



DIGITIZING INDUSTRIAL CONSTRUCTION

PRACTICAL RECOMMENDATIONS

„I can only say: Digitalize. The earlier, the better. It saves time and resources.“

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Vice Preseident Global Site Operations
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GO BY PLAN. GROW BY PLAN!

WHY DIGITALIZE?

Cost and time pressure, supply shortages, customer demands, regulations, global crises—the industrial construction sector is constantly under pressure. Digitalization provides an answer to these challenges: it reduces manual efforts, facilitates global collaboration, and provides the basis for better decision-making. Digital processes make construction sites more efficient, simplify daily operations, and sustainably promote project success.

HOW TO DIGITALIZE?

The path to digitalization is as diverse as the companies themselves. While some still rely on Excel, others expand their ERP system (e.g., SAP) with functions for the construction site. Some use specialized standalone solutions—such as apps for construction logs or defect management. The most comprehensive option is platforms like Insite LMS, which cover all relevant construction site and supply chain processes and consolidate them into a single solution, increasing project success.

Options

- Platforms like Insite LMS: A unified solution that integrates all processes.
- Multiple standalone solutions: Several apps or tools for specific tasks.
- Customized ERP systems: Extensions of existing systems for construction site processes.
- Office solutions: Excel and similar tools—often inefficient and error-prone.
- Analog methods: Time- and resource-intensive, barely future-proof.

Practicality is Key

Successful digitalization solutions must be flexible and adaptable to support new project areas or changing requirements. Systems developed by practitioners for real-world use offer clear advantages: they simplify daily work on construction sites and ensure high user acceptance..

**At the beginning,
resistance is often
high. But so is the
pressure to change...
Those who take the
step benefit from a
new level of quality
in construction site
management...**



USERS IN FOCUS

One key factor is that users enjoy working with the new digitalization solution. Learn what contributes to this [here](#).



VALUE RIGHT FROM THE START

TIP 01: INVOLVE USERS EARLY.

AT A GLANCE

- Engage users early in the project.
- Choose an intuitively usable solution with clear added value.

ENCOURAGE EARLY FEEDBACK

By proactively involving users in the project from the very beginning, you lay the foundation for high acceptance of the digitalization initiative. Actively seek feedback and take it into account.

PROVIDE VALUE

Digitalization only makes sense if users willingly adopt the new solution in their daily work.

- Success is evident when the solution delivers clear benefits from the start.
- A simple, practical app that makes tasks easier and quickly delivers results is highly valued on construction sites.

INSITE LMS HAS BEEN DIGITALIZING INDUSTRIAL CONSTRUCTION SINCE 2012.

Insite LMS consistently follows a „Users-First“ approach. The platform for industrial construction was developed in close collaboration with users. The result: a practical solution that is field-ready and stands out for its high user acceptance.



Modular structure



Mobile access



Flexible configurability



Construction site suitability

TIPP 02: PRIORITIZE TRANSPARENCY.

AT A GLANCE

- Promote open and constructive collaboration.
- Address concerns and alleviate fears.

TRUST AS THE KEY FACTOR

Uncertainties, discussions, and learning curves are part of the process—the key is how they are managed together. Open, clear communication and a company culture that embraces transparency are essential. Initially skeptical employees quickly recognize the benefits of a digitalization project: fewer manual routine tasks and greater focus on what truly matters. The result: smoother project execution and optimized value creation that benefits everyone.



COMMUNICATION IS KEY

TIP 03: ACTIVELY MANAGE CHANGE.

AT A GLANCE

- Actively implement change management.
- Use communication as the key to success.
- Consider the three pillars of digitalization.

THE THREE PILLARS OF DIGITALIZATION

Digitalization is more than just selecting the right system. Digital transformation initiatives are built on three key pillars.

- User: Needs, roles, attitudes
- Software: System landscape, tools, usability
- Organization: Culture, processes, data

Corporate culture, existing processes, and especially the „human factor“ play a crucial role. It's essential to recognize internal resistance, consider organizational specifics, and take appropriate measures.

COMMUNICATION

Successful change projects stand and fall with communication. A clear plan detailing who conveys what messages and provides opportunities for dialogue is essential. The goal is for all stakeholders to experience digital transformation as a benefit and actively participate. Depending on company culture and workforce demographics, digitalization can face resistance. This requires perseverance, sensitivity, and professional change management—including clear, transparent communication and strong internal advocates who help overcome resistance and drive the process forward. Over time, the new system should ideally become self-sustaining.



WHAT SUPPORTS THE SUCCESSFUL IMPLEMENTATION OF A NEW SOLUTION?

Key success factors for digitalization in industrial construction include:



Internal advocates



Clear, transparent communication



Active involvement of all stakeholders



Tangible benefits from day one

ONE TOOL ON SITE

On construction sites, there is the right tool for every task. The same applies to IT applications and processes: A One-Tool-On-Site approach offers significant advantages over multiple standalone applications.



MAXIMIZE IMPACT ON SITE

TIP 04: BENEFIT FROM AN INTEGRATED PLATFORM.

AT A GLANCE

- Challenge the use of multiple standalone systems.
- Prefer an integrated solution.
- Minimize integration, training, and maintenance efforts.

MORE TOOLS = MORE EFFORT

Using numerous standalone solutions for different tasks in industrial construction—especially on-site—significantly increases integration, training, and maintenance costs. At the same time, the satisfaction of project stakeholders decreases due to complex workflows and disconnected systems.

MAKE IT EASY!

Ideally, all data should be captured once and centrally stored in a cloud-based solution. This ensures real-time global availability. A comprehensive solution specifically designed for industrial construction covers all relevant processes on-site and along the supply chain within a single application.

This eliminates time-consuming coordination efforts and unnecessary system disruptions. Essential information—such as material status, construction progress, defects, claims, construction reports, and time tracking—is always accessible.



Reliable real-time information for optimal site management – Insite LMS makes it possible.



20.000
Users

90
Countries

10.000
Projects

12
Languages

1
System

GROWTH IN SITE

With Insite LMS, you rely on a platform that redefines industrial construction, digitalizes processes, and provides real-time insights into all your projects at any time. The solution covers a wide range of use cases, including project logistics, site management, material tracking, and time tracking.



insite-lms.com

ALWAYS UP-TO-DATE

TIP 05: ESTABLISH A SINGLE SOURCE OF TRUTH.

AT A GLANCE

- Simplify global collaboration.
- One system instead of information chaos.
- Meaningful real-time insights at the push of a button.

WHY?

Real-time information is essential in industrial construction. Data should be available anytime, from anywhere—ideally at the push of a button. However, manual project execution or uncoordinated digitalization often leads to the opposite: Excel lists, emails, scattered notes, and isolated solutions cause time-consuming follow-ups, duplicate data entries, and manual adjustments. This wastes valuable time!

ONE CENTRAL DATA SOURCE!

A consolidated, centralized data source is crucial for smooth processes and transparent collaboration across all project phases. With Insite LMS, you establish a globally accessible data source. The system securely stores, processes, and distributes all project-related information—reliably and efficiently. Key benefits at a glance:

- All information is always up-to-date and centrally available.
- Duplicate data entries and manual rework are eliminated.
- All stakeholders access a single, unified data source.
- Communication and traceability are significantly improved.



Isolated solutions are a thing of the past! An integrated platform simplifies collaboration—both on-site and in back offices.

LESS IS MORE

TIP 06: PREFER SIMPLE SOLUTIONS.

AT A GLANCE

- Avoid hardware and software barriers.
- Choose solutions that don't require special equipment.
- Consider mobile use cases.

AVOID UNNECESSARY BARRIERS

Hardware and software entry barriers don't have to exist! Before selecting a new solution, identify and eliminate any potential obstacles that could complicate implementation.

EXAMPLES OF AVOIDABLE BARRIERS

- Software-related: Applications that only work via VPN or require complex login procedures.
- Hardware-related: Solutions that rely on special equipment, such as scanners or other dedicated devices.

GOOD SOLUTIONS

A good digitalization solution for industrial construction is easy to set up and use. Tasks on the construction site should be manageable directly in the field—without requiring special hardware. Insite LMS is a proven solution for this:

- Robust, secure, and offline-capable: Works even without a stable internet connection.
- No special equipment required: No need for additional devices.
- Flexible: Modular structure and configurators for changing requirements.
- Seamless use: No complicated login process.



DATA FOUNDATION

No digitalization without data! Ensuring data quality from the start lays a strong foundation for long-term success.





FRESH PERSPECTIVES

TIP 07: REEVALUATE YOUR PROCESSES.

AT A GLANCE

- Question the status quo.
- Encourage critical thinking.
- Improve step by step.

“BUT WE’VE ALWAYS DONE IT THIS WAY”

Digitalization in industrial construction offers the opportunity to review and optimize established processes. Now is the ideal time to rethink outdated workflows and move beyond the mindset of „We’ve always done it this way!“

Encouraging critical questioning is key. Consider these questions:

- Is the current process still up to date? Is there room for improvement?
- Are similar tasks handled differently across departments? Would standardization help?
- Which manual processes regularly require excessive effort?
- Which Excel spreadsheets are still being circulated globally?

STEP BY STEP

Process optimization is an ongoing journey. Choose a system that supports continuous improvement. One example is Insite LMS, a platform that enables such optimizations by covering a broad range of applications, including Project logistics, Construction site management, Material tracking, Time tracking for employees and subcontractors.

»Think about how you can optimize and refine your processes—even if they already seem to work well.«

NOGUEIRA ITAMAR
Senior Site Manager, Group Site Installation ANDRITZ AG

BUILDING ON DATA

TIP 08: DATA QUALITY COMES FIRST.

AT A GLANCE

- Data quality is the foundation.
- Ensure quality from the start.
- Guarantee data continuity.
- Avoid duplicate entries.

HIGH-QUALITY DATA

A core goal of any digitalization project is to increase efficiency and simplify routine tasks for users. The foundation? High-quality data! Without strong data quality, no digitalization effort will succeed. If data is entered incorrectly at the start, it is nearly impossible to fix later. As the saying goes: „What little Hans doesn’t learn, big Hans never will.“ Investing in data quality from the very beginning is essential. Key aspects include:

- Project standards for data: Clear guidelines for data entry and processing.
- Supplier integration: User-friendly material registration, clear communication, and legally compliant frameworks such as order conditions.
- Data continuity: Every manually created packing list is one too many.
- Smart data connections: Linking bill of materials, materials, deliveries, and storage locations efficiently.

PLATFORM FOR DATA QUALITY

With Insite LMS, data quality is ensured from day one. The platform provides:

- Unified standards for data collection and usage.
- Efficient supplier integration to simplify material registration and communication.
- Seamless data processes to eliminate manual duplicate entries.
- Clear connections between all relevant project information.



Data is the key to success



Data quality from the start



Centralized data management



First actual data, then target data

TIP 09: THINK BIG, START SMALL.

AT A GLANCE

- Keep the big picture in mind.
- Proceed step by step.
- Secure quick wins.

BIG PICTURE: THE ENTIRE SUPPLY CHAIN

Digitalization should always prompt the question: „How much of the process can be meaningfully digitized?“A good example is material pre-registration before delivery to the construction site. INSITE IT recommends digitizing the entire process chain—from manufacturing to final assembly—within a single system to unlock the full potential of digitalization.

SECURING QUICK WINS

This doesn’t mean that everything must be digitized from the start. The best approach is a fast launch with continuous improvements. The chosen solution should be flexible enough to support ongoing enhancements and expansions. The speed of further digitalization depends on various factors, such as: How do employees react? What internal factors, such as decision-making processes, influence the rollout?

STEP-BY-STEP APPROACH

A phased rollout has proven to be effective. Example: Beispiel: Start with as-is data (e.g., capturing packing lists). Then, integrate to-be data (e.g., bill of materials or purchase orders).



Establish data standards from the start.



Benefit from digital packing lists



Easily integrate suppliers



Connect material, deliveries, and storage locations.

**THINK BIG.
ACT BIG.
BUILD BIG.**

INSITE LMS
The Platform for Industrial Construction



GET STARTED NOW

REACH YOUR GOAL IN 3 STEPS

Waiting costs valuable time—kickstart your digitalization journey now. We are here to support you at every stage.

01 DEMO

Schedule a demo to explore Insite LMS risk-free and discuss your questions with our experts.

02 TEST PHASE

Experience Insite LMS in a three-month test phase with comprehensive support throughout.

03 TAKE OFF

Deploy Insite LMS across your projects.

Trust a software solution that has already proven itself in over 10,000 projects in industrial and plant construction.



LET'S
TALK





GROWTH IN SITE

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