

# CAPITAL BUDGETING & INFORMATION IMPEDIMENTS

### Presenter

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#### Outline

- Background
- Techniques
- Information required
- Capital sources
- Information Impediment & impact
- Remedies
- Conclusion



# Capital budgeting/investment appraisal

 Planning process used to determine whether a firm's long-term investments eg new plant, new product is worth funding from capitalization structure.

#### **Importance**

- Huge amounts involved
- Risks due to uncertainity
- Impact on profitability
- Scarcity of resources
- Rarely irreversible & if so at a substantial loss



### Techniques

Use cash flow(discounted or otherwise)

- PBP-duration to cover initial investment
- ARR=—\*100
- NPV=PVI-PVO
- PI=PVI/PVO
- IRR-rate at which NPV=0
- MIRR-used to overcome 2 limitations of IRR
  - ✓ Multiple IRR where + & CFs are involved
  - ✓ Assume CFs reinvested at same rate of return as that
    of the project that generated them



## Techniques...

Example: Assuming a 10% coc and a reinvestment rate of 12%, determine the MIRR of a project that promises

year	Cash flow
0	-1000
1	-4000
2	5000
3	2000

### Technique...

-FV of +cf @ 12%=5000(1.12)+2000=7600

 Equivalent annuity method=NPV/PVAF-used to compare projects of unequal lives



#### Techniques...

Example: Consider a project with coc 12%, straight line depr profile with zero salvage and promises

Year 0 1 2 3 4

CF(000) 320 150 120 90 60

- NDPBP=2+50/90=2.56years
- DPBP

Year 1 2 3 4

DCF@12% 134 96 64 38 Σ332

DPBP=3+26/38=3.7 years

## Techniques...

- NPV=332-320=12
- PI=332/320=1.04
- IRR: at 16% NPV=-10 Therefore

• ARR=
$$\frac{(}{/}$$
 \* 100 =15.625%



# Capital budgeting information

- Need for information
  - ✓ To do projections
  - ✓ Identify sources of funds (surplus)
  - ✓ Understand intermediation
  - ✓ Management of funds



# Information required

- Cost of capital(minimum return)
- Cost behaviour-fixed or fluctuating
- Projected performance of projects/products
- Expected return
- Expected life
- History & management of lenders & borrowers-mumias
- Asset base of borrower
- Market info & competition (castle, mushrooms, quail)
- Restrictive covenants
- Legal (bank & insurance core capital)
- Political jurisdiction-Restrictions & prohibition
- Taxation-shield, thin capitalization
- Enviroment-riparian



### Capital sources

- Own savings (retained earnings)
- Capital market-primary & secondary listing
- FIs including merchant Banks
- MFIs
- Venture capital-eVentures & pesapal, Fanisi & hillcrest
- REITs-Africa Reit, 'cytonn'
- Pension Funds & parastatals -govt
- Suppliers
- Foreign parent multinationals-Total 5.2B(2012)



# Information impediments to capital budgeting: impact

 Impediment -hindrance/bar/slow down execution of decision/activity due to information defect/asymmetry/lack

#### **Impacts:**

- Rejection of application due to lack of trust (PPP)
- Rejection of worth project due to rigid restrictive covenants that are not responsive to business dynamics
- High cost of capital
  - ✓ Listing & underwriting
  - ✓ Insurance
  - ✓ Guarantees/documentary credit by banks
  - ✓ Expert fee
  - ✓ Collateral hence opportunity cost
  - ✓ Loan syndication



#### Impact...

- Risk analysis is difficult-exposure
- Interest rate discrimination
- Selective credit control-regulator requires financing certain sectors than others
- Equity gap-wealth rejecting to invest on equities of good performing small firms due to fear of exit route
- Poor pricing (safcom 14(16))
  - ✓ Insider trading-Davidson(KCB) & Uchumi
  - ✓ Herding
  - ✓ Market crash (1929-wall street;2008-global)



#### Remedies

- Listing
  - ✓ Primary & Secondary(rights)
  - ✓ Cross listing
- Derivatives
- ✓ Option gives the buyer the right, but not the obligation to buy(call) or sell (put) a certain asset at a specific price at any time during the life of the contract
- ✓ Futures gives the buyer the *obligation* to purchase a specific asset, and the seller to sell and deliver that asset at a specific future date, unless the holder's position is closed prior to expiration.
- √ Swaps



#### Remedies...

- (Reverse) share split
- Preference capital with options
- SBB of fixed securities
- Maintain a forex account
- Technology-credit information sharing & social media
- Good image
  - √ Corporate governance (trust)
  - ✓ Corporate philanthropy-Equity
  - ✓ Avoid adverse publicity-NBK, mumias
- Mergers & acquisitions
  - ✓ Local-old mutual: UAP & faulu)
  - ✓ Cross border trading-Equity & 79% ProCredit in DRC
  - ✓ Buy existing brand-brookside, yu



#### Remedies...

- Invest in technical personnel
- Asset securitization
- Environment-NEMA
- Unit trusts
- Innovation (Financial or otherwise)
  - ✓ Agency banking
  - ✓ Mobile banking/mpesa
  - ✓ Bond purchase thru mobile phones
  - √ Bancassurance
  - √ Greenhouse
  - ✓ Disease resistant crops



#### Conclusion

Modern management accountant should be well knowledgeable on PESTLE issues & team player to rightfully & competently advice the top management in making decisions that give the firm a competitive advantage towards wealth maximization



#### END OF PRESENTATION

THANK YOU FOR YOUR ATTENTION

Q&A