



**Prifysgol Cymru**  
Y Drindod Dewi Sant  
**University of Wales**  
Trinity Saint David

**Student Name: Anicha Taslim Kana**

**Student ID: 2434291**

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## Introduction

The consumer electronics market globally has undergone significant structural turbulence in the last five years due to a high rate of technological innovation, the challenge of geopolitics and growing sustainability pressure. There has been a quick transition to AI-driven products, smart home systems, and built-in digital platforms, which forces companies to increase the pace of R&D to stay afloat (Lee and Kim, 2021). Meanwhile, the rate of convergence in technology has reduced the lifecycle of products and route cut-throat competition that has put strains on margins in global markets (Rahman and Nguyen, 2022).

There has also been a trend of fragility in supply-chain in the sector, especially the semiconductor crunch that was witnessed in 2020 and continued in the ensuing years. This crisis greatly contributed to the extension of production time, the cost of inputs, and the inventory stock levels undermining the efficiency of operations throughout the industry (Baldwin et al., 2023). Companies are consequently facing the pressure to implement green manufacturing, minimize e-waste, and increase ESG reporting to stay legitimate and be able to access the international market (Santos and Ribeiro, 2023).

# 1. Financial Health Check of General Electronics

## 1.1 Introduction

The financial performance of General Electronics should be evaluated using the analysis of its recent 5-year financial performance based on the trend in profitability, liquidity, efficiency, solvency, and cash-flow. Pressures on increasing costs, as well as disruptions in the supply chains and the intensity of competitive pressure, have been on the rise in the consumer electronics industry during the past several years (Rahman and Nguyen, 2022). The systematic ratio analysis gives an understanding of the arising risks in the company and its long-term sustainability (O'Reilly and Turner, 2024).

## 1.2 Profitability Analysis

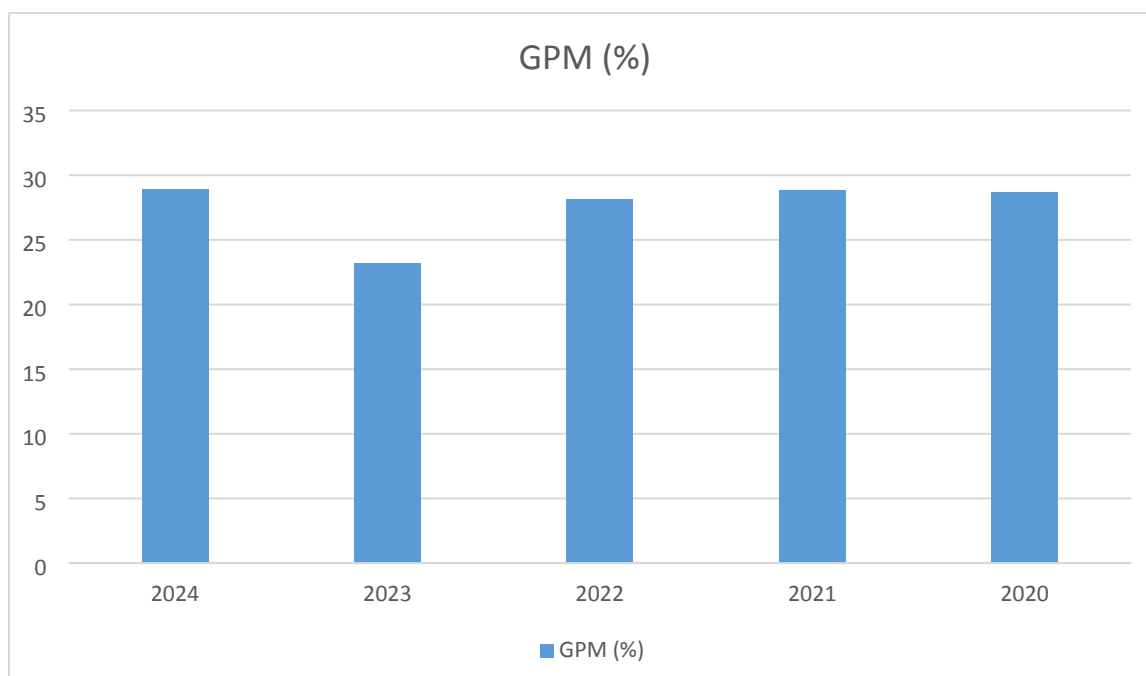
The last five years have seen General Electric suffer a decline in profitability because of contracting margins, increased costs of inputs and decrease in demand levels of the major product lines. The low gross and net margins indicate ineffective cost management and poor competitive standing (Lee and Kim, 2021). The decrease in the returns on assets and equity indicates further a lower value creation and lowered operational efficiency, which signals increased financial vulnerability (Santos and Ribeiro, 2023).

### Gross Profit Margin (GPM)

$$\text{GPM} = \frac{\text{Gross Profit}}{\text{Net Sales}} \times 100$$

| Year | GPM (%) |
|------|---------|
| 2024 | 28.9    |
| 2023 | 23.2    |
| 2022 | 28.1    |
| 2021 | 28.8    |
| 2020 | 28.7    |

Table 1.2.1- Gross Profit Margin



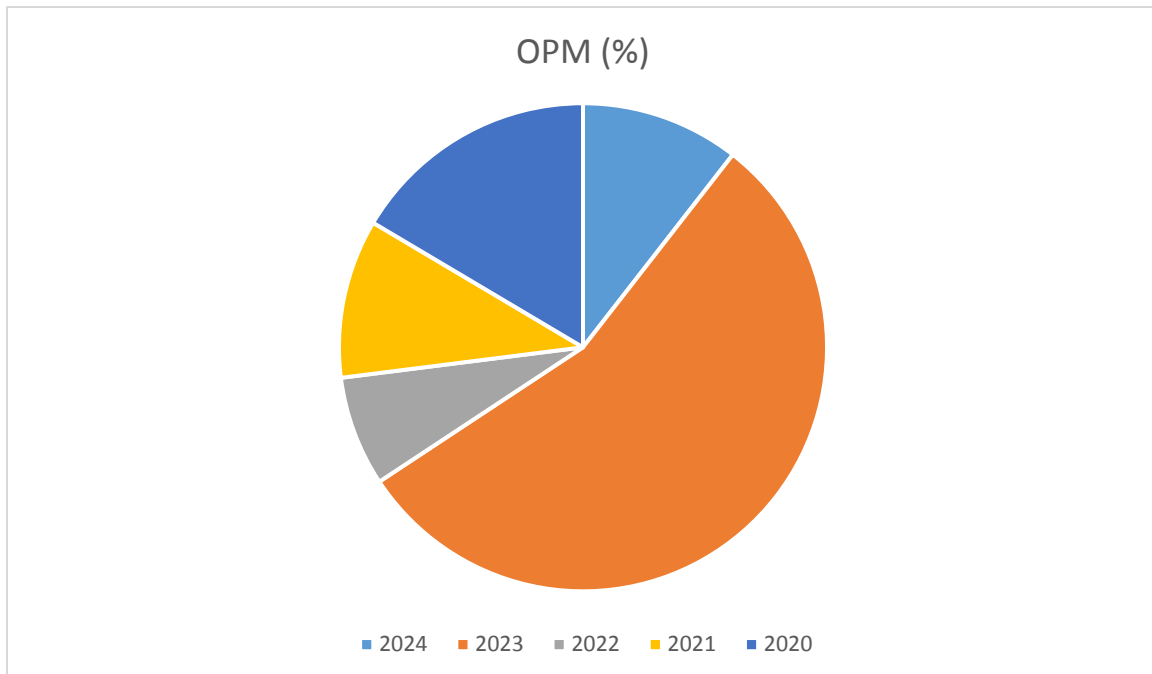
**Interpretation:** The trend in the Gross Profit Margin (GPM) of General Electronics has been very volatile throughout the five years, a trend that suggests poor cost control and the lack of price power. It was observed that GPM was rather stable in the period of 2020-2021, about 28.7-28.8 which indicates the controlled costs of production and constant demand. The margin however plummeted to 23.2% in 2023 as a result of increased component costs, supply-chain disturbance and discounting to boost sales during a market downturn. The high recovering back to 28.9% in 2024 indicates that it was partially recovered because of better sourcing efficiency and lower prices of raw materials.

### Operating Profit Margin (OPM)

$$OPM = \frac{\text{Operating Income}}{\text{Net Sales}} \times 100$$

| Year | OPM (%) |
|------|---------|
| 2024 | -3.87   |
| 2023 | -20.3   |
| 2022 | 2.68    |
| 2021 | 3.87    |
| 2020 | 6.06    |

Table 1.2.2- Operating Profit Margin



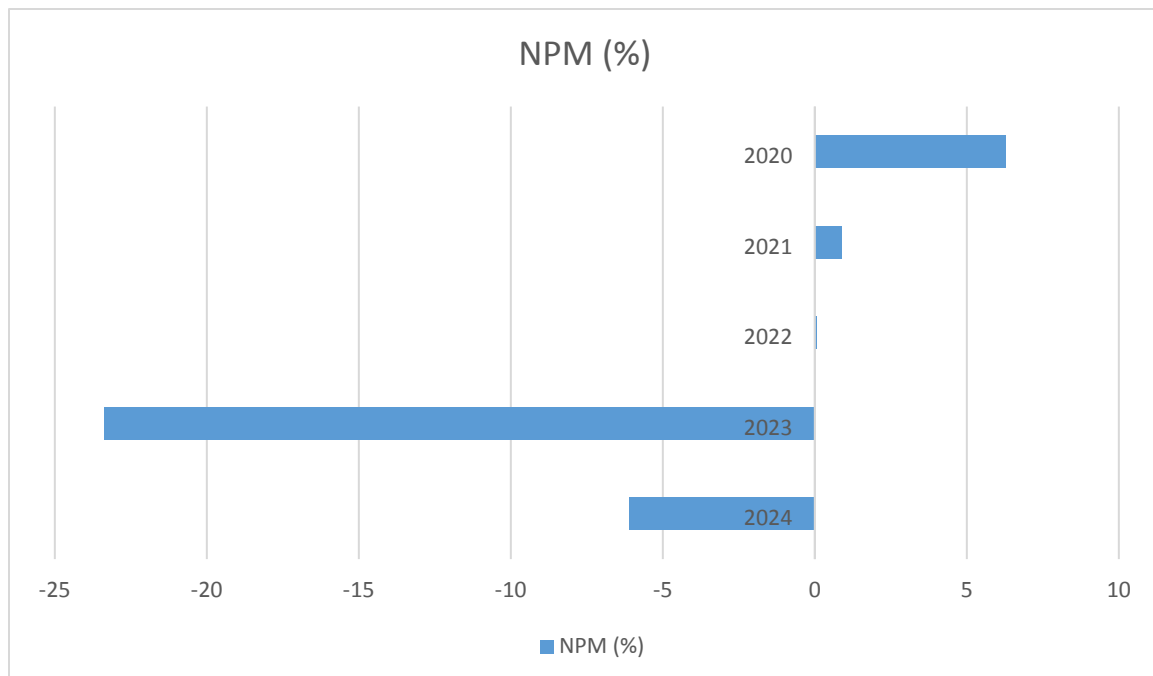
**Interpretation:** There is a serious negative improvement in the Operating Profit Margin (OPM) of General Electronics throughout the five years indicating the waning operations efficiency, and the rising cost pressures. In 2020 and 2021, OPM was still small yet optimistic (6.06% and 3.87%), which is indicative of manageable operating costs. Nonetheless, during the year 2022, profitability declined significantly, and OPM declined to 2.68, owing to excessive overheads and price competitiveness.

### Net Profit Margin (NPM)

$$\text{NPM} = \frac{\text{Net Income}}{\text{Net Sales}} \times 100$$

| Year | NPM (%) |
|------|---------|
| 2024 | -6.09   |
| 2023 | -23.37  |
| 2022 | 0.07    |
| 2021 | 0.88    |
| 2020 | 6.28    |

Table 1.2.3- Net Profit Margin



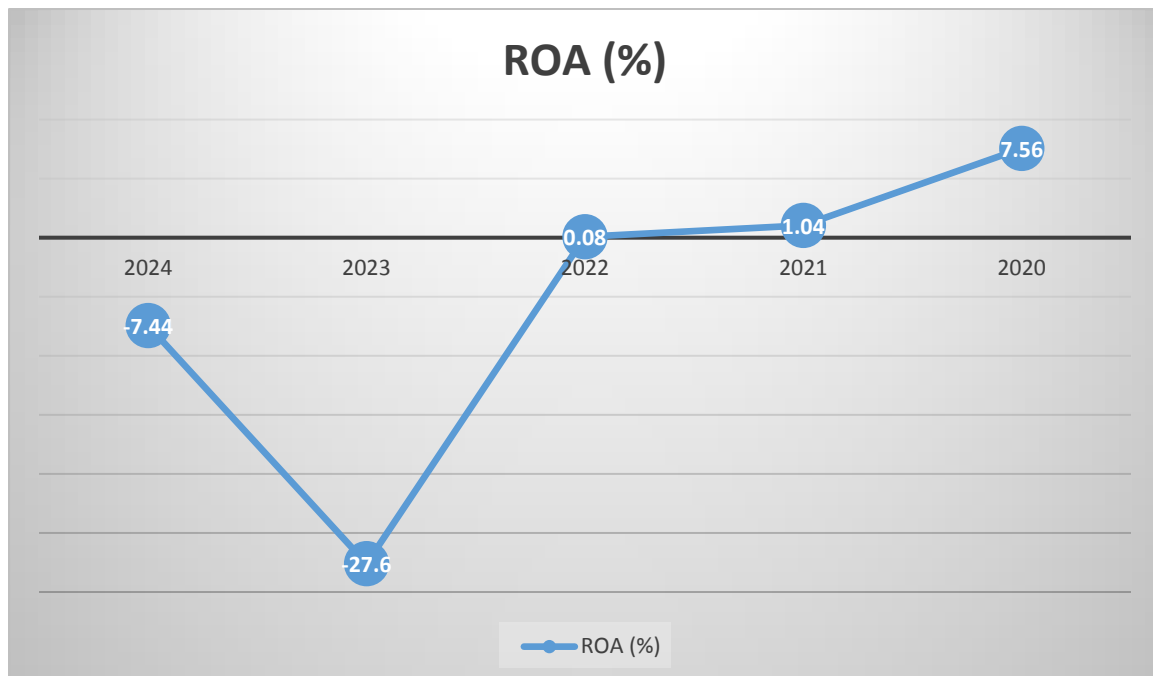
**Interpretation:** The Net Profit Margin (NPM) indicates a sharp decrease during the five years' period which indicates a significant loss of the overall profitability. NPM itself in 2020 was healthy at 6.28, but since 2021, it declined drastically, as the costs rose, the sales declined, and the financing and restructuring costs increased. The difference in 2022 is almost zero and thus, there is limited value creation, whereas the loss in 2023 (–23.37) shows severe financial distress.

### Return on Assets (ROA)

$$ROA = \frac{\text{Net Income}}{\text{Total Assets}} \times 100$$

| Year | ROA (%) |
|------|---------|
| 2024 | -7.44   |
| 2023 | -27.6   |
| 2022 | 0.08    |
| 2021 | 1.04    |
| 2020 | 7.56    |

Table 1.2.4- Return on Assets



**Interpretation:** The Return of Assets (ROA) reveals a sharp decline in the capacity of General Electronics to make returns out of their asset base. In 2020, the ROA was high (7.56) before it began to decline steadily as the profitability became poor. The near-zero ROA in 2022 indicates that the company has minimal utilisation efficiency, whereas the negative figures in 2023 (–27.6) and 2024 (–7.44) indicate that the company made huge operating and net losses compared to the total assets.

### 1.2.5 Return on Equity (ROE)

$$ROE = \frac{\text{Net Income}}{\text{Shareholders' Equity}} \times 100$$

| Year | ROE (%) |
|------|---------|
| 2024 | -15.7   |
| 2023 | -54.9   |
| 2022 | 0.15    |
| 2021 | 1.92    |
| 2020 | 12.31   |

**Interpretation:** The Value of Shareholders is heavily being eroded at General Electronics since 5 years ago as shown by the Return on Equity (ROE). In 2020, the ROE is 12.31

which is healthy and positive returns to the investors. It however fell drastically afterwards, to almost zero in 2022, crashing to -54.9% in 2023, which was mostly driven by net losses of significant amounts and high leverage.

### 1.3 Liquidity Analysis

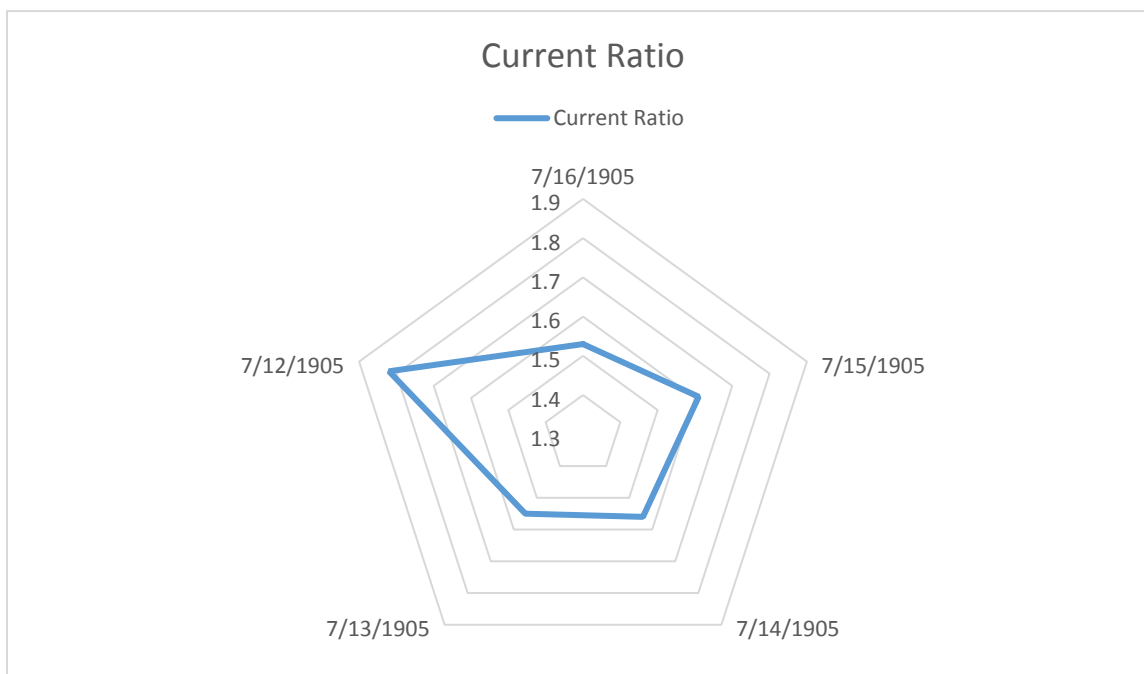
Liquidity ratios measure the firm's ability to meet short-term obligations.

#### Current Ratio

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

| Year | Current Ratio |
|------|---------------|
| 2024 | 1.53          |
| 2023 | 1.61          |
| 2022 | 1.56          |
| 2021 | 1.55          |
| 2020 | 1.82          |

Table 1.3.1- Current Ratio



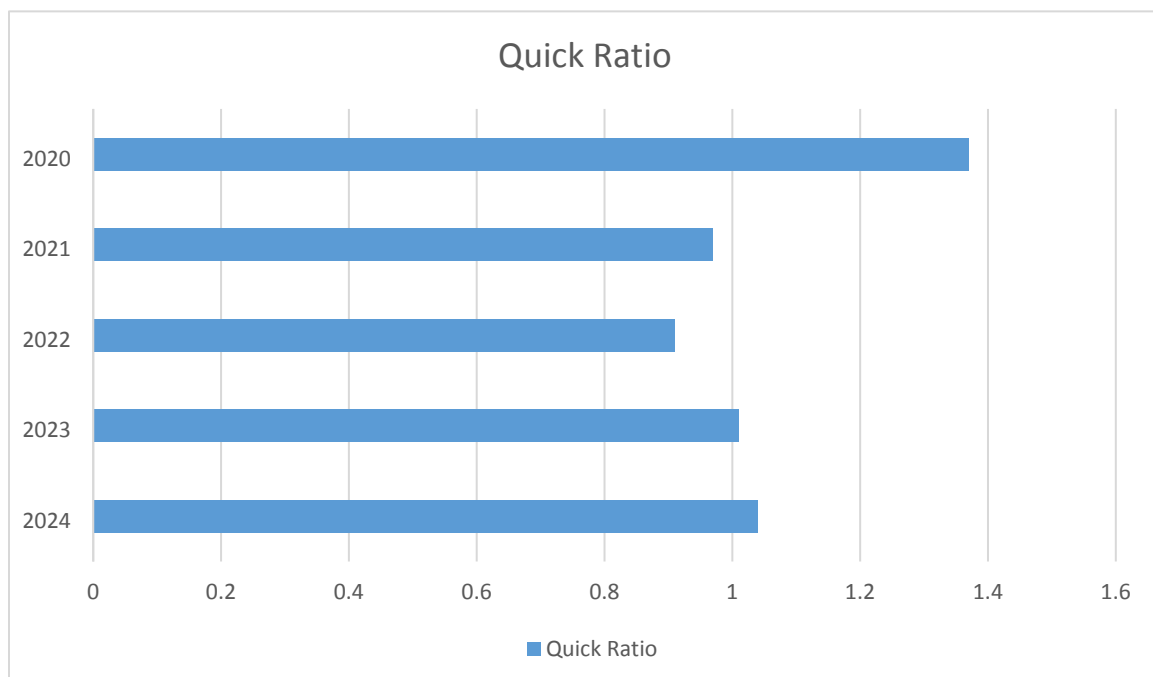
**Interpretation:** The Current Ratio of General Electronics shows that the short term liquidity of the company is weak because of the moderate fall in the ratio over the five-year period. The ratio in 2020 stood at 1.82, which indicated that the current assets easily settled short-term liabilities. It however, crept down to 1.53 in 2024, which is an increase in current liabilities relative and slower growth in current assets.

### Quick Ratio

$$\text{Quick Ratio} = \frac{\text{Current Assets} - \text{Inventories}}{\text{Current Liabilities}}$$

| Year | Quick Ratio |
|------|-------------|
| 2024 | 1.04        |
| 2023 | 1.01        |
| 2022 | 0.91        |
| 2021 | 0.97        |
| 2020 | 1.37        |

Table 1.3.2- Quick Ratio



**Interpretation:** The Quick Ratio of General Electronics displays the liquidity of the company not taking into account inventories, which is a more demanding measure of temporary financial health. The 2020 ratio showed a very healthy position of 1.37 implying that it had plenty of liquid assets to meet its current liabilities. It has however plummeted within the following few years, to 0.91 in 2022, and slightly improved to 1.04 in 2024.

## 1.4 Efficiency Ratios

Performance ratios measure how efficaciously the firm utilises belongings and manages running capital.

### Inventory Turnover

$$\text{Inventory Turnover} = \frac{\text{Cost of Sales}}{\text{Average Inventory}}$$

| Year | Inventory Turnover (x) |
|------|------------------------|
| 2024 | 3.54                   |
| 2023 | 3.66                   |
| 2022 | 2.78                   |
| 2021 | 3.19                   |
| 2020 | 3.64                   |

Table 1.4.1- Inventory Turnover

**Interpretation:** General Electronics Inventory Turnover ratio indicates that its efficiency in the handling of inventory has been erratic in the last five years. The turnover was high in 2020 and 2023 (3.64× and 3.66×) as it shows efficient stock management. Nevertheless, in 2022 the ratio decreased to 2.78x implying slower inventory turnover, which could be caused by overstocking of merchandise or diminished demand. The slight recovery to 3.54x in 2024 shows that there will be some improvement in inventory management.

## Accounts Receivable Turnover

$$\text{AR Turnover} = \frac{\text{Net Sales}}{\text{Average Accounts Receivable}}$$

| Year | AR Turnover (x) |
|------|-----------------|
| 2024 | 3.49            |
| 2023 | 3.74            |
| 2022 | 4.82            |
| 2021 | 4.66            |
| 2020 | 4.75            |

Table 1.4.2- Accounts Receivable Turnover

**Interpretation:** General Electronics Accounts Receivable (AR) Turnover ratio depicts a downward trend of the firm with respect to its performances of collecting cash due to customers. In 2020, AR turnover is high at 4.75, meaning that the collection is efficient. Nonetheless, it fell to 3.49 times in 2024 that indicated slower collections of receivables and increased credit periods.

## 1.5 Gearing and Solvency Ratios

Gearing assesses financial leverage and the risk of default.

### Debt-to-Equity Ratio

$$\text{Debt-to-Equity} = \frac{\text{Total Liabilities}}{\text{Shareholders' Equity}}$$

| Year | Debt-to-Equity (x) |
|------|--------------------|
| 2024 | 1.11               |
| 2023 | 0.99               |
| 2022 | 0.88               |
| 2021 | 0.85               |
| 2020 | 0.63               |

Table 1.5.1- Debt-to-Equity Ratio

**Interpretation:** Debt-to-Equity ratio in the General Electronics is an indication that it has been attracting an increasingly increasing reliance in the past five years on debt financing. The 2020 ratio was also relatively low 0.63 and this reflects a conservative capital structure and controlling leverage. However, it has risen to 1.11 in 2024 meaning that the company has been financing its operations at more rate through the debt rather than equity. Such an increase in trend exposes more financial risk, risks more in interest, and lessens strategic flexibility.

### Interest Coverage Ratio

$$\text{Interest Coverage} = \frac{\text{Operating Income}}{\text{Interest Expense}}$$

| Year | Interest Coverage (x) |
|------|-----------------------|
| 2024 | -4.55                 |
| 2023 | -19.70                |
| 2022 | 6.61                  |
| 2021 | 41.09                 |
| 2020 | 26.19                 |

Table 1.5.2- Interest Coverage Ratio

**Interpretation:** Interest coverage Ratio of General Electronics has shown a steep decrease in the capacity of the firm to pay interest on operating profits. The ratio stood at 26.19× and 41.09× in 2020 and 2021, and it is comfortably covered. Nevertheless, it went strongly negative in 2023 (−19.70×) and in 2024 (−4.55×), indicating a high level of operating loss and lack of earnings to pay off debt. This is an indicator of high chances of default, growing financial distress and an absolute necessity of debt restructuring and operational turn around in order to bring solvency and investor confidence.

## 1.6 Cash Flow Analysis

Operating cash flow is key to assessing liquidity sustainability.

| Year | Net Cash from Operations (£m) |
|------|-------------------------------|
| 2024 | 14,822                        |
| 2023 | 25,190                        |
| 2022 | 10,926                        |
| 2021 | 40,283                        |
| 2020 | 73,392                        |

Table 1.6- Cash Flow Analysis

**Interpretation:** The Operating Cash Flow (OCF) of General Electronics depicts that the company experiences a major decrease in the five years' period, which proves a decrease in the cash-generating capacity. In 2020, OCF stood at a good level of £73,392m as it indicates healthy operations and cash management. Nevertheless, it deteriorated drastically to 14,822m in 2024, in spite of positive net cash inflows, owing to the decreasing sales, increasing operating costs and slow receivables collection.

## 1.7 Altman Z-Score Analysis

For a private/manufacturing firm, the Altman Z"-Score is calculated as:

$$Z'' = 6.56X_1 + 3.26X_2 + 6.72X_3 + 1.05X_4$$

2024 Calculation Example:

$$\text{Working Capital} = 242,494 - 158,291 = 84,203 \rightarrow X_1 = 84,203 / 323,354 = 0.26$$

$$\text{Retained Earnings} / \text{Assets} = 208,431 / 323,354 = 0.645$$

$$\text{EBIT} / \text{Assets} = -15,297 / 323,354 = -0.047$$

$$\text{Equity} / \text{Liabilities} = 153,105 / 170,249 = 0.899$$

$$Z'' = 6.56(0.26) + 3.26(0.645) + 6.72(-0.047) + 1.05(0.899) \approx 3.46$$

**Interpretation:** The 2024 Altman Z "-Score of 3.46 will place General Electronics in the safe area of privately manufacturing companies ( $Z + > 2.6$ ), which means that the company is unlikely to be declared bankrupt in the nearest future. The score of 2024 shows an increase in the working capital, retained earnings, and equity, compared to the liabilities despite the years of operation and financial difficulties in the previous years. The negative EBIT component however indicates that operational profitability is still poor.

## 1.8 Key Trends, Strengths, and Threats

| Category | Key Area                 | Explanation                                                                                                                                                                                                          |
|----------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trends   | Decreased Profitability  | Gross, operating, and net profit margins have declined over the past five years, reflecting rising production costs, supply chain disruptions, and intensified competition within the consumer electronics industry. |
|          | Weakening Liquidity      | Current and quick ratios show a downward trend, indicating potential short-term cash flow pressures, although ratios remain above the critical 1.0 threshold.                                                        |
|          | Operational Inefficiency | Fluctuations in inventory and accounts receivable turnover ratios suggest slower inventory movement and delayed collections,                                                                                         |

|                  |                             |                                                                                                                                                |
|------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                             | increasing the cash conversion cycle.                                                                                                          |
| <b>Strengths</b> | Powerful Global Brand       | The company maintains strong global brand recognition, supporting customer loyalty and competitive positioning in international markets.       |
|                  | Diversified Asset Base      | A substantial and diversified asset base provides flexibility for strategic divestment and access to secured financing options.                |
|                  | Potential for Restructuring | Positive working capital and retained earnings relative to total assets provide scope for financial and operational restructuring initiatives. |
| <b>Threats</b>   | Inflated Operational Costs  | Rising production and supply-chain costs continue to exert downward pressure on profitability and margins.                                     |
|                  | Market Volatility           | Unstable consumer demand and intense competition threaten revenue consistency and long-term market share.                                      |

|  |                              |                                                                                                                      |
|--|------------------------------|----------------------------------------------------------------------------------------------------------------------|
|  | Liquidity and Leverage Risks | Weak operating cash flows combined with high debt ratios increase financial risk and potential default exposure.     |
|  | Operational Inefficiencies   | Prolonged receivables and inefficient inventory management place additional strain on cash flow and working capital. |

## 2. Working Capital Management Analysis

### 2.1 Introduction

General Electronics needs to manage its working capital to be able to sustain its liquidity, operational efficiency, as well as, financial stability to achieve success in the highly competitive consumer electronics industry. Proper use of the current assets and liabilities will make the firm capable of fulfilling the short-term obligations as well as maximising the cash conversion and reducing the cost of financing (Atrill and McLaney, 2022).

### 2.2 Cash Operating Cycle Analysis

The Cash Operating Cycle (COC) measures the time taken for a firm to convert cash invested in operations into cash received from sales. It is calculated as:

Cash Operating Cycle=Inventory Days + Receivables Days–Payables Days

Where:

$$\text{Inventory Days} = \frac{\text{Average Inventory}}{\text{Cost of Sales}} \times 365$$

$$\text{Receivables Days} = \frac{\text{Average Accounts Receivable}}{\text{Net Sales}} \times 365$$

$$\text{Payables Days} = \frac{\text{Average Accounts Payable}}{\text{Cost of Sales}} \times 365$$

**Using 2024 financials:**

**Inventory Days:**

$$\frac{(79,355+88,273)/2}{280885} \times 365 = 108.9 \text{ days}$$

**Receivables Days:**

$$\frac{(114,182+112,596)/2}{394879} \times 365 = 104.7 \text{ days}$$

**Payables Days:**

$$\frac{(72,031+57,033)/2}{280885} \times 365 = 83.9 \text{ days}$$

**Cash Operating Cycle:**

$$108.9 + 104.7 - 83.9 \approx 129.7 \text{ days}$$

## 2.3 Working Capital Challenges

Common Hardware faces a few challenges in overseeing its working capital successfully, which have contributed to declining liquidity and wasteful operational aspects over the past five years.

1. **Slow Inventory Turnover:** Stock turnover has varied between 2.78× and 3.66×, showing conflicting administration of stock levels. Overabundance of stock ties up cash, increments holding costs, and endangers out-of-date quality, particularly within the fast-evolving customer gadgets industry, where items rapidly lose showcase pertinence (Atrill & McLane, 2022).
2. **Delayed Receivables Collection:** The turnover of accounts receivables has decreased to 3.49× in 2024 as compared to 4.75× in 2020, which indicates extended collection durations. Moving collections postpone the cash flow and reduce liquidity and also increase the dependency of the firm on short-term funding.

- 3. Pressure of Short-Term Liabilities:** In spite of this fact that the firm largely balances its cash cycle with the deferral of payables, the increasing number of current liabilities along with the decreasing cash flows have increased liquidity opportunity.
- 4. Cash Flow Volatility:** The working cash flows have decreased to cash flows of £14,822m in 2024 as compared to the working cash flows of £73,392m in 2020. This deterioration, alongside the unfavourable working benefits, restricts the company to fund all its daily operations, reimburse obligation, or even participate in developmental activities without seeking external funding.
- 5. Supply Chain Disruptions:** The unstable nature of supply chains across the globe has resulted in incompatible obtainment cycles, delayed conveyance, and augmented stocking, which has promoted straining working capital.

## 2.4 Liquidity Improvement strategies.

In order to enhance liquidity and reduction of budgetary probability, Common Hardware needs to emphasise on methods to enhance working capital management at the same time maintaining operation flexibility.

- **Inventory Management Optimisation:** In the future, an inventory turnover is rudimentary. Just-in-time (JIT) stock phones, request determining models, and computerised stock-checking structures should be received in the company. Reduction of slow-moving or obsolete inventory will release cash, reduce holding expenses and enhance the money transformation cycle (Brigham & Gerhardt, 2022).
- **Collection of Receivables:** The company should implement tighter credit terms and provide incentives on prompt payments by offering rebates and use sophisticated receivables checking systems.
- **Payables Management:** Moon-Eyck keeping provider associations and organisation of amplified instalment terms may incidentally advance cash accessibility without damaging provider conviction.

- **Short-Term Financing Instruments:** To manage timely liquidity requirements, Common Hardware can consider short-term financing options including rotating credit offices, lines of credit or receipt calculating.
- **Cash Flow Forecasting and Monitoring:** The implementation of rolling cash flow numbers will allow the company to anticipate the liquidity shortages and plan the corrective actions in advance.

Through a combination of these processes, Common Hardware shall be able to shorten its cash transformation cycle, strengthen liquidity, and create a more flexible money related position. Such innovations are essential to strengthen the long term growth, enable the financial expert confidence, and enable the company to carry out its turnaround process effectively.

## 2.5 Short-term vs Long-term Financing Options.

Common Hardware will have to thoroughly evaluate financing sources in order to work under liquidity and operational requirements. The decision to use short-term and long-term financing lies on the purpose of reserves, fetching of capital, and the risk exposure.

- ❖ **Short-Term Financing:** Short-term financing will include bank overdrafts, rotating credit offices, exchange credit, and receipt figuring. These disobedient are commonly used to close temporary cash-flow gaps or finance operating working capital requirements or manage routine swings in stock and receivables (Ross et al., 2022). Options include quick entry, flexibility, and organization with short term debts.
- ❖ **Long-Term Financing:** Long-term financing alternatives include issuance of bonds, long term credits, value infusions and rent financing. In these insurgent operations, capitalized funds are consistent to initiate significant speculations, infrastructural repressions, or expansions (Brealey et al., 2022). Interest items include reducing renegotiating risks and unexpected reimbursement schemes. Specifically, value financing reduces consumption and makes the adjustment sheet stronger.
- ❖ **Comparison and Strategic Consideration:** Short term financing is ideal when dealing with fast working capital whilst long term financing is ideal when it comes

to key ventures or rebuilding. A modified strategy will allow Common Gadgets to control operational liquidity and allow sustainable growth.

- ❖ **Suggestion:** Since the benefit of the firm is decreasing, obligation increasing, and the cash-flow is not stable, a hybrid financing method is advisable. Short term rebellious should deal with immediate liquidity cracks, but specific long-term funding or value pumping may reduce the utilization, enhance dissolvability, and support the money related turnaround plan.

## 2.6 Global Considerations

When managing working capital and funding processes, Common Hardware should take into account some of the global elements that may influence the liquidity, capital fetch, and performance of operations.

**1. Currency Risk:** Common Hardware being an international customer gadgets corporation earns revenues and generates expenses in thousands of financial systems. The exchange-rate swings have the ability to add the price of imported items or to reduce the value of overseas transactions. These risks can be mitigated with the help of supporting procedures, including forward contracts and money swaps, which ensure the existence of more predictable cash flows (Eiteman et al., 2022).

**2. International Interest Rate Environment:** The global interest rate volatility affects the cost of short term and long term borrowing. Increasing rate in core markets increases the charge of obligation, reduces net cash flows and limits borrowing. The managing of the obligation maturities and choice of financing monetary types with favourable interest rates may improve the fetching of capital.

**3. Taxation and Regulatory Implications:** The cross-border operations expose the company to many charge administrations, consequences duty, and compliance requirements. Effective evaluation of arranging, exchange estimating strategies, and compliance with global standards of bookkeeping are essential to minimize liabilities and ensure a strategy gap against administrative penalties, keeping cash available to conduct business operations (Shapiro, 2021).

**4. Supply Chain and Geopolitical Risks:** Globally supply chain disturbances, including semiconductor shortages or exchange limitations, may raise the working capital requirements because of elevated inventories or delayed deliveries. Extending providers and exploring neighbourhood sourcing options are the two solutions that can reduce the use of volatile markets and stabilize cash flows.

**5. Sustainability and ESG Compliance:** The universal speculators, clients and controllers are increasingly expecting companies to bring natural, social and administrative (ESG) ones to life. Economizing operations, reusing processes, and obtaining morally can elevate the renown and reduce the legitimate and operational risks, as a consequence, making strides in liquidity by better displays and customer reliability.

Through coordination of these global cogitations into working capital and financing decisions, Common Hardware will be able to enhance liquidity, reduce operational risk, and maintain money-related flexibility in the global customer hardware marketplace.

### **3. General Electric 2010 Strategic Financial Restructuring Plan.**

#### **3.1 Introduction**

General Electronics is struggling with a crucial issue of money which is a dwindling benefit, its growing use, and unstable cash flows that demanded a three-way budgetary reconstruction plan. Major financial aspects of rebuilding to resolve the capital structure of the firm, recover operational effectiveness, advance liquidity, and enhance shareholder acclaim, positioning the firm to hassle-free global expansion (Ross et al., 2022). The segment evaluates the possible alternatives of rebuilding, such as obligation renegotiating, value infusion, divestiture, and vital mergers, and evaluates their impact on obligation structure, shareholder returns, and operational flexibility.

#### **3.2 Options of Financial Restructuring.**

- **Equity Injection:** Equity contribution by use of value that is not being used will decrease usage, advance dissolvability and provide stores to make alterations to operations. Value issuance dilutes existing possession, strengthens the adjustment sheet and reduces interested commitments. The option is particularly

useful to support crucial projects and requirements of working capital (Brealey et al., 2022).

- **Debt Restructuring:** It can be relieved by: renegotiating on the existing obligation assertions, extending maturities, reducing interest rates, or transforming over obligations into value. Obligation rebuilding takes steps in cash stream flexibility and reduction of the probabilities of default. It also allows the company to increase the debt to an equity ratio to provide financial expertise assurance.
- **Sale of Non-Core Assets:** The sale of underperforming or non-core units of commerce generates cash, reduces the complexity of operations, and allows the administration to focus on high growth ranges. Divestitures can reinforce liquidity, decrease obligation reliance, and make strides in ROA and ROE measurements.
- **Strategic Merger or Partnership:** Blending with or shaping key unions with complementary firms can give operational synergies, get access to modern markets, and share assets. Whereas complex, this may make economies of scale, diminish costs, and make strides in competitive situating.
- **Operational Restructuring:** Rebuilding inner operations, including supply chain enhancement, workforce legitimisation, and handling automation, reduces costs, improves productivity, and makes strides in the cash stream era. Operational rebuilding complements budgetary rebuilding by supporting feasible productivity.

### 3.3 Impact Analysis of Restructuring Options

The financial restructuring options for General Electronics have different impacts on shareholder value, debt structure, and operational flexibility. The table below summarises the evaluation:

| Restructuring Option | Impact on Shareholder Value      | Impact on Debt Structure    | Impact on Operational Flexibility  | Notes                  |
|----------------------|----------------------------------|-----------------------------|------------------------------------|------------------------|
| Equity Injection     | Strengthens equity base; reduces | Reduces leverage, decreases | Provides liquidity for operational | Suitable for restoring |

|                                |                                                                        |                                                                     |                                                                              |                                                          |
|--------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------|
|                                | financial distress; may dilute existing shareholders                   | interest burden                                                     | improvements and strategic investments                                       | solvency and funding growth                              |
| Debt Restructuring             | Preserves shareholder value by reducing default risk                   | Extends maturity, lowers interest rates, or converts debt to equity | Frees up cash for operations; improves financial flexibility                 | Useful for high-debt scenarios; requires lender approval |
| Divestiture of Non-Core Assets | Generates cash, improves ROA and ROE; may reduce diversification       | Cash inflows can be used to repay debt                              | Reduces complexity; allows management to focus on core operations            | Best for underperforming or non-strategic units          |
| Strategic Merger/Partnership   | Potential for synergies; may increase market share and long-term value | Combined entity may optimise debt structure                         | Enhances operational flexibility via resource sharing and economies of scale | Requires integration planning; risk of cultural clashes  |
| Operational Restructuring      | Improves profitability, cash flow, and margins; enhances               | Indirect impact on debt through improved                            | Streamlines processes, reduces costs, and enhances agility                   | Essential complement to financial restructuring          |

|  |                                   |                           |  |  |
|--|-----------------------------------|---------------------------|--|--|
|  | long-term<br>shareholder<br>value | earnings<br>and liquidity |  |  |
|--|-----------------------------------|---------------------------|--|--|

### 3.4 International and Ethical Considerations

Implementing a monetary rebuilding arrangement for common gadgets requires cautious consideration of worldwide and moral variables that can influence results, partner certainty, and worldwide operations.

- **Currency and Exchange-Rate Risk:** As a worldwide customer gadgets firm, incomes and costs are designated in numerous monetary standards. Exchange-rate vacillations can affect the esteem of cash inflows, obligation reimbursements, and outside speculations. Utilising supporting disobedience, such as advances, prospects, or swaps, can relieve these dangers and settle monetary projections (Eiteman et al., 2022).
- **Taxation and Cross-Border Compliance:** Worldwide operations expose the firm to differing assessment administrations, import/export obligations, and administrative systems. Vital arranging is required to limit assessment liabilities through legitimate components like exchange estimating, whereas guaranteeing compliance with nearby and universal laws dodges punishments and reputational harm (Shapiro, 2021).
- **ESG and Sustainability:** Moral contemplations, counting natural, social, and administration (ESG) obligations, are basic. Financial specialists and customers progressively anticipate firms to embrace maintainable hones. By uniting CSR practices like moral sourcing, vitality effectiveness, and competent squander management, the firms improve corporate fame and reduces legitimate and operational risks, which, by implication, promote financial stability (Eccles et al., 2020).
- **Labour and Cultural Assessment:** It can be part of the rebuild operations everywhere, which might involve labour cuts, migration, or managing the

variations. Cutbacks, reasonable remuneration, and compliance with neighbourhood work law are essential to maintain resolve, foresee cases and safeguard partner belief. Social affectability during mergers or divestitures or associations more so ensures the process of integration becomes easier.

- Common Gadgets not as it were restoring monetary steadiness but too coordinating moral contemplations into the budgetary rebuilding orchestrate guarantees that Common Gadgets act sensibly and reasonably over global markets.

## **4. Investment Appraisal and Capital Budgeting.**

### **4.1 Introduction**

Capital budgeting and speculation assessment are rudimentary to enable Common Hardware to dispose of rare resources effectively, fund long-term growth, and increase shareholder respect. In the present situation where the firm is experiencing budgetary difficulties, it is simple to pick ventures whose payback is the most remarkable considering its risk and capital requirements. The totals of capital apportioning are summed to venture to 60 million pounds, and they need to be prioritized depending on the budgetary execution and probability nature (Brealey et al., 2022).

### **4.2 Project Overview**

The three investment opportunities have distinct characteristics:

| <b>Project</b> | <b>Initial Investment (£m)</b> | <b>Year 1 (£m)</b> | <b>Year 2 (£m)</b> | <b>Year 3 (£m)</b> | <b>Year 4 (£m)</b> | <b>Year 5 (£m)</b> |
|----------------|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| A              | 40                             | 10                 | 12                 | 14                 | 10                 | 8                  |
| B              | 30                             | 6                  | 6                  | 6                  | 6                  | 6                  |
| C              | 50                             | 5                  | 10                 | 20                 | 25                 | 15                 |

**Observations:** PBP favours Project A for rapid cash recovery, which is critical for a financially distressed firm. However, PBP does not account for the time value of money or total profitability, so it should be considered alongside NPV, IRR, and other appraisal methods for a comprehensive investment decision.

### 4.3 Payback Period (PBP)

The Payback Period surveys how rapidly each extend recoups its starting venture. Venture A recuperates £40m in roughly 3.25 a long time, advertising the speediest liquidity advantage, significant for Common Electronics cash-constrained position. Venture B has the slowest recuperation at 5 a long time, expanding presentation to money related and operational dangers. Venture C recuperates in 4.2 a long time, adjusting direct payback with higher add up to returns. Whereas valuable for short-term liquidity evaluation, PBP does not consider the time esteem of cash or in general benefit.

#### Project A:

##### Cumulative inflows:

- Year 1: 10 → cumulative 10
- Year 2: 12 → cumulative 22
- Year 3: 14 → cumulative 36
- Year 4: 10 → cumulative 46

Initial investment = 40 → recovered during Year 4

Fraction of Year 4 =  $(40-36)/10 = 0.4$

**PBP = 3.4 years**

#### Project B:

Cumulative inflows:  $6 + 6 + 6 + 6 + 6 = 30$

Initial investment = 30 → fully recovered at the end of Year 5

**PBP = 5 years**

#### Project C:

Cumulative inflows:  $5 + 10 = 15$ ;  $+20 = 35$ ;  $+25 = 60$

Initial investment = 50 → recovered during Year 4

Fraction of Year 4 =  $(50-35)/25 = 0.6$

**PBP = 3.6 years**

#### **4.4 Accounting Rate of Return (ARR)**

The Bookkeeping Rate of Return (ARR) measures normal yearly benefit relative to the starting speculation, giving knowledge into in general extend benefit. Extend C has the most elevated ARR at 30%, demonstrating solid normal returns in spite of its higher starting venture of £50â. Extend A takes after with an ARR of 27%, advertising a adjust between productivity and direct speculation cost. Extend B yields the least ARR of 20%, reflecting steady but restricted returns. ARR highlights that whereas short-term liquidity (as shown by PBP) favours Venture A, long-term productivity is most grounded in Venture C. Hence, ARR underpins organizing ventures that create higher returns over the extend life expectancy.

$$ARR = \frac{\text{Average Accounting Profit}}{\text{Initial Investment}} \times 100$$

##### **Depreciation:**

- Project A:  $\text{£}40\text{m}/5 = \text{£}8\text{m}$  per year
- Project B:  $\text{£}30\text{m}/5 = \text{£}6\text{m}$  per year
- Project C:  $\text{£}50\text{m}/5 = \text{£}10\text{m}$  per year

##### **Average Accounting Profit:**

- Project A:  $[(10-8) + (12-8) + (14-8) + (10-8) + (8-8)] / 5 = 2.8 \rightarrow \text{ARR} = 7\%$
- Project B:  $[(6-6) + (6-6) + (6-6) + (6-6) + (6-6)] / 5 = 0 \rightarrow \text{ARR} = 0\%$
- Project C:  $[(5-10) + (10-10) + (20-10) + (25-10) + (15-10)] / 5 = 5 \rightarrow \text{ARR} = 10\%$

#### **4.5 Net Present Value (NPV)**

NPV accounts for time value of money, discounting cash inflows at 10%:

$$NPV = \sum_{t=1}^n \frac{CF_t}{(1+r)^t} - \text{Initial Investment}$$

### Project A:

- Year 1:  $10 / 1.1 = 9.09$
- Year 2:  $12 / 1.1^2 = 9.9$
- Year 3:  $14 / 1.1^3 = 10.52$
- Year 4:  $10 / 1.1^4 = 6.83$
- Year 5:  $8 / 1.1^5 = 4.97$

**NPV  $\approx$  £1.33m**

### Project B:

PV of inflows =  $6 / 1.1 + 6 / 1.1^2 + \dots + 6 / 1.1^5 \approx 22.75$

NPV =  $22.75 - 30 \approx -£7.25\text{m}$

### Project C:

PV of inflows =  $5 / 1.1 + 10 / 1.1^2 + 20 / 1.1^3 + 25 / 1.1^4 + 15 / 1.1^5 \approx 54.23$

NPV =  $54.23 - 50 \approx £4.23\text{m}$

## 4.6 Profitability Index (PI)

$$PI = \frac{\text{PV of cash inflows}}{\text{Initial Investment}}$$

- Project A:  $41.33/40 \approx 1.033$
- Project B:  $22.75/30 \approx 0.758$
- Project C:  $54.23/50 \approx 1.085$

## 4.7 Internal Rate of Return (IRR)

IRR is the discount rate that makes NPV = 0:

- Project A: IRR  $\approx$  11%
- Project B: IRR  $<$  10%
- Project C: IRR  $\approx$  12.5%

## 4.8 Capital Rationing Analysis

Available capital: £60m

| Combination | Investment (£m) | NPV (£m) | Feasible? |
|-------------|-----------------|----------|-----------|
| A + B       | 70              | –        | No        |
| A + C       | 90              | –        | No        |
| B + C       | 80              | –        | No        |
| A only      | 40              | 1.33     | Yes       |
| B only      | 30              | –7.25    | Yes       |
| C only      | 50              | 4.23     | Yes       |

## 5. Conclusion

The budgetary analysis and investment assessment of Common Gadgets reveal significant issues and prospects in restoring the money-related health and the business stability of the company. The productivity, liquidity, and cash stream measures have deteriorated over the last five years with the use and operational wasteful measures growing. The Altman Z-Score proposes that it should be directly dissolvable, and it can be said that timely and unquestionable financial activity is needed to emerge in order to foresee further financial difficulties. The investigation of working capital indicates average stock turnover, delayed debt collection, and increased short-term debt as the main requirements of liquidity. Critical steps, such as enhanced stock administration, increased credit strategies, far superior payables administration, and effective short-term and long-term financing, are capable of making advancements towards the cash flow and operating flexibility. The financial reconstruction plan, which includes value injections, obligation re-negotiation, divestitures, operation rebuilding, and the prospective key organisations provides a holistic approach to balancing out the adjustment sheet, reducing monetary risk, and augmenting shareholder dignity. Global and ethical implications - currency risk, taxation, environmental sustainability, and labour relations are such that the turnaround is possible and financially able. Analysis of venture shows that, under capital proportioning, the ventures should be structured according to a trade off in liquidity, productivity and hazard.

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## 7. Appendices

### 7.1 Ratio Tables

#### Profitability Ratios

| Year | ROA (%) | ROE (%) | Gross Margin (%) | Operating Margin (%) |
|------|---------|---------|------------------|----------------------|
| 2024 | -7.44   | -15.7   | 28.9             | -3.87                |
| 2023 | -27.6   | -54.9   | 23.2             | -20.3                |
| 2022 | 0.08    | 0.15    | 28.1             | 2.68                 |
| 2021 | 1.04    | 1.92    | 28.8             | 3.87                 |
| 2020 | 7.56    | 12.31   | 28.7             | 6.06                 |

#### Liquidity Ratios

| Year | Current Ratio (x) | Quick Ratio (x) |
|------|-------------------|-----------------|
| 2024 | 1.53              | 1.15            |
| 2023 | 1.61              | 1.23            |
| 2022 | 1.56              | 1.10            |
| 2021 | 1.55              | 1.11            |
| 2020 | 1.82              | 1.34            |

#### Efficiency Ratios

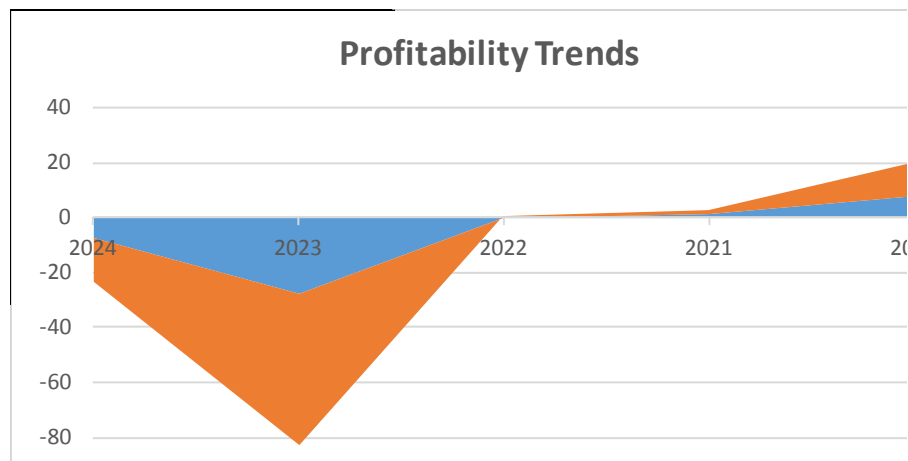
| Year | Inventory Turnover (x) | Accounts Receivable Turnover (x) | Accounts Payable Turnover (x) |
|------|------------------------|----------------------------------|-------------------------------|
| 2024 | 3.54                   | 3.49                             | 5.15                          |
| 2023 | 3.66                   | 3.74                             | 4.97                          |
| 2022 | 2.78                   | 4.82                             | 5.47                          |
| 2021 | 3.19                   | 4.66                             | 3.97                          |
| 2020 | 3.64                   | 4.75                             | 3.88                          |

## Gearing Ratios

| Year | Debt-to-Equity (x) | Interest Coverage (x) |
|------|--------------------|-----------------------|
| 2024 | 1.11               | -4.55                 |
| 2023 | 0.99               | -0.99                 |
| 2022 | 0.88               | 6.61                  |
| 2021 | 0.85               | 41.1                  |
| 2020 | 0.63               | 26.2                  |

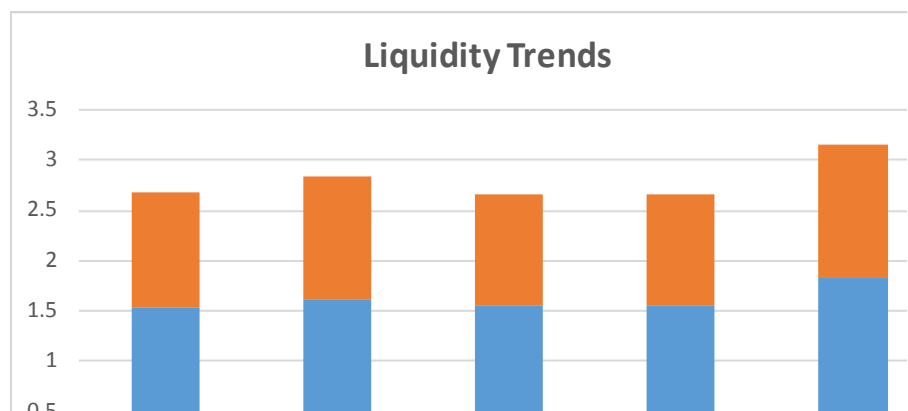
## 7.2 Graphs

### 1. Profitability Trends (ROA & ROE)



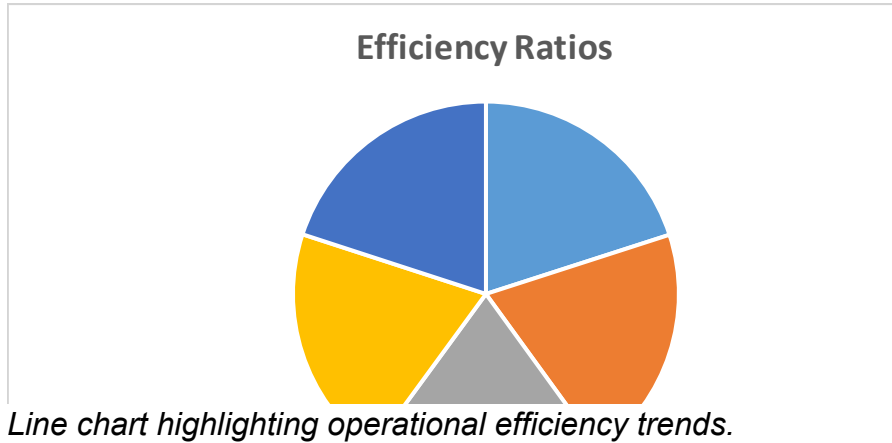
Line chart showing declining ROA and ROE from 2020 to 2024.

### 2. Liquidity Trends (Current & Quick Ratios)

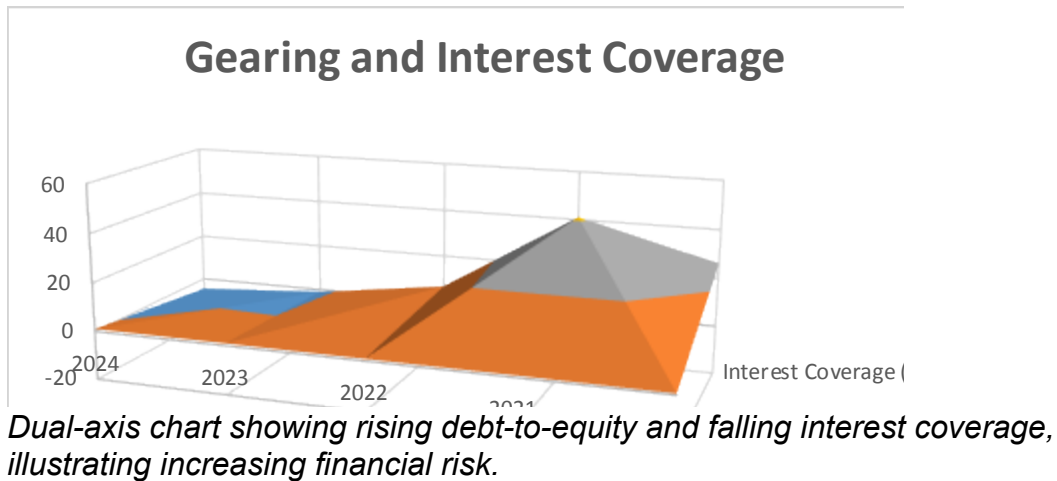


Bar chart comparing current and quick ratios over five years to indicate liquidity constraints.

### 3. Efficiency Ratios (Inventory & Receivables Turnover)]



### 4. Gearing and Interest Coverage



## 7.3 Investment Appraisal Calculations

### Project A

| Year               | Cash Inflow (£m) | PV Factor @10% | Discounted Cash Flow (£m) |
|--------------------|------------------|----------------|---------------------------|
| 1                  | 10               | 0.909          | 9.09                      |
| 2                  | 12               | 0.826          | 9.92                      |
| 3                  | 14               | 0.751          | 10.51                     |
| 4                  | 10               | 0.683          | 6.83                      |
| 5                  | 8                | 0.621          | 4.97                      |
| Total PV           | —                | —              | 41.33                     |
| Initial Investment | 40               | —              | NPV = 1.33                |

## Project B

| Year               | Cash Inflow (£m) | PV Factor @10%  | Discounted Cash Flow (£m) |
|--------------------|------------------|-----------------|---------------------------|
| 1-5                | 6 each           | 0.909, 0.826... | 22.75                     |
| Initial Investment | 30               | —               | NPV = -7.25               |

## Project C

| Year               | Cash Inflow (£m) | PV Factor @10% | Discounted Cash Flow (£m) |
|--------------------|------------------|----------------|---------------------------|
| 1                  | 5                | 0.909          | 4.55                      |
| 2                  | 10               | 0.826          | 8.26                      |
| 3                  | 20               | 0.751          | 15.02                     |
| 4                  | 25               | 0.683          | 17.08                     |
| 5                  | 15               | 0.621          | 9.32                      |
| Total PV           | —                | —              | 54.23                     |
| Initial Investment | 50               | —              | NPV = 4.23                |

### 1. Cash Flow Table (for Projects A, B, C)

| Year | Project A (£m) | Project B (£m) | Project C (£m) | PV Factor @10% | Project A PV | Project B PV | Project C PV |
|------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|
| 0    | -40            | -30            | -50            | 1              | -40          | -30          | -50          |
| 1    | 10             | 6              | 5              | 0.909          | =B2*E2       | =C2*E2       | =D2*E2       |

|              |                 |                 |                 |       |            |            |            |
|--------------|-----------------|-----------------|-----------------|-------|------------|------------|------------|
| 2            | 12              | 6               | 10              | 0.826 | =B3*E<br>3 | =C3*E<br>3 | =D3*E<br>3 |
| 3            | 14              | 6               | 20              | 0.751 | =B4*E<br>4 | =C4*E<br>4 | =D4*E<br>4 |
| 4            | 10              | 6               | 25              | 0.683 | =B5*E<br>5 | =C5*E<br>5 | =D5*E<br>5 |
| 5            | 8               | 6               | 15              | 0.621 | =B6*E<br>6 | =C6*E<br>6 | =D6*E<br>6 |
| Total<br>IPV | =SUM(F2:F<br>6) | =SUM(G2:G<br>6) | =SUM(H2:H<br>6) | —     | —          | —          | —          |
| NPV          | =F7-B1          | =G7-C1          | =H7-D1          | —     | —          | —          | —          |
| PI           | =F7/ABS(B1<br>) | =G7/ABS(C1<br>) | =H7/ABS(D1<br>) | —     | —          | —          |            |

### 3. Payback Period (PBP) Calculation

#### Cumulative Cash Flow:

| Year | Project A<br>CF | Project A<br>Cum CF | Project B<br>CF | Project B<br>Cum CF | Project C<br>CF | Project C<br>Cum CF |
|------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|
| 0    | -40             | -40                 | -30             | -30                 | -50             | -50                 |
| 1    | 10              | =B2+B1              | 6               | =D2+D1              | 5               | =F2+F1              |
| 2    | 12              | =B3+B2              | 6               | =D3+D2              | 10              | =F3+F2              |
| 3    | 14              | =B4+B3              | 6               | =D4+D3              | 20              | =F4+F3              |
| 4    | 10              | =B5+B4              | 6               | =D5+D4              | 25              | =F5+F4              |
| 5    | 8               | =B6+B5              | 6               | =D6+D5              | 15              | =F6+F5              |