



AI WORKFORCE FOR MANUFACTURING

The recurring work your planners and buyers cannot get out from under.

How a small workforce of AI roles takes on the recurring work around the plant, with your engineers and planners still owning every decision that matters.

Metacto is a Managed AI partner for mid-market companies. We build AI roles around the recurring work your team already does, deploy them in your own environment, and give every role a named owner. Oversight varies by task type, and goes where the work needs it.

MANUFACTURING AI ROLES

4 REPRESENTATIVE

Line Blocker Desk AI Role

Brief B-209

140 Units · 1 Shift

3 sources cited

awaiting planner

writes back · ERP

Supplier Promise Chaser AI Role

ACTIVE

Confirming 9 PO lines · 3 vendors

Quality Packet Builder AI Role

2 MISSING

Compiling D-077 · 2 records missing

Change Effectivity AI Role

CITED

Checking Rev C · 6 orders exposed

AT A GLANCE

6

representative
AI roles mapped

45 min

AI Workforce Review

50

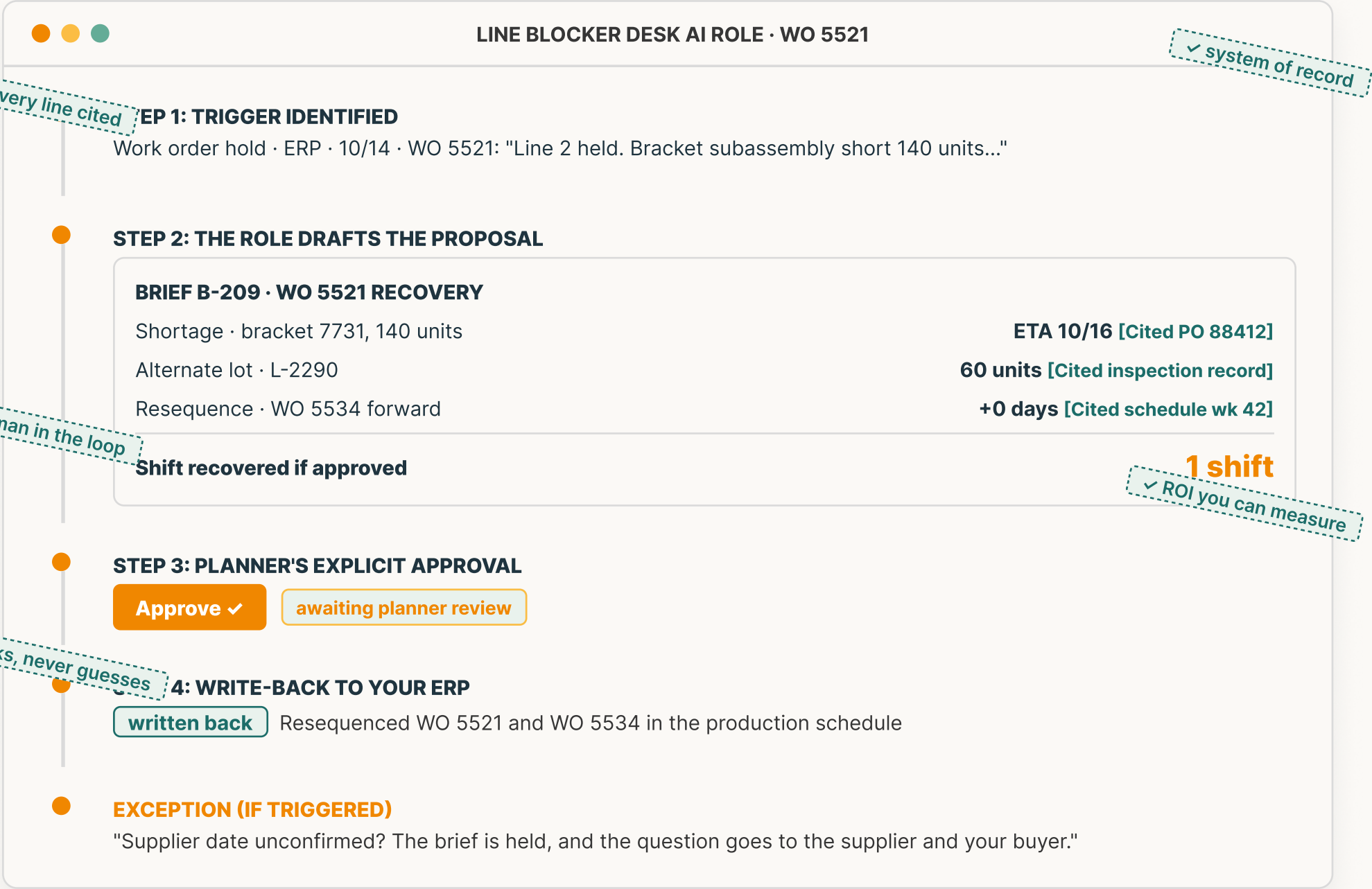
open-source
workflow patterns



SEE IT RUN

A blocked work order cleared before second shift, every line cited.

One role, one work-order hold, one shift. Five tags mark the standards of safe execution: human oversight, verifiable proof, and automatic record write-back.



Inside the full blueprint

- P.3** How proof gets built on your own work
- P.5** 21 AI roles, mapped to your plant
- P.9** Score your AI readiness: 5 factors, 25 points



Measured on your workflow, inside your own review queue.

Every role starts in Launch & Prove: a baseline is set before the build, the role runs behind a human review queue with its own approval threshold, and results are measured against that baseline before anything scales.

Baseline

Set before the build

Your numbers

Approval rate

Tracked per role, per week

Measured

Cycle time

Measured against the baseline

Measured



REVIEW QUEUE · ILLUSTRATIVE

ACTIVE REVIEW

→ Held Work Orders (12)

Shift Log

AI ROLES

- Line Blocker Desk
- Quality Packet Builder
- Supplier Promise Chaser
- Change Effectivity

Runs this week

Approval rate

Flagged for review

WO 5521 · bracket shortage · 140 units

HIGH RISK

Deviation D-077 · inspection record missing

MEDIUM

Brief B-209 drafted · Awaiting planner approval

APPROVE

Every number an AI role produces links back to the record it came from, so your reviewers check the work instead of taking it on trust.

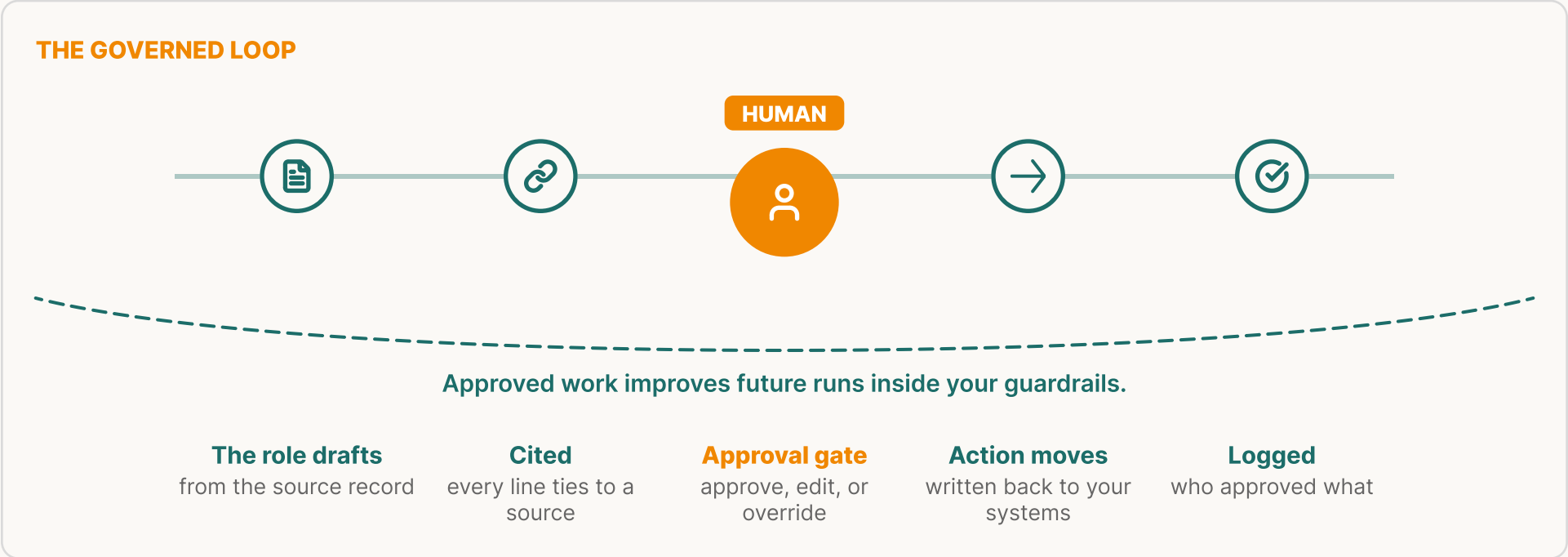
· HOW REVIEW WORKS

No results are claimed on this page, and the queue shown is illustrative. Your baseline, approval rate, and cycle time are measured on your own work during Launch & Prove.



Your team decides. The role prepares the work.

AI roles earn trust while you use them, and approved work improves future runs. Every Metacto AI role runs the same governed loop, ensuring absolute visibility over every source, calculation, and system write-back.



One blocked work order, fully accounted for

- 6:05 AM | Work order hold posted in your ERP
- 6:09 AM | AI role drafts brief B-209, citations attached
- 9:40 AM | **Planner edits & approves (human decision)**
- 9:40 AM | Schedule written back to your ERP
- 9:41 AM | Immutable audit entry logged to secure database

The controls, as your team sees them

PERMISSIONS

Signed in: Production Planner · Plant 2 only

CITATION

140 units → MRP shortage report · PO 88412 line 3

EXCEPTION

▲ Supplier date unconfirmed · brief held for review

AUDIT

J. Smith changed the resequence · approved 9:40 AM

EARNED AUTONOMY · THE THREE TIERS AND WHO SETS THEM

- | | | |
|---------------------------------------|-----------------------------------|--------------------------------------|
| Drafted · a person approves each item | Approved · acts within set limits | Autonomous · acts, team audits after |
| 1. Which tasks may act unattended? | 2. What evidence moves a tier up? | 3. Who can move a tier back down? |

NEXT From one workflow to an AI workforce >



Your operating model, turned into a governed AI workforce.

Built around the work your plant already does, and the people who already own it. Your planners, quality engineers, and buyers keep every decision; specialized AI roles prepare the work, route it to your team, and carry approved records into the next workflow.

- **Work order hold**
WO 5521 · Line 2 · flags the shortage the moment the hold posts
- **Line Blocker Desk AI Role**
drafts brief B-209 · alternates cited → your planner's queue
- **Planner review**
approve, edit, or reject · each action logged → approved
- **Supplier Promise Chaser**
confirms the PO 88412 line 3 date with the supplier → purchasing record
- **Promise Risk Watch**
updates the ship-date risk on SO 30219 → customer order

Your team's queue

3 waiting

B-209 · WO 5521

AWAITING PLANNER

D-077 · lot L-2290

CITED · READY

PO 88412 · line 3

DATE UNCONFIRMED

MORE KINDS OF RECURRING WORK AN AI ROLE CAN COVER:

Work Order Release

Shortage Chaser

Deviation Prep

CAPA Tracker

Supplier Cert Tracker

PPAP Packet Builder

ECO Impact Check

Maintenance Planner

Spare Parts Watch

Customer Order Status

Shipping Docs Prep

Inventory Variance Review

Scrap & Rework Log

Production Report Compiler

RFQ Quote Prep

Roles are designed around your plant's work, not selected from a menu. Every AI role protects one of four plant pillars: Throughput (output), Quality (first pass), Supply (on-time materials), or Promise (customer dates).

[NEXT](#) How Metacto builds it inside your stack >



AI roles work inside the systems you already run.

Designed around the software you already run: your team on top, governed intelligence in the middle, your systems of record at the base.

1

Human Interface

your team

Planner queue · quality queue · approve, edit, or override AI role output before any system write-back occurs.

DRAFTS STAGED FOR REVIEW ▲ / ▼ APPROVALS & EDITS COME BACK

2

Intelligence

specialized AI roles

AI roles draft & prepare · grounded calculations based on your specific SOPs and cited record data.

AI ROLES RUN ON GOVERNED CONTEXT ▲ / ▼ APPROVED WORK COMPOUNDS THE CONTEXT

3

Context

your operating knowledge

Connected records · the logic of your business, roles, permissions, and exception thresholds.

READS THE SOURCE RECORDS ▲ / ▼ WRITES APPROVED RESULTS BACK · AUDIT LOGGED

4

Systems of Record

your software

ERP · MES · QMS · work orders, BOMs, lots, purchase lines, deviations, revisions, and schedules.

TYPICAL SYSTEMS OF RECORD:

ERP

MES

Quality (QMS)

PLM

Maintenance (CMMS)

Purchasing

Supplier portals

WMS

Scheduling

Shipping

Data warehouse

Document control

OPEN BY DEFAULT

50 open-source workflow patterns published through Vociion, readable before you buy. The platform is open source and runs in your own account.

NEXT

How Metacto builds it and keeps it improving >



How Metacto builds it and keeps it improving.

Metacto maps, designs, builds, and integrates AI roles around the work your business already does, then keeps them accountable, measurable, and improving. Three stages, one accountable path.



01

AI Workforce Review

Where recurring work is costing the most time and margin, and the first one or two roles mapped around it.

45 MINUTES



02

Launch & Prove

We structure your context, build the first roles on your live systems, and prove them behind a human review queue.

SCOPED AT THE REVIEW



03

Managed Operations

Review gates, quality and cost tracking, and monthly value reviews; approved work compounds into better runs.

ONGOING

Standard path: We start with one high-impact piece of work (e.g., blocked work orders or supplier confirmations) to prove the review loop before scaling the workforce.

Stop the service, keep the workforce. The AI roles you deploy stay yours and keep running on their last deployed version. What ends is Metacto keeping them accountable, measured, and improving.

NEXT

[The value model: what funds the build >](#)



Your number gets built before you commit budget.

Blocked work order opportunity · your inputs

Blocked work orders
per year, across lines

[]

Avg cost of delay
\$ per blocked order

[]

Recoverable share
vs. your baseline

[]

Planner hours recovered
× loaded labor cost

[]

Estimated annual opportunity:

\$

Worked example

ILLUSTRATIVE

Blocked work orders
mid-size plant, all lines

300

Avg cost of delay
\$ per blocked order

\$2,400

Recoverable share
cleared before the shift is lost

30%

Planner hours recovered
500 hrs × \$70 loaded

\$35,000

Your estimated annual
opportunity:

≈ \$251K / YR



Score your AI readiness.

Business impact	throughput, quality, or customer dates move every week	/ 5
Workflow repeatability	recurs on every order	/ 5
Source readiness	records exist in systems	/ 5
Approval clarity	one owner who signs off	/ 5
Implementation path	clean destination system	/ 5

TOTAL SCORE: _____ / 25

21-25: READY TO MAP

Book an AI Workforce Review

15-20: NEEDS DISCOVERY

Worth mapping workflow logic

< 15: PREPARE FIRST

Line up digital records first

Your Manufacturing AI Workforce Starts Here.

45 minutes. We look at where recurring work is costing the most time and margin, and map the first one or two roles around it. Nothing to prepare.

Book an AI Workforce Review