# Cerexio
# TIM

## Cerexio Total Investment Modelling System

Transforming Asset Investment with Intelligence

www.cerexio.com

# Introduction

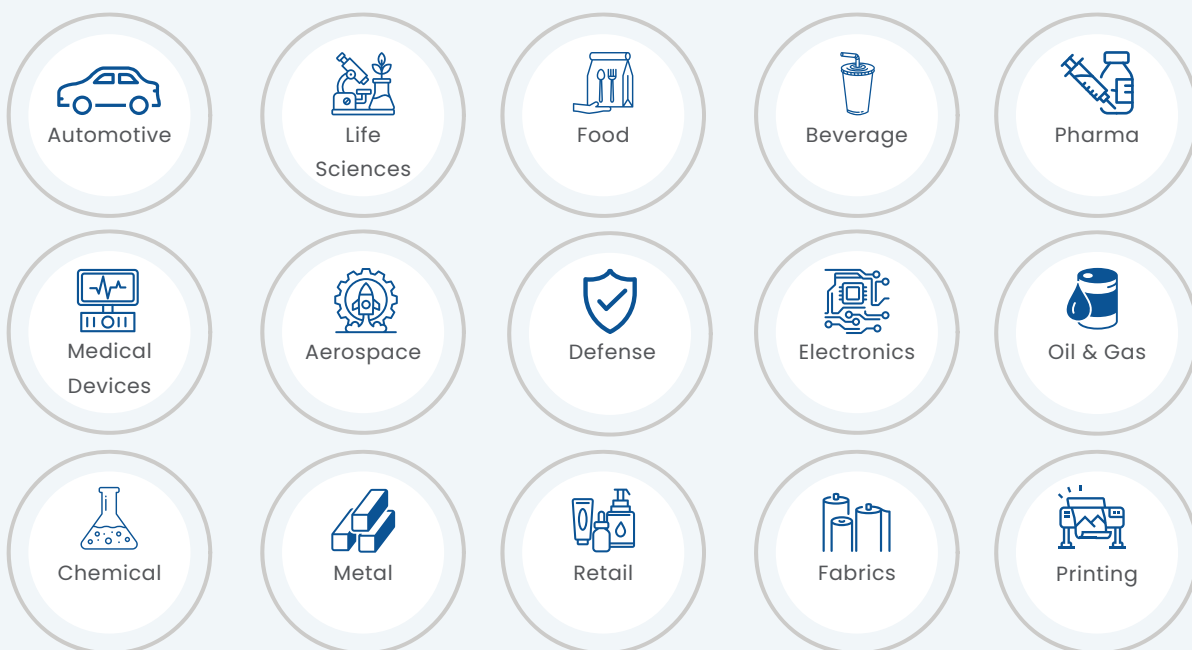## Smart Investments. Greater Returns.

Cerexio Total Investment Modelling System empowers asset-centric organisations to make smarter financial decisions by integrating AI-driven analytics, condition-based assessments, and predictive insights. It delivers comprehensive investment planning to reduce risks, improve infrastructure efficiency, and future-proof your capital asset management strategies.
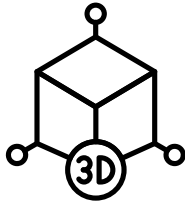
## Smart investments today build resilient assets for tomorrow

@Cerexio Financial Asset Modelling Team

## Industries We Serve

| | | | | |
|---|---|---|---|---|
| Automotive | Life Sciences | Food | Beverage | Pharma |
| Medical Devices | Aerospace | Defense | Electronics | Oil & Gas |
| Chemical | Metal | Retail | Fabrics | Printing |

# Key Highlights

### 1. Comprehensive Modelling

Manage over 500,000 asset components across 10+ asset classes within a unified platform.

### 2. Risk Reduction by 300%

Minimise investment risks while maintaining budget efficiency and strategic alignment.
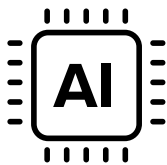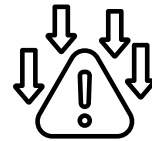
### 3. AI-Powered Assessment

Leverage machine learning to analyse asset degradation and optimise investment timing.

### 4. Multiple Budget Scenario Analysis

Compare financial plans and select the most effective strategy based on realistic scenarios.
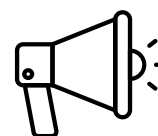
### 5. GIS-based Financial Mapping

Visualise city-wide asset investments and financial impacts on an integrated GIS platform.

### 6. Automated Risk Alerts

Receive real-time notifications on budgeting anomalies, fraud, and financial threats.

# Industry 4.0 Capabilities We Offer
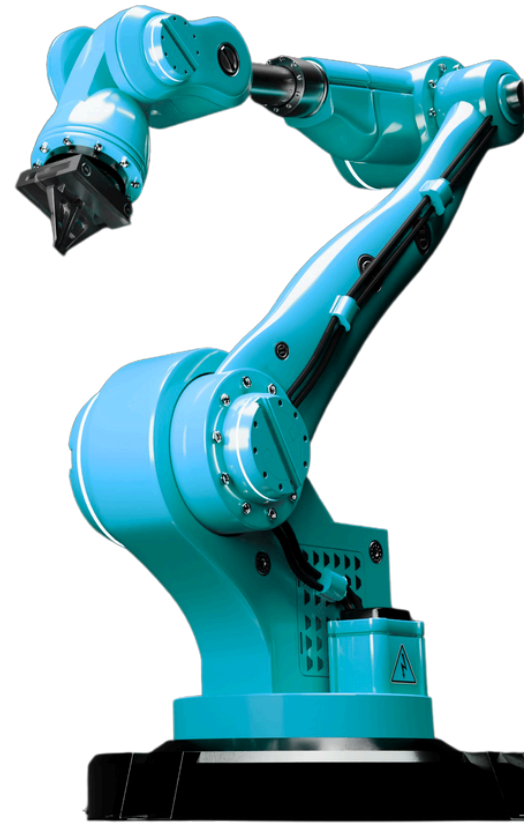
**1** AI & Machine Learning

**2** Big Data

**3** GIS

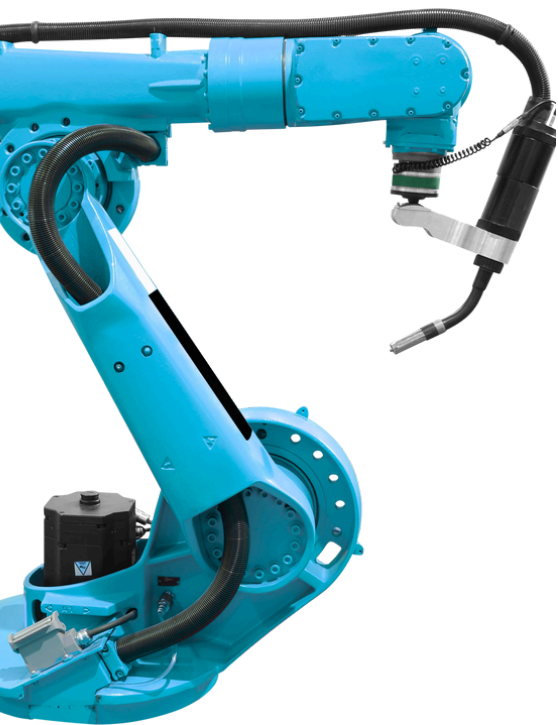**4** AR/VR

**5** Simulation

**6** Satellite Remote Sensing

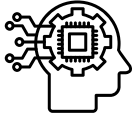**7** CCTV and Laser

**8** 5G, IoT, Quantum Sensors

**9** Digital Twin

**10** Robotics and CPS

# Cerexio TIM Modules

## Machine Learning Models

Leverage advanced machine learning models trained on historical and real-time data to accurately predict resource consumption patterns and forecast investment outcomes. This enables proactive planning, optimised asset utilisation, and improved financial decision-making aligned with organisational goals and operational realities.

## Condition-Based Asset Degradation

Analyse asset depreciation by evaluating structural integrity, environmental impact, and operational conditions. This module provides fact-based insights into asset value decline, enabling precise timing for maintenance and investments, reducing unexpected failures, and extending asset lifecycle through condition-driven financial planning.

## Budget Scenario Analysis

Compare multiple budget scenarios by simulating different financial strategies and constraints. This module helps organisations evaluate the impact of various investment plans, identify optimal budget allocations, and make informed decisions that balance risk, cost, and asset performance objectives.

## Predictive Analytics

Utilise predictive analytics to forecast the financial effects of investments, maintenance, and operational decisions. By anticipating potential risks and benefits, organisations can tailor risk mitigation plans, optimise capital allocation, and enhance the reliability and resilience of asset portfolios.

# Cerexio TIM Modules
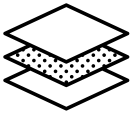
## GIS Layers Integration

Integrate Geographic Information System (GIS) layers to visualise and analyse asset financial data spatially. This enables comprehensive city-wide or region-based financial assessments, facilitating strategic investment decisions by correlating asset locations with economic, environmental, and operational factors.

## Risk Hazard Indicators

Automatically detect anomalies and unusual patterns in budgeting, spending, and investment activities. This module issues real-time alerts to financial specialists, helping prevent fraud, manage financial risks, and ensure compliance with organisational policies and regulatory requirements.

## Prescriptive Analytics

Receive AI-driven recommendations for mitigating risks and optimising investment strategies. This module prescribes actionable plans and countermeasures to address potential asset losses, ensuring high-value decision-making and continuous improvement in capital asset financial management.

## Cost Recovery Strategies

Simulate and develop effective cost recovery methods based on asset condition, social impact, and resource availability. This module helps organisations identify opportunities to recoup expenses, improve ROI, and maintain sustainable financial health through strategic investment planning.

# Cerexio TIM Modules

## Unbiased Financial Estimation

Provide accurate, comprehensive, and unbiased estimates of capital, maintenance, and operating costs by eliminating subjective biases. This ensures transparent and reliable financial projections that support objective decision-making and long-term asset investment sustainability.

## User-Defined Investment Criteria

Allow customisation of investment algorithms to align with specific organisational policies, priorities, and asset management philosophies. This flexibility enables tailored financial analyses and strategies that reflect unique business needs and regulatory environments.

## Integrated Asset Investment Modelling

Consolidate financial data across multiple asset classes into a single, unified platform. This integration facilitates holistic investment planning, enabling organisations to manage diverse assets efficiently and make coordinated financial decisions with full visibility.

## Financial Planning Dashboard

Provide a real-time, interactive dashboard that visualises asset investment statuses, budget utilisation, and financial health metrics. This empowers stakeholders with up-to-date insights to monitor performance, track progress, and make timely, data-driven investment decisions.

# Cerexio TIM Benefits

## Future-Proof Your Asset Financial Planning

By offering scalable, user-defined investment modelling and comprehensive budget scenario analysis, Cerexio ensures your financial strategies remain agile and effective. Automated risk alerts and GIS mapping enable transparent, real-time oversight, helping organisations mitigate risks and optimise capital allocation for long-term success.

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### ✓ Realistic Financial Insight

Leverage AI-driven, condition-based analytics to achieve fact-driven investment assessments, eliminating guesswork and emotional bias. This ensures decisions are grounded in accurate, real-time financial data and market conditions for optimal outcomes.

### ✓ Risk Mitigation

Reduce investment risks significantly—up to 300%—by employing AI-powered analytics that detect subtle market shifts, forecast potential threats and enable proactive risk management strategies to protect portfolios from volatility.

### ✓ Enhanced Planning Efficiency

Improve infrastructure and budget planning accuracy by automating data analysis and scenario simulations. AI accelerates decision cycles, reduces human error, and aligns resource allocation with precise financial forecasts and operational needs.

### ✓ Scalable Investment Modelling

Manage diverse asset classes seamlessly within a unified AI platform. This scalability supports handling large data volumes and complex analytics, enabling firms to expand investment operations without proportional resource increases.

# Cerexio TIM Benefits

## Drive Smarter Investments with AI-Enabled Insights

Cerexio's system enhances decision-making by integrating advanced analytics and AI to provide realistic, condition-based financial assessments. It empowers organisations to reduce wasted spending, improve ROI, and ensure sustainable asset management through predictive and prescriptive analytics tailored to unique asset conditions.

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### ✓ Predictive & Prescriptive Analytics

Combine predictive analytics to forecast likely financial outcomes with prescriptive analytics that recommend optimal actions. This dual approach guides decision-makers from understanding "what could happen" to "how to achieve the best result".

### ✓ Automated Alerts

Utilise AI to monitor financial data continuously, detecting anomalies and emerging threats in real time. Automated alerts enable early intervention, preventing losses and ensuring compliance through proactive anomaly detection.

### ✓ GIS-Enabled Visualisation

Map and analyse asset investments spatially using Geographic Information Systems integrated with financial analytics. This visualisation enhances understanding of geographic risk factors and investment distribution for strategic planning.

### ✓ Cost Recovery Strategies

Simulate various cost-saving scenarios using AI-driven models to identify effective strategies for recovering expenses. Implementing these plans optimises financial performance by balancing cost reduction with operational efficiency.

# Cerexio Client Stories

Cerexio has been at the forefront of digital transformation in manufacturing, empowering companies to achieve operational excellence and sustainable growth. Through its flagship solutions, Cerexio has partnered with industry leaders to solve complex challenges, ranging from throughput optimisation to emission control, while delivering measurable business value.

## 1

### A company that manufactures and fabricates precision parts, moulds, and dies.

Vertically-integrated manufacturing services since 1978. They had a challenge in digitally transforming factories to improve operational efficiencies and reduce labour costs.

CEREXIO MES improved the throughput by digitally transforming their factory of 200+ moulding machines while the same labour capacity was able to deliver a +10% profit

## 2

### Cement Manufacturer

According to Forbes, this company was on the list of the 700 largest global public companies in 2015. They had challenges in achieving kiln stability and optimisation.

CEREXIO MES was utilised by them to prevent poor quality, suboptimal throughput, unhealthy emission rates and energy losses by predicting failures in cyclone infrastructure.

## 3

### ARTC- Advanced Remanufacturing Technology Centre

A Singaporean government agency that researches to facilitate the advanced manufacturing ecosystem in the region.

CEREXIO MES Services and Modules optimised their hyper-personalisation Line- a solution that manufactures personalised products in a fully automated production line.

# Contact Cerexio

Don't hesitate to get in touch with us for further clarification or to book a demo this week. The contact particulars of our company are as below:
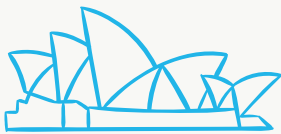
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