

## UNLOCK THE ENGINE MRO CAPACITY YOU ALREADY HAVE

By leveraging an AI-augmented execution intelligence that turns hidden delays into recovered capacity - across **engineering**, **supply chain** and the **shop floor**.

Friction across engineering, supply chain, and shop floor compounds through the lifecycle, resulting in **15-35%** hidden capacity loss. Existing systems of record capture and store data, but they are not built to connect data to decisions and actions across engineering, supply chain and shop floor, creating **delays, rework and higher TAT**.

**The problem isn't the data.** Your systems of record already capture it. The gap is the missing execution **intelligence layer** that turns **data into decisions** and action.

### How Cyient recovers capacity across the engine MRO lifecycle

One AI operations platform connecting engineering, supply chain, and shop floor - so the right decision happens at the right time.



#### One connected operational view

##### What It Does

A live operational context across the MRO lifecycle.

##### What You Get

A single source of truth for every decision.



#### Human + AI decision intelligence

##### What It Does

AI predicts and recommends; your experts validate; operations execute.

##### What You Get

Faster decisions, engineering judgment in control.



#### Predictive operations

##### What It Does

Anticipate bottlenecks, constraints and risks based on real-time data.

##### What You Get

Proactive identification of issues to protect the slot, protect TAT.

**Engineering, supply chain, shop floor — one operation, not three.**

Execution intelligence works at every stage, turning delay into recovered days, throughput, and revenue.

1

#### Planning

Right work scope, fewer surprises

2

#### Induction

Right work scope, fewer surprises

3

#### Engineering

Reviews stop gating the visit

4

#### Material readiness

Parts ready before they're needed

5

#### Repair execution

Less queuing, contention, rework

6

#### Testing

Protect the slot, avoid retests

7

#### Release

On-time closeout and records



#### Recovered capacity

faster TAT, higher throughput

### Why Cyient

Deep engine-engineering expertise, aftermarket operations, digital-thread continuity and AI-driven execution intelligence - one operational ecosystem across engineering, supply chain and the shop floor.

#### Engine engineering, not consulting



Design-level understanding of the engine and airworthiness (DO-178/254/160) — depth pure-AI and consulting firms lack.

#### AI where it counts



Recommendations grounded in engineering knowledge. Human-in-the-loop, with audit-ready, traceable outputs.

#### Fits your stack



Platform-agnostic - integrates with all technologies- SAP, Teamcenter, MES and IFS/ERP. No rip-and-replace.

You can't build your way out of the capacity crisis



**Add bays & test cells**

Capital-heavy, years to stand up - and it won't touch the delays already inside your shop.



**Unlock existing capacity**

Eliminate lifecycle delays with execution intelligence. Available now. No new CAPEX.

Why the capacity gap keeps widening

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**Rising demand**

More engines due for overhaul than the network can absorb.
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**More complex shop visits**

Next-gen engines need deeper work.
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**Supply & capacity constraints**

Parts, slots, and skilled labor all in short supply.

*The result: longer TAT, lower OTD, aircraft on the ground.*

**THE CHALLENGE IN NUMBERS**

**15 - 35%**  
capacity lost to hidden delays

**180 - 300+ days**  
capacity lost to hidden delays

**+150%**  
next-gen engine  
TAT vs. pre-pandemic levels

**+35%**  
legacy engine  
TAT vs. pre-pandemic levels

Unlocking capacity through operational optimization



**Engineering**

**WHERE IT SHOWS UP**

Scope clarity, technical reviews, approvals, document readiness.

**IMPACT ON TAT**

Delays here gate every downstream step.



**Supply chain**

**WHERE IT SHOWS UP**

Parts not ready, shortages, supplier slips, expediting.

**IMPACT ON TAT**

Material waits stall visits mid-flow.



**Shop floor**

**WHERE IT SHOWS UP**

Queues, bay & test-cell contention, rework, variability.

**IMPACT ON TAT**

Throughput lost from assets you run.

Business value delivered

Capacity recovered from assets you already own and data you already have - proven on one **AI-augmented operations platform**.

**15-20%**

**Capacity recovery**

hidden capacity unlocked

**10-20%**

**TAT reduction**

fewer days per shop visit

**5-10%**

**Throughput gain**

more visits, same footprint

**20-30%**

**WIP reduction**

less stalled inventory

**↑ Higher**

**On-time delivery**

more slots delivered as promised

**↓ Lower**

**Expediting cost**

fewer rush buys & premium freight

**Ready to unlock the capacity you already have?**

**Talk to your Cyient team →**