

LABOR INTELLIGENCE: AI + DIGITAL TWIN-DRIVEN

Don't just reconcile yesterday. Simulate tomorrow.

A living digital twin plans tomorrow's shift before it starts. A reconciliation LMS built on historical rates and time-clock punches can only tell you where yesterday's hours went. We utilize the same underlying data, but with a fundamentally different architecture, and a different set of questions answered.

A living standard vs. a snapshot

Labor standards go stale the day you re-slot a zone. The twin regenerates the plan from your current layout, automatically.

Indirect time: causes, not punches

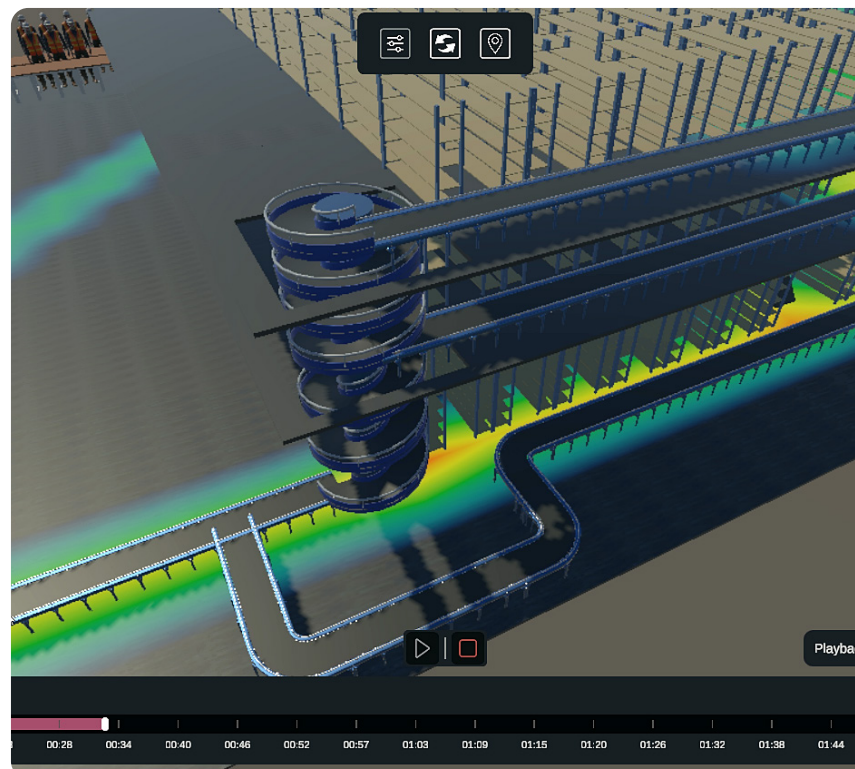
Meetings sync from your calendars. Waits are attributed to congestion, starvation and travel by the twin, and planned out. Nothing depends on associates remembering a job code.

Staff to the frontier, not the average

See full cost/service trade-off across staffing levels and pick your point deliberately.

Accuracy you can audit

Every prediction is scored against reality daily, and we show you the number, including the days we miss.



Above: Synkrato's Digital Twin shows the real-time impact of changes in your facility, regardless of size and complexity, complete with a heatmap that helps eliminate bottlenecks and congestion

~10%

Typical Labor Savings

In expected case; a pilot verifies with your numbers

5-6 mo.

Typical payback

In expected cases

Minutes

To rehearse a full shift

Hundreds of Monte-Carlo runs, nightly

Zero

New hardware or punches

Runs on your WMS & clock, as-is

Predictive Instead of Reactive

Traditional LMS platforms are reactive, based on reconciliation after the fact. Synkrato is predictive.

Using digital twin simulation, teams can model real-world scenarios before making operational changes, including labor shortages, volume spikes, layout changes, slotting adjustments, equipment additions, and replenishment strategy shifts.

Synkrato answers questions like these in minutes:

- What happens if three pickers call out tonight?
- Will adding another reach truck improve throughput—or increase congestion?
- Can we reduce replenishment labor without risking service levels?

- How will an 18% volume increase affect performance?
- What happens if fast movers are relocated closer to staging?

Traditional labor systems generally can't answer these questions dynamically because they lack spatial intelligence and simulation capabilities.

A traditional labor system might report that picker productivity dropped 11%. Synkrato can show whether the cause was congestion, cross-traffic, inefficient slotting, longer travel distances, or replenishment bottlenecks, and model the best corrective action before changes are made.

That transforms warehouse management from reactive monitoring into proactive operational decision-making.

THE NIGHTLY LOOP

1 Predict

Tomorrow's orders simulated through your building so you can plan the evening before

2 Operate

Your WMS runs exactly as it does today

3 Align

Plan vs. actual, task by task the next morning

4 Improve

The model recalibrates itself with no re-studies, ever

Head-to-Head: Synkrato vs. Reconciliation-based LMS

CAPABILITY	RECONCILIATION LMS	SYNKRATO DIGITAL TWIN
Labor standard	Historical rates are backward-looking	Re-simulated nightly for each day's actual mix & layout
Indirect time	Job-code punches at the clock; policed via visibility	Causes modeled — congestion, waits, travel — planned, then reconciled
What-if / automation ROI	Structurally unavailable; ROI measured after install	Native cost/service frontier; automation priced before capex
Layout / slotting change	Standards go stale until re-observed	Plan regenerates automatically — no re-study
Standards accuracy & fairness	Engineered standards are time-consuming to build and can become stale as tasks, conditions, and assignments change	Recalculated daily from the actual work, conditions & resource assignments; more accurate, current & fair

See it with your own data

Our 30-day Pilot Program allows you to see how Synkrato works at one site, utilizing your existing WMS extract. Weeks 1-2: actuals & reconciliation live. Weeks 3-4: twin plan published nightly, scored every morning. You set the exit criteria, including forecast accuracy, which we report honestly.



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