

3. The Balance Sheet

A red pencil with a sharpened wooden tip is positioned diagonally from the top left, pointing towards the text. The pencil's body is a vibrant red, and the tip is a light-colored wood with a small red mark at the very point.

Balance Sheet

3.1 Cash and Internal Controls

3.2 Valuation of Accounts/Notes Receivable (Including Bad Debts)

3.3 Valuation of Inventories

3.4 Acquisition and Disposal of Long- Term Assets

3.5 Depreciation/ Amortization/ Depletion

**3.6 Intangible Assets
(e.g., Patents,
Goodwill, etc.)**

**3.7 Accounts and
Notes Payable**

**3.8 Long-Term
Liabilities (e.g.
Bonds Payable)**

3.9 Owner's Equity

3.10 Preferred and Common Stock

3.11 Retained Earnings

3.12 Liquidity, Solvency, and Activity Analysis

3.12 Summary

3.1 Cash and Internal Controls



RIGHT GREAT

QUALITY COMPLIANCE

- **As stated, Cash is generated from various sources.**

- **Since cash is an asset acquired and generated from business activity, internal controls must be attributed and created**

- **As mentioned previously, this is for compliance purposes, which are regulated**

- **Nonetheless, this implementation allows for an increase in:**

Profit



- **There are other reasons to possess Internal Controls, besides safeguarding assets such as Cash:**

- **Accurate financial statements:**

- **Adherence to policies:**
- **Legal protection:**

- **Separate accounting from operations:**
- **Separate accounting from custody of assets:**

3.2 Valuation of Accounts/Notes Receivable (Including Bad Debts)

3.2.1 Valuation of Accounts Receivable

3.2.2 Valuation of Notes Receivable (Including Bad Debts)

3.2.1 Valuation of Accounts Receivable

Balance Sheet

ASSET

Current asset

Cash

Accounts receivable

Inventory

Prepaid expenses

Other current assets



- **Accounts receivable (universally abbreviated as A/R), is a Control Account**

- **This A/R Control Account contains the amounts that all customers owe the business.**

- **Elements include:**

- **Sell on account:**

- **Collect from customers:**

- **Warning of uncollectability:**

- **Accrual accounting:**

- **A Write-off:**
- **Estimate uncollectible accounts:**

- **May include allowance for doubtful accounts:**

- **Contra-asset account:**

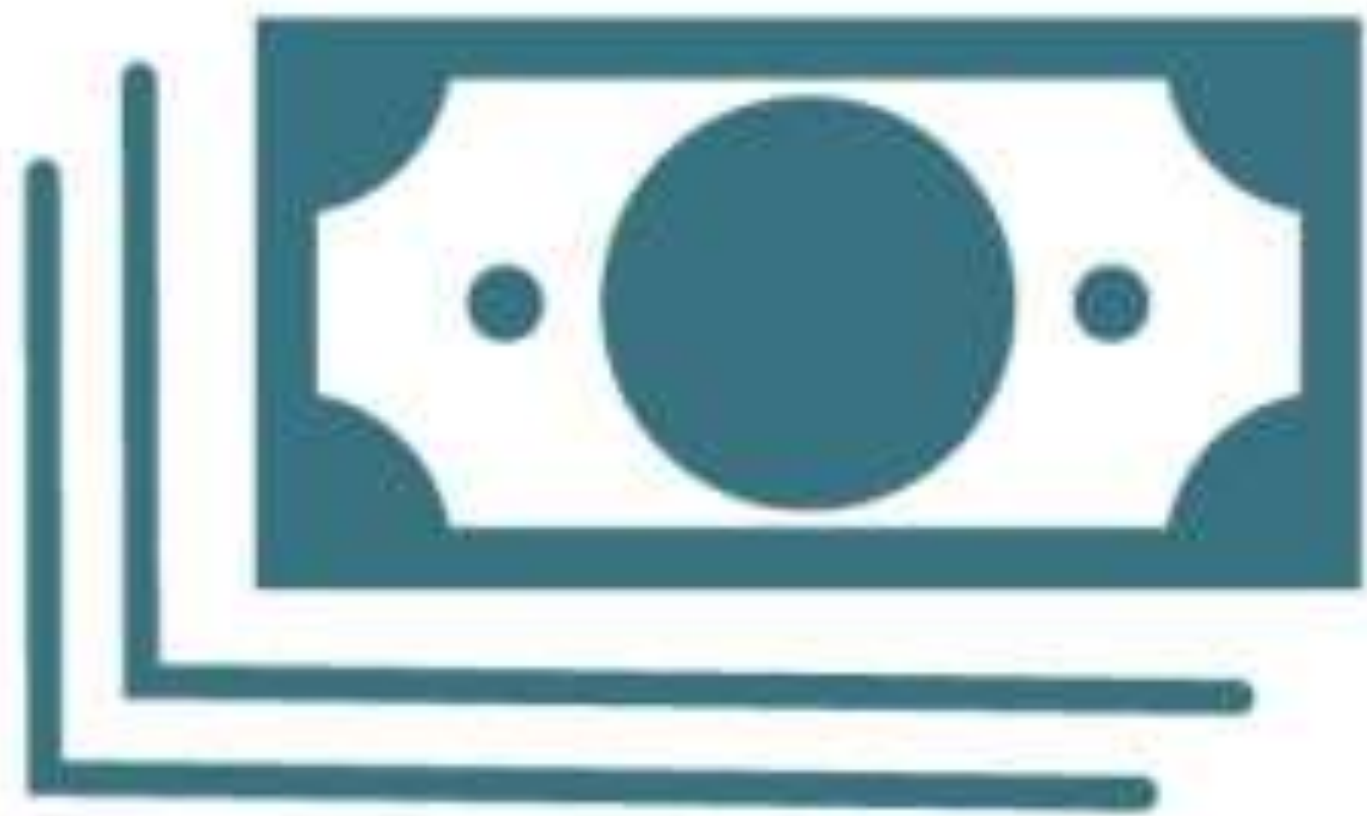
- **It measures the decrease in the value of accounts receivable.**

- **Percentage of accounts receivable method:**

- **The method of estimating the allowance for uncollectible accounts.**

- **The equation is:**
 $A/R \times Est\% = \text{What allowance should be} -$
What allowance is
 $= \text{Adjustment}$

3.2.2 Valuation of Notes Receivable (Including Bad Debts)



BANKNOTES

- **Notes receivable are a current asset when they mature within one year.**

- **Notes are recorded at their present value of each dollar amount.**

- **To discount a note is to sell a note to a bank that subtracts a discount**

- **Discounting gives the seller the proceeds.**

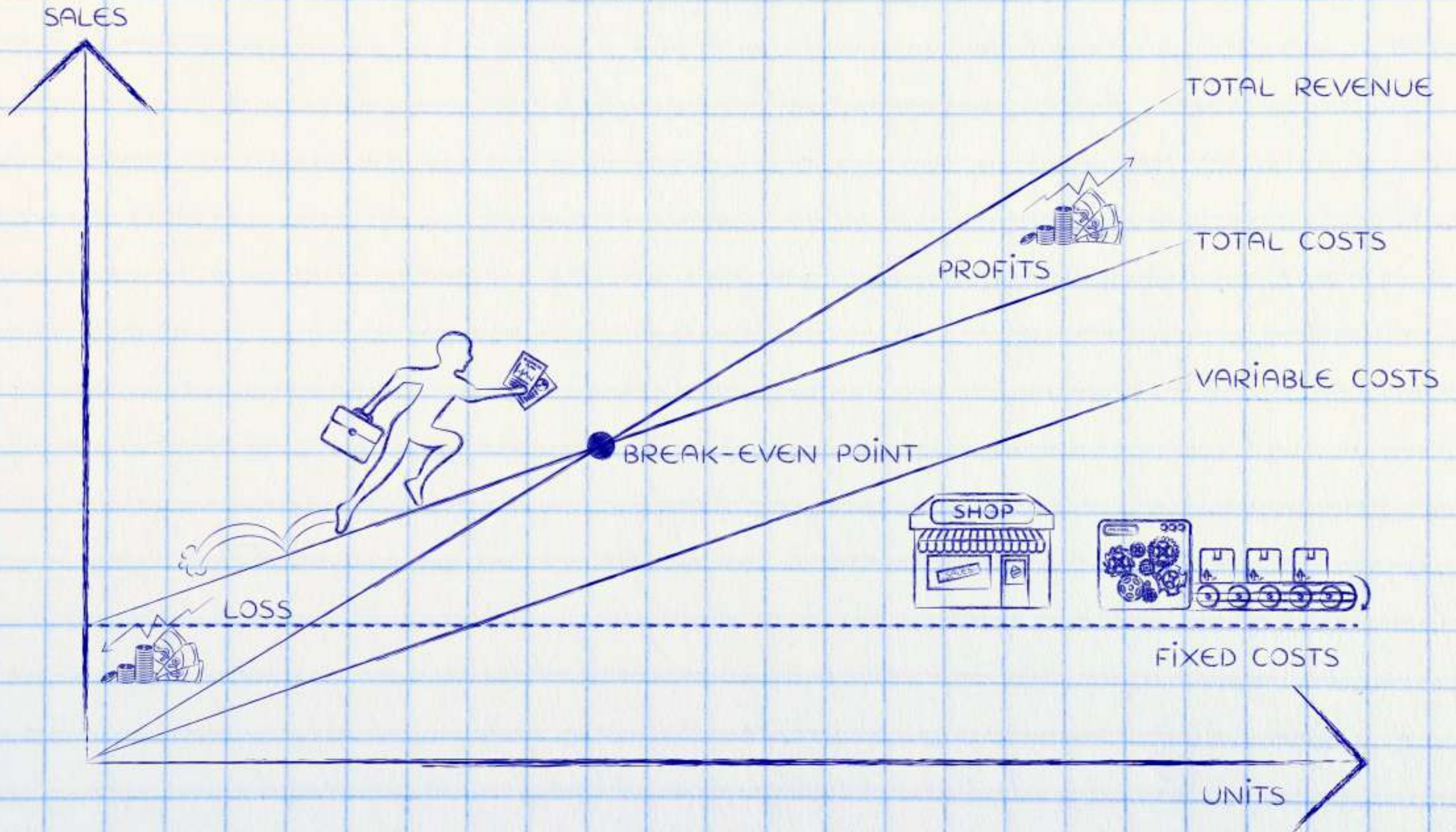
- **Components of a Note Receivable:**

Face amount:

Face interest:

- **Future value of a note:**

- **Interest-bearing note:**



3.3 Valuation of Inventories



COST OF
OWNERSHIP

- **Inventory Valuation is the dollar amount associated with the items contained in a company's inventory**

- **Also the cost of the items defined as all of the costs necessary to get the inventory items in place and ready for sale.**

- **Inventory valuation will include the costs of:**

- **Production**
- **Materials**
- **Labor**
- **Overhead**

- **Methods to Track Inventory:**

- **Periodic inventory method:**

- **Perpetual inventory method:**

- **Days in Inventory:**

- **Inventory turnover:**

3.4 Acquisition and Disposal of Long-Term Assets

3.4.1 Acquisition of Long-Term Assets

3.4.2 Disposal of Long-Term Assets

3.4.1 Acquisition of Long-Term Assets

- **Long-term assets may also known as Plant assets, Capital assets or Fixed assets**

- **These are assets that have a life longer than one year.**

- **Long-term assets, by in large, allow for the transition of Capital.**
- **These assets that help a business or a person make money.**

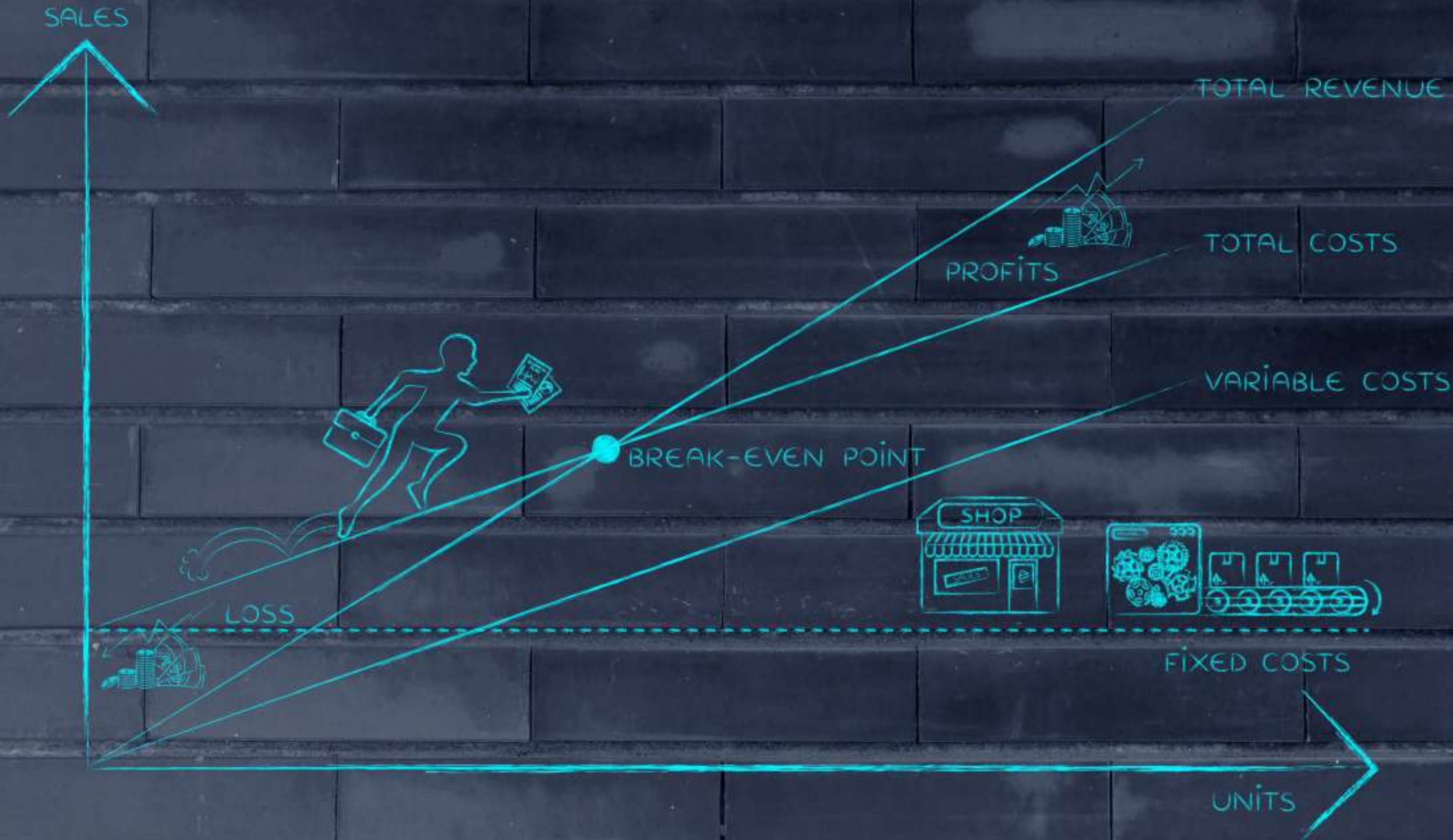
A hand is shown in the foreground, pointing towards the right. The background is a blurred image of a person wearing a white lab coat, suggesting a medical or scientific setting. The text 'CAPITAL ASSETS' is prominently displayed in the center-right of the image.

CAPITAL ASSETS

- **Long-term assets, as well as money, are changed into another asset that helps the business make money**

- **This is when an asset is termed Capitalized.**

3.4.2 Disposal of Long-Term Assets



- **A business can dispose an asset by selling it.**
- **However, one must know the value, as it is needed**

- **Book value (BV):**
The book value of an asset is the historical cost, i.e. on the books at less accumulated depreciation for that asset.

A roll of yellow paper is unrolled, revealing the text "ASSET DEPRECIATION" printed in a bold, white, serif font. The paper is set against a dark, textured background. The roll of paper is positioned on the right side of the frame, with the unrolled portion extending towards the left. The text is centered on the unrolled portion of the paper.

ASSET DEPRECIATION

- **The formula for computing the gain or loss on the disposal of an asset is:**

- **Amount received –
Book value give up =
Gain or Loss**

BALANCE SHEET FOR THE YEAR ENDING 31ST DECEMBER, 1893.

RECEIPTS.	£	s.	d.		EXPENDITURE.	£	s.	d.
To Balance in Bank 31st December, 1892—					By Exploration	383	7	3
Net Balance	£390	10	1		Printing and Binding, including the <i>Quarterly Statement</i>	518	1	4
Subscriptions paid in 1892 in advance for 1893	23	0	10		Maps, Lithographs, Illustrations, Photographs, Casts, and Slides	385	7	11
	413	10	11		Management, including Rent, Salaries, Wages, Advertising, Insurance, Stationery, and Sundries	628	18	2
Donations and Subscriptions	1,574	14	5		Postage and Carriage of <i>Quarterly Statements</i> , Books, Maps, Parcels, &c.	137	19	6
Proceeds of Lectures	16	12	1		Liabilities paid off during the year	218	9	4
Sales of Maps	252	9	10		Subscriptions paid in 1893 in advance for 1894	£20	14	0
Sales of Books published by the Society	364	4	1		Net Balance	397	13	10
Sales of Photographs, Casts, and Slides	69	0	0			418	7	10
					Balance in Bank 31st December, 1893	418	7	10
	£2,690	11	4			£2,690	11	4

Examined and found correct,
W. MORRISON, *Treasurer.*

3.5 Depreciation/Amortization/Depletion

3.5.1 Depreciation

3.5.2 Amortization

3.5.3 Depletion

3.5.1 Depreciation

Depreciation



- **Depreciation is the official name for a type of expense**

- **This expense which is the recording of the amount of long-lived assets used up during business operations**

- **It is must be allocated for future financial periods.**

- **Depreciation is not an attempt to show the decline in the value of assets.**
- **Some assets, like buildings, may actually appreciate during the year.**

Is A Chinese Depreciation
Still A Threat To Global
Markets?

Yes

No



- **Let's remember:**

- **Businesses depreciate all fixed assets (except land) every year.**
- **Depreciation is not money set aside to replace aging assets.**

3.5.2 Amortization

AMORTIZATION



- **Amortization is also an expense**

- **Amortization is the amount of an intangible asset is used up during the period.**

THE CO

AMORTIZATION SCHEDULE FOR MONTHLY PAYMENTS

Number of Years

5	6	7	8	9	10	11
.0152	.0132	.0117	.0106	.0097	.0099	.0099



- **The credit for amortization directly lowers intangible asset**

- **There is no accumulated amortization account.**

+278

23

18

71,23

522/4

130,5

Loan

Amortization

- **Bottom line, to be fully amortized, an intangible asset's total cost will have been allocated to past fiscal periods**

3.5.3 Depletion

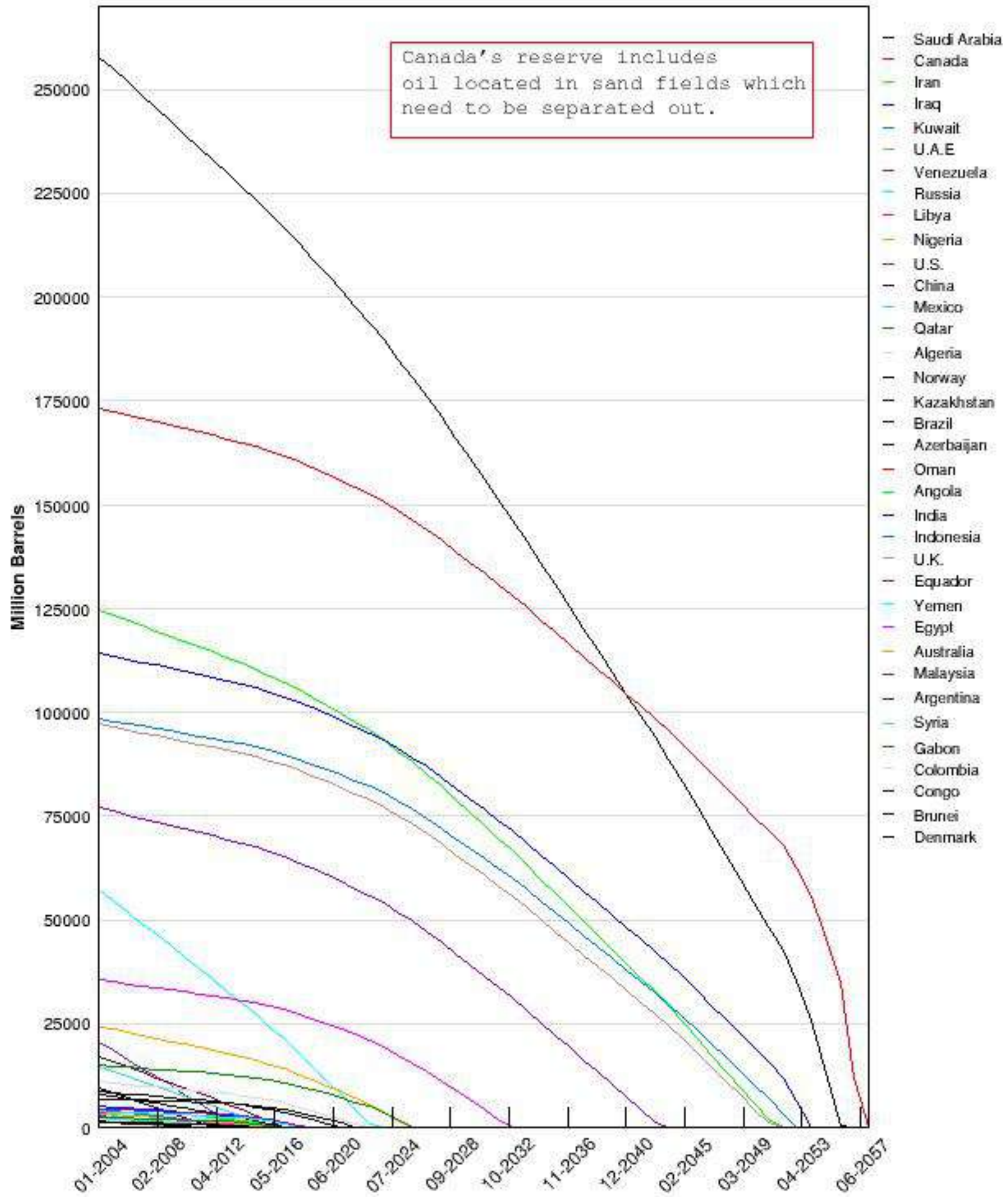


- **Depletion is another expense**

- **It is where the amount of a natural resource is used up during the financial period.**

World Oil Depletion Per Major Producer

Reserves: 1,250B; Depletion: 23.3B/year; Source: 'National Geographic' 6/2004



- **Book value = Zero**

- **They are also contra-asset accounts which get subtracted from other accounts.**



**EARNINGS BEFORE
INTEREST TAXES
DEPRECIATION AND
AMORTIZATION (EBITDA)**

3.6 Intangible Assets (e.g. Patents, Goodwill, etc.)

A close-up photograph of a computer keyboard. In the foreground, a brown folder tab is visible, with a white label that reads "Intangible Assets" in a black, typewriter-style font. The background shows several keyboard keys, including the semicolon/underscore key, the double quote/underscore key, the enter/return key, and the question mark/slash key. The lighting is soft, and the focus is sharp on the folder tab and the keyboard keys immediately behind it.

Intangible Assets

- **Intangible assets have no physical form, yet they offer value to the business for a long time.**

- **The total cost of an intangible asset is everything necessary to make it useful.**



- **Examples of types of costs that often end up in intangible assets are:**

- **Legal fees, design, artwork, engineering, software, franchise contracts, and marketing programs**

- **FACT:**

- **If the life of an intangible asset is known, such as a franchise term or a copyright limit, then the cost of the intangible asset is spread over the useful life (not legal life)**

Knowledge

Creativity

Trademarks

Brands

Idea

Talent

Patent

**INTANGIBLE
ASSETS**

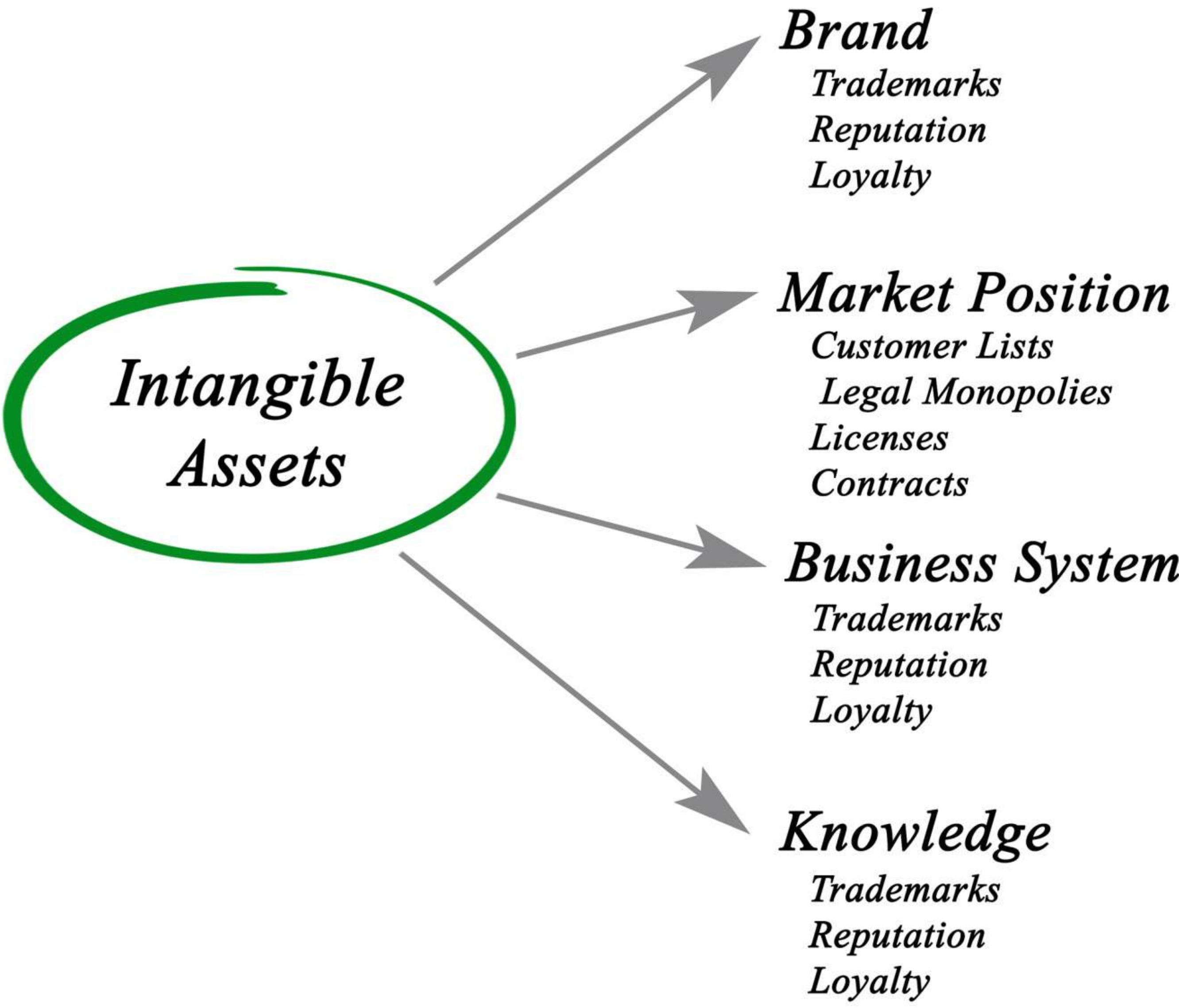


- **Some intangible assets have indefinite lives.**

- **They are not amortized.**
- **In the future, if these intangible assets are impaired (lose their value)**
- **They are written down.**
- **They are never written up.**

- **Patents: The exclusive right to produce and sell an invention.**
- **The legal right may be 20 years, but the useful life may be shorter.**

- **Copyrights: The exclusive right to publish, perform, or reproduce music, art, film, books, or software.**



- **Legal life can be more than 100 years, but the opportunity to make money from the copyright may be 3 to 5 years.**

- **Trademarks and trade names: Special identifications that are protected against infringement.**
- **Many have indefinite lives.**

- **Goodwill: The extra cost a business pays for another business as recognition for being unusually profitable.**
- **It has an indefinite life.**

- **Franchises and licenses: Contracts or government grants that give the owner special rights.**
- **Many have indefinite lives.**

3.7 Accounts and Notes Payable

Accounts Payable



3.7.1 Accounts Payable

3.7.2 Notes Payable

3.7.1 Accounts Payable

- **Accounts payable, or (A/P), is a liability account.**

- **Even though no cash changes hands, Accounts Payable gets credited due to an accrual occurring.**

3.7.2 Notes Payable

- **Payment on a note is exhibited when a business or a person borrows money**

- **In writing states a promise to pay in the money back in the future.**

- **The amount borrowed, or the principal, separate from the interest, if any, is called the Present Value of a Note.**
- **Once paid, this must be credited on the sheet.**



- **A note can be defaulted on.**
- **All bank agreements require the discounter to guarantee collection on the note.**

3.8 Long-Term Liabilities (e.g. Bonds Payable)

CORPORATE
BOND

GOVERNMENT
BOND

FIXED
INCOME

BOND MARKET

MUNICIPAL
BOND

HIGH
YIELD
DEBT

BOND
VALUATION

- **Liabilities, a core component of the accounting equation as we now know, can often be viewed as Long-Term.**

- **Also, as stated, the liabilities possess a separate and important section on the statement.**

- **Credits are stored in the liability section, often broken it into two accounts:**

- **Deferred warranty revenues, as current, and;**
- **Deferred warranty revenue, as long-term.**

- **Later, such credits will move to the revenue section as they will not always last as long-term liabilities.**

- **Bonds are also within the long-term liability category.**

- **Bonds are a way to borrow large amounts of money from a large number of people.**



Treasury Bonds



bonds (T-Bonds, or have a

- **The normal four-step process is as follows:**

- **Step 1. A corporation (or a government) prints up a number of paper bond**

- **Step 2. The corporation sells the bonds.**

- **Step 3. The corporation makes regular cash payments on the payment dates**

- **Step 4. On the maturity date, the corporation pays the bondholder the face amount.**

ust
ate deb
Cor
al paper
nmerc

Corporate Bonds

bond is a bond issued by
as to ongoin



- **The bondholder is the current investor in the bond.**

- **The bond payable account and the discount on bonds payable are both in the long-term debt section of the balance sheet.**

- **A discount has a debit normal balance because it is a contra-liability account.**
- **It represents a reduction of the bond liability.**



		4581.21
		3452.20
		4574.52
		7581.21
		452.20
		7825.66
		3285.20
		758
		6035.
		1255.1.



Municipal Bonds

count
municipal

high
bond is a
ce its cap

- **For example, a \$1,000,000 bond payable, less a \$106,775 discount, represents the bond book value, or the true liability, of \$893,225 ($1,000,000 - 106,775$).**

- **If the company wanted to eliminate this debt, it could buy the bonds back for the same price of \$893,225.**

Bonds



3.9 Owner's Equity

property
cash
shareholder
net worth
inventories
owner's equity
formula
capital
comparison
stock
assets
year
equipment
expenses
corporation
bondholders

BALANCE SHEET

financial accounting
summary
money
business
future
liabilities
snapshot
finance
acquire
unearned
cost basis
tax
withdraws
partnership
services
earnings
receivables
position
revenue
periods

- **Owner's equity is the official name for the owner's claim on the assets in the business.**

- **The statement of owner's equity contains net income from the income statement, and that number covers a period of time**

- **Therefore, the statement of owner's equity covers the same period of time as the income statement.**

The equation of the statement of owner's equity is always the same:

3.10 Preferred and Common Stock



3.10.1 Preferred Stock

3.10.2 Common Stock

3.10.1 Preferred Stock

PREFERRED STOCK

The image features a man in a dark suit and tie, pointing his right index finger upwards. A white rectangular box with a thin border is superimposed over his hand and the text 'PREFERRED STOCK' is written in large, bold, white capital letters inside the box. The background is a complex digital collage. On the left, there is a faint world map. In the center and right, there are various financial charts: a line graph with an upward trend, a bar chart, and a candlestick chart. A circular gauge with the number '82%' is visible near the man's hand. The entire scene is set against a dark blue background with a network of white lines and scattered binary code (0s and 1s).

- **Corporations may wish to attract more cautious investors by issuing preferred stock.**
- **Preferred stock is stock with special privileges.**

- **Corporations have total freedom to mix and match these privileges to suit investors.**

11100DY'S

- **Preferred stock commonly has a steady price**

- **It does not go up when the corporation does well, nor does it drop much when the company does poorly.**

- **Preferred stockholders usually do not get to vote in stockholder meetings**

NUMBER
383

THE COLUMBUS SOUTHERN

100
SHARES

Railway



Company.

This Certifies that _____ *is the*
holder of One hundred shares of the full paid Preferred Capital Stock of THE COLUMBUS SOUTHERN RAILWAY COMPANY,
of the par value of One Hundred Dollars each, transferable only on the books of said Company in person
or by Attorney upon surrender of this certificate.

This preferred stock shall be entitled to receive from the net earnings of the Company dividends not exceeding five per centum per annum, non-cumulative in any fiscal year that the Company may have net earnings applicable to dividends before any dividend whatsoever shall be declared on the Common Stock; and whenever the net earnings applicable to the payment of dividends shall be in excess of the sum required to pay a dividend of five percent on the Preferred and Common Stock for the current year, such surplus shall be divided pro rata between the Preferred and Common Stock.

In Witness Whereof the said Company has caused this certificate to be signed by its President and Treasurer
this _____ *day of* _____ *18* _____

Treasurer

President

SHARES \$100 EACH

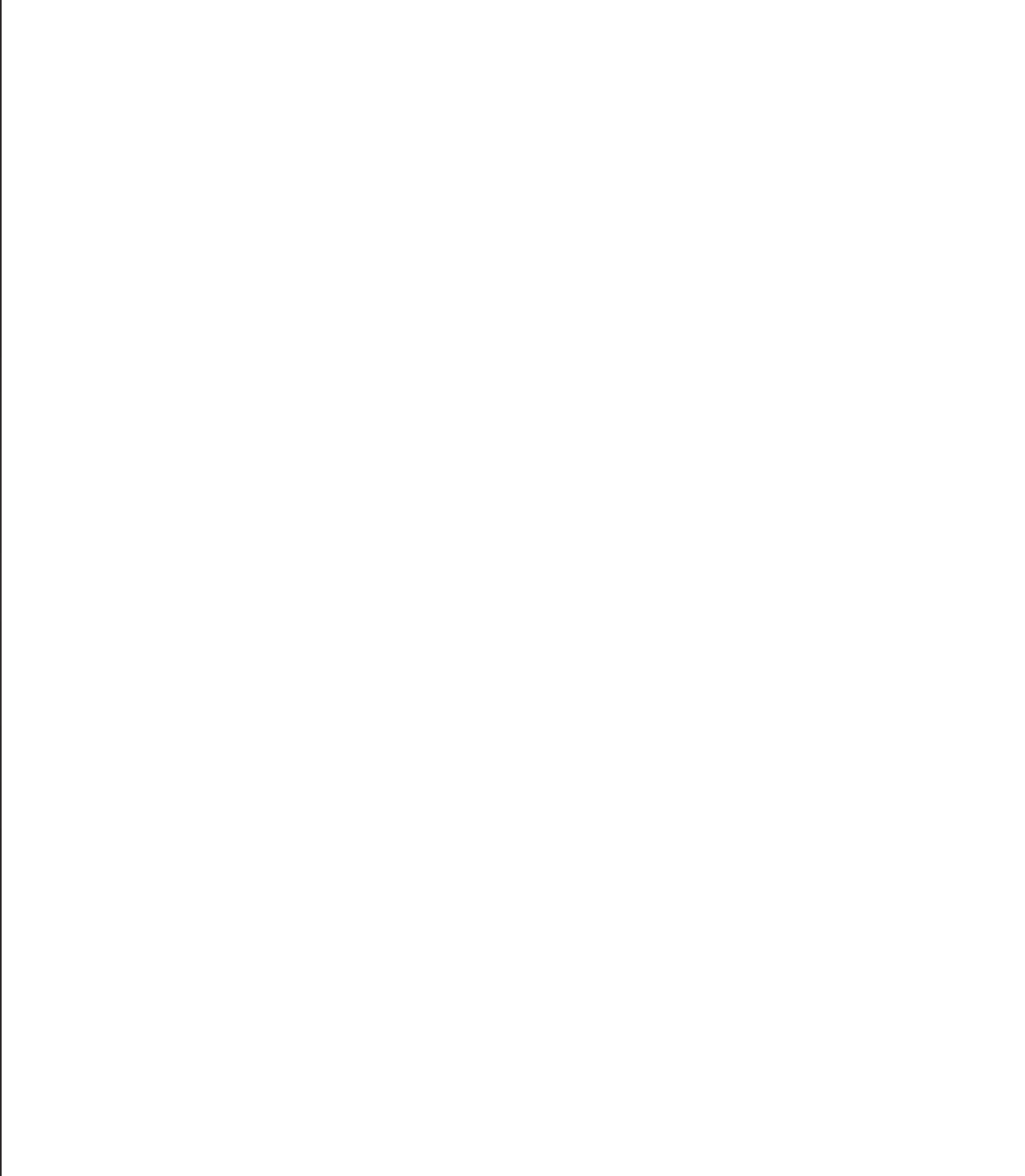
- **Examples of privileges for preferred stockholders are:**

- **The first right to cash dividends before common stockholders**

- **The right to participate in corporate profits the same as common stockholders**

- **The right to be paid dividends in arrears if years go by without paying a dividend**

- **The right to convert preferred stock into common stock**



3.10.2 Common Stock

- **Corporation law grants to common stockholders certain rights:**

- **Right to vote**
- **Right to share in dividends**

- **Right to a certain percentage of the corporation upon liquidation**

- **The preemptive right, which is the choice to buy a portion of each new issuance of stock in order to maintain the same ownership percentage**

- **Common Stock:**

COMMON STOCK

NUMBER
A265068



SHARES
5

The Baltimore and Ohio Railroad Company

Incorporated by the State of Maryland, February 28, 1827.

This Certifies that *Joost, Patrick & Co*
— FIVE —

the owner of _____ shares of the
par value of One Hundred Dollars each, full paid and non-assessable, of the Common Capital Stock of the Baltimore and
Ohio Railroad Company, transferable only on the books of the Company at its transfer office by the holder hereof in person or
by duly authorized attorney upon the surrender of this certificate. The holders of Preferred Capital Stock to the amount of Sixty
Million Dollars (\$60,000,000) now issued and such additional amounts as may be lawfully issued from time to time by the
President and Directors of the Company pursuant to the resolutions of the stockholders duly adopted (April 11, 1899) are entitled
to receive in each year out of the surplus net profits of the Company for the current year such yearly dividend (non-cumulative)
as the Board of Directors of said Railroad Company may declare up to but not exceeding four per centum, before any dividends
shall be set apart or paid upon the Common Stock. In Witness Whereof, the said Company has caused this Certificate to be signed
by its duly authorized officers this **OCT 14 1927**

[Signature]
REGISTERED,
BANKERS TRUST COMPANY, INC.
OCT 15 1927

[Signature]
TRANSFER AGENT

[Signature]
FOR THE SECRETARY

ONE UNIT
1 1
2 2
3 3
4 4
5 0
6 6
7 7
8 8
9 9
0 0
ONE UNIT

SHARES \$100. EACH

- **Every corporation must have common stock.**
- **Common stock represents the basic ownership of a corporation.**

- **Sometimes corporations issue a second class of common stock (normally called Class B Common Stock) with different rights than Class A Common Stock.**

S & P 500

The image features the text "S & P 500" rendered in a bold, gold-colored, three-dimensional font. The characters are placed on a dark, textured wooden surface with prominent grain patterns. The lighting is dramatic, coming from the upper left, which casts soft shadows and highlights the metallic sheen of the letters. The overall composition is a close-up, angled shot that emphasizes the texture of the wood and the depth of the characters.

3.11 Retained Earnings

RETAINED
EARNINGS

- **Retained earnings are located in the equity account in a corporation**

- **Retained earnings contain all the earnings all the corporation has ever earned**

- **However, they have not yet distributed to stockholders.**

3.12 Liquidity, Solvency, and Activity Analysis

3.12.1 Liquidity Analysis

3.12.2 Solvency Analysis

3.12.3 Activity Analysis

3.12.1 Liquidity Analysis

Liquidity Ratio



- **Liquidity is defined as the ability of a company to meet its financial obligations as they come due.**

- **It also allows for a capability to sell assets quickly to raise cash.**

- **An analysis of liquidity, or the ratio of paying all financials outright, is a computation.**

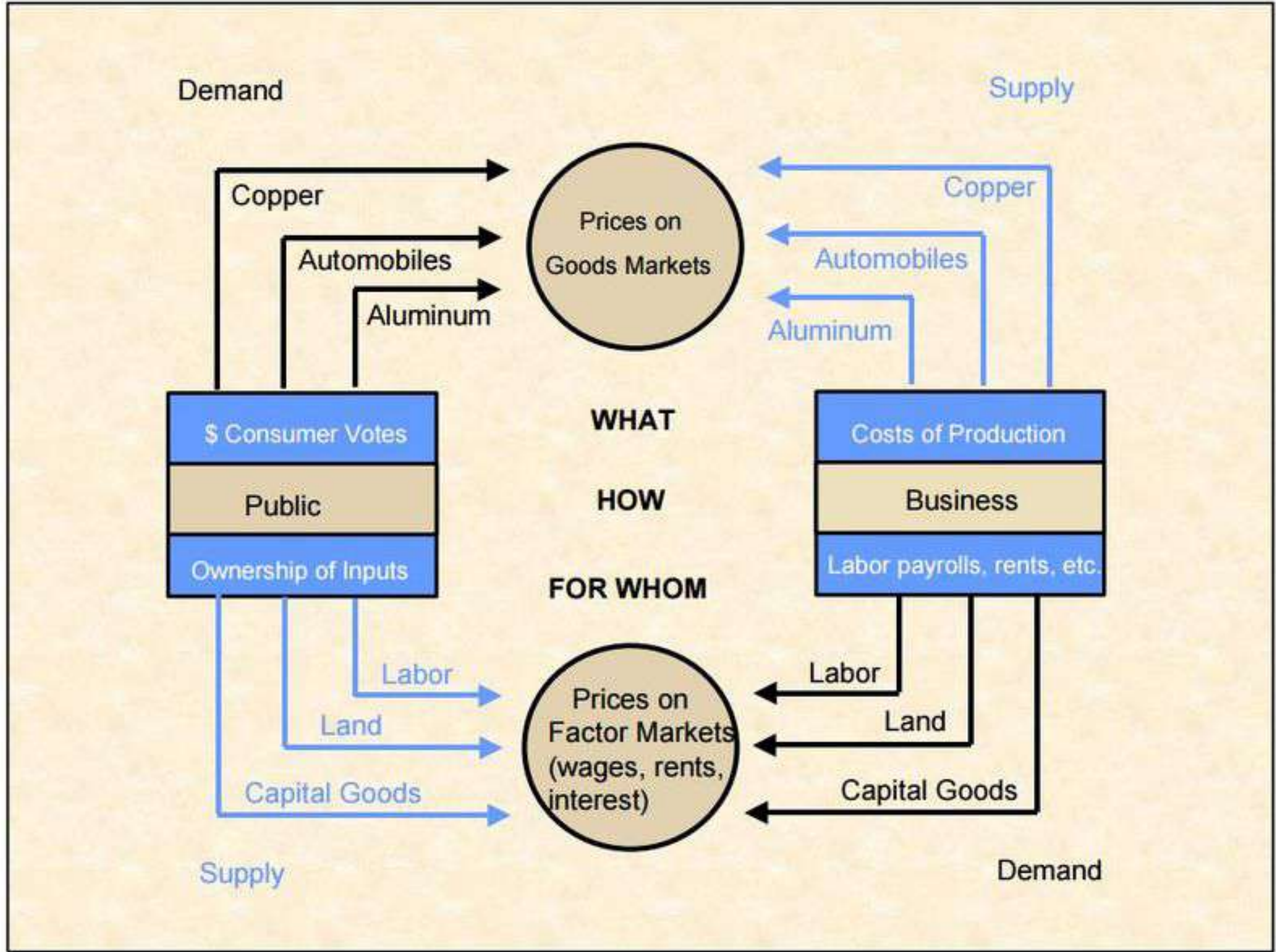
- **This computation is used to measure a company's ability to pay its short-term debts.**

- **Investors often take a close look at liquidity ratios when performing fundamental analysis on a firm.**



- **If a company is having trouble meeting its short-term debt, it is at a higher risk of bankruptcy.**

- **Liquidity ratio analysis are a good measure of whether a company will be able to continue as a operational entity.**



3.12.2 Solvency Analysis

SOLVENCY

- **Solvency is the ability of a company to meet its long-term financial obligations, primarily, as opposed to short-term.**

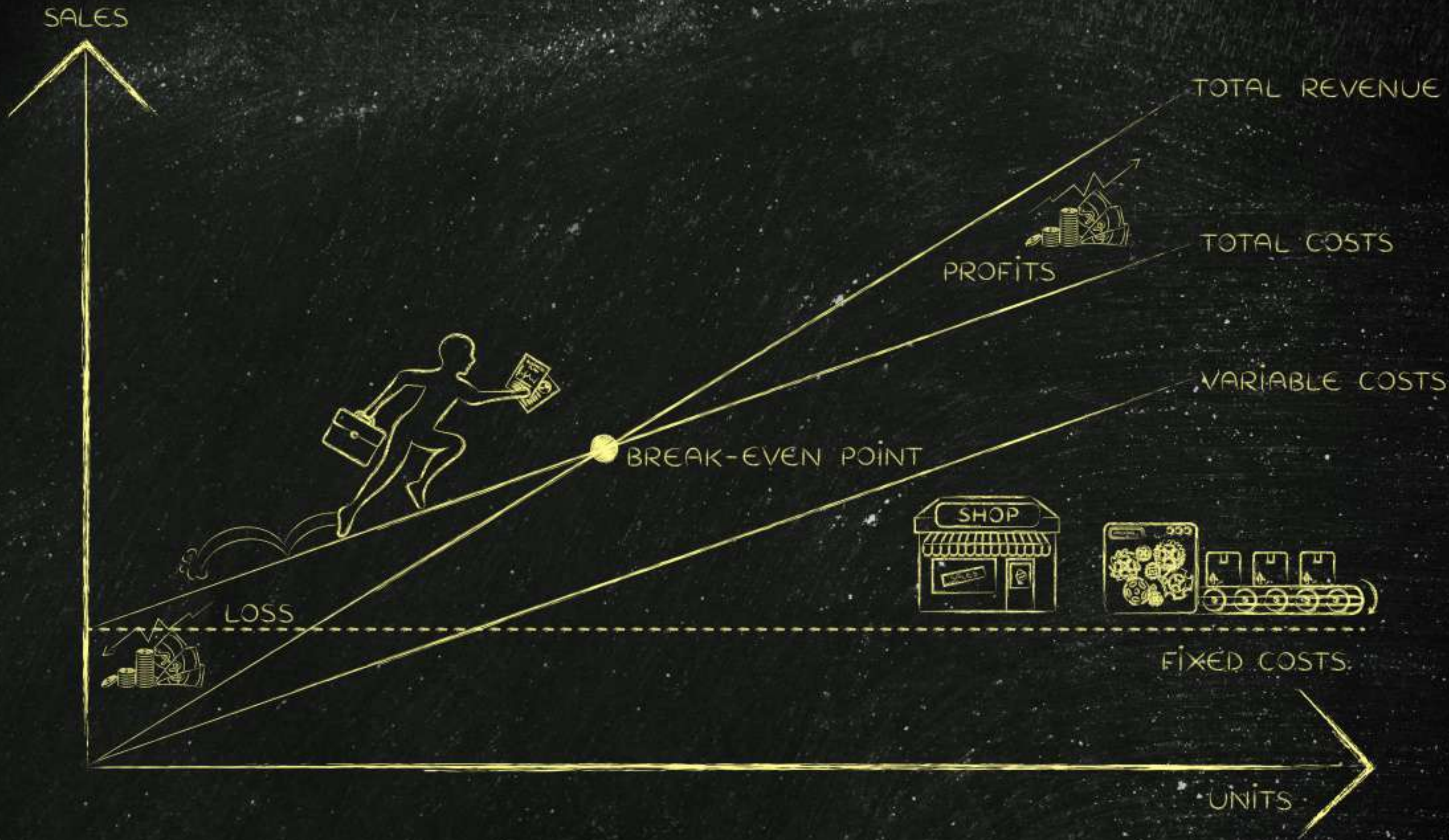
- **The Analysis of Solvency is used to measure an enterprise's ability to meet its debt obligations.**

- **The solvency ratio analysis indicates whether the lower a company's solvency ratio, the greater the probability that it will default on its debt obligations.**

- **The measure is usually calculated as follows:**

- **Solvency Ratio = Net
Income +
Depreciation**
 - **Divided by**
- **Short-term Liabilities
+ Long-term
Liabilities**

3.12.3 Activity Analysis



- **Activity ratios are financial analysis tools**

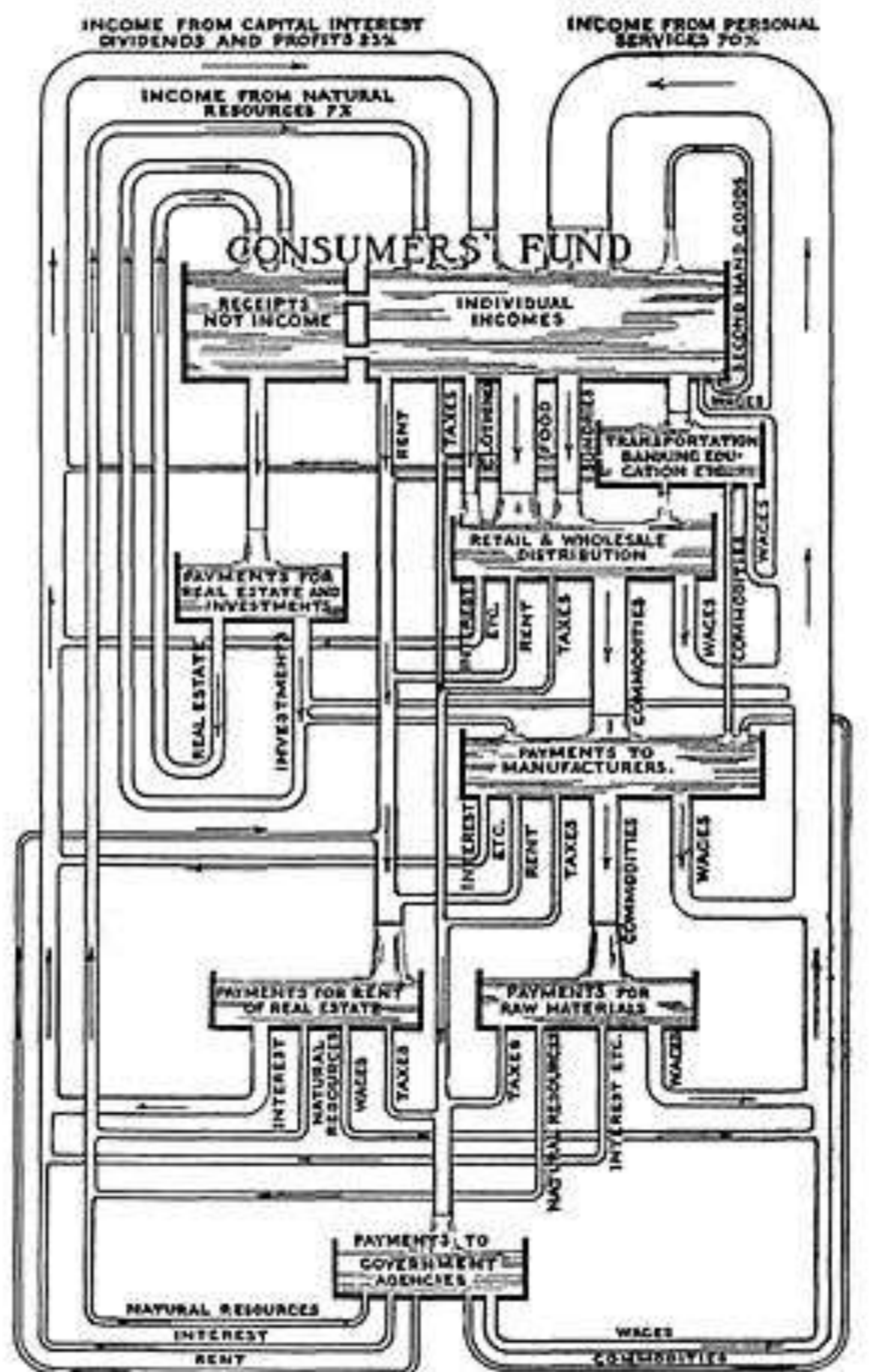
- **Measure the ability of a business to alter various asset, liability and capital accounts into cash, or sales.**



Capital Surplus

- **The faster a business is able to convert its assets into cash or sales, operations run better.**

THE CIRCUIT FLOW OF MONEY



3.13.1 Summary

Inventory Valuation:

The dollar amount associated with the items contained in a company's inventory

- **Can be separated into the cost of the items in place and ready for sale.**

Inventory valuation will include the costs of:

- **Production**
- **Materials**
- **Labor**
- **Overhead**

- **Methods to Track Inventory: Two Primary**

Periodic inventory method:

- **keeps track of merchandise costs in various purchases, then computes cost of goods sold on the income statement.**

Perpetual inventory method:

- **increases the inventory account with every purchase, and lowers the inventory account with every sale.**

3.13.2 Summary

Days in Inventory:

- **Measures the average number of days before merchandise sells.**

Inventory turnover:

- **Measures the number of times inventory completely sells per year.**

FIFO:

- **Accounting method: first in, first out**
- **Cost of inventory on balance sheet represents the inventory most recently purchased**
- **Oldest items recorded sold first, yet may not have been sold**

LIFO

- **Last in, first out**
- **Most recently produced items recorded as sold first (Costs of Goods Sold attributed)**
- **Only allowed in US; GAAP APPROVED**

Exam:

In a period of rising prices, which of the following inventory methods results in the highest cost of goods sold?

(A) FIFO

(B) LIFO

(C) Average cost

(D) Periodic inventory

(E) Perpetual inventory

Exam:

An inventory valuation method such as FIFO or LIFO affects?

- (A) the cost of goods sold but not the balance sheet**
- (B) the balance sheet but not the cost of goods sold**
- (C) both the income statement and the balance sheet (CGS is located on IC)**
- (D) neither the income statement nor the balance sheet**
- (E) the cost of goods sold but not the income statement**