

# More output **from the plant you have.**

**No new lines, no new headcount, no ERP customization.** Zeak Manufacturing Ops joins schedule, material, machines, maintenance, people, training and quality into one schedule that knows what is actually possible, shows what a change will cost before you make it, and carries the decision through approval to measured value. **Not every production problem needs AI.**

## The cost of **standing still**

**25–40%**

of factory cost sits in support functions

BCG, 2020

**~11%**

of revenue, about \$1.4T a year, lost to unplanned downtime at the world's 500 largest companies

Siemens, True Cost of Downtime 2024

**15–30%**

higher labor productivity, and 10–30% higher throughput

McKinsey, 2022

**50% → 90%**

on-time delivery, with 1–2 h per shift of manual assignment removed

McKinsey, 2021

External research benchmarks, not Manufacturing Ops results or promised returns. Populations, methods and use cases differ.

## The problems we solve, **and how you can check each one**

Every proof comes from your own data

|   |                                               |                                                                                                                                  |                                                                        |
|---|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1 | <b>Maintenance and production collide</b>     | <b>With Zeak:</b> Planned maintenance blocks the schedule, and the best window is found for both production and maintenance.     | Proof you can check: <b>Production-maintenance conflicts a month</b>   |
| 2 | <b>The real schedule is a spreadsheet</b>     | <b>With Zeak:</b> One governed scheduling board checks every move against every constraint and shows the cost before you commit. | Proof you can check: <b>Planner hours spent rebuilding and chasing</b> |
| 3 | <b>Starts stop after they start</b>           | <b>With Zeak:</b> Material, tools, qualified operators and quality release checked before an order is released.                  | Proof you can check: <b>Stops after start; orders blocked</b>          |
| 4 | <b>Changeovers eat the bottleneck</b>         | <b>With Zeak:</b> Sequences recommended on the constraint, with changeover hours and contribution per constraint hour shown.     | Proof you can check: <b>Changeover hours on the constraint</b>         |
| 5 | <b>Training lives in binders and HR files</b> | <b>With Zeak:</b> A certification check at the point of assignment, with a skills matrix and recertification time reserved.      | Proof you can check: <b>Invalid assignments found in audit</b>         |

## One board, **every constraint**

|                                                                                                        |   |
|--------------------------------------------------------------------------------------------------------|---|
| <b>Schedule and capacity:</b> one governed board, with drag and drop that checks the rules and what-if | ✓ |
| <b>Material readiness:</b> shortages, holds and staged kits checked before release                     | ✓ |
| <b>Maintenance and assets:</b> planned windows block the schedule; downtime measured                   | ✓ |
| <b>Workforce and certifications:</b> shifts, skills and certifications checked at assignment           | ✓ |
| <b>Quality, yield and cost:</b> scrap, rework and margin next to each decision                         | ✓ |

## What **doesn't change**

|                                                                                                 |   |
|-------------------------------------------------------------------------------------------------|---|
| <b>Systems of record stay put:</b> ERP, MES, maintenance, quality, HR and learning              | ✓ |
| <b>Orders released as today:</b> production orders are released where they are released now     | ✓ |
| <b>No ERP customization:</b> no costly custom build, no master data moved                       | ✓ |
| <b>No equipment control:</b> Zeak plans, checks and records; automation stays in your MES layer | ✓ |
| <b>A person decides:</b> nothing reaches the floor without approval                             | ✓ |

## Connects to **the systems you run**

|                        |      |                |                |                |      |
|------------------------|------|----------------|----------------|----------------|------|
| Microsoft Dynamics 365 | SAP  | Oracle         | NetSuite       | MES            | CMMS |
| QMS                    | LIMS | HR and payroll | Learning (LMS) | Data platforms |      |
| Custom systems         |      |                |                |                |      |

Any platform, read-only first, through connectors and the integration layer.

## Start with a **pilot**

**Observe** Advise Assist Act

Read-only first; nothing changes in your ERP or MES until you say so

- ✓ **Rapid ROI: prove the economics on your own data.** One line or plant, one decision owner, a baseline Finance agrees, run alongside your plan in your test environment.
- ✓ **Selected opportunities can be co-invested with Zeak.** Stop at any step and keep everything you learned.
- ✓ **Stay in control.** Your systems stay the system of record; read-only until you say otherwise; your cloud, full export, every action audited.

## Built for **every industry**

Configured to the way your industry works

|                                                                 |                                                             |                                                                     |                                                           |                                                                 |                                                               |
|-----------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|
| <b>Pharma and Biotech</b><br>Campaigns, cleaning and release    | <b>Medical Devices</b><br>Certified operators on every step | <b>Chemicals and Process</b><br>Campaigns and changeovers by family | <b>Food and Beverage</b><br>Allergen sequencing and holds | <b>Cosmetics and CPG</b><br>Changeovers across shades and sizes | <b>Semiconductors</b><br>Tool qualification and WIP flow      |
| <b>Aerospace and Defense</b><br>Long routings, certified skills | <b>Automotive and Discrete</b><br>Line-down protection      | <b>Industrial and Electrical</b><br>Make-to-order capacity          | <b>General Manufacturing</b><br>Bottlenecks made visible  | <b>Consumer Goods</b><br>Seasonal peaks without overtime        | <b>Regulated or Not</b><br>Configured to the rules you follow |

## Bring us your **production problem.**

The Zeak Manufacturing Ops Customer Overview has every feature, the value method and how a pilot works.

Bring us your production problem →