

From Reactive to Systemized

An architectural precast plant's three-year move to integrated production management



A PCI-Certified architectural precast and GFRC plant in Fremont, CA rolled out the first generation of the IntraSync platform in phases over 3 years. This paper separates what the plant recorded from what we model, and labels each.

3 years

Phased implementation

150

People at peak season

PCI AA + G

Architectural & GFRC certified plant

The operation

Walters & Wolf Precast was an architectural precast producer in Fremont, CA, listed by PCI as a certified plant for architectural precast (category AA) and GFRC (category G). The plant has since closed. It staffed up to 150 people in its busiest season and had \$28M in annual revenue before the rollout. IntraSync's founder built and deployed the first generation of the **CastLogic** platform there, in phases over 3 years, directly on the plant floor.

The starting point: extensive downtime

Before the system, scheduling, estimating, quality, and maintenance were tracked in separate tools and spreadsheets. Downtime was extensive, and the plant's own records put numbers on it.

921 hrs*

Unplanned downtime logged annually

\$2,675

Direct cost per downtime hour (idle labor + burden)

\$2.46M

Direct downtime cost per year

**Plant-measured from real downtime logs. This is roughly 2.8× the large-plant industry average (~326 hrs/yr, Siemens 2024) — high, and defensible only because it is the plant's own recorded figure, not a benchmark.*

What the plant connected

Over the 3-year rollout, the system brought the plant's core functions onto one platform:

Scheduling & production	Mold and labor sequencing moved out of spreadsheets.
Quality	Defects and finish issues tracked in-process instead of at ship.
Estimating	Structured, reusable estimates instead of re-keying.
Maintenance	Planned servicing tracked alongside production.
Inventory & yard	Material and yard visibility in the same system.

Modeled estimate: hard cost savings for a plant like this

Lever	Est. annual savings
Scheduling & production efficiency	\$168K
Quality / rework / scrap reduction	\$210K
Estimating productivity	\$68K
Maintenance	\$296K
Inventory & yard optimization	\$84K
Estimated hard cost savings	\$825K

These are estimates, not measured results

The figures above are **not measured results**. They apply stated, industry-cited improvement rates to the plant's \$28M baseline and logged downtime so you can see how the value is built and substitute your own numbers.

How each number is derived

Figure	Derivation
Downtime exposure	921 hrs × \$2,675/hr = \$2.46M [plant records]
Scheduling & production	\$28M × 20% prod-labor × 3% efficiency = \$168K [modeled]
Quality / rework	\$28M × 3% scrap × 25% cut = \$210K [modeled]
Estimating	3 estimators × \$90K × 25% time saved = \$68K [modeled]
Maintenance	\$2.46M × 40% failure-related × 30% cut = \$296K [modeled]
Inventory & yard	\$28M × 10% inv × 20% carry × 15% cut = \$84K [modeled]
Revenue baseline	\$28M annual revenue before the rollout [plant records]

From plant records: \$28M annual revenue baseline, 3-year rollout, 150 peak headcount, 921 downtime hrs/yr, \$2,675/hr direct downtime cost. **Assumed (stated, adjustable):** the production-labor, scrap, estimating, failure-share, inventory, and reduction rates above.

Rate benchmarks: Siemens True Cost of Downtime 2024; NPCA Precast Market Report 2022; U.S. BLS OEWS NAICS 327000. Downtime comparison: Siemens 2024 (~326 hrs/yr large-plant average).

“I didn’t design this from a whiteboard. I built the first version standing on the plant floor, watching where the hours and the panels actually disappeared. CastLogic is that same operational logic, rebuilt on modern tooling with AI in every module.”

— Zachary Frye, Founder, IntraSync Industrial

This is what we rebuilt CastLogic to do

CastLogic is an ERP platform built specifically for precast, with 13 integrated modules from quote to cash. Give us your plant's revenue and downtime numbers and we'll build this model for **your** floor.

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Results reflect the first-generation platform at Walters & Wolf Precast (since closed), not an audited CastLogic deployment. Revenue, headcount, rollout length, and downtime figures come from plant records; savings figures are modeled from the stated rates and are not measured outcomes. Your results will depend on your operation, scope, and implementation.