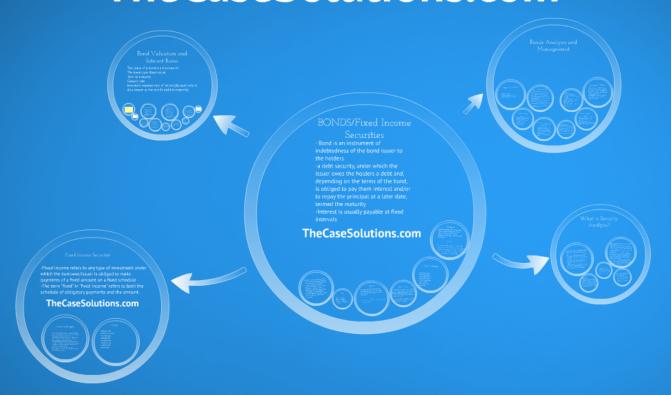
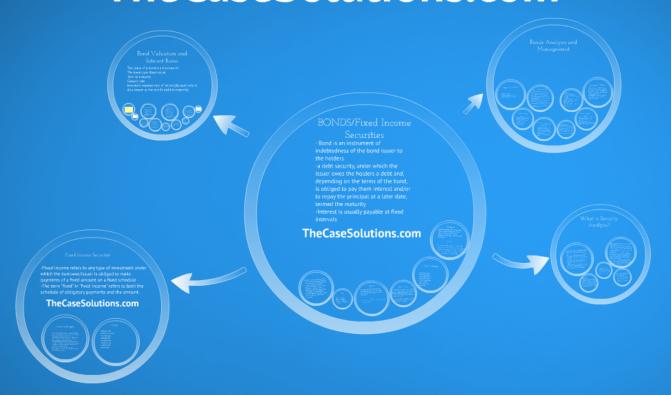
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BONDS/Fixed Income

Securities

- Bond is an instrument of indebtedness of the bond issuer to the holders
- -a debt security, under which the issuer owes the holders a debt and, depending on the terms of the bond, is obliged to pay them interest and/or to repay the principal at a later date, termed the maturity
- -Interest is usually payable at fixed intervals



Fixed Income Securities

-Fixed income refers to any type of investment under which the borrower/issuer is obliged to make payments of a fixed amount on a fixed schedule -The term "fixed" in "fixed income" refers to both the schedule of obligatory payments and the amount.

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Terminologies

 The issuer is the entity (company or government) who borrows the money by issuing the bond, and is due to pointerest and repay capital in due course.

 The principal of a bond – also known as maturity value face value, par value – is the amount that the issuer borrows which must be repaid to the lender.

•The coupon (of a bond) is the annual interest that the issuer must pay, expressed as a percentage of the principal state.

issuer must return the principal.

•The issue is another term for the bond itself.

The indenture, in some cases, is the contract that state all of the terms of the bond.

Risk

- •inflation risk
- •interest rate ri
- •currency ris
- •default ri
- liquidity ris
- political ris
- market risk
- •event risl

Bond ValueGeneral Formula

$$B = I \times \left[\frac{1 - \frac{1}{(1 + k_b)^n}}{k_b} \right] + F \times \frac{1}{(1 + k_b)^n}$$

Where:

I = interest (or coupon) payments

 k_b = the bond discount rate (or market rate)

n =the term to maturity

F = Face (or par) value of the bond

Bond Valuation: Semi-Annual Coupons

Forexar

- -To adjust for semi-annual coupons, we must make three changes:
- 1.Size of the coupon payment (divide the annual coupon payment by 2 to get the cash flow paid each 6 months)
- 2.Number of periods (multiply number of years to maturity by 2 to get number of semi-annual periods)
 3.Yield-to-maturity (divide by 2 to get the semi-annual yield)
- 4.Once you solve for the semi-annual yield, you will want to convert it back to an annualized rate of return (YTM).

Interest Rate Determinants

Interest is the "price" of money

-Interest rate changes are often
measured in Basis points – 1/100
of 1%

Interest rates go:

-Up – when the demand for loanable funds rises-Down – when the demand for loanable funds falls

Risk-free Interest Rate

The risk-free rate is comprised of two components:

Real rate – compensation for deferring consumption

Expected inflation – compensation for the expected loss in purchasing power

Term Structure of Interest Rates

- -Is that set of rates (YTM) for a given risk-class of debt securities (for example, Government of Canada Bonds) at a given point in time.
- -When plotted on a graph, the line is called a Yield Curve
- -The Yield Curve is the graph created by putting term to maturity on the X axis, YTM on the Y axis and then plotting the yield at each maturity.
- -The four typical shapes of yield curves:
- 1. Upward sloping (the most common and persistent shape historically when short-term interest rates and inflation are
- 2.Downward sloping (occurs at peaks in the short-term interest rate cycle, when inflation is expected to decrease in the future)
- 3. Flat (occurs when rates are transitioning)
- 4. Humped (occurs when rates are transitioning or perhaps market participants are attracted in large numbers to particular maturity segment of the market)