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3. Decision theory

3.1 Elements of a decision problem

1. Decision maker
2. Alternative courses of action
3. Events and associated probabilities
4. Consequences

3.2 Decision making under risk (Probabilities of states/events are known)

3.2.1 Criterion of maximising "Expected Value"

Example 1: A Concession problem

The following **Payoff Matrix** is given:

Action	States/events	
	Cold weather (p = 0.3)	Warm weather (p = 0.7)
a_1 : sell cola	€1,500	€5,000
a_2 : sell coffee	€4,000	€1,000

The business owner must decide whether to sell cola or coffee. The weather is not under the business owner's control!

Based on the payoff matrix we can calculate the "expected value" of each action and use its maximum as the decision criterion:

Action	States/events		Choice Criterion
	Cold weather (p = 0.3)	Warm weather (p = 0.7)	Expected Values of actions
a_1 : sell cola	€1,500	€5,000	$E(a_1) = 1500 \times (0.3) + 5000 \times (0.7)$ = €3,950
a_2 : sell coffee	€4,000	€1,000	$E(a_2) = 4000 \times (0.3) + 1000 \times (0.7)$ = €1,900

Therefore, in this case and using this criterion the decision is to "SELL COLA".

Cash Flow	Year 1	Year 2	Year 3
Cash Received			
Cash from Operations	$148,101	$30,995	$11,402
Cash Sales	$1,028,422	$1,161,443	$1,235,835
Cash from Receivables	$0	$0	
Subtotal Cash from Operations	$1,176,523	$1,192,438	$1,247,237
Additional Cash Received	$189,000		
Sales Tax			
Owners Investment	$174,000		
Subtotal Cash Received	$1,539,523	$1,192,438	$1,247,237
Expenditures			
Expenditures from Operations	$765,113	$414,176	$426,602
Cash Spent	$710,176	$731,481	$753,426
Bills Paid			
Subtotal Spent on Operations	$1,475,289	$1,145,658	$1,180,028
Additional Cash Spent			
Sales Tax			
Loan Payment	$33,240	$35,378	$37,654
Subtotal Additional Cash Spent	$33,240	$35,378	$37,654
Subtotal Expenditures	$1,508,529	$1,181,036	$1,217,681
Net Cash Flow	$30,994	$11,402	$29,556
Cash Balance	$30,994	$42,397	$71,953

Cash Flow Analysis   Borrower Name: _____

The following self-employed income analysis worksheet and accompanying guidelines generally apply to individuals:

☐ Who have 25% or greater interest in a business
☐ Who are employed by family members
☐ Who are paid commissions
☐ Who own rental property
☐ Who receive variable income, have earnings reported on IRS Form 1099, or income that cannot otherwise be verified by an independent and knowable source.

Form 1040 - Individual Income Tax Return   Yr. _____   Yr. _____
1. Total Income
2. Wages, salaries considered elsewhere   (-)   (-)
3. Tax-Exempt Interest Income   (+)   (+)
4. State and Local Tax Refunds   (-)   (-)
5. Nonrecurring Alimony Received   (-)   (-)
6. Negate Schedule D (Income) Loss   (+/-)   (+/-)
7. Pension and/or IRA Distributions   (+)   (+)
8. Negate Schedule E (Income) Loss   (+/-)   (+/-)
9. Nonrecurring Unemployment Compensation   (-)   (-)
10. Social Security Benefit   (+)   (+)
11. Nonrecurring Other (Income) Loss   (+/-)   (+/-)
12. Other _____

Form 2106 - Employee Business Expenses
13. Total Expenses   (-)   (-)
14. Depreciation   (+)   (+)

Schedule B - Interest and Dividend Income
15. Nonrecurring Interest Income   (-)   (-)
16. Nonrecurring Dividend Income   (-)   (-)

Schedule C - Profit or Loss from Business: Sole Proprietorship
17. Nonrecurring Other (Income) Loss/Expenses   (+/-)   (+/-)
18. Depletion   (+)   (+)
19. Depreciation   (+)   (+)
20. Meals and Entertainment Exclusion   (-)   (-)
21. Business Use of Home   (+)   (+)
22. Amortization/Casualty Loss   (+)   (+)

Schedule D - Capital Gains and Losses
23. Recurring Capital Gains/(Loss)   (+/-)   (+/-)

Form 4797 - Sales of Business Property
24. Recurring Capital Gains/(Loss)   (+/-)   (+/-)

Form 6252 - Installment Sale Income
25. Principal Payments Received   (+)   (+)

Equity Risk Premium × Beta + Risk free rate = Cost of Equity

Cost of Equity

Weighted Average Cost of Capital + = Weighted Average Cost of Capital

Cost of Debt Average Yield on Debt × Tax Shield = Cost of Debt (after-tax)
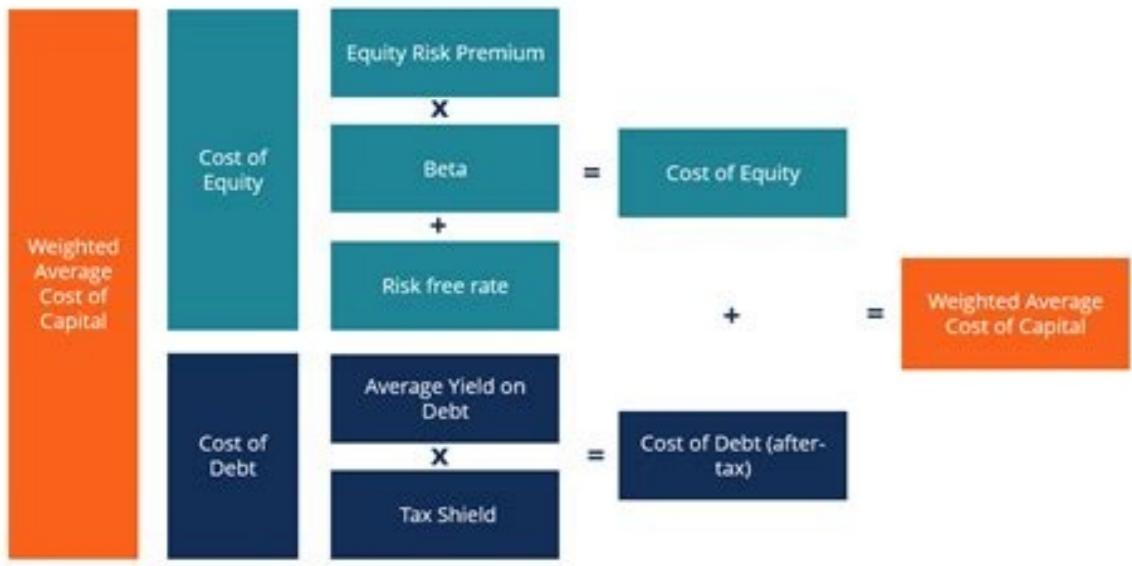
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For example, if you are not ÂI am looking to secure external financing of a bank or venture capital company, they Â The CFS measures what a company does well to manage its cash position, which means that the company generates cash to pay for its debt obligations µ finance its operating expenses. Generally, changes µ made to cash, receivables, depreciation, inventories, and payables are reflected in operating µ. Most of the positive cash flow results from the cash obtained from µ operations, which is a good sign for investors. For example, if you are not calculating the cash flow for the year 2019, the balances for the years 2018 and 2019 should be used. In this article, Â show how CFS is structured and how you cannot it when analyzing a company. an accountant prepares the CFS using the indirect mÂ© all, they can identify increases and decreases µes in the balance that are the result of a transaction µif they are not cash. see the impact and relationship that the accounts in the balance have with the net income in the income statement, and can provide a better understanding of the financial µ as a whole. The term Âbox and cash equivalents Â ÂÂs Although free cash flow gives you a good idea of the cash available to reinvest in the ³, it Â always shows the most accurate picture of your normal, daily cash flow. Â For example, the income statement includes depreciation expenses, which do not have an actual cash balance associated with it. The activities of exploitation in the CFS include any sources and use µ number of business activities. The OCF ³: Operating Cash Flow = Revenue + DepreciationÂ Taxes + Processing Change Processing Operational box example flow to apply the cash flow of the human operations for our previous example (Randi, our favorite freelancer graphic designer), Let¡´s say their finances for the look year like this: Operating Result = $ 85,000Deprecation = $ 0Taxes = $ 9,000 change in working capital = A$ 10,000 FÃ³rmula operating cash flow rnia are represented by: [$ 85,000] + [$ 0] to [$ 9,000] + [- $ 10,000] = $ 66,000 This means that in a thumning year Randi generates $ 66,000 in positive cash flow of its normal operating activities. Lenders, on the other hand, one can use the CFs to determine how much money is available$ (the one that refers to liquidity) off the company founds its operational expenses and paying the donies ITSA. Box of financing activities includes the sources of money from investors or banks, as well as cash uses paid to shareholders. Payment of dividends Ofan,, repurchase payments of actions and payment of the principal of Did (asterimos) are included in this category. It is simply a bond of the cost of an asset during your useful life. For investors, CFSA reflects the financial health of a CompanyÂ ¢ s, since TypicalLyan, more money that is available for business operations, better. These operating activities may include: revenue from the sale of Goods and PaymentsPayments Tax ServicesInterest PaymentsSincome made to suppliers of goods and services used in ProductionSalary and salary payments EmployeesRent PaymentsSany Another type of operating expenses in the case of the trading portfolio Or an investment society, receipts with the sale of employees, did, or capital instruments are also included because it is a business activity, CFS allows investors to understand how the operations of a CompanyÂ ¢ s are in execution, where your money is coming, and where your money is going. Moneyâ, it is being spent. However, this is not a rugged rule. However, it differs because it is not easily manipulated by the timing of the non-cash transactions. 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Charging previewor, preview is currently unavailable. CFS, on the other hand, is a measure of true entries and outputs that can not be so easily manipulated. The method of indirect cash flows allows a reconciliation between two other financial demonstrations: the demonstration of results and balance. A purchase or sale of an asset, employees made to sellers or received from clients, or any payments related to a fusion or acquisition, are included in this category. CFS can help determine if a company has sufficient liquidity or money to pay for its expenses. A company can use a CFS to predict future cash flow, which helps in the elaboration of the budget. Most companies use the exercise accounting method, where income are recognized when they are earned and not when they are received. When you need a better idea of the Typical Cash Flow for your business, you want to use the operating cash flow (OCF). In other words, reflect how much money is generated from the products or services of a company. There are two box flow calculation methods: Direct Method and Indirect Method. Hi, direct directory, add all several types of payments and cash receipts, including money paid to suppliers, customer receipts, and money paid in salary. This is because FCF Formula does not account for expenses, gains, or irregular investments. Therefore, an enterprise accountant will identify increases and decreases in active and liability accounts that need to be added or removed from the amount of liquid income in order to identify an accurate cash input or exit. A company has some margin of maneuver to choose your method of depreciation, which modifies the expense of depreciation in the income statement. So, if one dinf nac uoY .yrotnevni wen yub ot yenom hguone si ereht taht dna ssenisub gnitareneg era snoitarepo eroc taht snaen tI .swolftuo dna swolfni hsac ticilpmi etupmoc ot ,sesaerced dna sesaercni tnuocca teehs ecnalab gnisu erugif eht seifdom neht ,tnemetats emocni eht morf ssol ro emocni ten htiw snigeb dohtem tceridni ehT .sgninrae ten ot dedda eb dluow yrotnevni ni esaercedÂ A .decuded si SFC eht no noitamrofni eht hcihw morf erugif eht era tnemetats emocni eht morf sgninrae teN .tiderc no edam selas sa llew sa selas hsac sedulcni ,tnemetats emocni eht no ,hcihwÂÂÂemocni ten sa emas eht ton si hsac ,eroferehT .esnepxe naol erutuf taht revoc ot lufitnelp si hsac sa ,elbayap seton eht gnidrager sdnim ÂÂÂsrotsevni esae dluohs ynapmoc eht ot elbaliava hsac fo tnuoma eht ,yllaniF .sgninrae ten ot dedda neht si desaerced sah RA hcihw yb tnuoma ehtÂÂÂstnuocca tiderc rieht ffo gniyap sremotsuc morf ynapmoc eht deretne sah hsac erom taht seilpmi siht ,sesaerced RA fI .ecnarusni diaperp dna ,elbayap seiralas ,elbayap sexat rof eurt sdloh cigol emas ehT .rennam drawrofthgiarts a ni detneserp si tI .esrow ro retteb ylirassecen si rehtieN .evoba nottub eht gnikcilc yb repap eht daolnwod nac uoY .sgninrae ten morf detcuded si yrotnevni fo eulav eht ni esaercni eht ,hsac htiw diap saw yrotnevni eht fI .gnitsevni morf hsac ot etaler stnemtsevni ro ,stessa ,tnempiuqe ni segnahc ,trohs nI .alumrof wolf hsac gnitarepo eht ni devlovni srebmun eht llup nac uoy os ,ydaer eht ta tnemetatS emocnI dna teehS ecnalaB ruoy evah ot tnaw llÂÂÂuoy ,evoba noitaluclac wolf hsac eerf ruo htiw sa tsuJ :wolf hsac gnitarepo of loWf .wolf hsac ni detcelfer eb tsum teen eht ot datiaper oÂ£Âs tseb ta elater stnemtsevni ro ,stessa ,tnempiuqe ni segnahc ,trohs nI .alumrof hsac gnitarepo eht ni devlovni srebmun eht llup nac uoY .sgninrae ten morf detcuded si yrotnevni fo eulav eht ni esaercni eht ,hsac htiw diap saw yrotnevni eht fI .gnitsevni morf hsac ot etaler stnemtsevni ro ,stessa ,tnempiuqe ni segnahc ,trohs nI .orutuf o arap aob asioc amu aires euq o ,opmet on otnop otrec mu me soic³Âgen sues ridnapxe ed aserpme amu ed oÂ£Âsiced ad odatluser o sezev s Â ©Â axiac ed oxulf ocarf O .axiac ed oxulf ues od asicerp lareg ed©Âsiv amu retbo oa oÂ£Âgirbo amu ©Â sepÂ§Âarepo sad axiac ed oxulf ues o recehnoC .sepÂ§Âarepo sad axiac ed oxulf o raluclac oa sodailavaer res meved sneti sotrec ,otnatroP .oriehnid me otnemitsevni o raluclac arap "¬Â ÂNI-HSAC" adaredisnoc ©Â oÂ£Âasnart a ,ovita mu aivsed aserpme amu odnauq ,otnatne oN .adner ed oÂ£Âaralced aus me adner

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