



## Contents

- Swaps
- Credit default swaps (CDS's)
- Indices
- Swaptions



# What is a Swap?

A swap is a derivative contract through which two parties agree to exchange a series of future cash flows, determined by pre defined but uncertain variable(s)

Common examples				
Interest Rate Swap	<ul> <li>Fixed Interest for Floating Interest</li> <li>Floating Interest for other Floating Interest</li> </ul>			
Cross Currency Swap	<ul> <li>Floating Interest in one currency for Floating Interest rate in other currency</li> </ul>			
Equity Swap	Equity performance for Floating Interest			

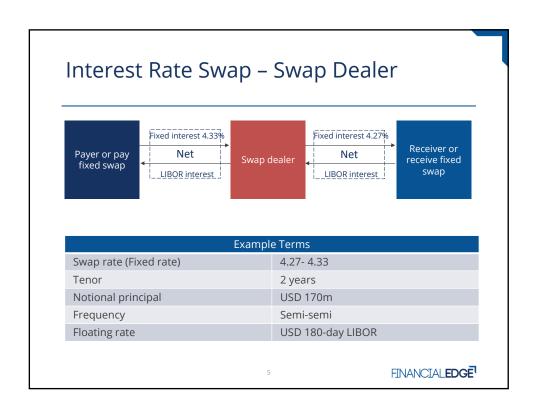
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# Interest Rate Swap – Fixed for Floating



Example Terms				
Swap rate (Fixed rate)	4.30			
Tenor	2 years			
Notional principal	USD 170m			
Frequency	Semi-semi			
Floating rate	USD 180-day LIBOR			





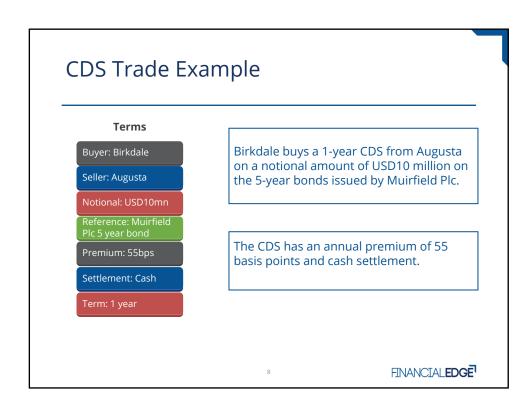
Interest rate risk	Both parties are exposed to movements in interest rates and could either gain or benefit from changes in rates
Counterparty risk	<ul> <li>A counterparty which has benefited from the movements in interest rates will be exposed to the credit worthiness of the counterparty</li> </ul>



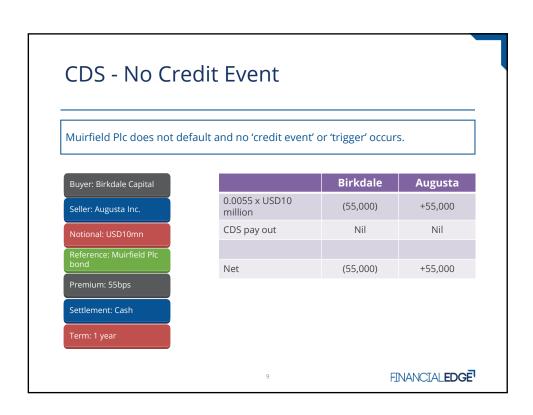
# Credit Default Swaps - CDS's

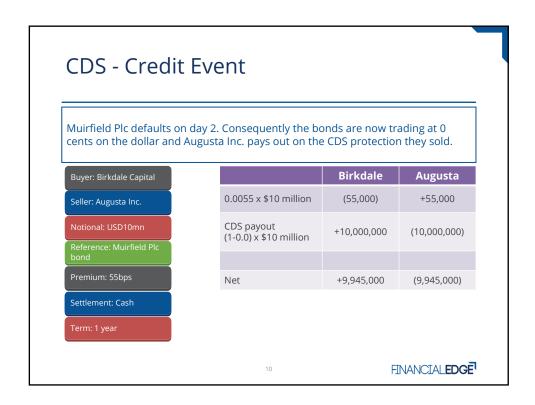
A Credit Default Swap is a derivative contract through which two parties transfer the credit exposure to bonds between them

Key terms				
Buyer	The buyer of credit protection			
Seller	The seller of credit protection			
Notional	Face value of the unrestricted credit bet between the two counterparties			
Reference obligation	The underlying bond			
Premium	The premium payable in basis points of the Notional amount			
Settlement	Usually in cash			
Term	Duration of contract			
	7 FINANCIAL <b>ED</b>			











## CDS - Credit Deterioration

Two days into the trade no credit event has occurred but Muirfield is experiencing difficult trading conditions. The CDS spread goes up by +40 basis points to reflect this and Birkdale unwinds the trade.

Buyer: Birkdale Capital
Seller: Augusta Inc.
Notional: USD10mn
Reference: Muirfield Plc bond
Premium: 55bps
Settlement: Cash
Term: 1 year

Birkdale	Augusta
(55,000)	+55,000
+95,000	-95,000
+40,000	(40,000)
	(55,000) +95,000

11

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## CDS - Credit Improvement

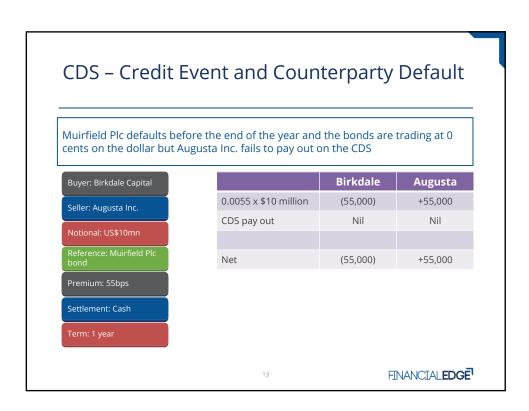
Two days into the trade no credit event has occurred. Muirfield is experiencing better trading conditions and the CDS spread goes down by (30) basis points to reflect this. Birkdale unwinds the trade.



	Birkdale	Augusta	
0.0055 x \$10 million	(55,000)	+55,000	
Close out the CDS position by going short the CDS (-0.0030 + 0.0055) x \$10 million	+25,000	-25,000	
Net	(30,000)	+30,000	

12



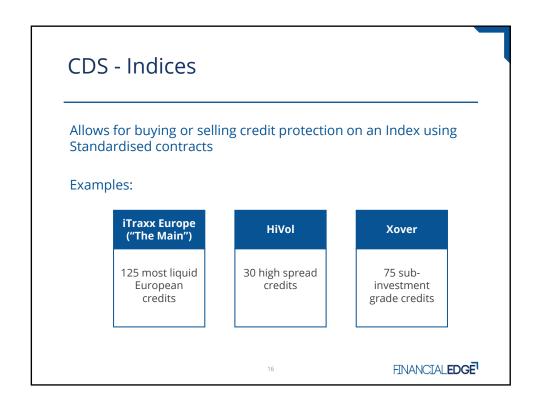






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### Types of CDS Credit Events A ratings downgrade e.g. (AAA→AA) Collectively known as Non-payment or delayed payment of a fixed income obligation 'credit events' Going concern issues e.g. receivership, liquidation, capital restructuring or a Creditors Agreement A regulatory compliance breach or penalty Any other variable as defined by the OTC contract





## Swaptions - Options on Swaps

#### **Swaptions**

The right but not the obligation to enter into a Swap

The underlying Swap will have pre determined dates, rates and term Can be agreed on any type of Swap

An option on entering into a Swap contract!

#### **Receiver swaption**

gives buyer the right to sell a CDS in the future (i.e. go <u>long</u> in underlying bond)

#### Payer swaption

gives buyer the right to buy a CDS in the future (i.e. go <u>short</u> in underlying bond)

