



# Fundamentals of Credit

# Course Instructor



**Kyle Peterdy**

VP, Commercial Banking  
& Credit

## **About Kyle...**

Kyle's background is in commercial lending, where he was responsible for originating and underwriting middle market credit transactions. He has extensive experience conducting financial analysis and assessing business and industry risks.

Kyle has a BEd from McGill University (Montreal, QC) and an MBA from the Sauder School of Business at the University of British Columbia (Vancouver, BC).

Kyle is passionate about teaching and corporate training.

# Learning Objectives



**Define** what credit is and how it's created.



**Identify** some of the different career opportunities available to credit professionals.



**Compare** different types of interest payments and loan characteristics to help inform an appropriate credit structure.



**Explain** what capital expenditure (or CAPEX) is and how debt financing can support it.



**Explain** the 5 Cs of credit framework and how it informs risk assessments.



**Identify** the important qualitative and quantitative techniques, including key financial ratios, used in the risk assessment process.



# Introduction to Credit

# What is Credit

Credit is created when one party **receives resources from another party without immediate payment.**



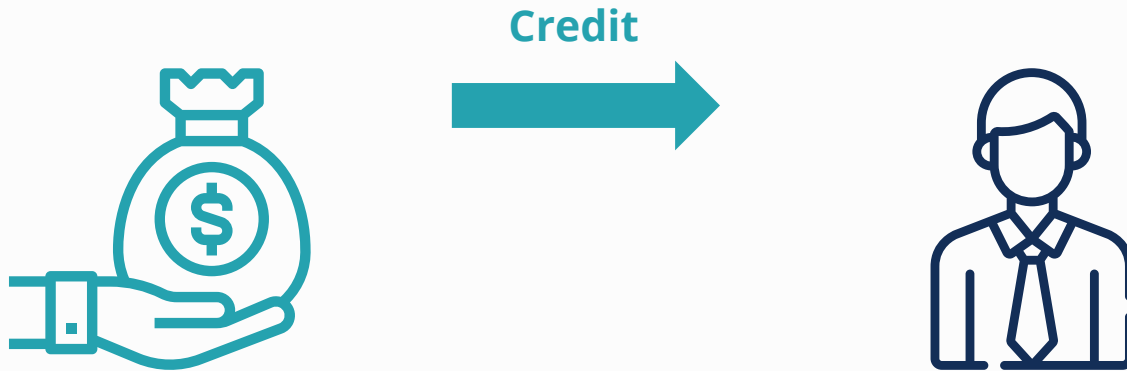
**Lender**  
**(Credit Provider/Creditor)**

**Credit Receiver**  
**(Borrower/Debtor)**

**Vendor of Product,  
Services, etc.**  
**(Credit Provider/Creditor)**

# What is Credit

Credit is created when one party **receives resources from another party without immediate payment.**



**Lender**  
**(Credit Provider/Creditor)**

**Credit Receiver**  
**(Borrower/Debtor)**

# What is Credit

Credit is created when one party **receives resources from another party without immediate payment.**

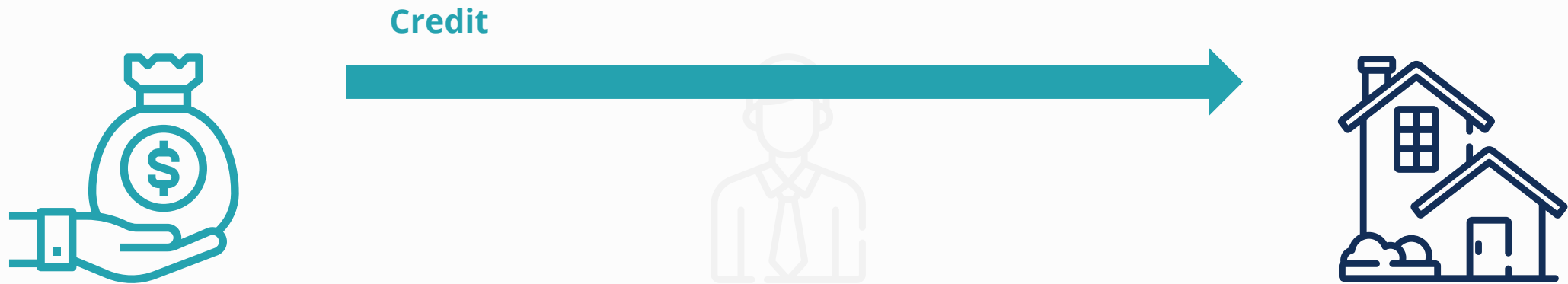


**Lender**  
**(Credit Provider/Creditor)**

**Credit Receiver**  
**(Borrower/Debtor)**

# What is Credit

Credit is created when one party **receives resources from another party without immediate payment.**



**Lender**  
**(Credit Provider/Creditor)**

**Credit Receiver**  
**(Borrower/Debtor)**

**Lender Facilitates the  
Transaction**



# What is Credit

Credit is created when one party **receives resources from another party without immediate payment.**



Trade Credit



**Lender**  
**(Credit Provider/Creditor)**

**Credit Receiver**  
**(Borrower/Debtor)**

**Vendor of Product,  
Services, etc.**  
**(Credit Provider/Creditor)**

# What is Credit

Credit is created when one party **receives resources from another party without immediate payment.**



**Account Payable  
(Amount Owing)**

**Trade Credit**



**Account Receivable  
(Amount Owed)**

# What is Credit

Credit is created when one party **receives resources from another party without immediate payment.**



**Lender**  
**(Credit Provider/Creditor)**

**Credit Receiver**  
**(Borrower/Debtor)**

**Vendor of Product,  
Services, etc.**  
**(Credit Provider/Creditor)**

# Companies vs. Individuals

**Credit is a promise to pay for something of value later**, typically with interest charged by the lender.



**Companies**

May use credit to help grow and operate their business. It may be short-term or long-term.



**Individuals**

May seek credit for things like credit cards or longer-term loans such as vehicles or mortgages.

# Companies vs. Individuals

**Credit is a promise to pay for something of value later**, typically with interest charged by the lender.



**Companies**

May use credit to help grow and operate their business. It may be short-term or long-term.

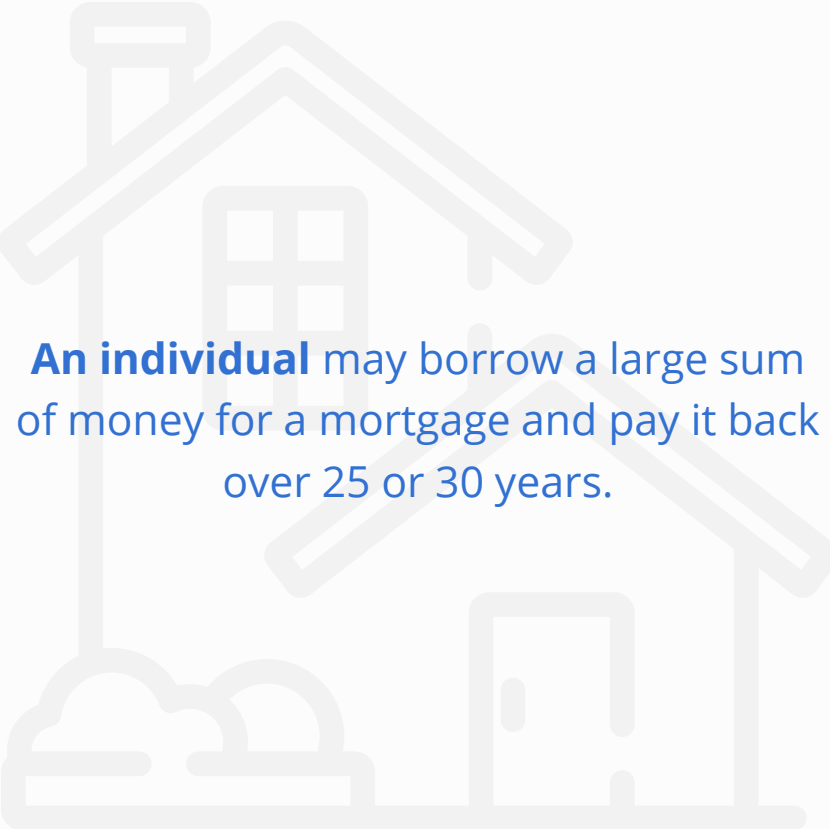


**Individuals**

May seek credit for things like credit cards or longer-term loans such as vehicles or mortgages.

# How & Why is Credit Used?


We often think of individuals borrowing money when they do **not have enough cash on hand to make a purchase.**



**An individual** may borrow a large sum of money for a mortgage and pay it back over 25 or 30 years.


# How & Why is Credit Used?

When it comes to commercial credit, however, **there is a little more nuance.**



**A commercial borrower** has both **strategic reasons** to use debt in its capital structure and some **practical reasons**.

**Practically speaking**, companies borrow money to make investments that will **generate future revenue** and, presumably, **future cash flow**.



Investments in the business are **assets**.

# How & Why is Credit Used?

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>



# How & Why is Credit Used?

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>



CAPEX

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# How & Why is Credit Used?

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# How & Why is Credit Used?

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# How & Why is Credit Used?

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# How & Why is Credit Used?

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# How & Why is Credit Used?

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# Sources of Funding

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# Sources of Funding

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>



# Sources of Funding

## Assets

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# Sources of Funding



**Cash**



**Equity**



**Credit/Debt**

# Sources of Funding – Cash



**Cash**



## **Pros**

- Always accepted
- Very liquid and can be used during emergencies
- No cost (other than opportunity cost)

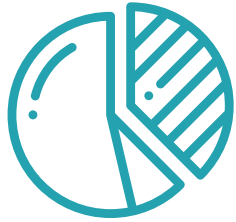
## **Cons**

- Most companies don't keep a large cash balance; may not have enough cash to cover large scale or longer-term projects
- Balance between keeping cash on hand and funding new CAPEX

## **Assets**

Cash	9,667	8,552	7,643	10,785	13,567
Trade and Other Receivables	16,220	17,193	18,225	19,318	20,477
Inventories	9,124	9,671	10,251	10,866	11,518
Current Assets	35,011	35,416	36,119	40,969	45,562
Property Plant and Equipment	23,217	24,610	26,086	27,651	29,311
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# Sources of Funding – Equity



## Equity

### Pros

- Companies can issue stock to raise cash
- Good for start-ups with no ability to borrow
- Good for higher risk, expensive, long-term projects
- No ongoing requirement to pay interest or principal

### Cons

- Usually, more expensive than debt because it is higher risk
- Gives away ownership and control of the company and rights to some of the firm's future profits
- Accountable to stockholders – provide ongoing financial information and decision making

Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380	32,358
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>	<b>39,985</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>	<b>74,873</b>

# Sources of Funding – Credit/Debt



## Credit/Debt

### Pros

- Also good for funding longer-term projects
- Interest payments are tax-deductible
- Will not dilute existing shareholders or change ownership percentage
- Cheaper than equity; lower risk source of funding

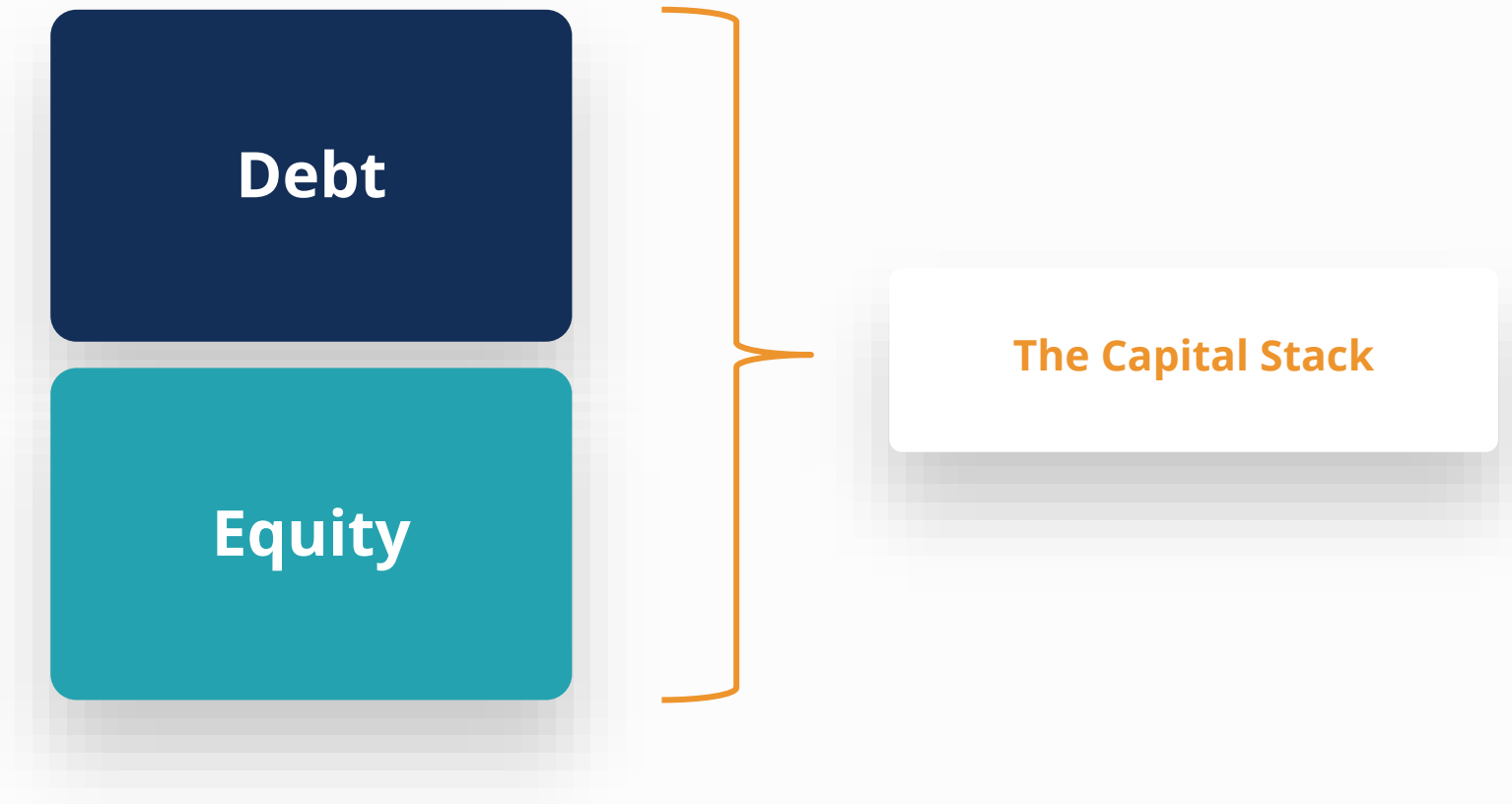
### Cons

- Requires greater attention around liquidity
- Higher risk may mean higher interest rates
- Excessive debt and/or insufficient liquidity can cause insolvency
- May have covenants which are “rules” – things that a borrower cannot do (or must do)

#### Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489	15,358
Income Taxes Payable	959	1,034	1,119	1,194	1,262
Current Liabilities	13,124	13,928	14,787	15,683	16,620
Long-Term Debt	19,647	17,382	15,176	16,931	18,268
Non-Current Liabilities	19,647	17,382	15,176	16,931	18,268
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>	<b>34,888</b>

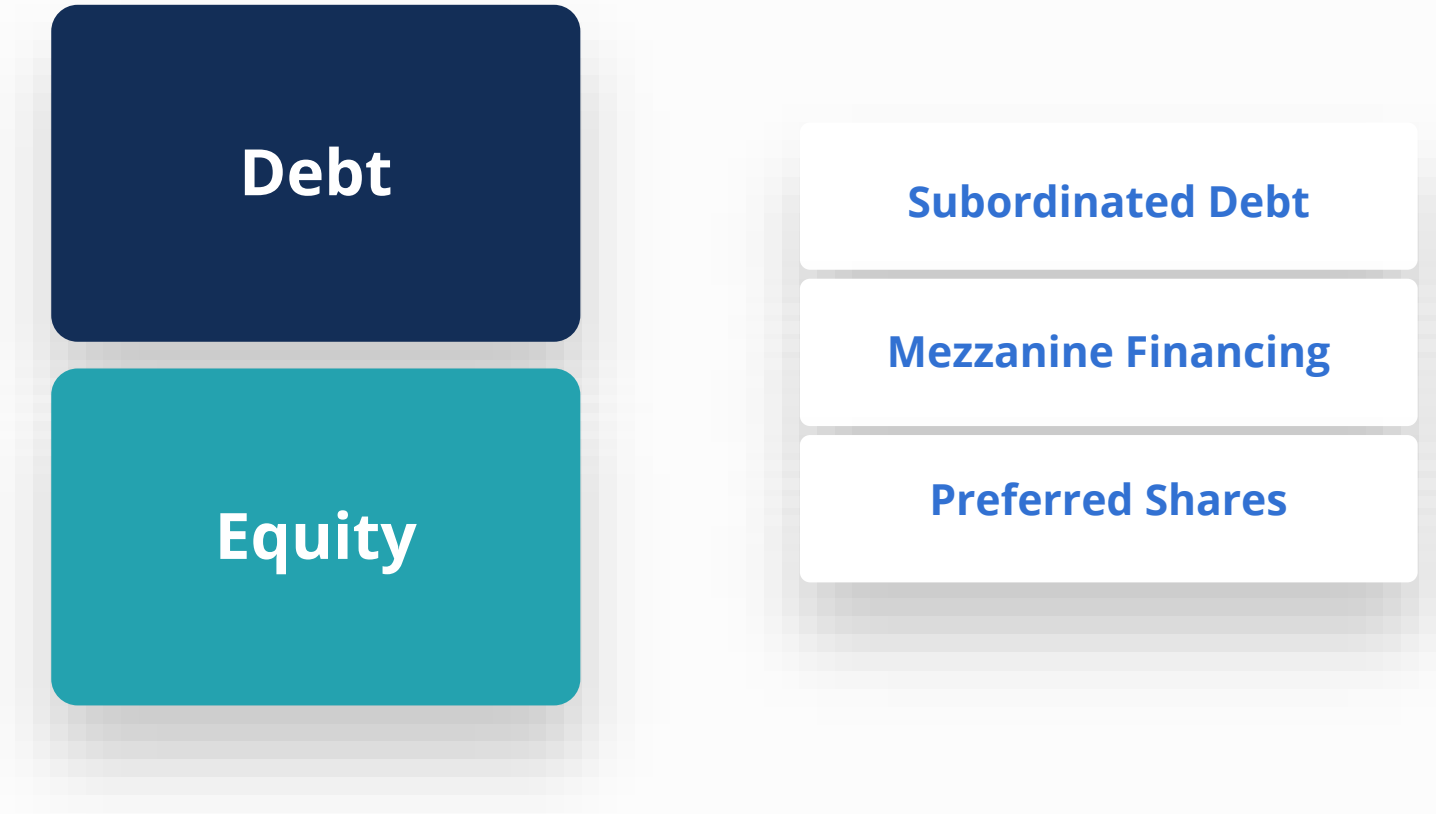
# Why is Debt a Lower Risk Source of Funding Than Equity?



# Why is Debt a Lower Risk Source of Funding Than Equity?

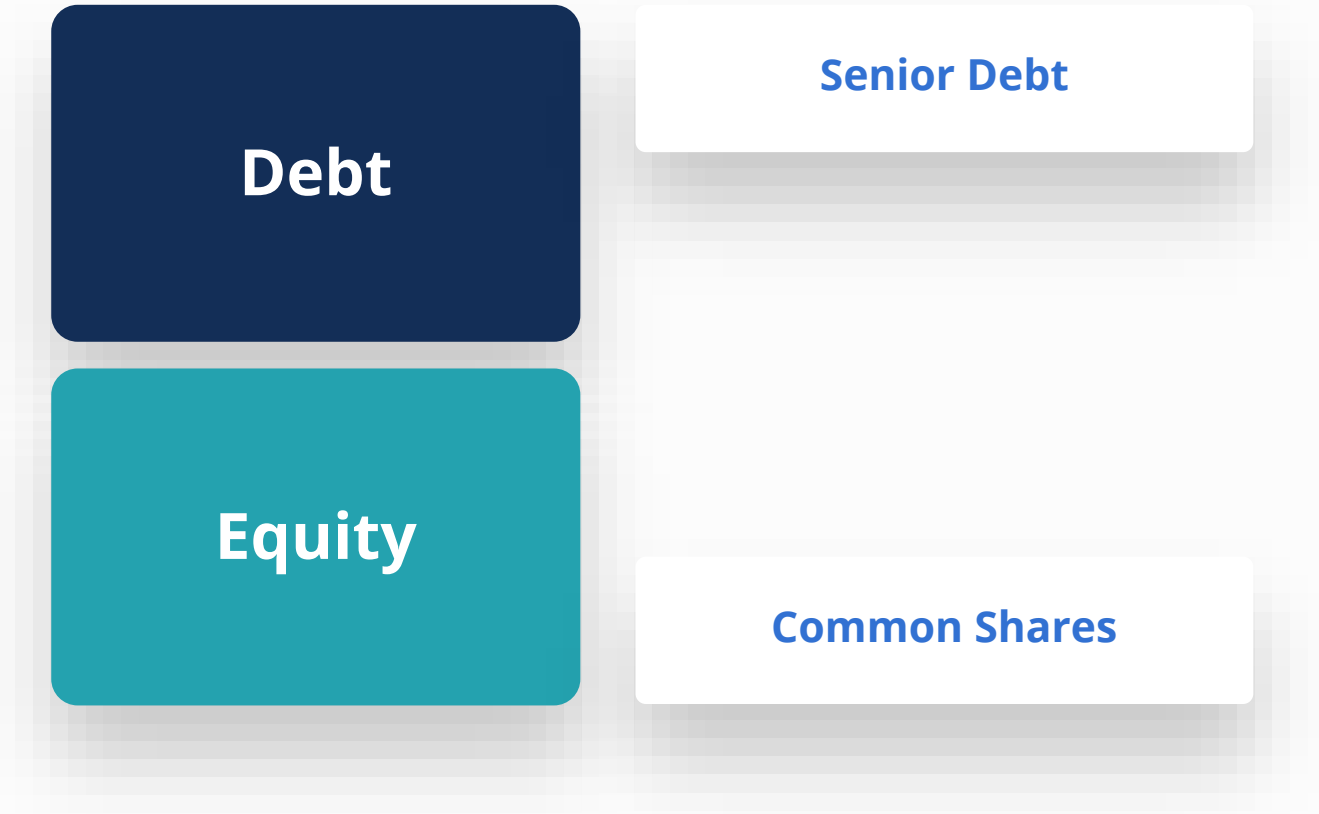


# Why is Debt a Lower Risk Source of Funding Than Equity?





# Why is Debt a Lower Risk Source of Funding Than Equity?



# Why is Debt a Lower Risk Source of Funding Than Equity?

**Earnings (and proceeds) are paid out to creditors ahead of stockholders** – both in good times and in bad.

Revenue	98,671	104,591	110,867	117,519	124,570
Cost of Goods Sold	44,402	47,066	49,890	52,883	56,056
<b>Gross Profit</b>	<b>54,269</b>	<b>57,525</b>	<b>60,977</b>	<b>64,635</b>	<b>68,513</b>
Distribution Expenses	7,400	7,844	8,315	8,814	9,343
Marketing and Administration	31,575	33,469	35,477	37,606	39,862
Research and Development	2,269	2,406	2,550	2,703	2,865
Depreciation	3,157	3,347	3,548	3,761	3,986
<b>EBIT (Operating Profit)</b>	<b>9,867</b>	<b>10,459</b>	<b>11,087</b>	<b>11,752</b>	<b>12,457</b>
Interest	1,229	1,148	1,009	995	1,091
Income Before Taxes	8,638	9,311	10,077	10,757	11,366
Taxes	2,591	2,793	3,023	3,227	3,410
<b>Net Income</b>	<b>6,047</b>	<b>6,518</b>	<b>7,054</b>	<b>7,530</b>	<b>7,956</b>
Common Dividends	3,023	3,259	3,527	3,765	3,978

# Why is Debt a Lower Risk Source of Funding Than Equity?



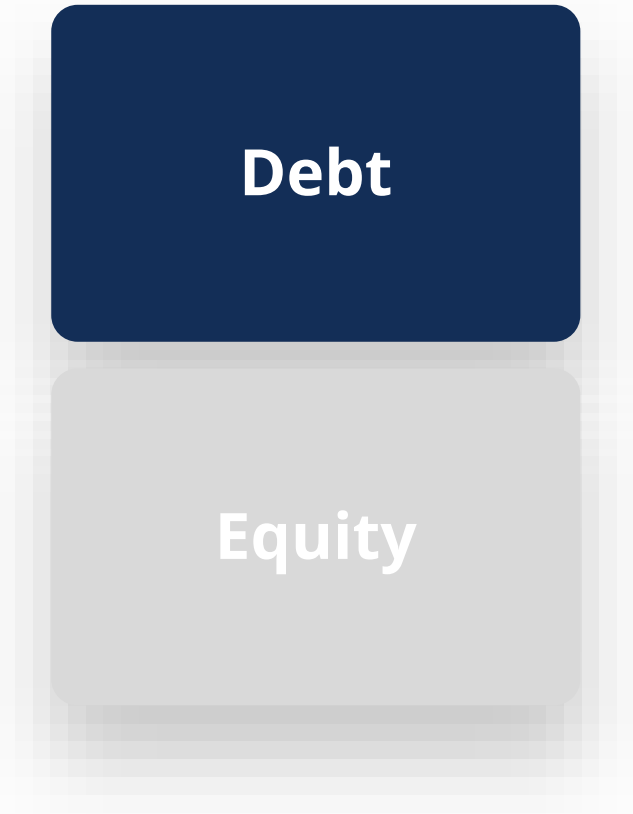
Debt

Equity

A creditor registers a charge (or a lien) against its borrowers' assets, making them collateral.

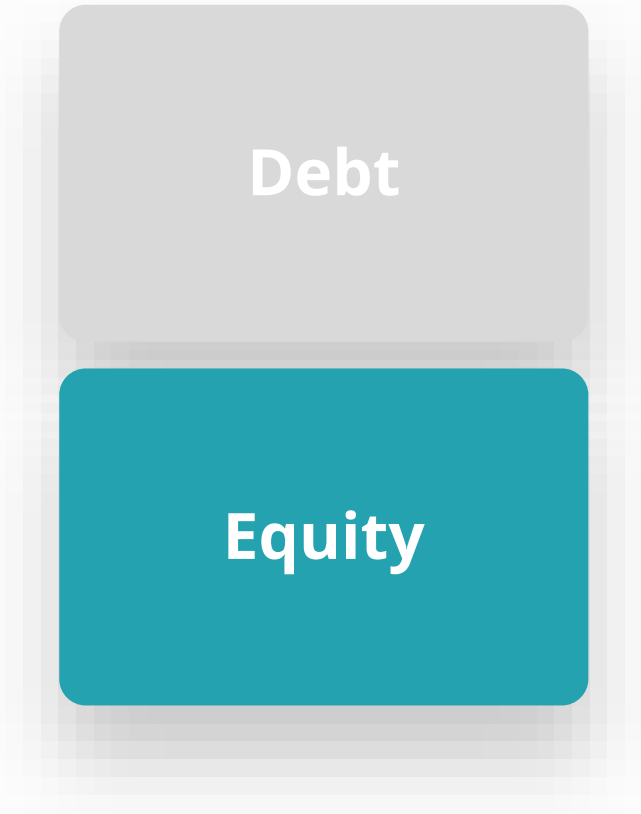
In the event of a default and liquidation, claims against company assets would be made **from top to bottom of the capital stack.**

# Why is Debt a Lower Risk Source of Funding Than Equity?



1

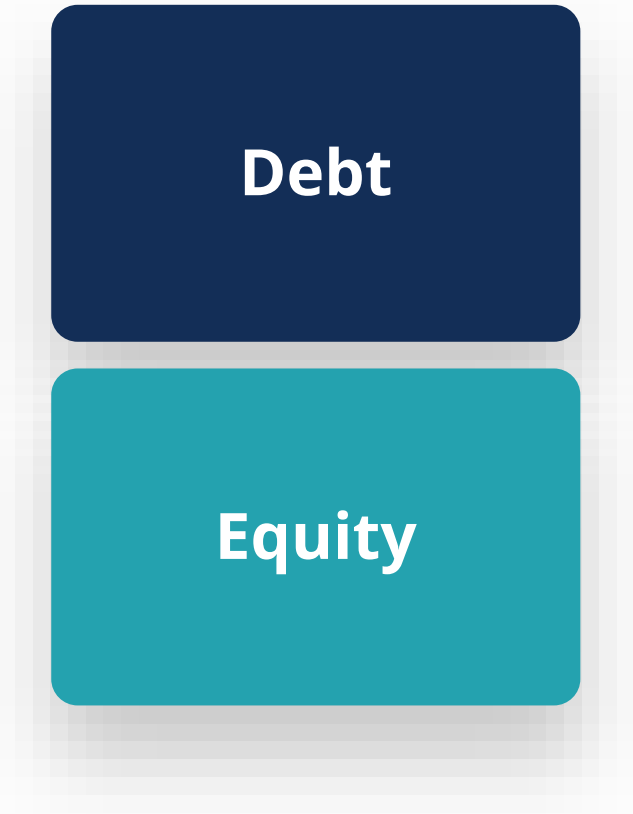
# Why is Debt a Lower Risk Source of Funding Than Equity?



1

2

# Why is Debt a Lower Risk Source of Funding Than Equity?



# Why is Debt a Lower Risk Source of Funding Than Equity?

This is why debt is considered a **lower risk source of funding than equity!**





# Types & Features of Credit



# Types of Credit

1

## Revolving

Often a line of credit or a credit card that has a capped credit limit.

May be drawn, paid back, and re-drawn (up to its limit).

2

## Installment

A type of loan with pre-determined payments.

Often called “reducing” (or amortizing) as the principal amount reduces with each payment made.

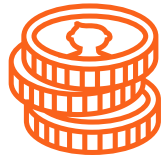
3

## Open Credit

Amount is typically due in full at the end of some period.

Examples include cell phone bills or utility services at month-end.

# Principal & Interest



## Principal

- Face value of the credit that is being extended.
- Must be repaid in full at some point in the future.



## Interest

- Additional charge on top of the principal payment.
- Paid as compensation to the lender for providing capital.

# Principal



# Interest



**Interest**

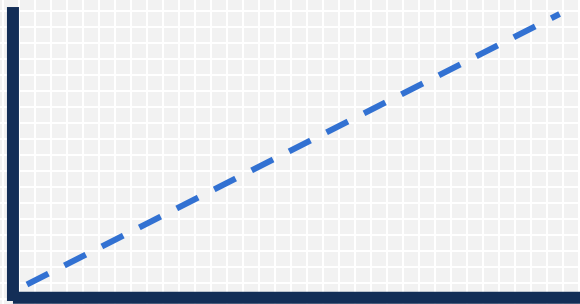


Cost of obtaining credit  
(for the borrower);  
compensation for the  
lender.

Expressed as a  
percentage of the  
outstanding principal,  
like 2%, 5%, etc.

**Rate %**

**Risk**



# Interest



**Interest**



Cost of obtaining credit  
(for the borrower);  
compensation for the  
lender.

Expressed as a  
percentage of the  
outstanding principal,  
like 2%, 5%, etc.

**Regular or  
Accrued**

**Simple or  
Compounding**

# Interest

Let's work with an example million-dollar loan, **on a 3-year term, at 5% with interest charged annually.**

$$\text{Regular Interest} = 5\% \text{ (or 0.05)} * \$1\text{MM} = \underline{\$50,000}$$

This is also an example of simple interest. **It is the interest calculated on the original principal amount of the loan.**

$$\text{Year 2 of Loan Period} = 5\% \text{ (or 0.05)} * \$1\text{MM} = \underline{\$50,000}$$

$$\text{Total Interest over 3 Years} = \underline{\$50\text{k} + \$50\text{k} + \$50\text{k} = \$150,000}$$

# Interest

**Accrued interest is the opposite of regular interest; interest instead accumulates.** It's often referred to as a pay-in-kind structure (or PIK).

$$\text{Compound Interest} = P [(1 + i)^n - 1]$$

**P** = Original principal amount

**i** = Nominal annual interest rate

**n** = Number of periods

**Previous Loan Example =**

$$\text{\$1MM} [(1 + 0.05)^3 - 1]$$

**Total Interest over 3 Years =**

**\\$157,625**

# Interest

**Accrued interest is the opposite of regular interest; interest instead accumulates.** It's often referred to as a pay-in-kind structure (or PIK).

$$\text{Year 1 Calculation} = \$1,000,000 * (0.05) = \$50,000 \longrightarrow \$1,050,000$$

$$\text{Year 2 Calculation} = \$1,050,000 * (0.05) = \$52,500 \longrightarrow \$1,102,500$$

$$\text{Year 3 Calculation} = \$1,102,500 * (1 + 0.05)$$



# Interest

**Accrued interest is the opposite of regular interest; interest instead accumulates.** It's often referred to as a pay-in-kind structure (or PIK).

**Year 1 Calculation =**  $\$1,000,000 * (0.05) = \$50,000$   $\longrightarrow$  **\$1,050,000**

**Year 2 Calculation =**  $\$1,050,000 * (0.05) = \$52,500$   $\longrightarrow$  **\$1,102,500**

**Year 3 Calculation =**  $\$1,102,500 * (1 + 0.05)$   $\longrightarrow$  **\$1,157,625**



# Interest

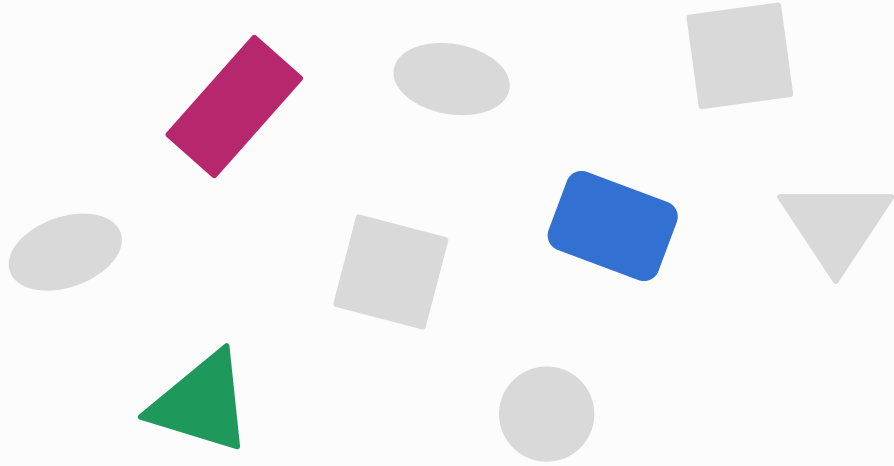
1

Accrued interest structures are **virtually always compound interest.**

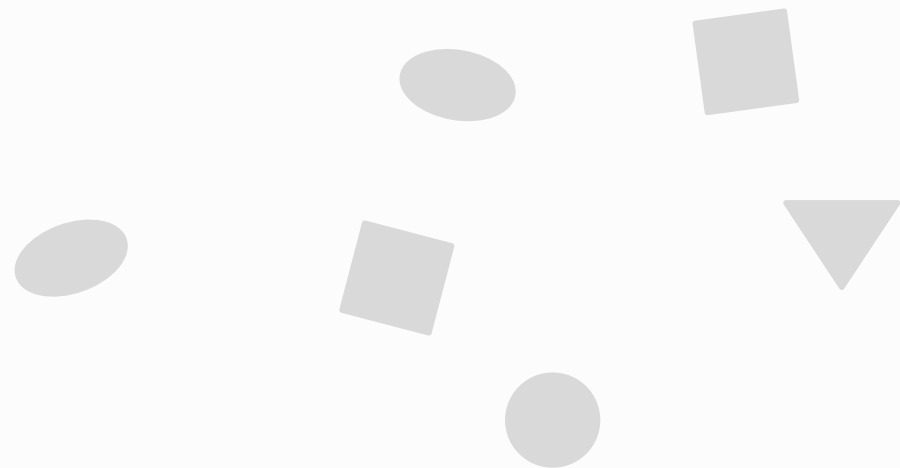
2

Regular interest structures may have **simple or compound interest.**

# Loan Characteristics



# Loan Characteristics



# Loan Characteristics



Loan Structure

# Loan Characteristics



**Fixed-Rate**



**Variable-Rate**



**Operating Credit**



**Term Financing**



**Amortizing**



**Non - Amortizing**



**Secured**



**Unsecured**

# Fixed vs. Variable



## Fixed Rate

- The interest rate **remains the same** over the loan term.



## Variable Rate

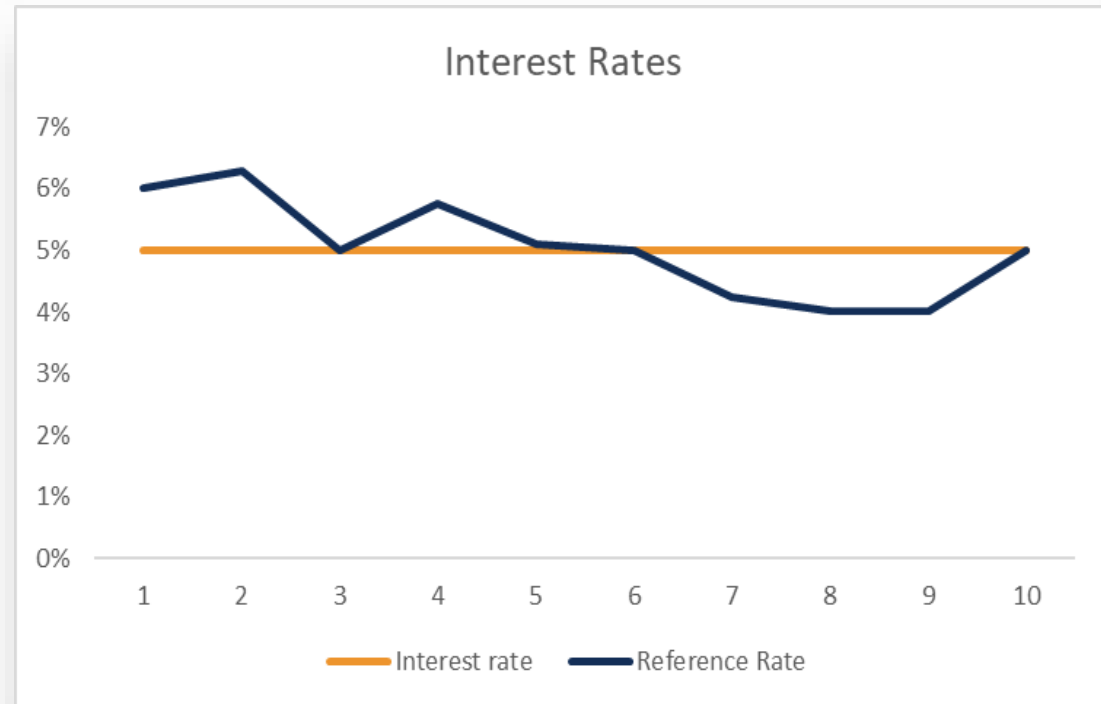
- The interest rates are set relative to a reference rate, often known as “Bank Prime,” which **changes over time**.

# Fixed vs. Variable



**Fixed  
Rate**

Interest rate on loan does not follow  
changing rates in the market.





# Fixed vs. Variable



## Fixed Rate

Interest rate remains the same for  
the full term of loan.

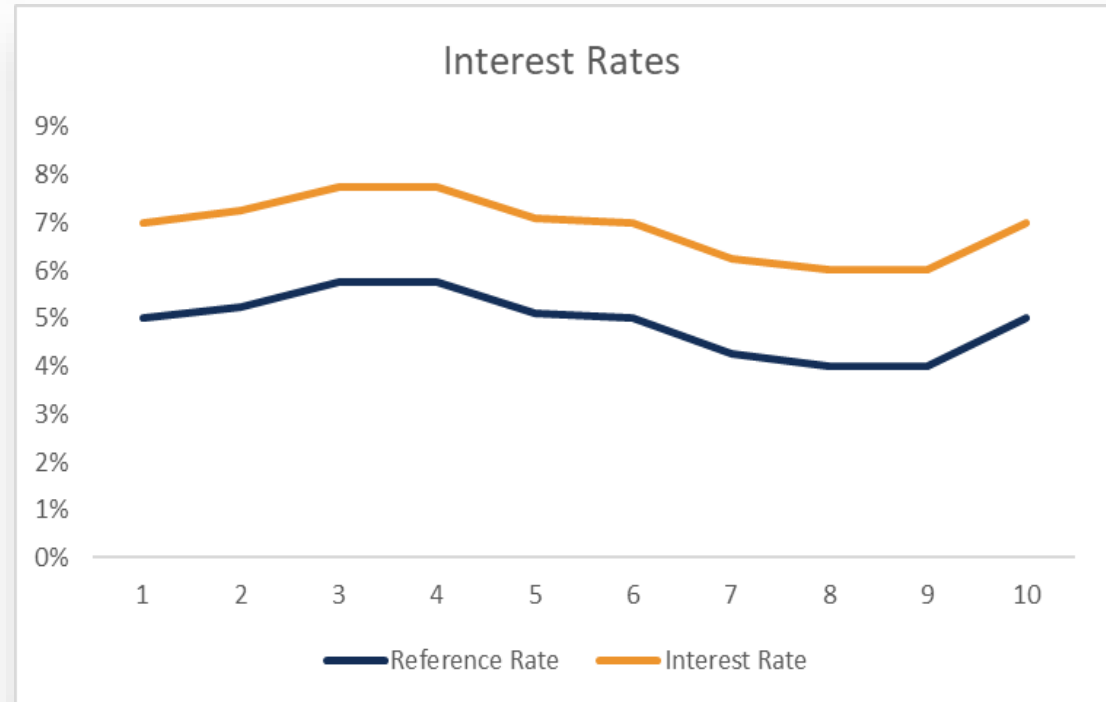
Year	Reference Rate	Interest rate
1	6.00%	5%
2	6.30%	5%
3	5.00%	5%
4	5.75%	5%
5	5.10%	5%
6	5.00%	5%
7	4.25%	5%
8	4.00%	5%
9	4.00%	5%
10	5.00%	5%

# Fixed vs. Variable



**Variable  
Rate**

Interest rate on loans follows the  
reference rate.



# Fixed vs. Variable



## Variable Rate

The spread is set at 2%, and the interest rate on loan will always be 2% above reference rate.

Year	Reference Rate	Spread	Interest Rate
1	5.00%	2.0%	7.00%
2	5.25%	2.0%	7.25%
3	5.75%	2.0%	7.75%
4	5.75%	2.0%	7.75%
5	5.10%	2.0%	7.10%
6	5.00%	2.0%	7.00%
7	4.25%	2.0%	6.25%
8	4.00%	2.0%	6.00%
9	4.00%	2.0%	6.00%
10	5.00%	2.0%	7.00%

# Fixed vs. Variable



## Variable Rate

The spread is set at 2%, and the interest rate on loan will always be 2% above reference rate.

Year	Reference Rate	Spread	Interest Rate
1	5.00%	2.0%	7.00%
2	5.25%	2.0%	7.25%
3	5.75%	2.0%	7.75%
4	5.75%	2.0%	7.75%
5	5.10%	2.0%	7.10%
6	5.00%	2.0%	7.00%
7	4.25%	2.0%	6.25%
8	4.00%	2.0%	6.00%
9	4.00%	2.0%	6.00%
10	5.00%	2.0%	7.00%

# Fixed vs. Variable



## Variable Rate

The spread is set at 2%, and the interest rate on loan will always be 2% above reference rate.

Year	Reference Rate	Spread	Interest Rate
1	5.00%	2.0%	7.00%
2	5.25%	2.0%	7.25%
3	5.75%	2.0%	7.75%
4	5.75%	2.0%	7.75%
5	5.10%	2.0%	7.10%
6	5.00%	2.0%	7.00%
7	4.25%	2.0%	6.25%
8	4.00%	2.0%	6.00%
9	4.00%	2.0%	6.00%
10	5.00%	2.0%	7.00%

# Fixed vs. Variable



## Fixed Rate

### Pros

- Protection from rising interest rates in the future.
- Financial forecasting/modeling is more predictable.

### Cons

- If interest rates fall in the future, a fixed-rate loan is locked in at a specific rate.
- Breakage costs may be substantial.



## Variable Rate

### Pros

- There is the ability to capitalize on a reference rate decrease over time.
- Early payouts are generally permitted for maximum flexibility.

### Cons

- This type of loan is worse for a borrower if the reference rate rises over time.

# Operating Credit vs. Term Financing

## Assets

Cash	9,667	8,552	7,643	10,785
Trade and Other Receivables	16,220	17,193	18,225	19,318
Inventories	9,124	9,671	10,251	10,866
Current Assets	35,011	35,416	36,119	40,969
Property Plant and Equipment	23,217	24,610	26,086	27,651
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489
Income Taxes Payable	959	1,034	1,119	1,194
Current Liabilities	13,124	13,928	14,787	15,683
Long-Term Debt	19,647	17,382	15,176	16,931
Non-Current Liabilities	19,647	17,382	15,176	16,931
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>

LOC supports the  
day-to-day  
operations

# Operating Credit vs. Term Financing

## Assets

Cash	9,667	8,552	7,643	10,785
Trade and Other Receivables	16,220	17,193	18,225	19,318
Inventories	9,124	9,671	10,251	10,866
Current Assets	35,011	35,416	36,119	40,969
Property Plant and Equipment	23,217	24,610	26,086	27,651
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489
Income Taxes Payable	959	1,034	1,119	1,194
Current Liabilities	13,124	13,928	14,787	15,683
Long-Term Debt	19,647	17,382	15,176	16,931
Non-Current Liabilities	19,647	17,382	15,176	16,931
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>

LOC supports the day-to-day operations

Long term assets include intangibles like "Goodwill"

Repayment of term debt depends on the underlying asset



# Operating Credit vs. Term Financing

## Assets

Cash	9,667	8,552	7,643	10,785
Trade and Other Receivables	16,220	17,193	18,225	19,318
Inventories	9,124	9,671	10,251	10,866
Current Assets	35,011	35,416	36,119	40,969
Property Plant and Equipment	23,217	24,610	26,086	27,651
<b>Total Assets</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>

## Liabilities & Shareholders' Equity

Operating Line of Credit	-	-	-	-
Trade and Other Payables	12,165	12,895	13,669	14,489
Income Taxes Payable	959	1,034	1,119	1,194
Current Liabilities	13,124	13,928	14,787	15,683
Long-Term Debt	19,647	17,382	15,176	16,931
Non-Current Liabilities	19,647	17,382	15,176	16,931
<b>Total Liabilities</b>	<b>32,771</b>	<b>31,310</b>	<b>29,963</b>	<b>32,614</b>
Common Stock and Additional Paid-In Capital	7,627	7,627	7,627	7,627
Retained Earnings	17,830	21,088	24,616	28,380
<b>Total Shareholders' Equity</b>	<b>25,457</b>	<b>28,715</b>	<b>32,243</b>	<b>36,007</b>
<b>Total Liabilities &amp; Shareholders' Equity</b>	<b>58,227</b>	<b>60,026</b>	<b>62,206</b>	<b>68,621</b>

LOC supports the day-to-day operations

Long term assets include intangibles like "Goodwill"

Repayment of term debt depends on the underlying asset

# Amortizing vs. Non-Amortizing

## Amortizing

---

- The principal payments are **spread out over the life of the loan**; balance decreases over time.
- It is designed to be **fully repaid upon maturity**.
- Principal payments may be either **equal amortizing or equal payment**.

## Non - Amortizing

---

# Amortizing vs. Non-Amortizing

## Amortizing

- The principal payments are **spread out over the life of the loan**; balance decreases over time.
- It is designed to be **fully repaid upon maturity**.
- Principal payments may be either **equal amortizing or equal payment**.

## Non – Amortizing

- Repayment of principal is made at the end of the loan term, often called a “bullet payment.”
- If accrued interest, **total interest is also due at maturity**.
- If regular interest, **payments are made at predetermined intervals**.

# Amortizing vs. Non-Amortizing

## Amortizing

- The principal payments are **spread out over the life of the loan**; balance decreases over time.
- It is designed to be **fully repaid upon maturity**.
- Principal payments may be either **equal amortizing or equal payment**.

## Non – Amortizing

- Repayment of principal is made at the end of the loan term, often called a “bullet payment.”
- If accrued interest, **total interest is also due at maturity**.
- If regular interest, **payments are made at predetermined intervals**.

# Amortizing vs. Non-Amortizing

## Amortizing

---

- **Borrower:** the loan principal is reduced during the loan term, so there is less total interest to pay over the life of the loan.
- **Lender:** less risky, as a part of the principal is received with each payment, reducing the overall repayment risk as the loan term progresses.

## Non - Amortizing

---

# Amortizing vs. Non-Amortizing

## Amortizing

- **Borrower:** the loan principal is reduced during the loan term, so there is less total interest to pay over the life of the loan.
- **Lender:** less risky, as a part of the principal is received with each payment, reducing the overall repayment risk as the loan term progresses.

## Non – Amortizing

- **Borrower:** the payments made during the loan term are much smaller as no principal is being paid back.
- **Lender:** repayment risk is higher, but the potential return is greater since the total interest paid is higher.

# Amortizing vs. Non-Amortizing

## Amortizing

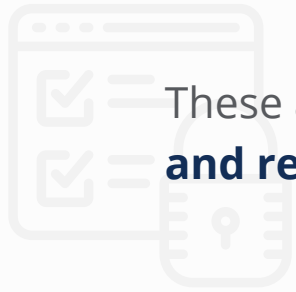
- **Borrower:** the loan principal is reduced during the loan term, so there is less total interest to pay over the life of the loan.
- **Lender:** less risky, as a part of the principal is received with each payment, reducing the overall repayment risk as the loan term progresses.

## Non – Amortizing

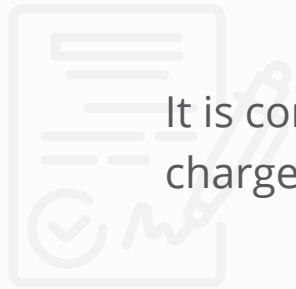
- **Borrower:** the payments made during the loan term are much smaller as no principal is being paid back.
- **Lender:** repayment risk is higher, but the potential return is greater since the total interest paid is higher.

# Secured vs. Unsecured

A lender (like a commercial bank or a credit union) will **register charges against the assets of its borrowers using public security registries. These are often called *liens*.**



These assets are called **collateral security**, and the lender can use this collateral to sell **and recover loan proceeds** if a borrower ever defaults.



It is common to use something like a **“General Security Agreement,”** which is a floating charge over all the borrower’s assets.



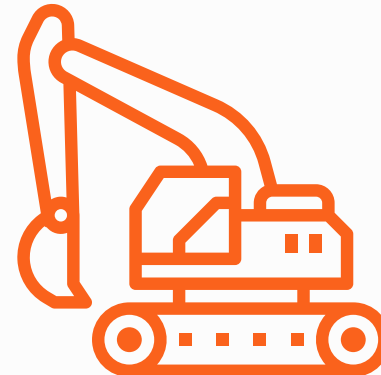
# Secured vs. Unsecured

## Secured

Some credit is backstopped by a specific charge over a specific asset.



Collateral mortgage agreement



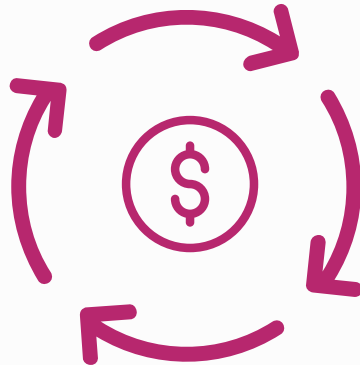
A lender may register a charge over machinery

# Secured vs. Unsecured

Personal credit  
card



Student line of  
credit



## Unsecured

Not secured by a specific asset but by the borrower's creditworthiness and general asset base.

**Tends to have a higher interest rate as there is no specific collateral securing the loan.**

# Secured vs. Unsecured

## Secured

Some credit is backstopped by a specific charge over a specific asset.

**Tends to have a lower interest rate as the collateral reduces the risk of loan loss.**

## Unsecured

Not secured by a specific asset but by the borrower's creditworthiness and general asset base.

**Tends to have a higher interest rate as there is no specific collateral securing the loan.**



# The Credit Process & Analysis Fundamentals

# Career Opportunities for Credit Professionals



# Career Opportunities for Credit Professionals



## Financial Institutions

- Include relationship management, analyst, and adjudication roles.
- Usually classified as either business, commercial, or corporate banking.



## Private Lenders

- Firms include real estate lenders, equipment finance companies, and asset-based lenders.
- Service a similar market as banks but may also serve higher-risk borrowers.



## Corporations

- Employ teams of analysts to assess trade credit risk in their own customer portfolios.
- These analysts use many of the same skills as those at a commercial bank.

# Career Opportunities for Credit Professionals



## Rating Agencies

- Assess the credit risk of publicly-traded companies in order to help price fixed-income securities.
- Analysts play a very important role in the smooth functioning of the Capital Markets.



## Institutional Investors

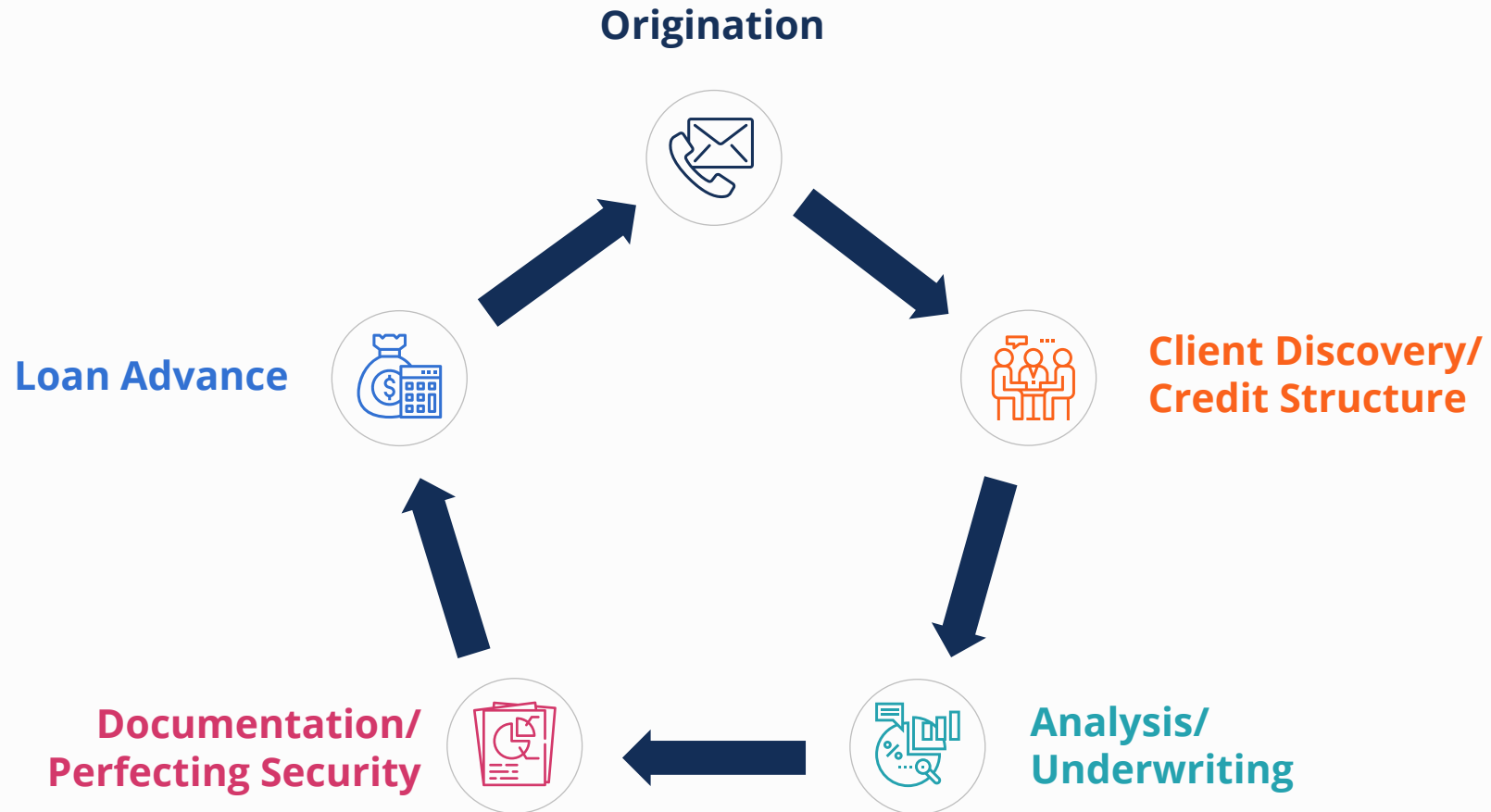
- Hire experienced credit analysts to manage risks in investment portfolios.
- These analysts may analyze bonds and other debt instruments.

# The Credit Process





# The Lending Process



# The 5 Cs of Credit

The 5 Cs of credit is a framework used by lenders when **analyzing the creditworthiness of a prospective borrower.**



**Character**



**Capacity**



**Capital**



**Collateral**



**Conditions**

# The 5 Cs of Credit



## Character



## Capacity



## Capital



## Collateral



## Conditions

- What is the business all about?
- What is the character of the company?
- What is the business, its management team, and ownership's reputation?

# The 5 Cs of Credit



Character



**Capacity**



Capital



Collateral



Conditions

- The actual ability of the borrower to service debt obligations.
- Includes considerations around profit margins, liquidity, and cash flows to support future payments.

# The 5 Cs of Credit



Character



Capacity



**Capital**



Collateral



Conditions

- Evaluate the financial structure of a company.
- Gain an understanding of the proportion of debt vs. equity financing.
- Includes an analysis of access to other sources of capital.

# The 5 Cs of Credit



Character



Capacity



Capital



**Collateral**



Conditions

- What types of underlying assets are being financed?
- Are there other assets available?
- Where are the assets physically located?
- How easily can these assets be converted to cash?

# The 5 Cs of Credit



Character



Capacity



Capital



Collateral



**Conditions**

- Evaluate the credit request within the context of the industry and the macroeconomic environment.
- Understand factors like inflation, consumer spending, interest rates, and foreign exchange rates.

# The 5 Cs & Credit Risk



**Character**



Strong industry  
experience and reputation



**Capacity**



Good margins and  
cash flow



**Capital**



**Collateral**



Weak collateral position



**Conditions**

Strengths in two categories may outweigh the weakness in collateral, making this business still a good loan candidate.



# The 5 Cs & Credit Risk



**Character**



**Capacity**



**Capital**



**Collateral**



**Conditions**



Other business interests  
and cash available



Strong collateral  
security

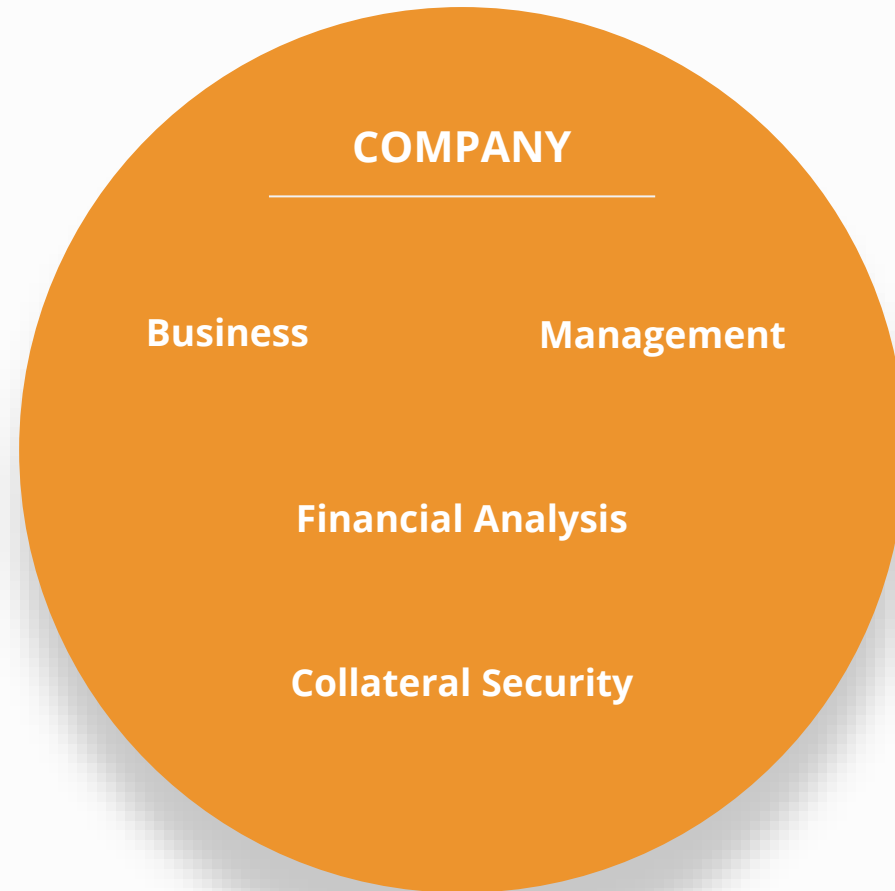


Declining industry

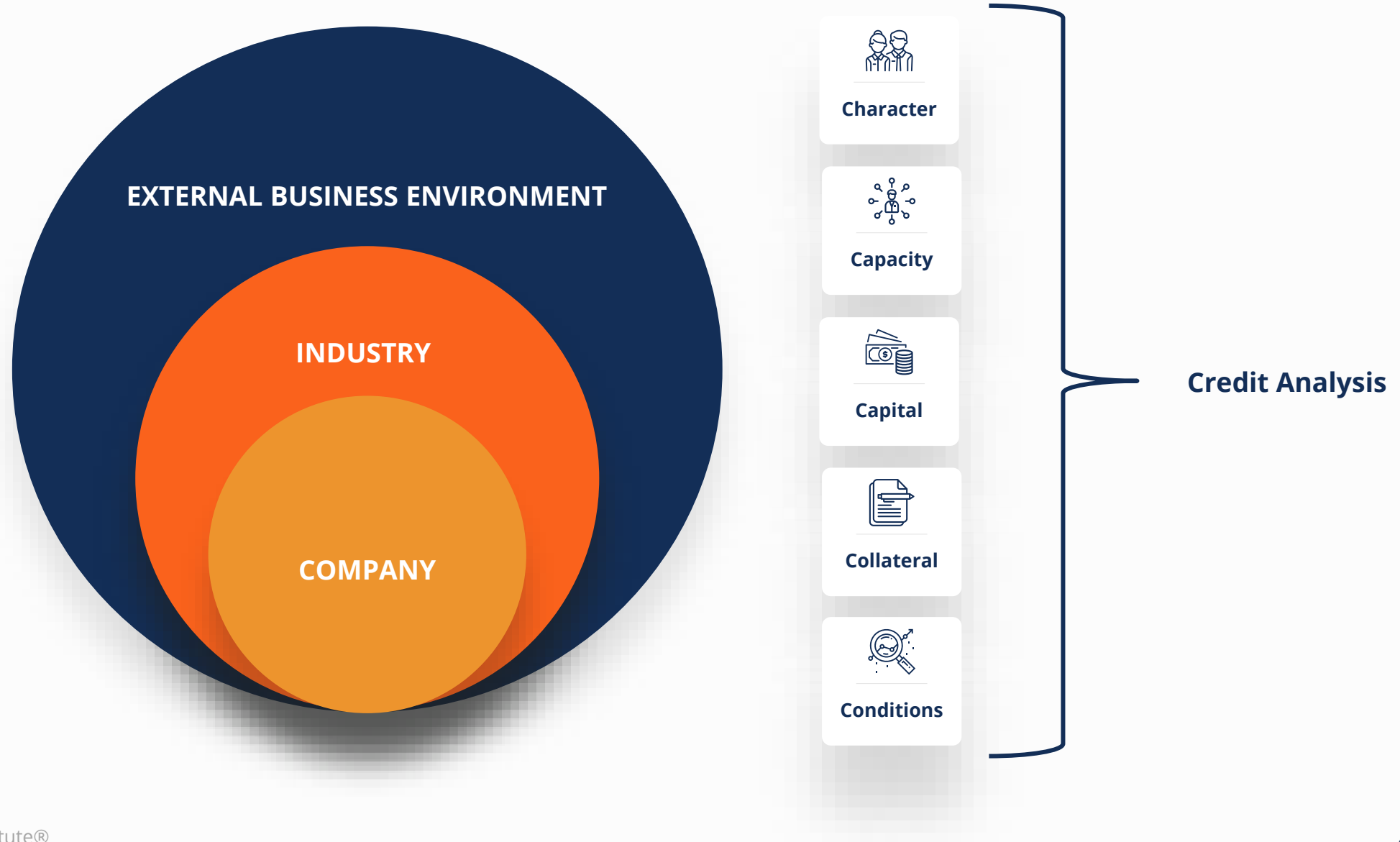
In this example, strengths in collateral and capital might be sufficient to offset weakness in conditions.

# Big Picture Context

## Credit Request



# Big Picture Context



# Industry, Business & Management Analysis

These categories would be classified as being the more **qualitative parts of a credit assessment**.



**Industry  
Analysis**



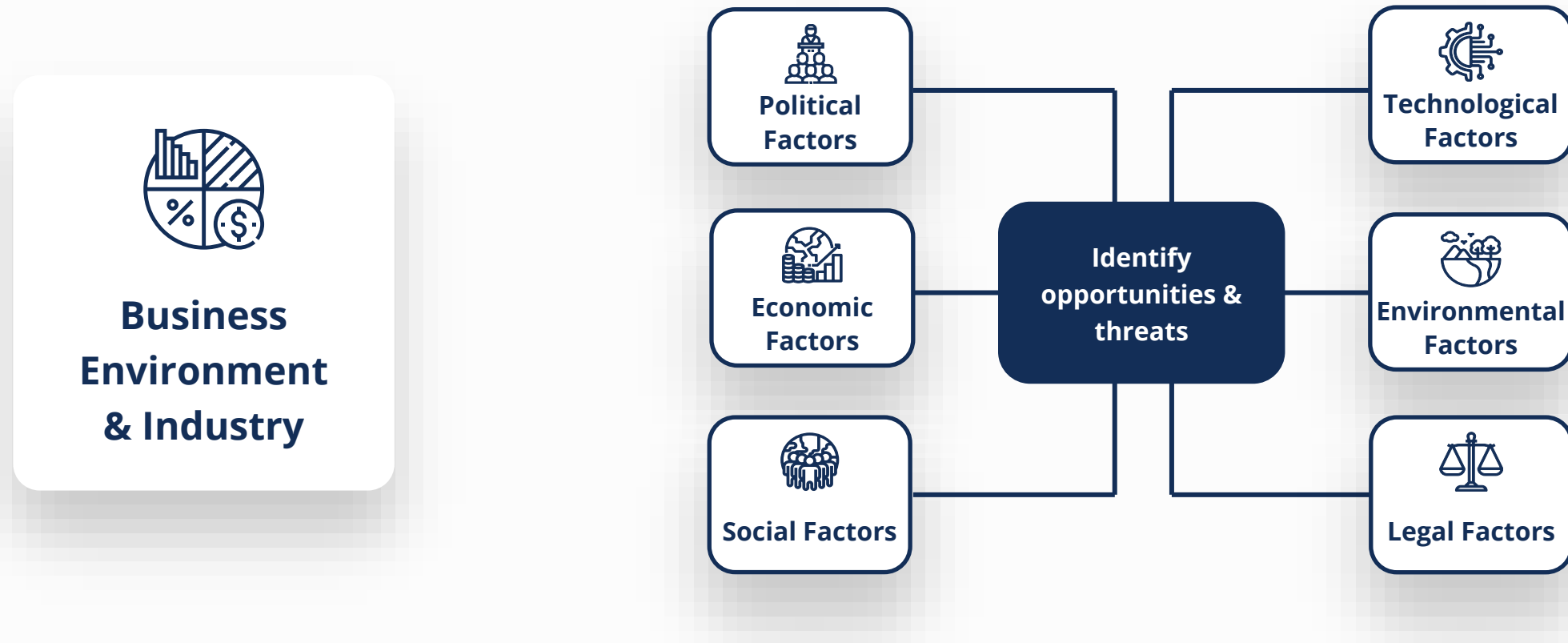
**Business  
Analysis**



**Management  
Analysis**

# Industry, Business & Management Analysis

At the **business environment and the industry levels**, there are tools available to support our analysis.



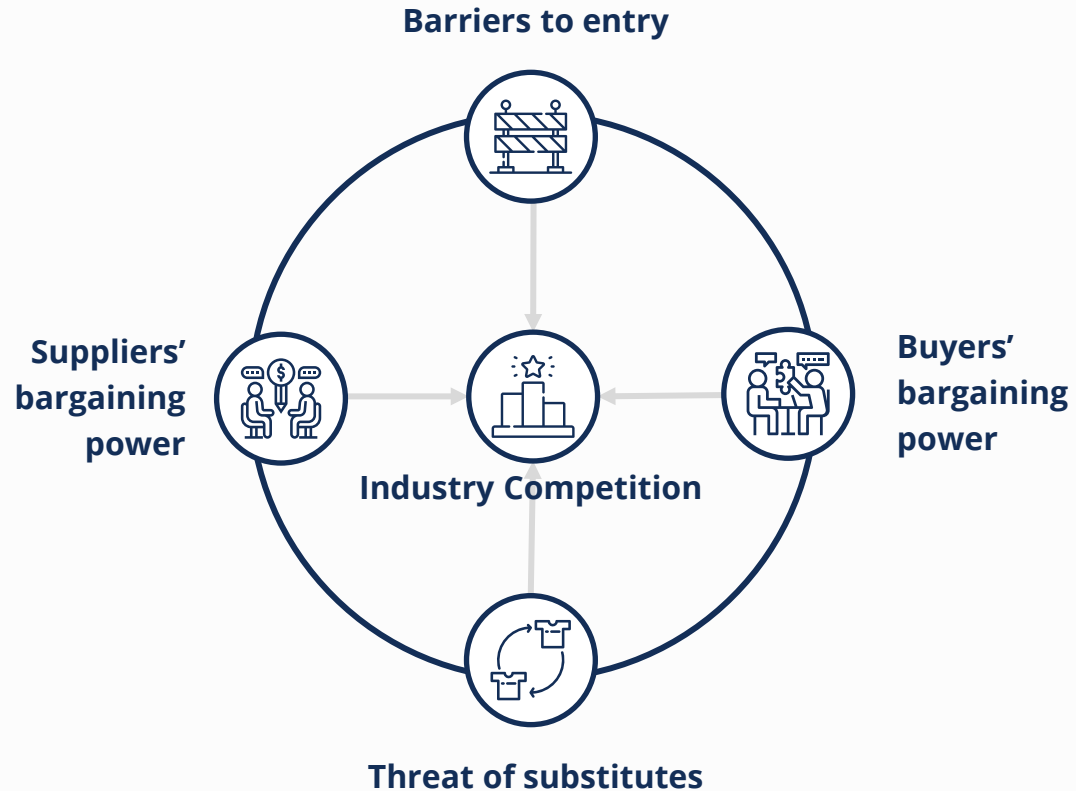
PESTEL highlights factors that may create both **risks and opportunities for a borrower**.

# Industry, Business & Management Analysis

At the business environment and the industry levels, there are tools available to support our analysis.



**Business  
Environment  
& Industry**



Porter's 5 Forces is used to understand **how competitive forces in an industry might influence its participants.**

# Industry, Business & Management Analysis

Assessing the business itself involves **analyzing its competitive position**.



**Business  
Analysis**

**Total Customer  
Solution**

**System Lock-In**

**HAX's Delta  
Model**

**Best Product**

# Industry, Business & Management Analysis

Assessing the business itself involves **analyzing its competitive position**.



## Business Analysis





# Industry, Business & Management Analysis

Assessing the business itself involves **analyzing its competitive position**.



**Business  
Analysis**

S



**Strengths**

W



**Weaknesses**

O



**Opportunities**

T



**Threats**

# Industry, Business & Management Analysis

When it comes to management analysis, **many lenders have proprietary questionnaires and evaluation scorecards to assess key management traits.**



**Management  
Analysis**

**Business and financial  
acumen**



**Approach to risk**



**Planning**



# Industry, Business & Management Analysis



**Character**



Capacity



Capital



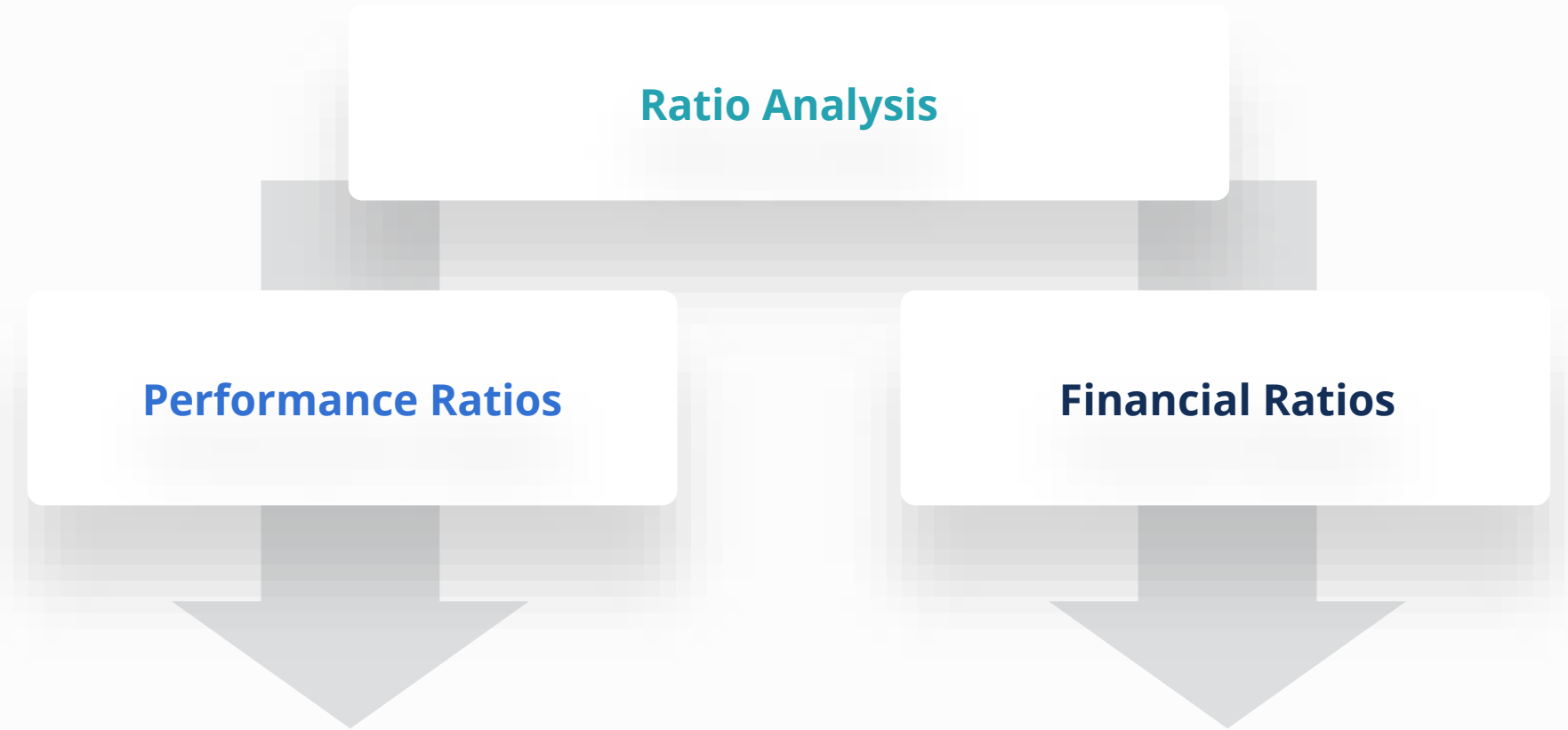
Collateral



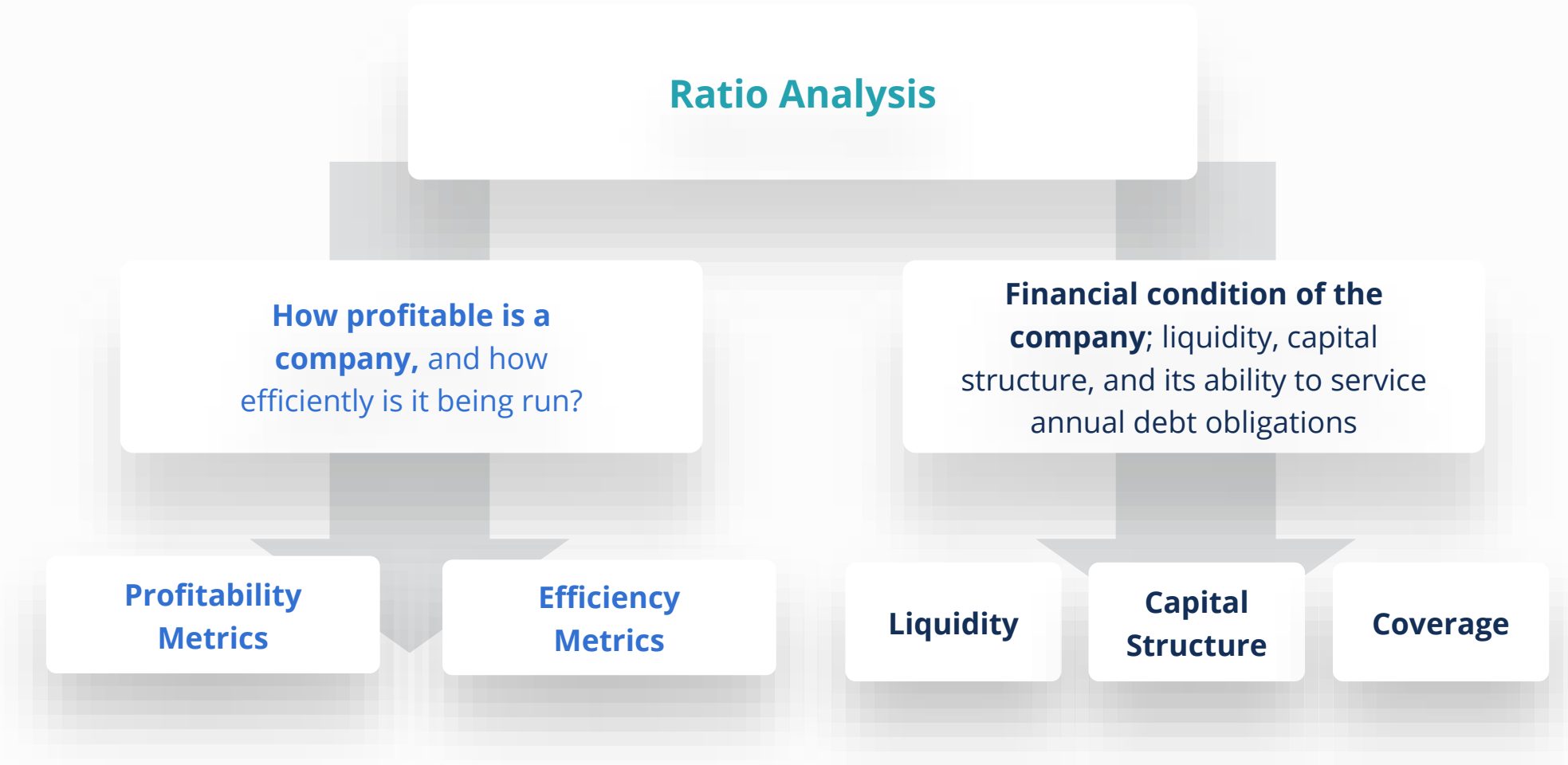
**Conditions**

Assessing the business environment, the industry, the business itself, and the management team **helps to satisfy the Conditions and the Character Cs of the 5 Cs framework.**

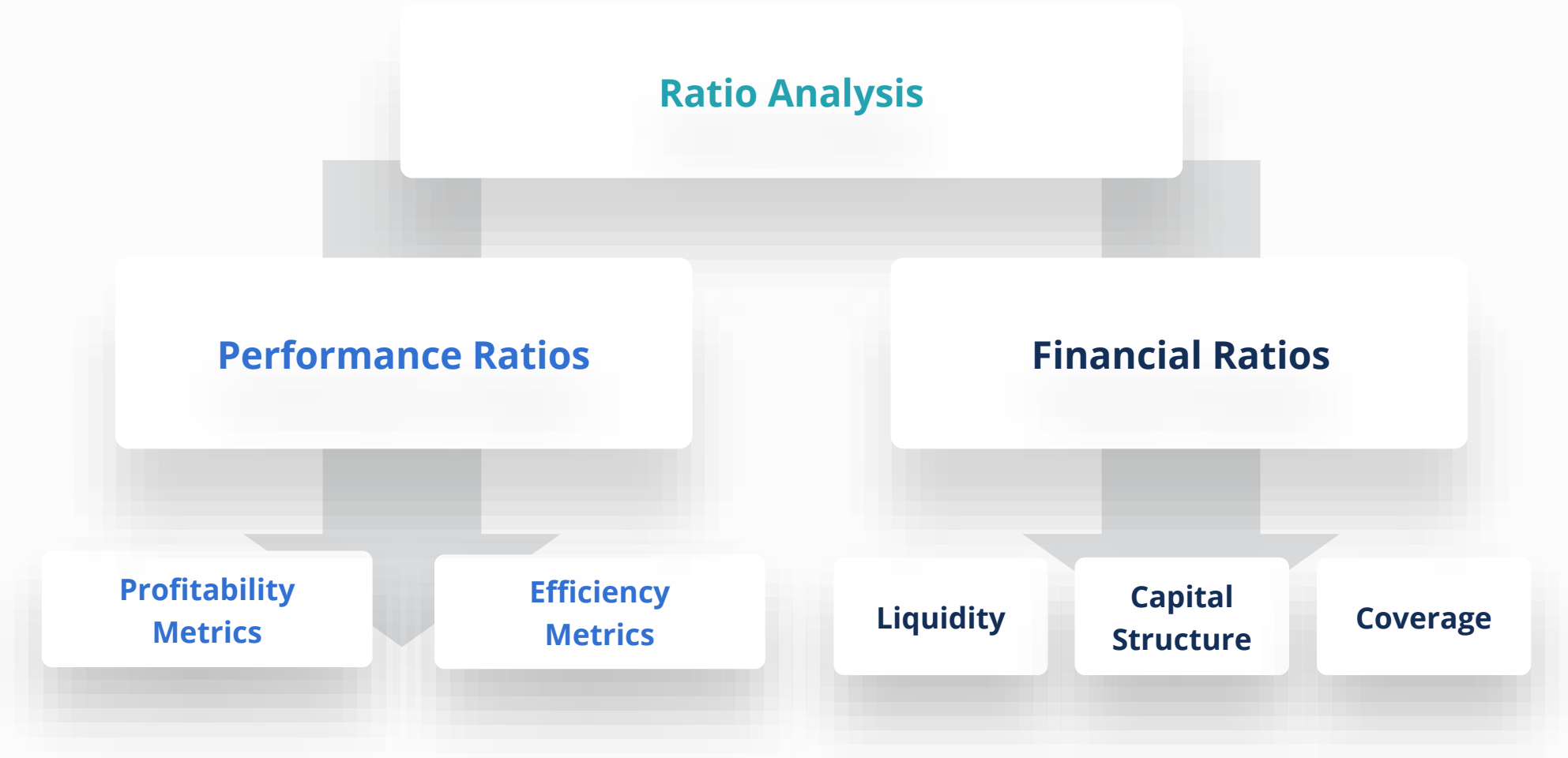
# Financial Analysis



# Financial Analysis



# Financial Analysis



# Performance Ratios – Profitability Metrics



**Gross Profit Margin**

**Gross Profit**  

---

**Revenue**



**Net Profit Margin**

**Net Income**  

---

**Sales**



**EBITDA Margin**

**EBITDA**  

---

**Revenue**

*\*Ratios are for illustration purposes. Many financial institutions adjust based on internal underwriting policies.*

# Performance Ratios – Efficiency Metrics

**Days A/R**

$$\frac{\text{Accounts Receivable}}{\text{Total Revenue}}$$

X

# of  
Days in  
Period

**Days  
Inventory**

$$\frac{\text{Inventory}}{\text{Cost of Goods Sold}}$$

X

# of  
Days in  
Period

**Days A/P**

$$\frac{\text{Accounts Payable}}{\text{Cost of Goods Sold}}$$

X

# of  
Days in  
Period

**Cash  
conversion  
cycle**

**Working  
capital cycle**



# Performance Ratios – Trend Analysis

## Profitability Metrics

- Revenue
- Gross Profit
  - Gross Profit Margin
- EBITDA
  - EBITDA Margin
- Net Income
  - Net Income Margin

## Efficiency Metrics

- Receivable Days (Sales Basis)
- Inventory Days (COGS Basis)
- Payable Days (COGS Basis)

	Year 1	Year 2	Year 3	Year 4	Year 5
	Review metrics year-over-year to see changes (trends) in a borrower's performance.				35
					43
					3%
	12,146	14,021	14,425	13,025	14,268
	Benchmark the company's performance against its industry peer group.				7%
					45
					7.2%
	Unusual trends or gaps will inform an analyst's line of questioning when conducting due diligence interviews.				52
					71
					98

# Performance Ratios – Industry Specific



**Airline**

**Revenue per  
available seat mile**



**Food Service**

**Same store sales  
growth (SSG)**



**Retail**

**Sales per square foot**

# Financial Ratios – Liquidity

Liquidity measures a company's ability to cover its **current liabilities using only its current assets.**



## Current Ratio

$$\frac{\text{Current Assets}}{\text{Current Liabilities}}$$



## Quick Ratio

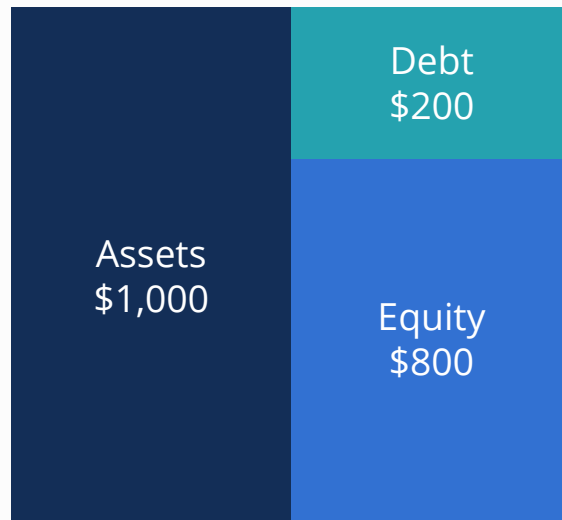
$$\frac{[\text{Current Assets} - \text{Inventory}]}{\text{Current Liabilities}}$$

*\*Ratios are for illustration purposes. Many financial institutions adjust based on internal underwriting policies.*

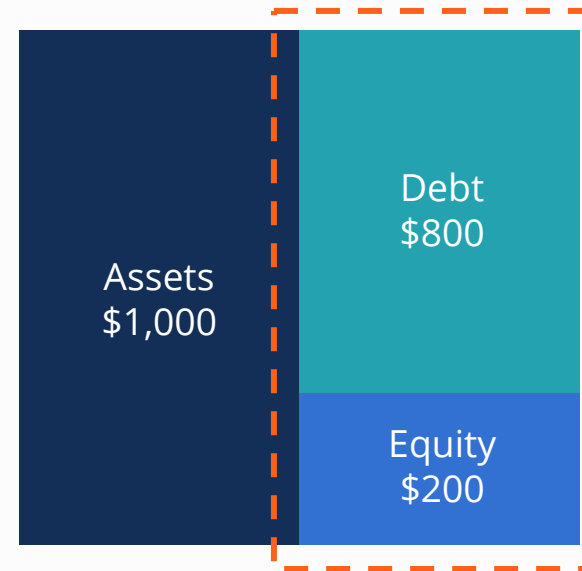
# Financial Ratios – Leverage (Gearing)

Capital structure refers to the **makeup of a company's funding sources**.

**Low Leverage**



**High Leverage**



# Financial Ratios – Leverage (Gearing)

Capital structure refers to the **makeup of a company's funding sources**.



## Debt to Equity

$$\frac{\text{Liabilities (or Funded Debt)}}{\text{Shareholder's Equity}}$$



## Debt to Tangible Net Worth

$$\frac{\text{Liabilities (or Funded Debt)}}{[\text{Equity} - \text{Intangible Assets}]}$$

*\*Ratios are for illustration purposes. Many financial institutions adjust based on internal underwriting policies.*

# Financial Ratios – Coverage

Coverage metrics assess how easily a business can **cover its annual interest obligations using its annual operating cash flow.**



**Times Interest Earned**

**EBIT**

**Interest**



**Debt Service Coverage**

**EBITDA**

**[Annual Principal + Interest  
Payments]**



**Fixed Charge Coverage**

**[EBITDA + Fixed Charges]**

**[Fixed Charges + Principal +  
Interest Payments]**

*\*Ratios are for illustration purposes. Many financial institutions adjust based on internal underwriting policies.*

# Financial Ratios



**Higher liquidity  
ratios**



**Higher coverage  
ratios**



**Lower Leverage  
Ratios**



# Financial Ratios – Trend Analysis

## Financial Ratios

EBITDA  
CPLTD  
Total Interest  
Total Obligations  
*Debt Service Coverage Ratio*  
  
Current Assets  
Current Liabilities  
*Current Ratio*  
  
Total Debt  
Total Equity  
*Debt to Equity*

Year 1	Year 2	Year 3	Year 4	Year 5
Review metrics year-over-year to see changes (trends) in a borrower's performance.				268
				217
				554
4,986	4,762	4,717	3,581	4,871
				2.9
Benchmark the company's performance against its industry peer group.				416
				928
2.3	2.4	2.8	2.7	2.5
Paint a more complete picture of a borrower's financial health.				881
				597
1.7	1.3	1.3	1.1	1.1



# Financial Ratios



Character



Capacity



Capital



Collateral



Conditions

Understanding a borrower's performance and financial ratios **helps to satisfy the Capacity and the Capital Cs of our 5 Cs framework.**

# Collateral Security



Character



Capacity



Capital



**Collateral**



Conditions

# Collateral Security

Generally, any collateral is usually better than no collateral; **however, not all security is created equally.**

**A**

If a borrower pledges **cash as collateral**, they may get 100% LTV.

**B**

If a borrower pledges **used equipment**, they might only get 50% LTV.

# Collateral Security

**Marketable**

Implies that there is an active secondary market.

**Ascertainable**

Many parties can agree upon an asset's value – often by using a 3<sup>rd</sup> party appraisal.

**Stable**

The asset's value is unlikely to experience volatility.

**Transferrable**

How easy is it to transfer title of the asset?

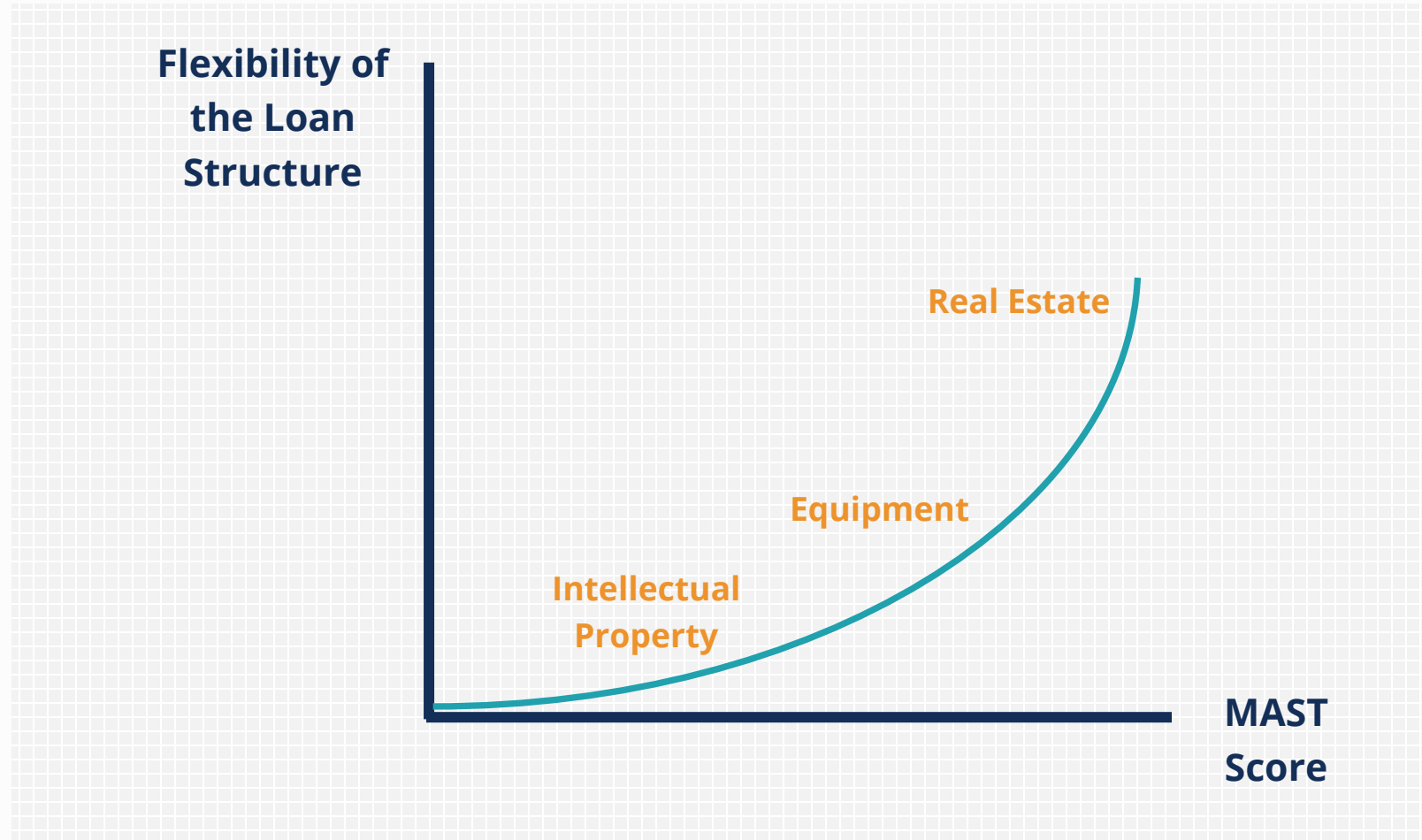
# Collateral Security

**Marketable**

**Ascertainable**

**Stable**

**Transferrable**





# Fundamentals of Credit Course Summary

# Learning Objectives



**Define** what credit is and how it's created.



**Identify** some of the different career opportunities available to credit professionals.



**Compare** different types of interest payments and loan characteristics to help inform an appropriate credit structure.



**Explain** what capital expenditure (or CAPEX) is and how debt financing can support it.



**Explain** the 5 Cs of credit framework and how it informs risk assessments.



**Identify** the important qualitative and quantitative techniques, including key financial ratios, used in the risk assessment process.