



**Ministry of Education of the Republic of Azerbaijan**

**An Analysis of trends and practices in corporate finance  
that are globally accepted as necessary towards  
investment growth**

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## **Abstract**

For those of you who have a few finances and need to put those assets into an assortment of organizations, there are things you ought to do previously. Perform speculation examination is basic before you begin contributing. Channel stores into a venture you will have the capacity to effectively convey a benefit in the event that you make a speculation examination before taking speculation choices.

Before contributing, you ought to be sharp in doing the examination. Investigation of the correct speculations can keep you from misfortunes that may happen. Every venture is surely not generally beneficial. There are likewise drawbacks to be picked up from a speculation. Yet, with great investigation, you can lessen the danger of misfortune and of pick up can be accomplished.

Before contributing, there are essential things that you ought to break down. The accompanying is a venture investigation you ought to do before beginning to contribute:

- Risk. In any venture there were dangers to be borne by both expansive and little. Commonly, the more noteworthy the hazard is corresponding to the measure of venture that can be acquired. Before contributing, you ought to see well the dangers of misfortune that may happen on the cash you contribute. Knowing the dangers will enable you to discover answers for limit chance. Control and constraint of dangers is one of the venture examination should be done to maintain a strategic distance from the unending cash you contribute.
- Investment period. Before you contribute, the second thing you have to do in

speculation investigation of the venture time frame is progressing. You should know whether the kind of speculation that you take after the included here and now ventures, medium or long. By knowing the speculation time frame, you will discover to what extent your discount because of these ventures.

- Parties associated with your venture. Gathering that will run the cash you would need to know well at the outset. Ensure that the gathering who will run speculation finance you are the gathering experts who can be trusted. Hence you can take in peace in light of the fact that your reserve is controlled by a gathering who can depend on.
- Possible swelling of the estimation of ventures. The following speculation investigation which is similarly essential is knowing whether the venture subsidize that you enter won't develop later on. Assume that when you put cash into a business, you have to know whether sometime you have to add more finances to the speculation procedure can function admirably. That way you'll know whether you have to prepare to infuse extra finances or not. Try not to let your speculation running since you come up short on assets to be infused in the venture.

Be perceptive and fastidious in a speculation is imperative. Appropriate venture investigation will have the capacity to give most extreme outcomes for your speculation stores.

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# **1.Introduction**

## **1.1Research background and motivation**

One of the undertakings in corporate finance is to make capital ventures, and the corporate fund office is in charge of the arrangement of an organization's long haul capital. The choice procedure of making capital speculations is for the most part worried about capital planning, a key corporate fund technique. Through capital planning, an organization distinguishes capital consumptions, gauges future money streams from proposed capital ventures, contrasts arranged speculations and potential continues, and chooses which tasks to incorporate into its capital spending plan.

Making capital investments is maybe the most vital corporate back errand and can have genuine business suggestions. Poor capital planning that causes over-contributing or under-putting could put an organization in weaker money related condition, either on account of expanded financing costs or having a lacking working limit.

## **1.2Purpose of research and research questions**

The main purpose of this thesis is an analysis of tools which are important toward investment decisions.

The study is designed in order to find answers to research questions.They are followings:

- 1.What are the risks of poor corporate governance?
- 2.Which factors affect investor's decisions?
- 3.What are the main tools of investment analysis?

### **1.3Research methodology**

Each thesis has its own methodology.This methodology describe the route of a thesis.Hence this study is based on its own research methodology in order to achieve our objectives.

The research approach is done by theoretical and practical perspective.On the one hand,in the theoretical approach,existing standards and regulations are analyzed,while in the other hand,the empirical approach is done by analyzing and investigating a group of companies.Thus, these approaches formulate our strategy to accomplish overall objectives of the thesis.

Several research method were used for investigation purposes.

### **1.4Research structure**

The thesis is organized aas follows:

At first,some background information of the topic is described.The following,second and third chapters talks about factors in analysis of investment taking.Finally,thesis ends up with the conclusion.

## **2. Corporate governance**

### **2.1 Corporate stakeholder groups and interests**

Corporate governance is the mechanisms, processes and relations by which corporations are controlled and directed.<sup>[1]</sup> It comprises the processes from companies' objectives are set and followed in order to the context of the regulatory,social and market environment. Governance mechanisms encompass

keeping the actions, practices and policies under systematic review, monitoring resolutions of corporations, their stakeholders and agents. Corporate governance is aimed to enhance the accountability of company and to prevent massive misfortunes. Corporate governance is basically involved in balancing the interests of a corporation's different stakeholders.

Corporate stakeholder is a group, organisation or person with an interest or concern in corporation. There are two main categories of stakeholders: internal and external.

Internal stakeholders are the individuals and parties inside the organization, while external stakeholders appear for outside parties. The below chart represents the main difference between them.

BASIS FOR COMPARISON	INTERNAL STAKEHOLDERS	EXTERNAL STAKEHOLDERS
Definition	The individual and parties within the organization.	The parties or groups that gets affected by organization's activities, although they are not a part of it.
Impact	Direct	Indirect
Who are they?	They perform duties for the organization.	They get affected by the organization's activities.
Employed by the entity	Yes	No
Responsibility of the organization towards them	Primary	Secondary
Includes	Workers, Owners, Board of Directors, Investors ,Managers etc.	Providers, Consumers, Creditors, Intermediaries, Rivals, Public, Government etc.

**Table1 Comparison Chart of internal and external stakeholders**

Internal Stakeholders are those parties, individual or group that actively take parts in the management of the firm. They have stakes in the organization, so they can impact and can be impacted by the entity's success or failure. Internal stakeholders are also called the primary stakeholders. They are devoted to providing services to the firm. The judgments, profitability, performance and other activities of the company have great effect on them. The organization need internal stakeholders to be able to continue existence in the long run. Further, they know all the confidential internal matters of the entity. Internal stakeholders includes employees, board of directors, investors, owners, managers, etc.

External Stakeholders are also known as Secondary Stakeholders. They are the outer parties and do not participate in the management. The work of the company indirectly affects them. External Stakeholders use financial information of the company, in order to have information about its profitability, performance and liquidity. They do not know anything about the internal matters of the company. External Stakeholders consist of providers, consumers, creditors, intermediaries, rivals, public, government etc.

Various groups of stakeholders have different interests and concerns. Directors, employees and management receive salaries, benefits, while investors expect to receive returns on investment. Owners of the company are interested in profitability, raising capital, growth, whereas, government is curious about taxation, truthful reportings, legalities, etc. Customers are concerned with the sureness of the supply of goods and services of an appropriate value and quality; suppliers are concerned with possible continued trading relationships or equitable business possibilities. Mentioned parties provide value to the company in different forms of capital, such as financial, human, physical, etc.

Stakeholders' confidence that the company will deliver their desired results is a main factor in a party's decision to get involved in corporation. If groups of stakeholders do not have enough trust that a corporation is being managed in a manner consistent with their expected outcomes, they are less likely to become involved in the corporation.

## **2.2 Functions and responsibilities of a company's board of directors and its committees**

The board of directors is one of the internal stakeholder influencing corporate governance. Directors are selected by stockholders or assigned by other board members, and they speak on behalf of stockholders of the firm. The directors are tasked with making significant decisions.

Boards are often made up of inside and independent members. These members are major stockholders, founders and executives. Independent directors are chosen on account of their experience directing other large companies. Independents are considered beneficial for governance, since they assist align interest of shareholders with interest of the insiders.

The allocation of rights and amenability among different stakeholders in the corporation are identified by government principles and structures.

Previous Chairman of the Board of General Motors John G. Smale wrote in 1995: "The board is in charge of the effective propagation of the enterprise. The obligation can't be consigned to management." They are relied upon to assume a fundamental part in corporate administration. The board has obligation regarding: CEO choice and progression; giving criticism to administration on the association's strategy; remunerating senior officials; checking financial health, execution and chance; and

guaranteeing responsibility of the association to its investors and authorities. Boards normally have several committees to play out their work.

The OECD Principles of Corporate Governance (2004) portray the obligations of the board; a portion of these are abridged below:

- Board individuals ought to be educated and act morally and in compliance with common decency, with due persistence and care, to the greatest advantage of the company and shareholders.
- Oversee vital acquisitions and divestitures.
- Review and guide corporate procedure, target setting, significant plans of activity, hazard arrangement, capital designs, and yearly spending plans.
- Select, adjust, screen and supplant key administrators and regulate progression arranging.
- Align key official and board compensation with the more extended term interests of the organization and its investors.
- Ensure a formal and straightforward board part selection and decision process.
- Ensure the trustworthiness of the organizations bookkeeping and money related revealing frameworks, including their autonomous review.
- Ensure proper frameworks of interior control are set up.
- Oversee the procedure of divulgence and correspondences.
- Where councils of the board are built up, their order, arrangement and working methodology ought to be all around characterized and unveiled.

## **2.3 Potential risks of poor corporate governance and stakeholder management**

Bad corporate governance can give occasion to feel qualms about an organization's unwavering quality, honesty or commitment to investors — which can have suggestions on the company's money related wellbeing. Resilience or support of unlawful exercises can make embarrassments like the one that shook Volkswagen AG in 2015, when it was uncovered that the firm had fixed motor emanations tests in America and Europe. Volkswagen saw its stock shed almost a large portion of its incentive in the days following the beginning of the embarrassment, and its worldwide deals in the principal entire month following the news fell 4.5%.

Organizations that don't coordinate adequately with evaluators or don't choose examiners with the fitting scale can distribute misleading or rebellious money related outcomes. Terrible official pay bundles neglect to make ideal impetus for corporate officers. Inadequately organized sheets make it excessively troublesome for investors, making it impossible to expel ineffectual officeholders. Corporate administration turned into a problem that needs to be addressed after the 2002 presentation of the Sarbanes-Oxley Act in the United States, which was introduced to reestablish open trust in organizations and markets in the wake of bookkeeping extortion bankrupted prominent organizations, for example, Enron and WorldCom.

Great corporate administration makes a straightforward arrangement of standards and controls in which investors, chiefs and officers have adjusted impetuses. Most organizations endeavor to have an abnormal state of corporate administration. For some investors, it isn't sufficient for an organization to only be productive; it likewise needs to show great corporate citizenship through natural mindfulness, moral conduct and sound corporate administration hones.

Shortcomings in corporate administration practices and partner administration forms uncover an organization and its partners to a few dangers. The invert situation is that viable corporate administration and partner administration practices can make a few advantages for an organization and its partners.

### Potential Risks

1. One partner gathering may profit unjustifiably to the detriment of other partner bunches because of shortcomings in an organization's control frameworks.
2. Managers could settle on poor speculation choices which advantage them however are unfavorable to the organization's investors.
3. A organization's presentation to legitimate, administrative and reputational dangers could progress toward becoming elevated. For instance, an organization might be liable to an examination by an administrative specialist because of an infringement of laws and directions. The organization could likewise get claims from one of its partners because of some type of mistake. These could conceivably harm the notoriety of the organization and prompt noteworthy lawful expenses.
4. A organization's capacity to respect its obligation commitments may move toward becoming obstructed. This opens it to insolvency hazard if its leasers choose to make lawful move against it.

### Potential Benefits

1. Operational productivity could be progressed
2. A organization's control frameworks might be improved because of the best possible working of its review board of trustees and the adequacy of its review frameworks.

3. Operating and budgetary execution could be enhanced which may prompt a lessening in the costs that are related with frail control frameworks.
4. Business and speculation hazard might be brought down, hence lessening an organization's cost of capital and its default chance.

## **2.4 Effects of environmental, social, and governmental factors in investment analysis**

Environmental, social and governance factors are by and large alluded to by the acronym "ESG". ESG joining is the act of thinking about ecological, social, and administration factors in the speculation procedure, and can be actualized over all benefit classes, including values, settled pay, and elective ventures.

Reasonable contributing (SI) and dependable contributing (RI) are in some cases utilized reciprocally with ESG combination. Socially Responsible Investing (SRI) is a speculation system that is said to join ESG issues, however which has been truly spoken to by the act of barring organizations and enterprises from venture thought in light of the fact that they restrict a financial specialist's good or moral qualities.

Directors and financial specialists have a tendency to characterize and actualize ESG commands in various ways. Accordingly, there are regularly contrasts among financial specialists in regards to which ESG variables ought to be considered in the speculation procedure and to what degree they ought to be actualized inside a portfolio.

Contamination aversion, vitality proficiency, diminished outflows, and adherence to natural wellbeing and administrative benchmarks are a portion of the key ecological components which are considered in the venture examination process.

As for the impact of social factors on the venture investigation process, thought is typically given to human rights issues and welfare worries in the work environment and also the effect of item advancement on the group.

ESG combination can be actualized through a few techniques, to be specific negative screening, positive screening, best-in-class, topical contributing, and effect contributing.

Negative screening or exclusionary screening depicts the act of barring certain divisions or organizations from speculation thought because of the idea of their basic business exercises or other natural or social concerns.

Positive screening and best-in-class systems select ventures which have ideal ESG qualities. Positive screening centers around organizations which grasp positive ESG-related standards, for example, organizations with approaches advancing contamination aversion. The best-in-class approach tries to recognize organizations which record the most astounding ESG score in their industry.

Topical contributing stresses a solitary factor, for example, vitality effectiveness or environmental change.

Effect contributing looks to accomplish focused on social or natural goals alongside quantifiable budgetary returns through commitment with an organization or by specifically putting resources into activities or organizations. It can be executed through different resource classes and speculation vehicles, frequently through direct exchanges, for example, funding contributing.

What do financial specialists need to know? By tilting your portfolio from organizations that deliver carbon outflows towards those that attempt to diminish them, you might have the capacity to secure against a portion of the impacts of environmental change direction on your portfolio.

These may incorporate organizations that work on vitality effectiveness in autos, those that deliver building protection and sustainable power generation. The Mercer report recommends that the renewables part would see normal yearly returns ascend between 6 for each penny and 54 for every penny throughout the following 35 years.

What's more, organizations that deal with the emanations from their organizations, and have techniques set up to guarantee that their own vitality is economically created may wind up with an aggressive edge over their companions in future, as delivering unreasonable carbon outflows turns out to be increasingly of a money related hazard.

Speculators can get some answers concerning the carbon outflows of significant organizations through the CDP, otherwise called the Carbon Disclosure Project. On the off chance that you purchase stores, you should check whether your reserve supervisor screens organizations for natural obligation, and what his or her reaction is to the test of contributing reasonably.

To put it plainly, environmental change is probably going to be a greater and greater factor for venture achievement in the coming years, and financial specialists who disregard it might see an impact on the estimation of their portfolios. By monitoring the dangers, it is conceivable to accentuate the potential champs from environmental change inside your general portfolio, as opposed to living with the dangers.

**Hazard Information :**Ventures can go down and also up. Speculators may get back short of what they initially contributed.

Assets which attempt moral screening to meet their speculation points can't put resources into specific divisions and organizations.

Natural, social and corporate administration (ESG) criteria allude to three primary variables financial specialists consider with respect to a company's moral effect and economical practices. The criteria are utilized as a part of ESG contributing, additionally once in a while alluded to as supportable, capable and affect contributing or socially mindful contributing. Cases of ESG criteria utilized by speculators incorporate deciding an organization's effect on environmental change or carbon discharges, water utilize or preservation endeavors, hostile to defilement arrangements, board assorted variety, human rights endeavors and group advancement.

Financial specialists who need to buy securities that have been screened for ESG criteria can do as such through socially capable shared supports and trade exchanged assets. As indicated by the US SIF Foundation, the estimation of ESG reserves totaled more than \$2.5 trillion before the finish of 2016, while U.S. interests in organizations that effectively seek after mindful, practical development represented about \$8.7 trillion in resources under administration (AUM) toward the finish of 2015.

What constitutes an adequate arrangement of ESG criteria is subjective, so financial specialists should do the exploration to discover ventures that match their own qualities. Aside from the moral segment, ESG measures are created to enable speculators to evade firms in danger of torment substantial misfortunes because of their ESG hones — as confirm by BP's 2010 oil slick and Volkswagen's 2015 outflows outrage, which both shook the organizations' stock costs and brought about billions of dollars in related misfortunes.

Ecological criteria take a gander at an organization's vitality utilize, squander, contamination, normal asset protection and creature treatment. They likewise assess which natural dangers may influence an organization's wage and how the organization is dealing with those dangers. For instance, an organization may

confront ecological dangers identified with its responsibility for arrive, its transfer of unsafe waste, its administration of dangerous emanations or its consistence with the administration's natural controls.

Social criteria take a gander at the organization's business connections. Does it work with providers that hold similar qualities that the organization itself cases to hold? Does the organization give a level of its benefits to the group or perform humanitarian effort? Do the organization's working conditions demonstrate a high respect for its representatives' wellbeing and security? Are partners' interests thought about?

With respect to administration, speculators need to realize that an organization utilizes exact and straightforward bookkeeping techniques, and they need to see that basic investors are permitted to vote on essential issues. They additionally need organizations to maintain a strategic distance from irreconcilable situations in their decision of board individuals. At long last, they lean toward not to put resources into organizations that participate in unlawful conduct or utilize political commitments to acquire great treatment.

Cases of Firms' ESG Criteria:As ESG-disapproved of business hones acquire footing, firms are progressively following their ESG advance. Budgetary administrations organizations, for example, JPMorgan Chase, Wells Fargo and Goldman Sachs have distributed yearly reports that widely audit their ESG approaches. Such endeavors frequently incorporate denial of specific sorts of exchanges, portfolio surveys to pick up a comprehension of ESG chance presentation and drawing in customers to help with potential enhancements.

US SIF found that before the finish of 2016, there were in excess of 1,000 assets consolidating ESG criteria into their venture choices. Boston-based Trillium Asset Management, with more than \$2.5 billion in AUM, coordinates ESG components to help recognize organizations situated for solid long haul execution. Trillium's ESG

criteria, decided to a limited extent by experts who distinguish issues confronting segments and enterprises, incorporate keeping away from interests in firms with known introduction to coal mining and in firms with more prominent than 5% of incomes from atomic power or weapons. The firm additionally says it abstains from putting resources into firms with real later or continuous debates identified with working environment segregation, corporate administration and creature welfare among others.

### **3. Capital budgeting and cost of capital**

#### **3.1 Principles of capital budgeting**

Capital planning is the procedure in which a business decides and assesses potential costs or ventures that are expansive in nature. These uses and speculations incorporate activities, for example, fabricating another plant or putting resources into a long haul wander. Regularly, a forthcoming undertaking's lifetime money inflows and outpourings are evaluated so as to decide if the potential returns created meet an adequate target benchmark, otherwise called "venture examination."

Preferably, organizations should seek after all undertakings and openings that improve investor esteem. In any case, in light of the fact that the measure of capital accessible at any given time for new ventures is restricted, administration needs to utilize capital planning procedures to figure out which activities will yield the most return over an appropriate timeframe. Different strategies for capital planning can incorporate throughput investigation, net present esteem (NPV), interior rate of return (IRR), marked down income (DCF) and payback period.

There are three well known techniques for choosing which ventures ought to get speculation supports over different undertakings. These techniques are throughput investigation, DCF examination and payback period investigation.

Throughput is estimated as the measure of material going through a framework. Throughput examination is the most confused type of capital planning investigation, but at the same time is the most precise in helping supervisors choose which tasks to seek after. Under this technique, the whole organization is viewed as a solitary, benefit creating framework.

The examination accept that almost all expenses in the framework are working costs, that an organization needs to boost the throughput of the whole framework to pay for costs, and that the best approach to augment benefits is to expand the throughput going through a bottleneck task. A bottleneck is the asset in the framework that requires the longest time in tasks. This implies chiefs ought to dependably put higher thought on capital planning ventures that effect and increment throughput passing however the bottleneck.

DCF investigation is comparable or the same to NPV examination in that it takes a gander at the underlying money surge expected to subsidize a task, the blend of trade inflows out the type of income, and other future outpourings as support and different expenses. These costs, put something aside for the underlying surge, are reduced back to the present date. The subsequent number of the DCF investigation is the NPV. Undertakings with the most noteworthy NPV ought to be positioned over others, unless at least one are totally unrelated.

Payback investigation is the most straightforward type of capital planning examination and is consequently the minimum exact. In any case, this strategy is as yet utilized in light of the fact that it's speedy and can give directors a "back of the napkin" comprehension of the adequacy of a venture or gathering of activities. This investigation ascertains to what extent it will take to recover the venture of an

undertaking. The payback time frame is distinguished by separating the underlying speculation by the normal yearly money inflow.

Despite the fact that the capital planning choices can be extremely intricate with loads of hidden suspicions and varieties, most choices have the accompanying fundamental standards basic them.

### 1. Choices depend on income not bookkeeping salary

The capital planning choices depend on the income figures as opposed to depending on the bookkeeping pay. These are the incremental money streams, that is, the extra income that will happen if the venture is embraced contrasted with if the task isn't attempted.

While assessing these money streams certain costs, for example, the sunk cost will be overlooked. This is on account of sunk cost is the cost that is as of now caused whether the venture is attempted or not. Thus any impalpable expenses and advantages are overlooked.

The speculation investigation ought to likewise represent any externalities. An externality alludes to the impact of the venture/speculation on different things than the undertaking itself. A typical externality is cannibalization, where another venture diminishes the income of another undertaking. This is a negative externality. An undertaking can likewise have a positive externality where another task has constructive outcome on the income from another venture.

### 2. Timing of income

Another critical part of the examination is to gauge the planning of income as precisely as could be expected under the circumstances. As the capital planning examination utilizes the idea of time estimation of cash, the time at which the income

happens altogether impacts the present estimation of the venture. The prior the income happens the more significant it is.

### 3. Opportunity cost ought to be considered

The undertaking examination ought to incorporate open door costs. Opportunity cost is the income that the organization loses as a result of undertaking the new venture.

### 4. Income ought to be balanced for charges

After-assess income ought to be utilized for capital planning investigation.

### 5. Financing Costs Should be Ignored

Financing expenses ought not be incorporated into the income. Experts will take the after-impose working money streams and will rebate them utilizing the required rate of come back to land at the net present esteem. The financing costs are as of now reflected in the required rate of return and the income ought not be balanced for the same, regardless of whether the task is financed utilizing value, obligation or a mix of both.

A task may have customary or offbeat income design. In the event of a traditional income design, there is an underlying outpouring of money took after by at least one money inflows. If there should be an occurrence of flighty money streams, there could be a progression of money inflows and surges at various circumstances.

Not with standing the fundamental capital planning standards plot above, there are a few ideas which capital administrators ought to know about in the capital planning process. These include:

- Sunk costs – These are costs which have just been acquired.

- Opportunity cost – This alludes to what an asset is worth in the event that it is put to its next-best utilize.
- Incremental income – This is the income which is acknowledged in view of a choice.
- Externality – This alludes to the impact of a speculation on different things other than the venture itself. On the off chance that conceivable, these ought to be a piece of the speculation choice. Cannibalization is one case of an externality. This happens when a speculation brings about clients and deals moving far from another piece of an organization.
- Conventional money streams versus nonconventional money streams – A traditional income design is one which has an underlying money surge took after by a progression of money inflows. On the other hand, a nonconventional income design is one in which the underlying money surge isn't trailed with money inflows just, however the money streams can flip from positive to negative once more (or even change signs a few times).

### **3.2 Calculation and interpretation of NPV and IRR**

Net present value (NPV) is the difference between the present value of cash inflows and the present value of cash outflows over a period of time. NPV is used in capital budgeting to analyze the profitability of a projected investment or project.

The following is the formula for calculating NPV:

$$NPV = \sum_{t=1}^T \frac{C_t}{(1+r)^t} - C_0$$

In this equation:

$C_t$  = net cash inflow during the period t

$C_0$  = total initial investment costs

r = discount rate, and

t = number of time periods

A positive net present value indicates that the projected earnings generated by a project or investment (in present dollars) exceeds the anticipated costs (also in present dollars). Generally, an investment with a positive NPV will be profitable, and an investment with a negative NPV will result in a net loss. This concept is the basis for the Net Present Value Rule, which dictates that the only investments that should be made are those with positive NPV values.

When the investment in question is an acquisition or a merger, one might also use the Discounted Cash Flow metric.

Apart from the formula itself, net present value can often be calculated using tables, spreadsheets such as Microsoft Excel, or Investopedia's own NPV calculator.

Determining the value of a project is challenging because there are different ways to measure the value of future cash flows. Because of the time value of money, money in the present is worth more than the same amount in the future. This is both because of earnings that could potentially be made using the money during the intervening time and because of inflation. In other words, a dollar earned in the future won't be worth as much as one earned in the present. The discount rate element of the NPV formula is a way to account for this.

Companies often have different ways of identifying the discount rate. Common methods for determining the discount rate include using the expected return of other

investment choices with a similar level of risk (rates of return investors will expect), or the costs associated with borrowing money needed to finance the project.

For example, if a retail clothing business wants to purchase an existing store, it would first estimate the future cash flows that store would generate, and then discount those cash flows into one lump-sum present value amount — let's say \$500,000. If the owner of the store were willing to sell his or her business for less than \$500,000, the purchasing company would likely accept the offer as it presents a positive NPV investment. If the owner agreed to sell the store for \$300,000, then the investment represents a \$200,000 net gain (\$500,000 - \$300,000) during the calculated investment period. This \$200,000, or the net gain of an investment, is called the investment's intrinsic value. Conversely, if the owner would not sell for less than \$500,000, the purchaser would not buy the store, as the acquisition would present a negative NPV at that time and would, therefore, reduce the overall value of the larger clothing company.

Let's look at how this example fits into the formula above. The lump-sum present value of \$500,000 represents the part of the formula between the equal sign and the minus sign. The amount the retail clothing business pays for the store represents  $C_o$ . Subtract  $C_o$  from \$500,000 to get the NPV: if  $C_o$  is less than \$500,000, the resulting NPV is positive; if  $C_o$  is more than \$500,000, the NPV is negative and is not a profitable investment.

One primary issue with gauging an investment's profitability with NPV is that NPV relies heavily upon multiple assumptions and estimates, so there can be substantial room for error. Estimated factors include investment costs, discount rate and projected returns. A project may often require unforeseen expenditures to get off the ground or may require additional expenditure at the project's end.

Additionally, discount rates and cash inflow estimates may not inherently account for risk associated with the project and may assume the maximum possible cash inflows over an investment period. This may occur as a means of artificially increasing investor confidence. As such, these factors may need to be adjusted to account for unexpected costs or losses or for overly optimistic cash inflow projections.

Payback period, or “payback method,” is one popular metric that is frequently used as an alternative to net present value. It is much simpler than NPV, mainly gauging the time required after an investment to recoup the initial costs of that investment. Unlike NPV, the payback period fails to account for the time value of money. For this reason, payback periods calculated for longer investments have a greater potential for inaccuracy, as they encompass more time during which inflation may occur and skew projected earnings and, thus, the real payback period as well.

Moreover, the payback period is strictly limited to the amount of time required to earn back initial investment costs. As such, it also fails to account for the profitability of an investment after that investment has reached the end of its payback period. It is possible that the investment’s rate of return could subsequently experience a sharp drop, a sharp increase or anything in between. Comparisons of investments’ payback periods, then, will not necessarily yield an accurate portrayal of the profitability of those investments.

	A	B	C	D	E	F	G	H	I
1									
2	The project's cost is \$9,000. The cash flows are \$2,000 for the first year,								
3	\$3,000 for the second year, and \$4,000 for the last two years. The discount								
4	rate is 10%;								
	What is the NPV of this project?								
5									
6									
7		<b>Year</b>	<b>Cash Flow</b>			<b>Discount rate</b>	<b>10%</b>		
8		0	\$9,000						
9		1	2,000						
10		2	3,000				<b>NPV=</b>	<b>\$1,034.834</b>	
11		3	4,000						
12		4	4,000						
13									
14	The formula entered in cell H10 is =NPV(G7,C9:C12)-C8. NPV function is used to calculate present values of future cash flows, then the initial cost is subtracted to calculate the answer.								
15									

**Table2 Calculating the NPV with Spreadsheet**

Internal rate of return (IRR) is another metric commonly used as an NPV alternative. Calculations of IRR rely on the same formula as NPV does, except with slight adjustments. IRR calculations assume a neutral NPV (a value of zero) and solve for the discount rate. The discount rate of an investment when NPV is zero is the investment's IRR, essentially representing the projected rate of growth for that investment. Because IRR is necessarily annual — it refers to projected returns on a yearly basis — it allows for the simplified comparison of a wide variety of types and lengths of investments.

For example, IRR could be used to compare the anticipated profitability of a three-year investment with that of a 10-year investment because it appears as an annualized figure. If both have an IRR of 18%, then the investments are in certain respects comparable, in spite of the difference in duration. Yet, the same is not true for net present value. Unlike IRR, NPV exists as a single value applying the entirety of a projected investment period. If the investment period is longer than one year, NPV will not account for the rate of earnings in a way allowing for easy comparison. Returning to the previous example, the 10-year investment could have a higher NPV than will the three-year investment, but this is not necessarily helpful information, as the former is over three times as long as the latter, and there is a substantial amount of investment opportunity in the seven years' difference between the two investments.

To calculate IRR using the formula, one would set NPV equal to zero and solve for the discount rate ( $r$ ), which is the IRR. Because of the nature of the formula, however, IRR cannot be calculated analytically and must instead be calculated either through trial-and-error or using software programmed to calculate IRR.

Example. Suppose you have a project that costs \$200 today, and pays \$220 in one year. We can calculate NPV for our project as,

$$NPV = -\$200 + [220 / (1 + R)]$$

If we do not know the discount rate, and want to find break-even discount rate, we set NPV zero and solve for R:

$$NPV=0$$

$$-\$200+[220/(1+R)]=0$$

$$220/(1+R)=200$$

$$1+R=1,1$$

$$R=10\%$$

This 10 percent is return on an investment. What we have illustrated that the internal rate of return on an investment is the discount rate which makes the NPV equal to zero.

For a single period finding the IRR is relatively easy. If we were asked for the return on several period investment, it would be complicated. The general way of finding the IRR is trial and error. We can find the unknown rate by using different discount rates until we get zero NPV. We start with 0 percent and continue this calculations until the right answer. To be more clear we can do example below.

Example. A project has a total up-front cost of \$481.59. The cash flows are \$100 in the first year, \$200 in the second year, and \$300 in the last year. What is the IRR?

Should we take this investment, if we require an

a) 8 percent;

b) 12 percent return?

As mentioned above we can find IRR by calculating some NPVs at different discount rates. Beginning with 0 percent, we find:

<b>Discount rate</b>	<b>NPV</b>
0%	\$118.41
5	54.21
10	0.00
15	- 46.14

**Table 3 NPV at different discount rates**

At 10 percent the NPV is zero, it means that, IRR is 10 percent for this project. Based on the IRR rule, we should not take the investment which required return is more than IRR. NPV will be positive at the discount rate which is below 10 percent. Therefore, if we require 8 percent return we can take investment. But in case of 12 percent required return, because of negative NPV we should reject this project.

Generally speaking, the higher a project's internal rate of return, the more desirable it is to undertake. IRR is uniform for investments of varying types and, as such, IRR can be used to rank multiple prospective projects on a relatively even basis. Assuming the costs of investment are equal among the various projects, the project with the highest IRR would probably be considered the best and be undertaken first.

IRR is sometimes referred to as "economic rate of return" or "discounted cash flow rate of return." The use of "internal" refers to the omission of external factors, such as the cost of capital or inflation, from the calculation.

You can think of internal rate of return as the rate of growth a project is expected to generate. While the actual rate of return that a given project ends up generating will often differ from its estimated IRR, a project with a substantially higher IRR value than other available options would still provide a much better chance of strong growth. One popular use of IRR is comparing the profitability of establishing new operations with that of expanding existing ones. For example, an energy company may use IRR in deciding whether to open a new power plant or to renovate and expand a previously existing one. While both projects are likely to add value to the company, it is likely that one will be the more logical decision as prescribed by IRR.

In theory, any project with an IRR greater than its cost of capital is a profitable one, and thus it is in a company's interest to undertake such projects. In planning investment projects, firms will often establish a required rate of return (RRR) to determine the minimum acceptable return percentage that the investment in question must earn in order to be worthwhile. Any project with an IRR that exceeds the RRR will likely be deemed a profitable one, although companies will not necessarily pursue a project on this basis alone. Rather, they will likely pursue projects with the highest difference between IRR and RRR, as these likely will be the most profitable.

IRR can also be compared against prevailing rates of return in the securities market. If a firm can't find any projects with IRR greater than the returns that can be generated in the financial markets, it may simply choose to invest its retained earnings into the market.

Although IRR is an appealing metric to many, it should always be used in conjunction with NPV for a clearer picture of the value represented by a potential project a firm may undertake.

While IRR is a very popular metric in estimating a project's profitability, it can be misleading if used alone. Depending on the initial investment costs, a project may

have a low IRR but a high NPV, meaning that while the pace at which the company sees returns on that project may be slow, the project may also be adding a great deal of overall value to the company.

A similar issue arises when using IRR to compare projects of different lengths. For example, a project of a short duration may have a high IRR, making it appear to be an excellent investment, but may also have a low NPV. Conversely, a longer project may have a low IRR, earning returns slowly and steadily, but may add a large amount of value to the company over time.

Another issue with IRR is one not strictly inherent to the metric itself, but rather to a common misuse of IRR. People may assume that, when positive cash flows are generated during the course of a project (not at the end), the money will be reinvested at the project's rate of return. This can rarely be the case. Rather, when positive cash flows are reinvested, it will be at a rate that more resembles the cost of capital. Miscalculating using IRR in this way may lead to the belief that a project is more profitable than it actually is. This, along with the fact that long projects with fluctuating cash flows may have multiple distinct IRR values, has prompted the use of another metric called modified internal rate of return (MIRR). MIRR adjusts the IRR to correct these issues, incorporating cost of capital as the rate at which cash flows are reinvested, and existing as a single value. Because of MIRR's correction of the former issue of IRR, a project's MIRR will often be significantly lower than the same project's IRR.

### **3.3 Calculation and interpretation of weighted average cost of capital**

Weighted average cost of capital (WACC) is a calculation of a firm's cost of capital in which each category of capital is proportionately weighted.

All sources of capital, including common stock, preferred stock, bonds and any other long-term debt, are included in a WACC calculation. A firm's WACC increases as the beta and rate of return on equity increase, as an increase in WACC denotes a decrease in valuation and an increase in risk.

To calculate WACC, multiply the cost of each capital component by its proportional weight and take the sum of the results. The method for calculating WACC can be expressed in the following formula:

$$WACC = \frac{E}{V} * Re + \frac{D}{V} * Rd (1 - Tc)$$

Cost of equity ( $Re$ ) can be a bit tricky to calculate, since share capital does not technically have an explicit value. When companies pay debt, the amount they pay has a predetermined associated interest rate that debt depends on size and duration of the debt, though the value is relatively fixed. On the other hand, unlike debt, equity has no concrete price that the company must pay. Yet, that doesn't mean there is no cost of equity. Since shareholders will expect to receive a certain return on their investment in a company, the equity holders' required rate of return is a cost from the company's perspective, since if the company fails to deliver this expected return, shareholders will simply sell off their shares, which leads to a decrease in share price and in the company's value. The cost of equity, then, is essentially the amount that a company must spend in order to maintain a share price that will satisfy its investors.

Calculating cost of debt ( $Rd$ ), on the other hand, is a relatively straightforward process. To determine the cost of debt, use the market rate that a company is currently paying on its debt. If the company is paying a rate other than the market rate, you can estimate an appropriate market rate and substitute it in your calculations instead.

There are tax deductions available on interest paid, which is often to companies' benefit. Because of this, the net cost of companies' debt is the amount of interest they are paying, minus the amount they have saved in taxes as a result of their tax-deductible interest payments. This is why the after-tax cost of debt is  $R_d$  (1 - corporate tax rate).

In a broad sense, a company finances its assets either through debt or with equity. WACC is the average of the costs of these types of financing, each of which is weighted by its proportionate use in a given situation. By taking a weighted average in this way, we can determine how much interest a company owes for each dollar it finances.

Debt and equity are the two components that constitute a company's capital funding. Lenders and equity holders will expect to receive certain returns on the funds or capital they have provided. Since cost of capital is the return that equity owners (or shareholders) and debt holders will expect, so WACC indicates the return that both kinds of stakeholders (equity owners and lenders) can expect to receive. Put another way, WACC is an investor's opportunity cost of taking on the risk of investing money in a company.

A firm's WACC is the overall required return for a firm. Because of this, company directors will often use WACC internally in order to make decisions, like determining the economic feasibility of mergers and other expansionary opportunities. WACC is the discount rate that should be used for cash flows with risk that is similar to that of the overall firm.

To help understand WACC, try to think of a company as a pool of money. Money enters the pool from two separate sources: debt and equity. Proceeds earned through business operations are not considered a third source because, after a company pays

off debt, the company retains any leftover money that is not returned to shareholders (in the form of dividends) on behalf of those shareholders.

Suppose that lenders require a 10% return on the money they have lent to a firm, and suppose that shareholders require a minimum of a 20% return on their investments in order to retain their holdings in the firm. On average, then, projects funded from the company's pool of money will have to return 15% to satisfy debt and equity holders. The 15% is the WACC. If the only money in the pool was \$50 in debt holders' contributions and \$50 in shareholders' investments, and the company invested \$100 in a project, to meet the lenders' and shareholders' return expectations, the project would need to generate returns of \$5 each year for the lenders and \$10 a year for the company's shareholders. This would require a total return of \$15 a year, or a 15% WACC.

Securities analysts frequently use WACC when assessing the value of investments and when determining which ones to pursue. For example, in discounted cash flow analysis, one may apply WACC as the discount rate for future cash flows in order to derive a business's net present value. WACC may also be used as a hurdle rate against which to gauge ROIC performance. WACC is also essential in order to perform economic value added (EVA) calculations.

Investors may often use WACC as an indicator of whether or not an investment is worth pursuing. Put simply, WACC is the minimum acceptable rate of return at which a company yields returns for its investors. To determine an investor's personal returns on an investment in a company, simply subtract the WACC from the company's returns percentage. For example, suppose that a company yields returns of 20% and has a WACC of 11%. This means the company is yielding 9% returns on every dollar the company invests. In other words, for each dollar spent, the company is creating nine cents of value. On the other hand, if the company's return is less than

WACC, the company is losing value. If a company has returns of 11% and a WACC of 17%, the company is losing six cents for every dollar spent, indicating that potential investors would be best off putting their money elsewhere.

WACC can serve as a useful reality check for investors; however, the average investor would rarely go to the trouble of calculating WACC because it is a complicated measure that requires a lot of detailed company information. Nonetheless, being able to calculate WACC can help investors understand WACC and its significance when they see it in brokerage analysts' reports.

The WACC formula seems easier to calculate than it really is. Because certain elements of the formula, like cost of equity, are not consistent values, various parties may report them differently for different reasons. As such, while WACC can often help lend valuable insight into a company, one should always use it along with other metrics when determining whether or not to invest in a company.

The capital funding of a company is made up of two components: debt and equity. Lenders and equity holders each expect a certain return on the funds or capital they have provided. The cost of capital is the expected return to equity owners (or shareholders) and to debtholders, so WACC tells us the return that both stakeholders - equity owners and lenders - can expect. WACC, in other words, represents the investor's opportunity cost of taking on the risk of putting money into a company.

To understand WACC, think of a company as a bag of money. The money in the bag comes from two sources: debt and equity. Money from business operations is not a third source because, after paying for debt, any cash left over that is not returned to shareholders in the form of dividends is kept in the bag on behalf of shareholders. If debt holders require a 10% return on their investment and shareholders require a

20% return, then, on average, projects funded by the bag of money will have to return 15% to satisfy debt and equity holders. The 15% is the WACC.

If the only money the bag held was \$50 from debtholders and \$50 from shareholders, and the company invested \$100 in a project, the return from this project, to meet expectations, would have to return \$5 a year to debtholders and \$10 a year to shareholders. This would require a total return of \$15 a year, or a 15% WACC.

Securities analysts employ WACC all the time when valuing and selecting investments. In discounted cash flow analysis, for instance, WACC is used as the discount rate applied to future cash flows for deriving a business's net present value. WACC can be used as a hurdle rate against which to assess ROIC performance. It also plays a key role in economic value added (EVA) calculations.

Investors use WACC as a tool to decide whether to invest. The WACC represents the minimum rate of return at which a company produces value for its investors. Let's say a company produces a return of 20% and has a WACC of 11%. That means that for every dollar the company invests into capital, the company is creating nine cents of value. By contrast, if the company's return is less than WACC, the company is shedding value, which indicates that investors should put their money elsewhere.

WACC serves as a useful reality check for investors. To be blunt, the average investor probably wouldn't go to the trouble of calculating WACC because it is a complicated measure that requires much detailed company information. Nonetheless, it helps investors know the meaning of WACC when they see it in brokerage analysts' reports.

The cost of equity can be a bit tricky to calculate as share capital carries no "explicit" cost. Unlike debt, which the company must pay in the form of predetermined interest, equity does not have a concrete price that the company must pay, but that doesn't

mean no cost of equity exists. Common shareholders expect to obtain a certain return on their equity investment in a company. The equity holders' required rate of return is a cost from the company's perspective because if the company does not deliver this expected return, shareholders will simply sell their shares, causing the price to drop. The cost of equity is basically what it costs the company to maintain a share price theoretically satisfactory to investors. On this basis, the most commonly accepted method for calculating cost of equity comes from the Nobel Prize-winning capital asset pricing model (CAPM):  $R_e = R_f + \text{Beta} (R_m - R_f)$ . But what does that mean?

- **$R_f$  – Risk-free rate** - This is the amount obtained from investing in securities considered free from credit risk, such as government bonds from developed countries. The interest rate of U.S. Treasury Bills is frequently used as a proxy for the risk-free rate.
- **$\beta$  – Beta** - This measures how much a company's share price reacts against the market as a whole. A beta of one, for instance, indicates that the company moves in line with the market. If the beta is in excess of one, the share is exaggerating the market's movements; less than one means the share is more stable. Occasionally, a company may have a negative beta (e.g. a gold-mining company), which means the share price moves in the opposite direction to the broader market. (Learn more in [Beta: Know The Risk.](#))

For public companies, you can find database services that publish betas of companies. Few services do a better job of estimating betas than BARRA. While you might not be able to afford to subscribe to the beta estimation service, this site describes the process by which they come up with "fundamental" betas. Bloomberg and Ibbotson are other valuable sources of industry betas.

- $(R_m - R_f) = \text{Equity Market Risk Premium}$  - The equity market risk premium (EMRP) represents the returns investors expect to compensate them for taking extra risk by investing in the stock market over and above the risk-free rate. In other words, it is the difference between the risk-free rate and the market rate. It is a highly contentious figure. Many commentators argue that it has gone up due to the notion that holding shares has become more risky.

The EMRP frequently cited is based on the historical average annual excess return obtained from investing in the stock market above the risk-free rate. The average may either be calculated using an arithmetic mean or a geometric mean. The geometric mean provides an annually compounded rate of excess return and will in most cases be lower than the arithmetic mean. Both methods are popular but the arithmetic average has gained widespread acceptance.

Once the cost of equity is calculated, adjustments can be made to take account of risk factors specific to the company, which may increase or decrease company's risk profile of the company. Such factors include the size of the company, pending lawsuits, concentration of customer base and dependence on key employees. Adjustments are entirely a matter of investor judgment and they vary from company to company. (Learn more in *The Capital Asset Pricing Model: An Overview.*)

Compared to cost of equity, cost of debt is fairly straightforward to calculate. The rate applied to determine the cost of debt ( $R_d$ ) should be the current market rate the company is paying on its debt. If the company is not paying market rates, an appropriate market rate payable by the company should be estimated.

As companies benefit from the tax deductions available on interest paid, the net cost of the debt is actually the interest paid less the tax savings resulting from the tax-

deductible interest payment. Therefore, the after-tax cost of debt is  $R_d$  (1 - corporate tax rate).

The WACC is the weighted average of the cost of equity and the cost of debt based on the proportion of debt and equity in the company's capital structure. The proportion of debt is represented by  $D/V$ , a ratio comparing the company's debt to the company's total value (equity + debt). The proportion of equity is represented by  $E/V$ , a ratio comparing the company's equity to the company's total value (equity + debt). The WACC is represented by the following formula:  $\text{WACC} = R_e \times E/V + R_d \times (1 - \text{corporate tax rate}) \times D/V$ .

A company's WACC is a function of the mix between debt and equity and the cost of that debt and equity. On one hand, in the past few years, falling interest rates have reduced the WACC of companies. On the other hand, the spate of corporate disasters like those at Enron and WorldCom have increased the perceived risk of equity investments.

### **3.4 Description of cost of equity, the capital asset pricing model approach, the dividend discount model approach**

The capital asset pricing model (CAPM) is a model that portrays the connection between methodical hazard and expected return for resources, especially stocks. CAPM is generally utilized all through fund for the estimating of unsafe securities, creating expected returns for resources given the danger of those benefits and ascertaining expenses of capital.

The equation for ascertaining the normal return of a benefit given its hazard is as per the following:

The general thought behind CAPM is that financial specialists should be remunerated in two ways: time estimation of cash and hazard. The time estimation of cash is spoken to by the hazard free ( $rf$ ) rate in the recipe and repays the speculators for putting cash in any venture over some stretch of time. The hazard free rate is generally the yield on government securities like U.S. Treasuries.

The other portion of the CAPM equation speaks to chance and ascertains the measure of pay the financial specialist requirements for going out on a limb. This is figured by going for broke measure (beta) that analyzes the profits of the advantage for the market over some stretch of time and to the market premium ( $R_m - rf$ ): the arrival of the market in abundance of the hazard free rate. Beta reflects how hazardous a benefit is contrasted with general market chance and is a component of the instability of the advantage and the market and in addition the connection between's the two. For stocks, the market is typically spoken to as the S&P 500 however can be spoken to by more strong records also.

The CAPM show says that the normal return of a security or a portfolio measures up to the rate on a hazard free security in addition to a hazard premium. In the event that this normal return does not meet or beat the required return, at that point the speculation ought not be attempted. The security showcase line plots the aftereffects of the CAPM for every single diverse hazard (betas).

Utilizing the CAPM demonstrate and the accompanying suppositions, we can figure the normal return for a stock:

The hazard free rate is 2% and the beta (chance measure) of a stock is 2. The normal market return over the period is 10%, so implies that the market hazard premium is

8% (10% - 2%) in the wake of subtracting the hazard free rate from the normal market return. Connecting to the former qualities into the CAPM recipe above, we get a normal return of 18% for the stock:

$$18\% = 2\% + 2 \times (10\% - 2\%)$$

The cost of value is the arrival an organization requires to choose if a venture meets capital return necessities. It is frequently utilized as a capital planning limit for required rate of return. An association's cost of value speaks to the remuneration the market requests in return for owning the benefit and bearing the danger of possession. The customary equations for cost of value (COE) are the profit capitalization demonstrate and the capital resource evaluating model.

The cost of value alludes to two separate ideas relying upon the gathering included. On the off chance that you are the financial specialist, the cost of value is the rate of profit required for an interest in value. In the event that you are the organization, the cost of value is utilized to decide the required rate of profit for a specific venture or speculation.

There are two manners by which an organization can raise capital: obligation or value. Obligation is modest, yet it must be paid back. Value does not should be paid back, but rather it for the most part costs more than obligation because of the assessment points of interest of intrigue installments. Despite the fact that the cost of value is higher than obligation, value by and large gives a higher rate of return than obligation. Investigators figure the cost of value with the profit development show and the capital resource evaluating model (CAPM).

The profit development show is utilized to ascertain the cost of value, however it requires that an organization pays profits. The computation depends on future profits. The hypothesis behind the condition is the organization's commitment to pay profits

is the cost of paying investors and in this way the cost of value. This is a restricted model in its understanding of expenses. The capital resource evaluating model, be that as it may, can be utilized on any stock regardless of whether the organization does not pay profits. So, the hypothesis behind CAPM is more confounded. The hypothesis recommends the cost of value depends on the stock's instability and level of hazard contrasted with the general market.

The CAPM recipe is: Cost of Equity = Risk-Free Rate of Return + Beta \* (Market Rate of Return - Risk-Free Rate of Return).

In this condition, the hazard free rate is the rate of profit paid for chance free ventures, for example, Treasuries. Beta is a measure of hazard ascertained as a relapse on the organization's stock cost. The higher the unpredictability, the higher the beta and relative hazard contrasted with the general market. The market rate of return is the normal market rate, which has for the most part been thought to be 11 to 12% in the course of recent years. All in all, an organization with a high beta, that is, an organization with a high level of hazard, will pay more to get value.

## **Conclusion**

This study has examined and focused the issues such as the importance of NPV and IRR analysis in decision making towards investment growth. It is not focused only NPV and IRR, it also took account other analysis tools, such as weighted average cost, capital asset pricing method, etc.

Due to the results of the research, we found out that, global accepted trends and practices are important towards investment growth. Investment growth in corporations lead to general growth in economy of the country. Therefore, good investment decisions increase not only finance of investors, it also serves to welfare of the country.

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