

Industrial Gases 20% ROCE Playbook

How to Transform Your B2B Performance with AI in 4 Sprints By RapidKnowHow + ChatGPT



P Executive Summary

The industrial gas sector has historically delivered moderate returns (12–15% ROCE) due to asset-heavy operations, slow innovation cycles, and static pricing models.

This playbook introduces a **4-Quarter AI-Powered Sprint Program** designed to elevate ROCE to 20%+ by unlocking the power of predictive maintenance, dynamic pricing, smart logistics, and service model transformation.

1 Program Architecture

Quarter	Sprint Focus	Key Outcome	ROCE Gain
Q1	Predictive Maintenance	↓ Downtime	+2.0%
Q2	AI Pricing & Profit Optimization	↑ Margin per unit	+3.0%
Q3	Smart Logistics & Refill Efficiency	↓ Refill costs	+2.5%
Q4	O2-as-a-Service & Digital Twin Deployment	t↑ Recurring Revenue	+3.5%



Total Expected ROCE Improvement: +11%

2 Historical Constraints (2000–2020)

Constraint Impact on ROCE Asset-Heavy Expansion Locked capital **Static Pricing** Margin erosion **Manual Logistics** Cost inefficiency Fragmented Maintenance Downtime CapEx-Dominated Growth Delayed ROI

3. The AI-Powered Solution Levers

AI Lever **Impact Area Strategic Outcome** Predictive Maintenance Uptime ↑, Failure ↓ Assets

AI Lever Impact Area Strategic Outcome

Dynamic Pricing Engine Revenue & Profitability Margins ↑, Contract ROI ↑

Smart Route Optimization DeliveryCosts ↓, Fill Rate ↑O₂-as-a-Service PlatformCustomer ModelRecurring Revenue ↑Digital Twin DeploymentCapEx StrategyTime-to-Deploy ↓, ROI ↑

4. Sprint Breakdown

Q1 – Predictive Maintenance Sprint

- Objective: Reduce downtime and reactive maintenance costs
- Tools: Digital Twin, Predictive Algorithms, IoT Sensors
- **Result:** Uptime ↑ by 10%, ROCE ↑ by +2%
- Deliverables: Maintenance Playbook, Sensor Blueprint, Alert System Setup

Q2 – AI Pricing & Profit Optimization Sprint

- Objective: Boost margins and customer profitability
- Tools: Dynamic Pricing Engine, Contract ROI Analyzer, Customer Tiering
- **Result:** Margin \uparrow from 18% to 24%, ROCE \uparrow by +3%
- **Deliverables:** Pricing Simulator, Contract Profit Tracker, Segmentation Playbook

Q3 – Smart Logistics & Refill Efficiency Sprint

- **Objective:** Cut delivery costs and refill inefficiencies
- Tools: AI Route Planner, Refill Forecasting Engine, Load Optimization Tool
- **Result:** Delivery costs ↓ by 20%, ROCE ↑ by +2.5%
- **Deliverables:** Logistics Dashboard, AI Routing Templates, Refill Cycle Map

Q4 – O₂-as-a-Service & Digital Twin Sprint

- **Objective:** Transform from CapEx-heavy to service-based business
- Tools: Customer Portal, Digital Twin Rollout Model, Subscription Billing
- **Result:** CapEx \downarrow , Recurring Revenue $\uparrow 4x$, ROCE \uparrow by +3.5%
- Deliverables: O2aaS Launch Guide, Digital Twin Toolkit, ROI Simulation Templates

5. KPI Dashboard

KPI	Baseline	Post-Q4 Target
ROCE (%)	14%	25%
Asset Uptime (%)	85%	95%
Margin per Unit (%)	18%	24%
Cost per Refill (€)	€42	€35
Time-to-Deploy New Unit (weeks)	10	4
Share of Recurring Revenue (%)	10%	40%

6. Implementation Roadmap

Phase	Action Item	Responsible	Duration
Phase 1 Sprint (21 Deployment	Ops + IT	8 weeks
Phase 2 Sprint (22 Rollout & Contract Refresh	Sales + Finance	6 weeks
Phase 3 Sprint (23 Logistics AI Launch	Supply Chain	6 weeks
Phase 4 Sprint (24 Service Model Setup	Strategy Team	8 weeks
Phase 5 Full RC	CE Dashboard & KPI Reporting System	CEO + CFO	Ongoing

7. License Options

License Pack	Format	Includes
Sprint Starter Kit (Q1 only)	PDF + Word	Playbook + Toolkit + Dashboard
Full 4-Sprint Program License	ZIP Bundle	$All\ Playbooks + Dashboards + ROI\ Calculator$
Deployment Kit for Licensees	PPT + Excel	Internal Rollout Toolkit + Scoreboards

◯ Final Call-to-Action

6 Become a Market Leader with 25% ROCE in 12 Months

Get the Full Playbook + License Your Market

Available Now via www.rapidknowhow.com

Q1 Sprint: Predictive Maintenance to Boost ROCE

Accelerate Asset Uptime & Cut Downtime with AI-Powered Predictive Systems Part of the Industrial Gases 20% ROCE Program by RapidKnowHow + ChatGPT



What's the Goal?

Deliver a +2% ROCE increase in just one quarter by minimizing downtime, maximizing asset utilization, and reducing reactive maintenance costs.



AI Strategy in Action

Strategic Focus	Traditional Approach	AI-Powered Transformation	
Maintenance Planning	Scheduled/Reactive	Predictive/Condition-Based	
Asset Monitoring	Manual Logs	Real-Time Sensor Data & Analytics	
Downtime Management After-the-fact Response Preemptive Alerts via AI Models			
Failure Cost	High & Unpredictable	Minimized through AI-driven Interventions	



Core AI Levers

- **Digital Twin Monitoring** virtual models of compressors & pipelines
- **IoT-Enabled Sensors** detect temperature, pressure, flow anomalies
- AI Predictive Models forecast breakdowns 7–30 days in advance
- **Failure Pattern Analysis** machine learning from past data patterns



III KPI Improvements

KPI	Baseline	Q1 Target
ROCE	14%	16%
Asset Uptime (%)	85%	95%
Maintenance Costs (€/site)	€30,000	€22,000
Downtime Events	6/month	1/month

Included in the Q1 Sprint Pack

- AI Predictive Maintenance Deployment Guide
- **V** Top 5 Use Cases in Industrial Gas Plants
- **V** KPI Dashboard Template (Excel + HTML)
- Vendor & Platform Evaluation Scorecard
- License Deployment & Scaling Plan

Call-to-Action

Want to Achieve 16% ROCE in 90 Days?

♂ Download the Q1 Sprint Pack | **②** License This AI Sprint for Your Region

Q1 Sprint: Predictive Maintenance to Boost ROCE

Accelerate Asset Uptime & Cut Downtime with AI-Powered Predictive Systems Part of the Industrial Gases 20% ROCE Program by RapidKnowHow + ChatGPT



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Deliver a +2% ROCE increase in just one quarter by minimizing downtime, maximizing asset utilization, and reducing reactive maintenance costs.



AI Strategy in Action

AI-Powered Transformation Strategic Focus Traditional Approach Maintenance Planning Scheduled/Reactive Predictive/Condition-Based

Real-Time Sensor Data & Analytics **Asset Monitoring** Manual Logs Downtime Management After-the-fact Response Preemptive Alerts via AI Models

Failure Cost High & Unpredictable Minimized through AI-driven Interventions



Core AI Levers

- **Digital Twin Monitoring** virtual models of compressors & pipelines
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III KPI Improvements

KPI **Baseline Q1 Target**

ROCE 14% 16% Asset Uptime (%) 85% 95% Maintenance Costs (€/site) €30,000 €22,000 **Downtime Events** 6/month 1/month

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Call-to-Action

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Q2 Sprint: AI Pricing & Profit Optimization

Maximize Margins with Dynamic AI-Driven Pricing Strategies Part of the Industrial Gases 20% ROCE Program by RapidKnowHow + ChatGPT



Ø What's the Goal?

Achieve a +3% ROCE uplift by deploying intelligent pricing models that adapt in real-time to customer usage, market shifts, and contract terms.



AI Strategy in Action

Strategic Focus	Traditional Model	AI-Powered Innovation
Pricing	Fixed Annual Contracts	Dynamic, Volume-Based Pricing Models
Contract Profitability	Static Cost-Plus Margins	Margin-Optimized by AI Algorithms
Customer Segmentation	Revenue-Based	AI-Based Tiering by Behavior & Profitability
Discounting	Manual	AI Recommender with Guardrails



Core AI Levers

- **Contract Profitability Analyzer** real-time margin tracking
- **Dynamic Price Engine** adjusts prices by input cost, volume & urgency
- **AI Customer Tiering** redefines segments by long-term value
- Smart Repricing Alerts suggest and justify contract changes



KPI Improvements

KPI	Baseline	Q2 Target
ROCE	16%	19%
Average Margin per Unit (%)	18%	24%
Contract Profitability Accuracy	60%	95%
Sales Repricing Lead Time (days)	20	2

Included in the Q2 Sprint Pack

- AI Pricing Model Templates (SaaS + Excel Hybrid)
- Dynamic Margin Calculator (Prebuilt for O₂, N₂, Ar)
- Contract Evaluation Checklist & Repricing Guide
- Tiered Customer Playbook with Action Scenarios
- KPI Dashboard + License Integration Plan

Call-to-Action

Want to Increase Your Profit Margin by 6%?

→ Download the Q2 Sprint Pack | **→** License This AI Sprint for Your Market Segment

Q3 Sprint: Smart Logistics & Refill Efficiency

Slash Transport Costs and Improve Refill Cycle Efficiency with AI-Driven Routing Part of the Industrial Gases 20% ROCE Program by RapidKnowHow + ChatGPT



Ø What's the Goal?

Achieve a +2.5% ROCE gain by optimizing delivery routes, minimizing refill cycle costs, and automating dispatch decisions through AI.



AI Strategy in Action

Strategic Focus	Traditional Model	AI-Powered Innovation
Route Planning	Static, Driver-Based	Real-Time AI Routing & Load Optimization
Refill Cycle Management	Manual Scheduling	Predictive Scheduling via Usage Forecasting
Dispatch Decisions	Dispatcher Judgment	AI Route + Cost Algorithms
Logistics Cost per Refill	High due to inefficiency	Reduced through smart clustering



Core AI Levers

- Smart Route Optimizer AI selects fastest, cheapest delivery clusters
- **Refill Forecast Engine** learns usage patterns to pre-schedule refills
- Load Maximization Tool increases tonnage per trip with AI bin packing
- AI Dispatch Assistant recommends daily route plans with KPIs



III KPI Improvements

KPI	Baseline	Q3 Target
ROCE	19%	21.5%
Cost per Refill (€)	€42	€35
Avg. Delivery Distance (km)	180 km	130 km
Refill Delay Rate (%)	8%	2%

Included in the Q3 Sprint Pack

- Route Optimization Dashboard (HTML + Excel)
- AI Refill Scheduler (Template + Algorithm Logic)
- Load Maximization Guide (Industrial Gases-specific)
- Delivery Team Enablement Toolkit
- ROCE Efficiency Calculator + License Integration Plan

Call-to-Action

Ready to Cut Delivery Costs by 20% and Increase Uptime?

→ Download the Q3 Sprint Pack | **→** License This Sprint to Build Your Smart Logistics Engine

Q4 Sprint: O2-as-a-Service & Digital **Twin Deployment**

Turn Capital Assets into Recurring Revenue with a Service + Simulation Model Part of the Industrial Gases 20% ROCE Program by RapidKnowHow + ChatGPT



What's the Goal?

Achieve a +3.5% ROCE boost by launching a scalable "Oxygen-as-a-Service" model and reducing CapEx exposure through digital twin deployment.



AI Strategy in Action

Strategic Focus	Traditional Model	AI-Powered Innovation
Oxygen Supply	One-time sale or lease	Subscription-Based O ₂ -as-a-Service
Asset Management	Site-by-site CapEx planning	Centralized Digital Twin Decisioning
New Capacity Rollout	Manual, CapEx-heavy expansion	AI-led Scenario Simulation + Asset ROI Model
Customer Lifecycle	Fragmented & reactive	Integrated Smart Platform with AI monitoring



Core AI Levers

- O₂-as-a-Service Smart Portal self-service platform for hospitals & industry
- **Digital Twin Simulations** test ROI & uptime before deploying new units
- AI-Driven CapEx Decision Matrix guides strategic placement of assets
- **Subscription Billing Engine** aligns delivery cycles with recurring revenue

III KPI Improvements

KPI	Baseline	Q4 Target
ROCE	21.5%	25%
Capital Deployed per Site (€)	€2.5M	€1.8M
Time-to-Deploy New Units (weeks)	10	4
Share of Service Revenue (%)	10%	40%

Included in the Q4 Sprint Pack

- O₂-as-a-Service Launch Playbook (with branding templates)
- Digital Twin Deployment Model (Scenarios + ROI Maps)
- ZapEx-to-Service Conversion Guide
- Recurring Revenue Pricing Calculator
- Strategic Roadmap: From Asset-Heavy to Service-Led

Call-to-Action

Want to Shift to a Recurring Revenue Model and Reach 25% ROCE?

炒 Download the Q4 Sprint Pack | **炒** License This Model to Scale O₂-as-a-Service in Your Market

Josef David: 18.5.2025