



OBOZONE

How To Merge Legacy Systems with Smart Factory Tech

A Step-By-Step Minimal Disruption Guide

All those ads for shiny new smart factory tech seem out of touch with reality, especially when your machines have been around for decades. It feels like a far-off future vision that doesn't match your situation. They're talking about Industry 4.0 while your day-to-day ops are barely at Industry 3.0 level.

Meanwhile, you're juggling different control systems, outdated data formats – PLC and SCADA systems that weren't designed to communicate with each other, let alone a modern IIoT ecosystem.

You worry about:

- ⚡ Will the new tools work with my old stuff?
- ⚡ Can I afford huge upgrades?
- ⚡ Will it disrupt my entire production line?

These are real problems! But doing nothing is risky. Smart tech is the future, and to stay competitive, you need to find a way forward.

Don't Buy Everything, But Don't Ignore It Either

Throwing random tech at the problem isn't the answer. Luckily, systems like O3OZONE are designed to bridge the gap.



O3OZONE lets you upgrade in stages, at your pace, and tailored to what you *actually* need.



UNDERSTAND YOUR
LEGACY SYSTEMS



CHOOSE THE RIGHT
SMART TECH



DESIGN AN
INTEGRATION PLAN



RUN A PILOT TEST



SCALE UP



Monitor and Improve
Continuously

6 steps to successfully MERGE SYSTEMS

1

UNDERSTAND YOUR LEGACY SYSTEMS

System Audit

Map out your current machinery, software, and workflows. Identify integration points where smart technology dovetails neatly with existing tech or where there might be challenges.

Documentation Review

Dig out your system manuals, process documents, and maintenance records. List each machine and the data format it uses.

Engage with Your Team

Talk to the people who use these systems every day. They often have the best insights.

Technical Evaluation

A technical consultant can help assess the readiness of your systems for integration. O3OZONE's consultancy team and engineers can help with this.

Set Realistic Goals

Don't just say "improve efficiency." Try something specific like "reduce machine downtime by 20% within a year."

Consider Constraints

Be realistic about your budget, time, and team skills.

Prioritize

Start with integrations that give you the most immediate benefits.



2

CHOOSE THE RIGHT SMART TECH

With so many options, it's easy to suffer from "analysis paralysis". Focus on technologies that directly solve your problems and work well with what you already have. The O3OZONE team can help you with this.

IIoT (Industrial Internet of Things)

Machine sensors give you real-time data to improve your processes.

Cloud Platform

Flexible and grows with you. Add features as needed.

Digital Twins

A virtual replica of your factory for real-time data monitoring and analysis.

AI and Machine Learning

AI learns from your factory data and spots patterns to predict maintenance issues, improve scheduling, and boost quality.

Selecting Smart Factory Technology

Focus on Your Needs

What's your biggest challenge? Downtime? Product quality? Energy waste? Target those areas first.

Compatibility Check

New tech needs to play nicely with your existing systems. This might mean slight adjustments or choosing solutions designed to easily integrate.

Scalability

Pick technologies that can scale along with your business. You don't want to be limited by your systems in a few years.



3

DESIGN AN INTEGRATION PLAN

The goal here is to figure out how to connect everything. This includes older systems (ERP, MES, PLCs, etc.) as well as traditional tools like spreadsheets, along with your new smart tech.

ERP and MES Systems

Real-time data from IIoT sensors can improve decision-making within these systems.

Programmable Logic Controllers (PLCs)

Choose smart solutions that easily connect with PLCs to get data for monitoring and analysis.

SCADA Systems

Link this data to cloud platforms for better visualization and control.

Material Requirements Planning (MRP)

Smart tech can help forecast demand, manage inventory, and create better production schedules.

Custom-Built Software

See if APIs or middleware can be added for integration.

Databases and Spreadsheets

Some smart factory platforms can import this older data for use in new analysis tools.

Human Machine Interfaces (HMIs)

Upgrade or replace for better controls and easier-to-understand data displays.

Network Infrastructure

Your network needs to handle the increased data flow. Consider upgrading routers, switches, or cables for security and speed.

4

RUN A PILOT TEST

Start small and don't try to change everything at once.

Choose one machine or process. A smart system like O3OZONE MES is a good place to start as it's designed for easy integration.

Choose Your Pilot Project Wisely

Pick a part of your factory where new tech can make a quick difference, but where the risks are low. This could even be something simple like replacing paper defect tracking systems with a cloud-based solution.

Data is Key

- How does the new tech work with your old systems? Are there any problems?
- Did you meet your goals? Does the new tech improve your existing processes?

Get Feedback

Talk to your team. Operators and technicians who use the tech daily have the best insights. Did it help them? What problems did they face?

Refine and Repeat

Use what you learned. Did the tech need tweaking? Do you need to integrate it differently? Do people need more training?

Plan for the Future

Your pilot test teaches you how to scale up to a full smart factory. What worked well? What went wrong?

6 steps to successfully MERGE SYSTEMS

5

SCALE UP

After a successful pilot test, the next step is to scale up. It's time to expand the smart tech across your factory. This involves more than just installing upgrades – you need a defined strategy and plan.

Go Step by Step

Don't try and change the whole factory at once. Outline which systems or processes will change next, and in what order.

Keep Everything Connected

As you add new tech, make sure everything still communicates with each other. Data needs to flow smoothly between both old and new systems. This might involve network upgrades or "translator" software.

Manage the Change

Change can be difficult. Communicate openly with your team. Listen to concerns, explain the benefits, and help everyone feel positive about the changes.

Train Your Team

New systems need new skills. Train your workforce and encourage them to embrace the opportunities these changes create.



6

MONITOR AND IMPROVE CONTINUOUSLY

Now that you have some smart factory tech in place, the journey doesn't end there. Digital transformation is an evolution and you can keep adding new systems as your operations allow. You should also monitor and refine existing systems for continuous improvement.

Real-Time Monitoring

Dashboards and analytics tools let you see how your entire system (old and new parts) is performing.

Data-Driven Insights

Analyze the data to see how machines, processes, and people are working.

Feedback Loops

Create a culture where feedback is welcome and used to make changes. This includes feedback from both your team and the data itself.

Be Flexible

Use what you learn to make quick adjustments. Improve processes and workflows to be more efficient.

Embrace Improvement

Encourage your team to constantly look for better ways to do things and bring their ideas to the table.

Stay Up-To-Date

Keep track of the latest smart manufacturing technologies so you can stay ahead of the curve.

Regular Checkups

Schedule audits to see where your systems are underperforming and where new tech could be added.



Smart Integration = Competitive Edge

Why Choose O3OZONE?



Phased Approach

Upgrade gradually, fitting new tech to your existing systems one-by-one



Unique Solutions

No cookie-cutter answers – we tailor the tech to your specific factory



Expert Help

Our team guides you through the entire process and beyond



Never Stop Improving

We support ongoing upgrades to keep you ahead of the competition

More Than Just Tech



Efficient & Adaptable

React quickly to changes and improve processes



Data-Driven

Make smarter decisions based on real-time insights



Resilient

Handle market shifts and supply issues with less disruption



Lean & Flexible

Operate with less waste and adapt quickly to regulation

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