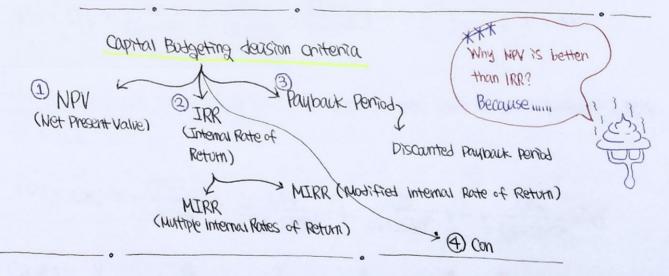
The Basics of Capital Budgeting

Capital Budget is a summary of planned investments in long-term assets, long-term assets Plan that the process of used in production outlings projected and Capital Budgeting is the process of

expanditiones during Some future pariod and Capital Budgeting is the process of Planning expenditures on assets with cash flows that are expected to extend beyond one year. *How to decide to accept or reject proposed Capital expenditures?



① Net Present Value (NPV): A method of ranking investment proposals using the NPV, which is equal to the present value of the project's tree cash flows discounted of the cost of capital. What? Let's see how it looks like:)

Case 1) Simple CFs Concept: The Best Case 2) idiot project 1 Wacc=101, 1-Y = 10%. (=WACC) -1000 1500 400 5∞ 100 400 454,55 454.55 € 330,58€ 330.58 68,30 68,30 -146,57 Sum of these #s 853,43

$$NPV = CF_0 + \frac{CF_1}{(1+r)^2} + \frac{CF_2}{(1+r)^2} + \frac{CF_3}{(1+r)^3} + \dots + \frac{CF_N}{(1+r)^N} + \dots + \frac{CF_N}{(1+r)^N$$

2) Internal Rate of Return (IRR); The discount rate that forces a project's NPV to equal zero;

Decision Rules?

1) Independent Projects; If IRR > WACC, take 1 accept the project; reject if IRR < WACC,

2) mutually exclusive projects: Occept the project with the highest IRR, provided that IRR > WACC.



MIRIR (MUTTIPLE Internal Rates of Return):

The situation where a project has two or more IRRS

Example)	WACC = 10%.	Year (t)	CFS
		0	\$1.6
		1	\$ 10,00
MDU(4)		2	\$-10,00

NPA(P) 1,5 0 25% 100%, 200%, 300%, 400%. $NPV = -\$1.6 + \frac{\$10}{(1+1)} + \frac{\$-10}{(1+1)^2}$

Discount Rate	NPA
0%	\$ -1.6
10%	\$-0,7736
[257.	\$ 0,00] IRR1
1101,	\$ 0.8943
T400 Y.	\$ 0,00] > IRR2
500%	\$-0,2111
	0.

MIRR (Modified Internal Rate of Return);

The discount mate at which the present value of a project's cost is equal to the present

Value of its terminal value, where the

* terminal value is found as the sum of the

future values of the cash inflows,

Compounded at the firm's cost of Capital

*How to measure the MIRR?

Let's take a very simple(?) example!

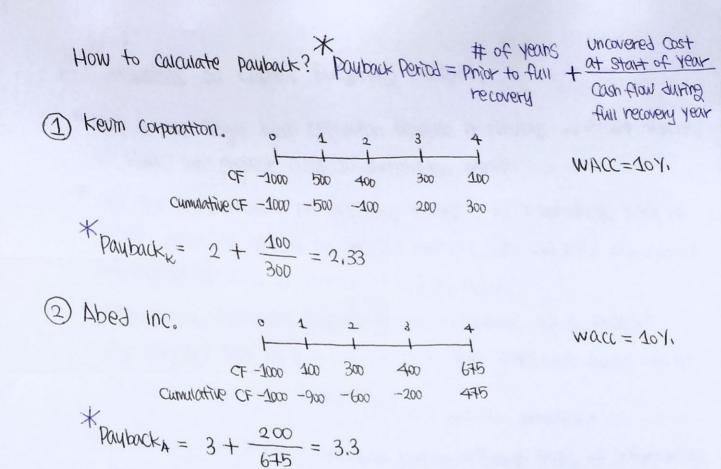
WACC = 10%. -1,000,00 >665.50 TV:\$1579.50

N=4, PMT = Ø, PV = -1000, FV = 1579,50

* MIRR = 12.66%

*Steps: time Ime(s) -> find TV -> coloulate MIRR!

(3) Payback Period; the payback period is defined as the length of time required for an investment's cosh flows to coven its costs.



Payback period ignores cash flow occurring after the cost is recovered and it ignores the time value of money. In orden to alleviate the Second concern, the discounted pauback was teveloped, which incorporates the present value of cosh flows received.

(1) Kevin Corporation.
$$\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{3}{4}$ $\frac{4}{2}$ $\frac{3}{2}$ $\frac{4}{2}$ $\frac{1}{2}$ $\frac{3}{2}$ $\frac{4}{2}$ $\frac{1}{2}$ $\frac{3}{2}$ $\frac{4}{2}$ $\frac{1}{2}$ $\frac{3}{2}$ $\frac{4}{2}$ $\frac{1}{2}$ \frac

2) Abed Inc. 1 2 3 4 find payback and 275 Payback, WACC=10% 675 100

find payback and discounted (3.3 , 3.78 respectively)

(4) Conclusions on Capital Budgeting Methods.

- * NPV is the Single best criterion because it provides a direct measure of value the project adds to Shaneholden wealth
- * IRR and MIRR measure profitability expressed as a percentage hate of heturn, which is useful to decision makens. IRR and MIRR also contain information concerning a project's "safety margin."
- * Payback and discounted Payback provide indications of a project's liquidity and nisk. (A long payback means that investment dollars will be locked up for a long time).

 This indicates "illiquidity"
- * In Summary, the different measures provide different tupes of information. Because it is easy to colculate all of them, all should be considered when capital budgeting decisions are being made. For most decisions, the greatest weight should be given to the NPV, but it would be foolish to ignore the information provided by the other criteria.

Exist Oneston;

Please find its NPV, IRR, MIRR, Payback, and Discounted Payback and Suggest accept/reject this project. WACC = 14%.

