

# MANUFACTURING PERFORMANCE MATURITY MATRIX

## HOW REPEATABLE IS YOUR BEST PERFORMANCE?

A practical assessment for manufacturing operations to understand and close the gap between best and average performance.

**BRAIN  
CUBE®**

## ACROSS OPERATIONS AND ON THE PLANT FLOOR, PERFORMANCE VARIES MORE THAN IT SHOULD.

The gap between your best and average results shows up in different ways:

*This assessment is designed to help you understand where that gap exists today — and what it takes to make best performance more repeatable.*

### AT THE BUSINESS LEVEL

Margin, efficiency, and scalability

### IN DAY-TO-DAY OPERATIONS

Variability across shifts, conditions, and runs

→ It's the same gap — just experienced differently.

## HOW TO USE THIS

- Each section reflects a single capability — experienced on the plant floor and across operations.
- Use both perspectives to assess your current state, and assign one score based on how consistently that capability exists across your operation.
- For each section, rate your current state **from 1 to 4** based on how consistently the capability exists across your operation.

**1**

### Reactive

Managed after the fact, inconsistent across teams or sites

**2**

### Emerging

Some structure exists, but performance still varies

**3**

### Stabilizing

More consistent, but still dependent on people or local practices

**4**

### Repeatable

Performance holds consistently, even as conditions change

# CHECKLIST

|                        |                                                                                                       | ON THE PLANT FLOOR                                                                   | ACROSS OPERATIONS                                                                         | SCORE   |
|------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| Process Visibility     | Do you understand how your process performs across changing conditions — not just at a point in time? | Can you see what's happening across the full process, not just one unit or snapshot? | Do you have a clear view of how performance varies across sites, runs, and conditions?    | 1 2 3 4 |
| Performance Alignment  | Are you clear on what "better" actually means — and where the opportunity is?                         | Do operators know what they are trying to improve right now?                         | Is the opportunity clearly tied to margin, throughput, yield, or cost across the network? | 1 2 3 4 |
| Control vs. Conditions | Do you know what can be adjusted — and what needs to be adapted to?                                   | Is it clear what can be changed vs what you have to work around?                     | Are improvement efforts focused on the levers that actually drive performance?            | 1 2 3 4 |
| How the Process Runs   | When conditions change, does the process adjust — or do people have to react?                         | When the process drifts, is there a consistent way to bring it back?                 | Does performance depend on local expertise, or is it consistent across plants?            | 1 2 3 4 |
| Real-Time Adaptation   | Can your process respond while it's running — or only after performance drops?                        | Can you correct performance in the moment, or only after the fact?                   | How quickly can plants respond to changing conditions across the network?                 | 1 2 3 4 |
| Repeatability at Scale | Can your best performance hold — across shifts, teams, and sites?                                     | Do your best runs depend on who's on shift?                                          | Do plants perform consistently under similar conditions?                                  | 1 2 3 4 |

## YOUR SCORE

Add your scores across all six areas.

**6–10**

### Reactive

Performance is managed after the fact. Variability is expected.

**11–16**

### Inconsistent

Some structure exists, but performance still depends on people and conditions.

**17–20**

### Stabilizing

Performance is improving, but still not fully consistent or repeatable across sites.

**21–24**

### Repeatable at Scale

Best performance holds consistently — even as conditions change.

# CLOSING THE GAP

The difference between your best and average performance isn't random — it's where your greatest opportunity exists across margin, yield, and throughput.



**Most teams can point to their best runs.**

Very few can operate that way consistently.



**Real-Time Process Optimization closes that gap**, by enabling processes to adapt as conditions change, and making best performance repeatable.



Industrial AI for Real-Time Process Optimization

## TURN VARIABILITY INTO MARGIN