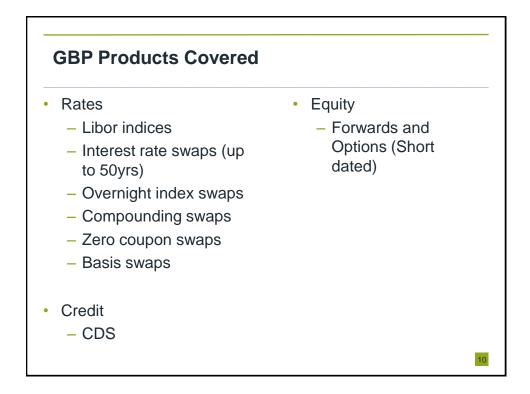
	Current position	Centrally cleared
Legal agreements	ISDA/CSA with each counterparty.	Need ISDA/CSA with each counterparty and a clearing member bank (CM) to access clearing house (maybe >1 CM)
Initial margin	Typically none	Only cash or gilts
Variation margin	Varies; typically cash and gilts	Only cash
Default risk	Exposed to default of the counterparty you trade with	Directly affected only if your CM defaults
		LCH recommends having a back-up CM

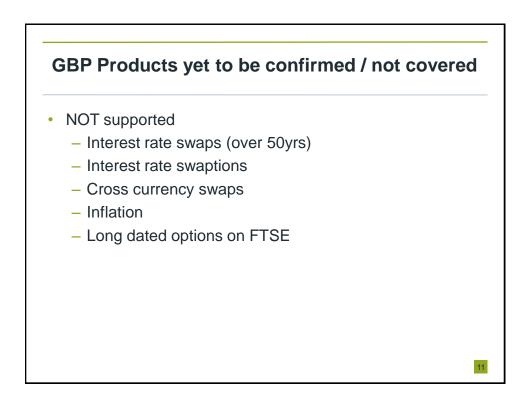
	Current position	Centrally cleared
What happens if default occurs?	Collateral should cover most of the value of the derivatives End user needs to try and replace positions in the market Unsecured creditor in respect of any losses	Additional layers of protection: - initial margin - default buffers - clearing house's capital Clearing house coordinates replacement with other CMs Historically successful, but
	respect of any losses incurred	no guarantee

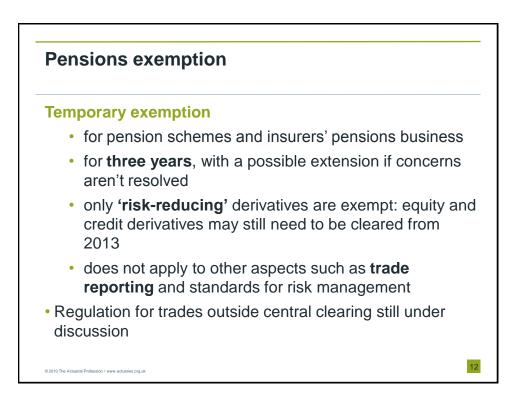
Value added?

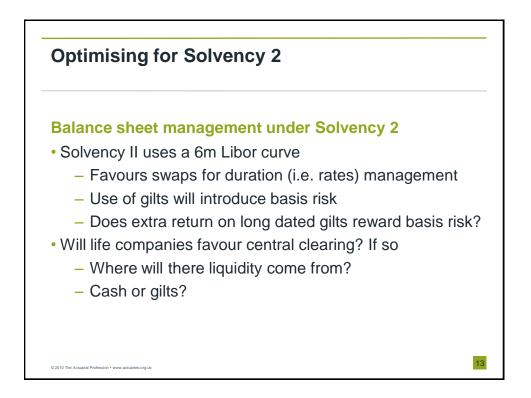
Benefits	Disadvantages
Provides a range of protection in case of default	Requirements add to cost and reduce returns
Greater transparency , helping regulators detect systemic risk build up	Interest rate swaps cleared, but inflation swaps not cleared initially - reduces possibility of netting margin between the two
All trades going through one CM enables more opportunities to net margin calls	Only cash variation margin accepted by clearing houses -pension schemes / insurers generally don't hold cash
Political need for regulators to be seen to take action	Requirement to deliver initial margin

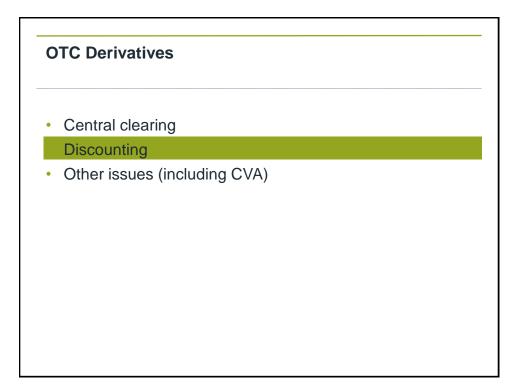


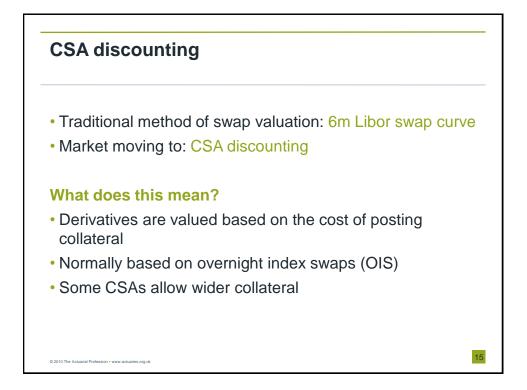


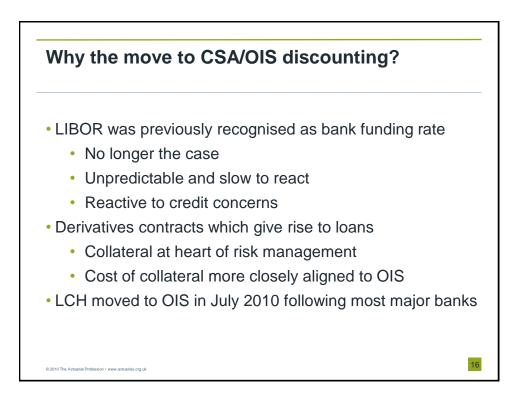


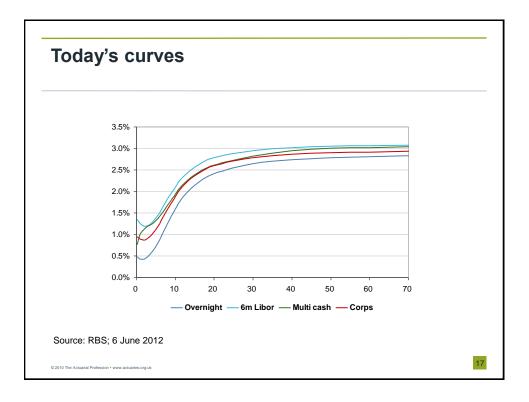


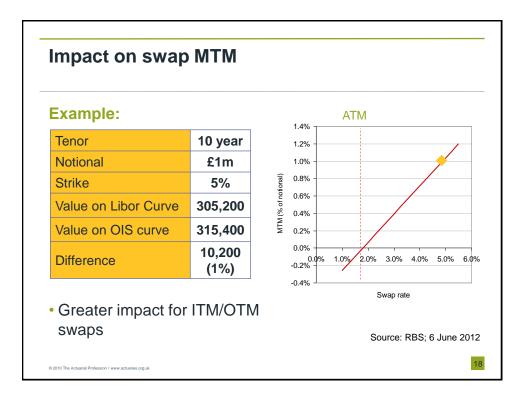


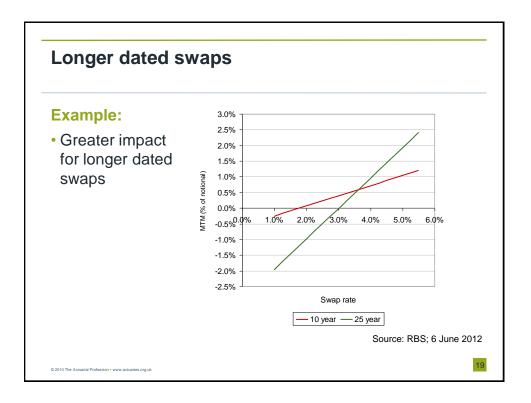


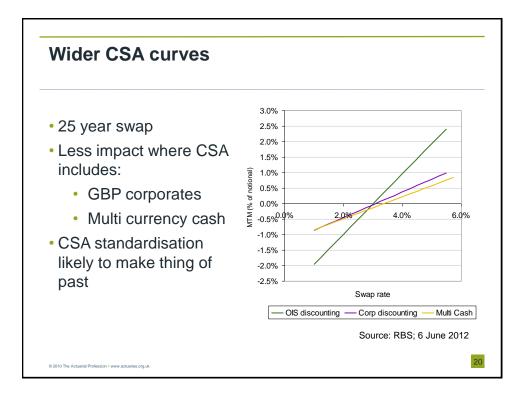


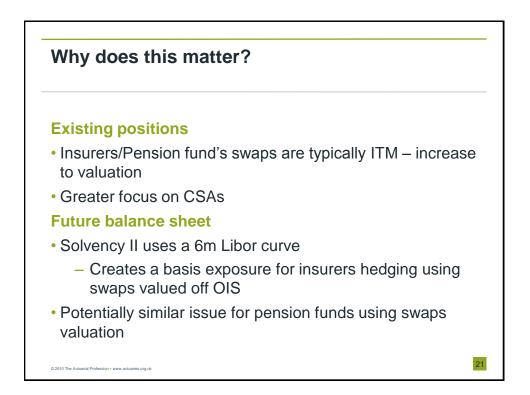


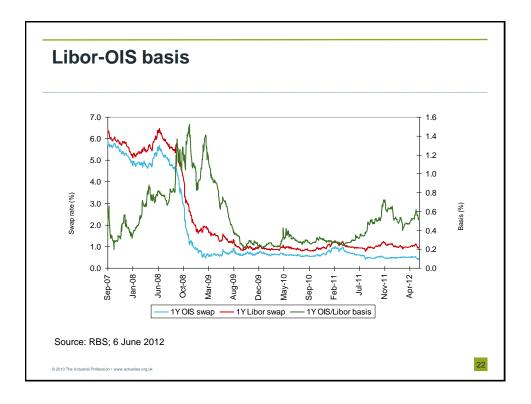


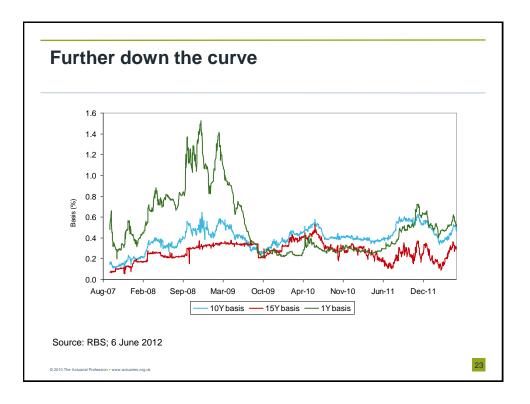


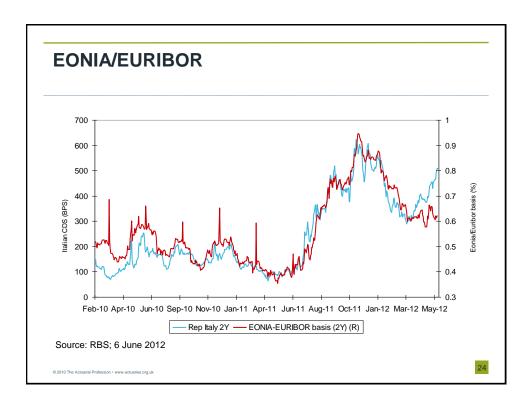


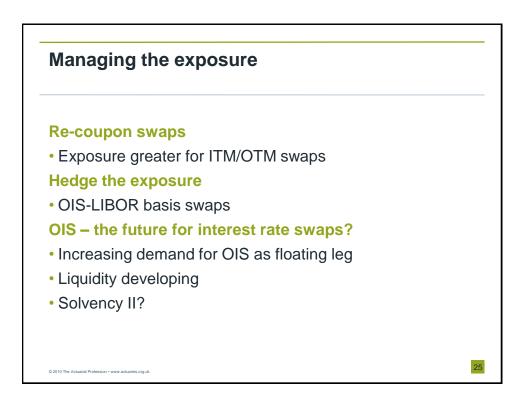


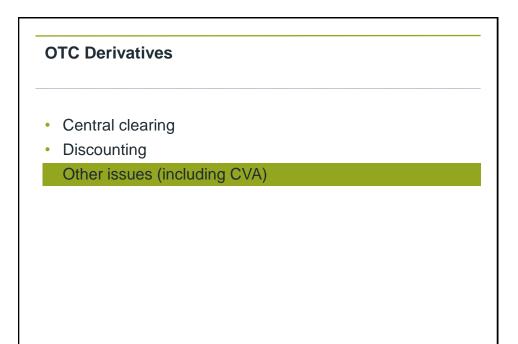


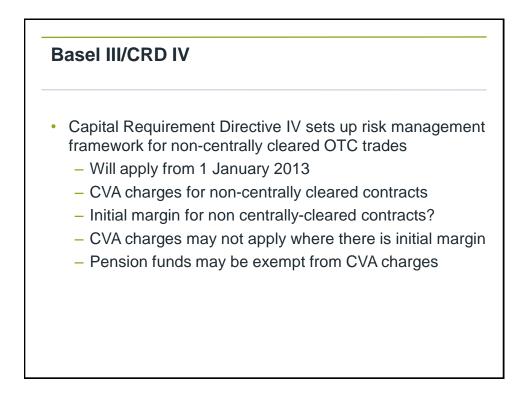


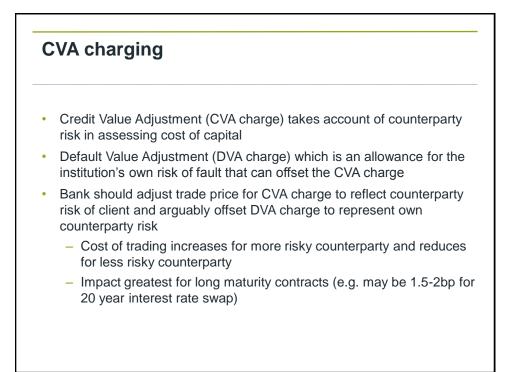














Outstanding issues

- Central clearing
 - Which trades are included/exempt?
 - Expansion of collateral?
- · Regulations for trades outside of central clearing
 - Initial margin
 - Eligible collateral
 - Timing
- CVA charging pension exemption?
- Third country issues
 - Dodd-Frank
 - Domicile of clearing houses

