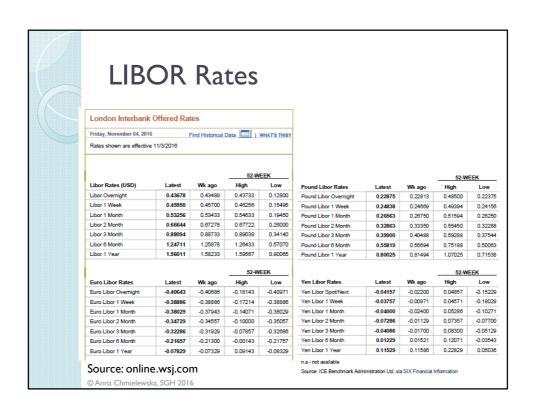


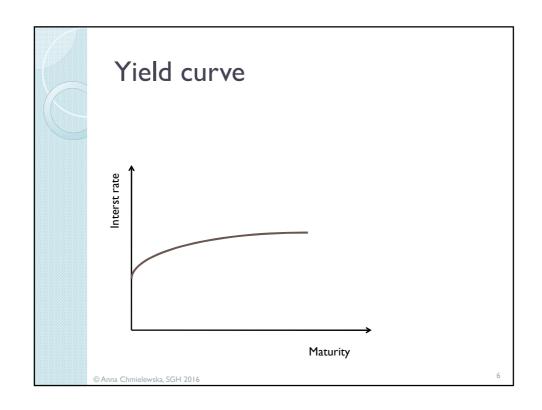
Interest rate exposure

- Situation where company faces profits or losses on the interest rate fluctuations
- Long position in interest rate is when Company benefits from interest rate increases
 - · Company has significant liquid interest bearing assets
- Short position in interest rate is when Company benefits from interest rate decreases
 - Company has loans with interest calculated based on variable interest benchmark (e.g. LIBOR)

© Anna Chmielewska, SGH 2016

acn cur	rency ha	is its rate	es
Nazwa	1 M	3 M	6 M
LIBOR (CHF)	-0,79440	-0,73120	-0,64400
EURIB (EUR)	-0,37300	-0,31300	-0,21300
LIBOR (GBP)	0,26563	0,39938	0,55819
LIBOR (JPY)	-0,03357	-0,04714	0,00957
WIBOR (PLN)	1,66000	1,72000	1,80000
WIBID (PLN)	1,46000	1,52000	1,60000
LIBOR (USD)	0,53200	0,87567	1,24822



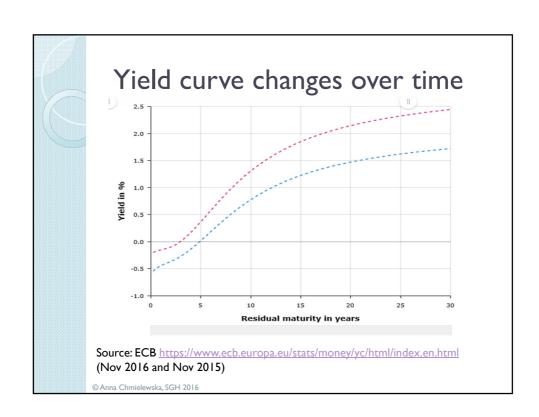


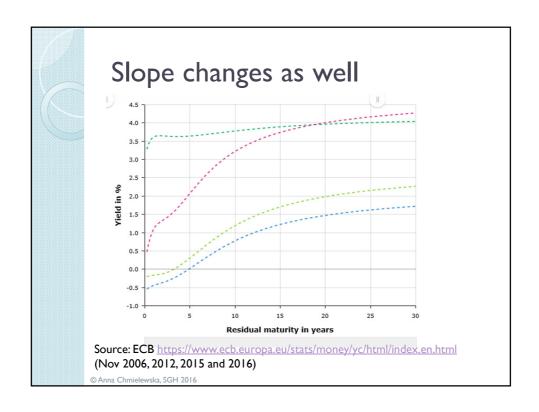
Possible shapes of the yield curve

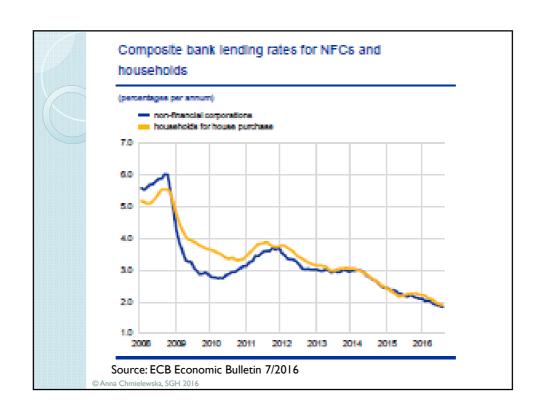
- Upward sloping (normal) long-term interest rates higher than short-term interest rates
- Flat long-term and short-term interest rates on the same level
- Inverted short-term interest rates higher than long-term interest rates
- Hump-shaped

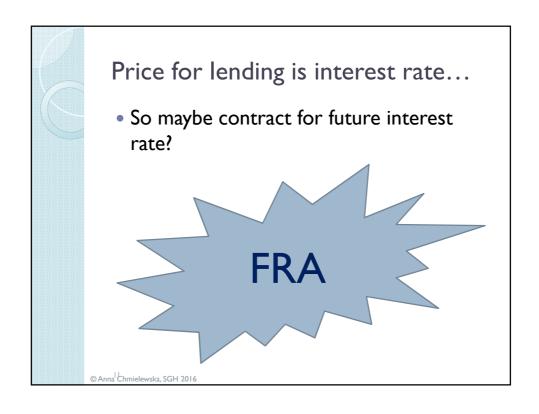
© Anna Chmielewska, SGH 2016

7

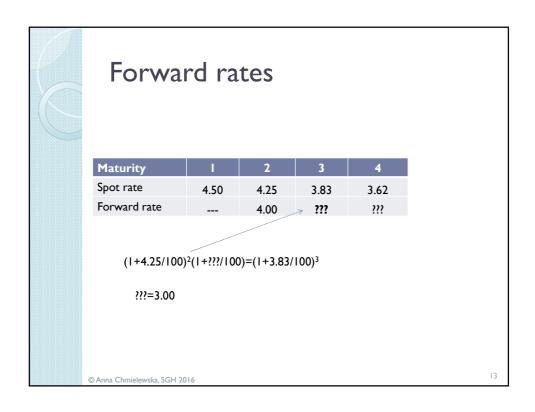


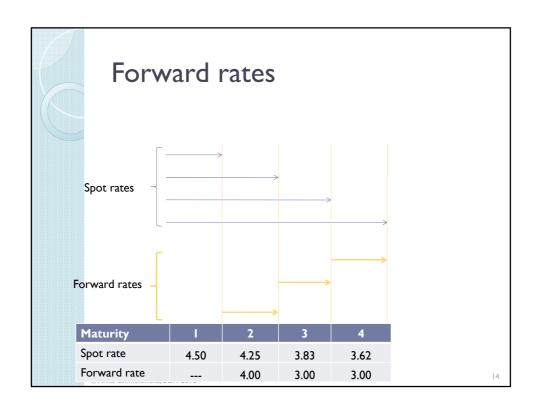


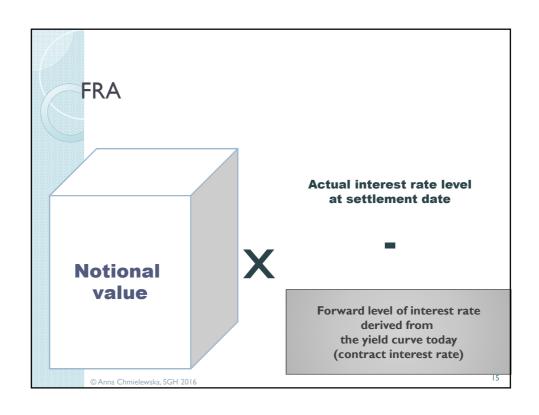


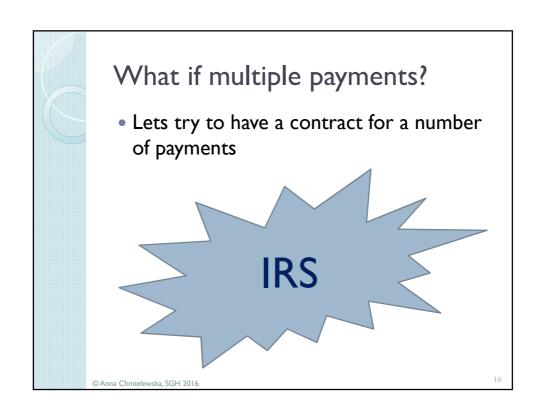












Interest Rate Swap

- Allows to change fixed rate interest payments into floating rate interest payments (or vice versa)
- Interest rate exposure
 - · Company finances itself with a I year rolling working capital loan
 - Retail chain pays its supplier with 2 months delay
 - Company purchased medium term fixed rate bonds

© Anna Chmielewska, SGH 2016

17

Market Maker - Quotes

- Bank B decided to quote to its clients the following IRS rates
- The clients decide to change their interest rate risk profile using IRS
- In each case determine IRS rates and estimate the effect for the client – what interest rate can the client ensure

Maturity	bid	offer	
1	6.83	6.93	
2	6.64	6.74	
3	6.60	6.66	
4	6.56	6.62	
5	6.53	6.59	
6	6.49	6.55	
7	6.45	6.51	
8	6.41	6.47	
9	6.36	6.42	
10	6.30	6.36	

© Anna Chmielewska, SGH 2010

