SOLUTION SELECTION MATRIX™

2026 | Connected Frontline Workforce Guidebook

LNS Research

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LNS Research analysts independently prepare the Solution Selection Matrix (SSM), and its reports reflect the authors' opinions, based on their industry experience and assessment of the research. All included vendors were invited to provide detailed survey responses, multiple briefings, and client references. Additional references come from LNS Research members and prospects, user groups, and industry events. Prior to publication, vendors have multiple opportunities to verify details for factual accuracy.

Overview

There has been a dramatic acceleration of Connected Frontline Workforce (CFW) initiatives since the 2023 Solution Selection Matrix (SSM) was published. Over 95% of industrial organizations report that CFW efforts have already delivered measurable benefits, with only 4% reporting "No Plans" in 2024 (Figure 1). What began as digitizing work instructions and mobile checklists has evolved into a market focused on decision intelligence at the point of work, where skills, safety, quality, productivity, and operational discipline converge.

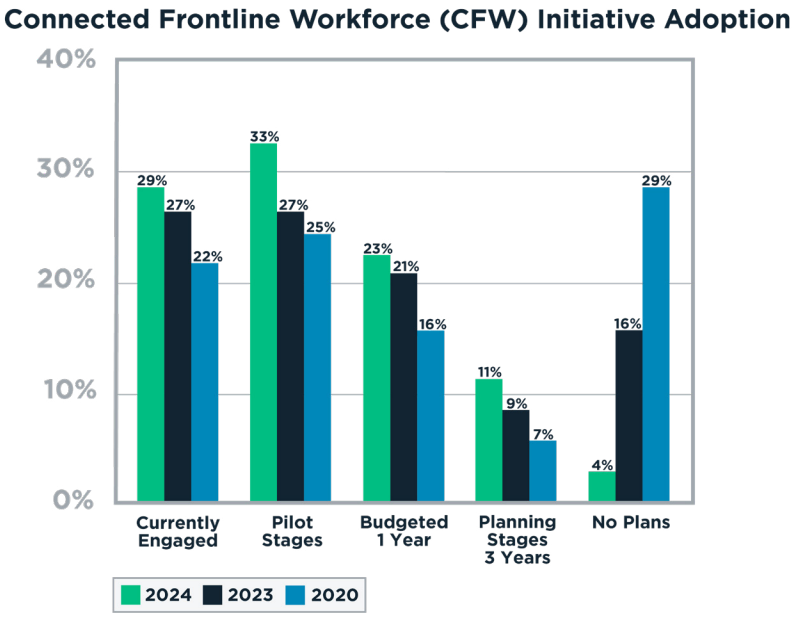


Figure 1: CFW is a strategic imperative for industrial operations and a future-ready workforce

Current operating models have proven unsustainable as Industrial AI adoption goes mainstream, the workforce rapidly changes, and complexity increases. Leading COOs have adopted a more holistic strategy, with CFW applications moving decisively from point solutions to a foundational layer of the Future of Industrial Work (FOIW). Broadened initiatives and accelerated deployments have driven increased competition in the CFW market and have prompted core capabilities to expand as innovative new technologies emerge.

CFW Applications are no longer a "nice to have," but a "must have" as manufacturers lose experienced employees and operational performance erodes. Manufacturers are no longer asking whether to digitize frontline work, but how to embed intelligence into daily routines, systems, and standards to offset workforce attrition, skills gaps, and rising operational risk. This CFW SSM evaluates vendors not just on feature breadth but also on their ability to support outcomes across personas, integrate with complex industrial architectures, and scale governance, validation, and change management across multi-site operations.

LNS Research advises some of the world's largest industrial companies in selecting the right CFW solution and remains the market leader in the rapidly evolving CFW Applications space. This CFW Solution Selection Matrix Guidebook and accompanying Vendor Compendium are based on our deep research insights and provide LNS Research's point of view on the evolving market to help industrial organizations:

- Create an enterprise strategy that accelerates CFW adoption for future-proof operations,
- Identify CFW vendors offering solutions that enable the evolving FOIW ecosystem,
- Prioritize the CFW capabilities and emerging technologies needed to meet current and future needs.

Definition of the CFW Applications Category

Connected Frontline Workforce (CFW) applications provide a seamless, persona-based interface to support safe work execution and enhance decision intelligence. Compared to business-centric industrial applications and traditional mobile applications, they are focused on delivering real-time information, knowledge, and AI-powered insights to empower leaders, frontline employees, and cross-functional teams, enabling them to collaboratively drive improvements in safety, quality, productivity, and sustainability.

LNS Research defines CFW Applications as commercially available, production-ready software applications that:

- Provide a licensable product that is designed to enable digital connectivity across the entire value chain to include the frontline workforce within operations.
- Augment human capabilities by enabling the multi-directional flow of data, digital content, information, insights, and actions to, from, and among workers and teams.
- Increase worker connectivity to and interaction with the overall operational management system and the work environment.
- Provide information in frontline operations to support better, faster decisions, real-time feedback and actions, and improved communication and collaboration.
- Deliver actionable insights for systematic improvement of how work is done, and to optimize operational performance.

CFW Applications provide employees with a personalized user experience and role-based insights that ensure safe execution, orchestrate work across industrial operations today, and scale new ways of working faster as the manufacturing landscape evolves (Figure 2).

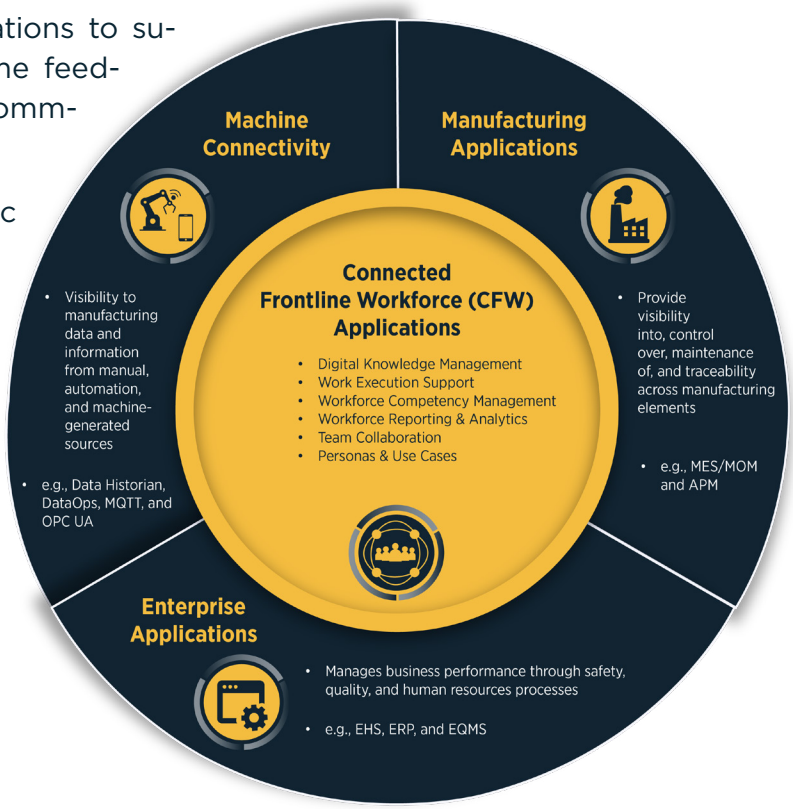


Figure 2: CFW Applications are evolving the manufacturing architecture for the Future of Industrial Work

CFW within the Industrial Transformation Reference Architecture

In 2024, LNS Research refreshed our vision for how industrial organizations can most effectively leverage the value of digital technologies: The LNS Research Industrial Transformation Reference Architecture (Figure 3). This revised framework shows the five main categories of technologies critical to capturing the full value of Industrial Transformation initiatives, with Industrial Applications, software that drives specific business outcomes, at the top, as they are core to the user experience. A benchmarking study of over 300 manufacturing companies found CFW Applications, highlighted in the **LNS Research Industrial Transformation Reference Architecture**, are the chosen future user interface (UI) for workers across industrial applications that drive specific business outcomes (e.g., ERP, MES, APM, EHSS).

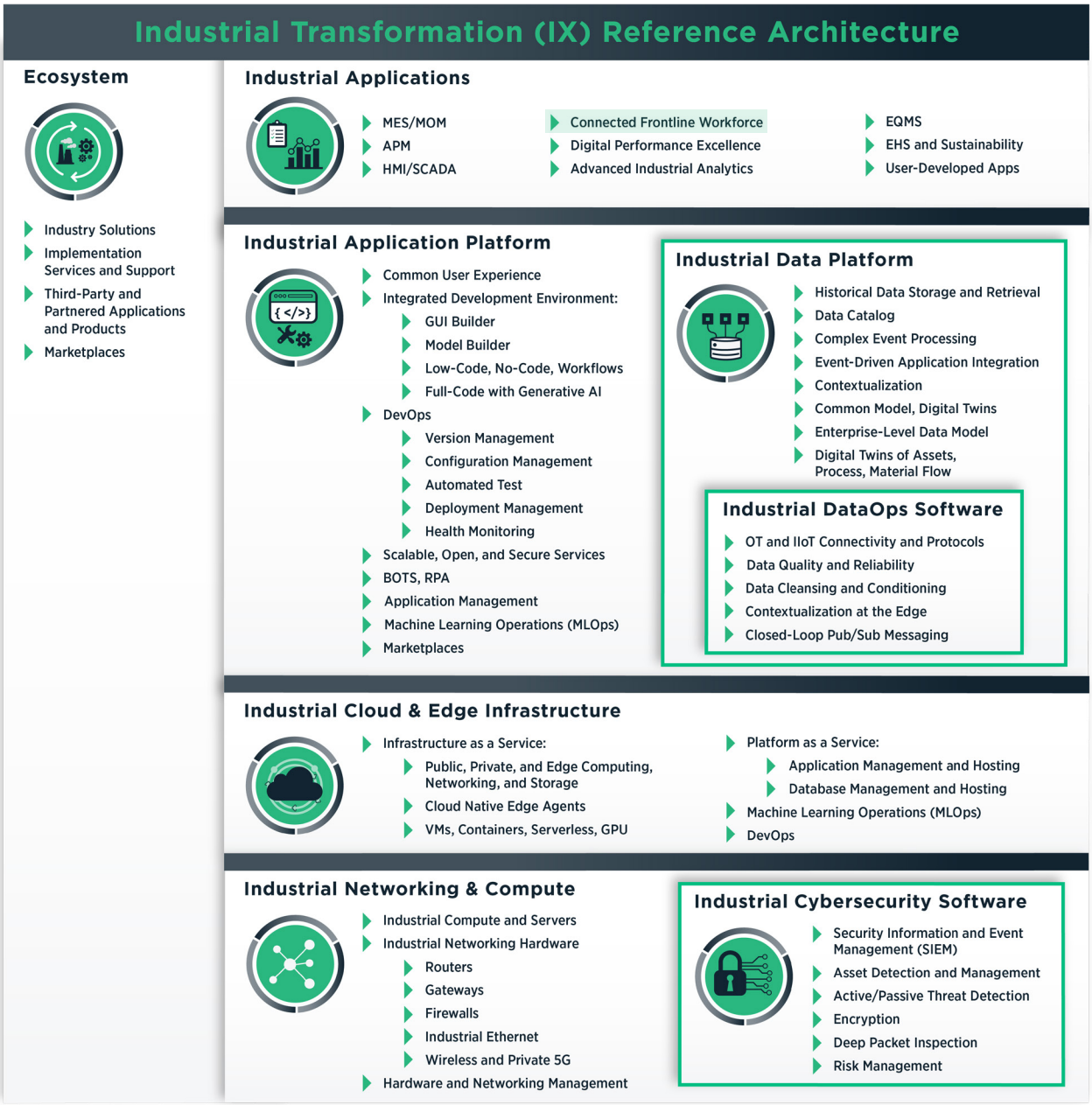


Figure 3: The Industrial Transformation Reference Architecture

CFW Applications and the Industrial Transformation Reference Architecture

Manufacturers have three architectural paths for pursuing Industrial Transformation and developing an Industrial Transformation Architecture: "Custom," "Best-of-Breed," or "Vendor Ecosystem," as illustrated in Figure 4. While there is no single right or wrong architectural path, certain conditions make some paths more attractive than others.

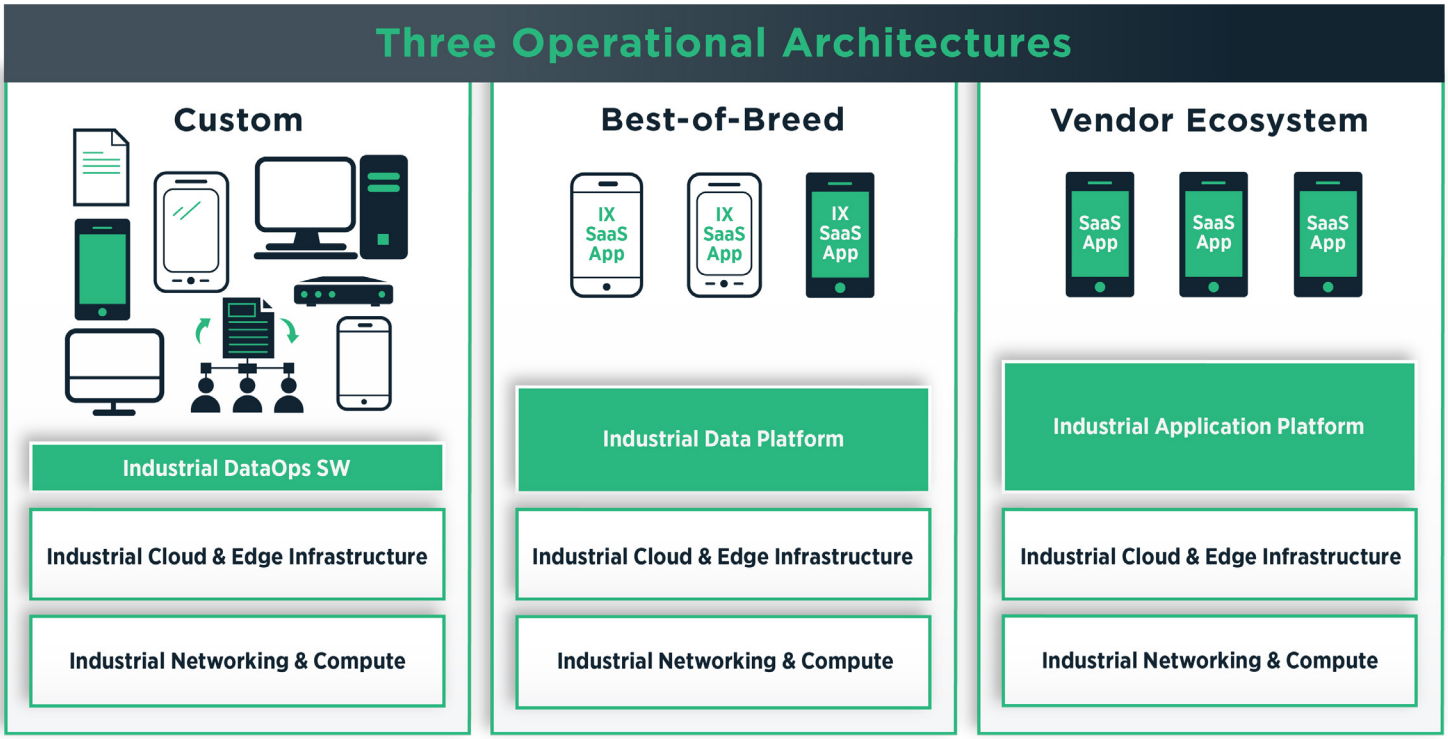


Figure 4: Three Industrial Transformation Architectural Approaches

This SSM is most beneficial for industrial organizations that are actively considering or have opted for a "Best-of-Breed" or "Vendor Ecosystem" strategy and are therefore looking to create a short list of CFW Applications. However, because of the proven value of CFW Applications, organizations that have chosen a "Custom" strategy are also likely to augment their portfolio with dedicated CFW Applications. While all approaches require an Industrial Cloud, most find that a combined approach is necessary, as organizations recognize that legacy solutions dictate specific CFW Applications or that plant-specific needs demand a unique capability, necessitating the availability of more than one solution.

Ideally, a well-selected CFW Application helps companies address their frontline workforce challenges while optimizing operational performance across safety, quality, and productivity. CFW Application core and emerging capabilities, visually represented in Figure 5, provide the evaluation criteria for products and solution offerings.

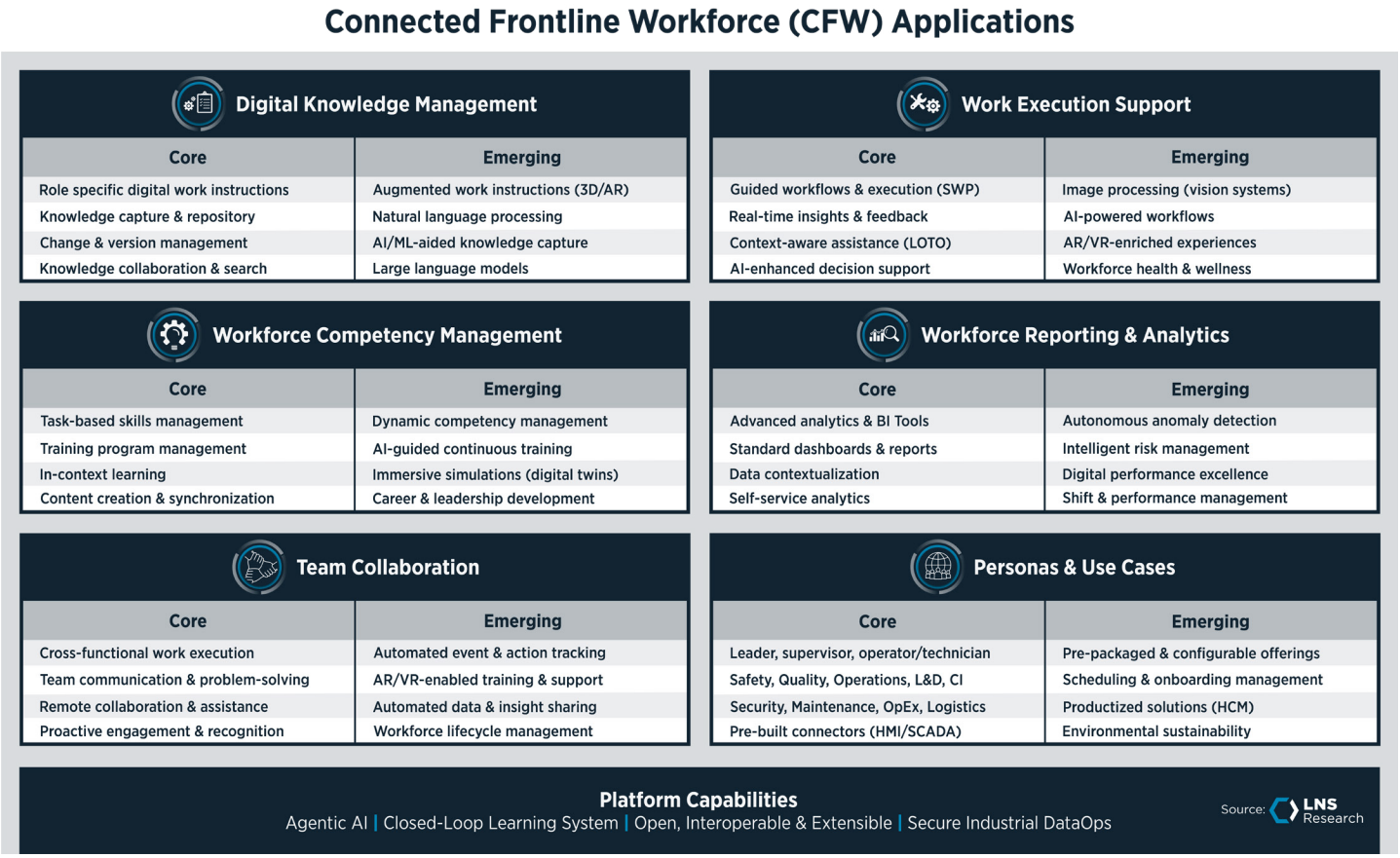


Figure 5: CFW Applications' core and emerging capabilities

CFW Solution-Enabling Technologies

The following core and emerging capabilities identified in the LNS Research CFW Applications framework (Figure 5) provide the evaluation criteria for products and solution offerings:

- **Digital Knowledge Management** automates knowledge generation, capture, evaluation, organization, transfer, and reuse to embed safer work practices.
- **Work Execution Support** provides the most up-to-date context-relevant information to employees at the point of work for the standardization of processes and improved quality.
- **Workforce Competency Management** ensures workers are proficient in tasks by optimizing onboarding and upskilling employees to reduce time to productivity.
- **Workforce Reporting & Analytics** accelerates a data-centric culture by improving the accessibility, comprehension, and usability of real-time information and insights from across IT/OT systems.
- **Team Collaboration Support** overcomes functional and geographic silos with communication, problem-solving, and proactive engagement tools that foster continuous learning and improvement.
- **Personas & Use Cases** rapid deployment, accelerated scale, and proven ROI with pre-configured use cases across a broad range of roles and functions, and platform capabilities for customizable solutions.

This SSM focuses on the software applications that serve as the backbone of a total CFW solution, including Secure Industrial DataOps with open, interoperable, and extensible platforms that can enable a closed-loop learning system. While CFW Applications are the core enabler, a complete solution often requires integrating additional technologies. This will vary depending on the use case, operating environment, and existing technology landscape.

CFW Solution-Enabling Technologies

Complementary technologies needed for a total CFW solution can include mobile devices, wearable technology (e.g., head-mounted displays, sensor-equipped wearables), work-area smart connected devices (e.g., location/geo-positioning technologies), and advanced analytics, including Artificial Intelligence (AI) and Machine Learning (ML), Augmented Reality (AR), and Virtual Reality (VR).

In most cases, this will involve some combination of user interface devices, connectivity/infrastructure, and integration with OT and enterprise systems. The Intelligent Supply Network Architecture (Figure 6) illustrates how CFW complements applications (e.g., EHSS, EQMS, MES, HCM) as the persona-based execution and experience layer that connects people, plant assets, and the whole operations network, enabling local and remote experts to use their knowledge widely with the Virtual Operations Center approach.

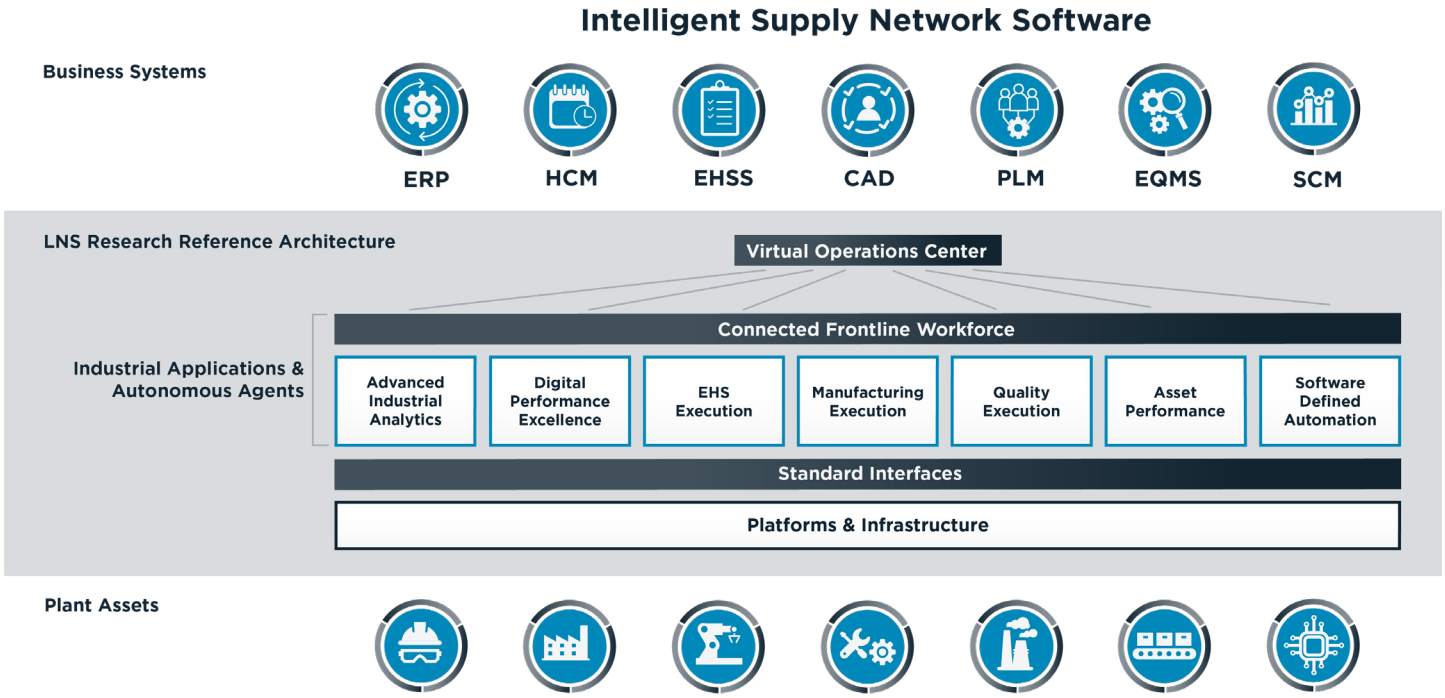


Figure 6: The Intelligent Supply Network (ISN) Architecture visualizes where CFW fits within the existing technology stack

The Emerging FOIW Ecosystem

LNS Research has identified three distinct emerging technology categories that have quickly expanded and built upon the CFW Applications across the industrial landscape over the past 10 years. In some cases, these spaces will become new, specific application layers within the architecture that augment capabilities. In other cases, these may be features or functions that are included within the CFW application as they expand beyond the initial use cases or from adjacent applications such as EHSS, MES, ERP, or EQMS:

1. **AI-Powered Safety and Risk Management** leverages AI to proactively monitor and mitigate risk by automating safe work practices, compliance procedures, and positive interventions across operations to ensure people, physical assets, and profit are protected.
2. **AI-Powered Industrial Workforce Management** embeds AI to adapt systems, standards, and routines for changing employee competencies and production priorities with daily leadership practices, process automation tools, and continuous development for improved performance.
3. **AI-Powered Industrial Knowledge Management** applies AI to scale innovation, support, and learning through integrated work standards, contextualized troubleshooting guidance, and closed-loop systems that codify proven ways of working and optimize pathways to growth opportunities.

Over 50% of manufacturers have already scaled CFW solutions for safety, quality, and security across operations, with newer use cases now being adopted to meet the needs of today's and tomorrow's workforces. Industrial Transformation Leaders have embraced the FOIW ecosystem (Figure 7), where AI-powered CFW Applications are the lynchpin for connecting workers across operations to enterprise standards, Industrial AI, and analytics, and support solutions.

The LNS Research Future of Industrial Work Ecosystem (FOIW) Solution Selection Guide (SSG) will include vendors that support the broader ecosystem to enable safer, more profitable operations, automate workforce management (WFM), and mature knowledge management while engaging employees in collaborative continuous improvement (CI) efforts. The vendor universe is large and diverse, with product capabilities, scope, and go-to-market strategies varying widely, and key players in the market landscape included in the SSG. The technologies organizations adopt will vary based on specific industry challenges and opportunities, use cases, operating environments, and existing tech stacks.

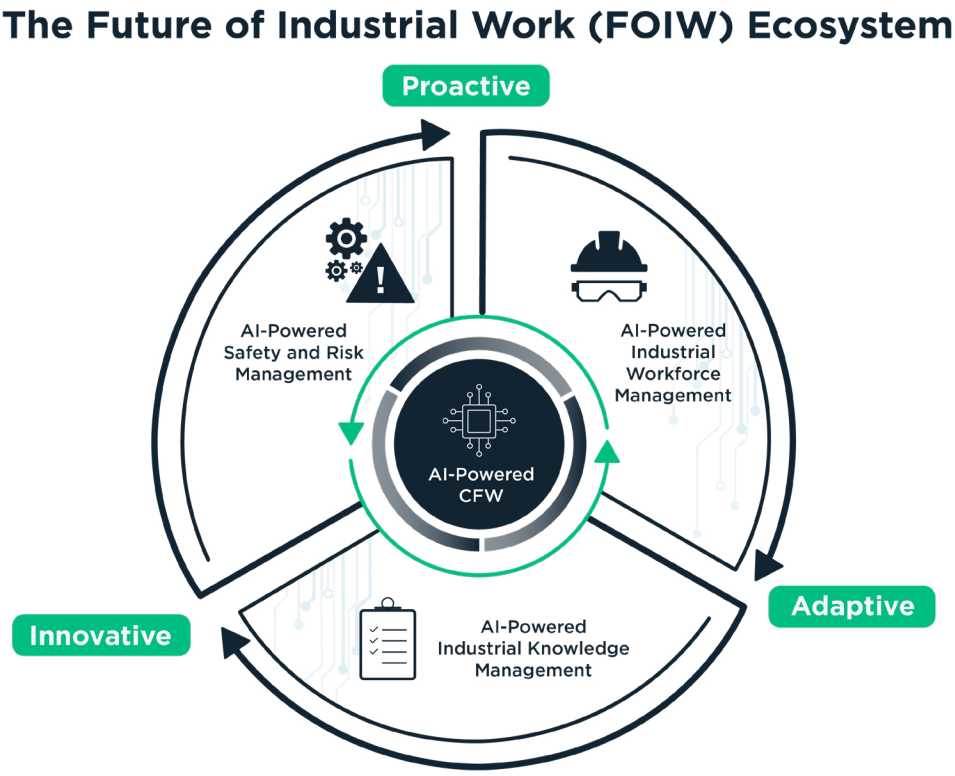


Figure 7: The FOIW ecosystem emerging across manufacturing

Evaluation Methodology

The LNS Research approach to selecting vendors for evaluation in a technology category SSM begins with establishing a set of inclusion and exclusion criteria to screen potential vendors. Based on market knowledge and initial screening, a survey is sent to selected vendors to gather data regarding their products and participation in the CFW Applications space. Survey data is supplemented with information obtained from vendor briefings. We also request and speak with customer references. Then, we use the available information to score each vendor according to our "LNS Research 3P Evaluation Model," covering Product, Potential, and Presence dimensions (the 3P methodology is explained in detail later on in the section titled "3P Evaluation of CFW Application Vendors").

Scoring is based on the following:

1. 3P evaluation criteria (Product, Potential, and Presence)
2. Knowledge of the vendor, their products, and services
3. End-user customer feedback and reference discussions
4. LNS Research industry experience and judgment

LNS Research, in its sole discretion, determines which vendors are included in the SSM. This includes excluding vendors who, in our judgment, do not adequately meet the inclusion criteria, didn't respond to or complete the survey, or did not provide customer references.

Those vendors selected for inclusion in the CFW Applications SSM are given the opportunity to review their individual profiles for factual accuracy before publication. LNS Research reserves the right to update the SSM and the individual vendor profiles at any time.

Vendor Selection and Inclusion Criteria

LNS Research developed inclusion and exclusion criteria consistent with our definition of the CFW Applications category. In reality, no bright lines separate CFW Applications from solutions that support the broader FOIW ecosystem; vendors offering comprehensive, scalable, value-enabling capabilities and emerging technologies were identified for potential inclusion in this SSM and screened against these criteria.

Inclusion Criteria

The universe of CFW solution vendors is large and diverse, with varying vendor characteristics, product scopes, and go-to-market strategies. There are many niche players and point-solution providers outside the realm of CFW Applications, as defined by LNS Research. Vendors identified for potential inclusion in this SSM were screened using the following inclusion criteria:

- **Operations-ready designs:** User-centered, role-specific experiences tailored to the responsibilities of frontline workers, supervisors, and leaders across operations, maintenance, quality, safety, and logistics with automated data monitoring, capture, and reporting capabilities that embed safety, compliance, and real-time risk mitigation into daily task execution.
- **Employee-centric:** Provides an intuitive, mobile-first interface with real-time data, AI-powered insights, and continuous improvement tools for contextualized decision-making support to advance safety and product innovation, workforce upskilling, knowledge collaboration, dynamic competency management, real-time process optimization, and sustainability improvements.
- **Proven scalability:** Enables enterprise-wide deployment across multiple sites, business units, and user roles. Supports rapid adaptation to evolving operational needs through configurable workflows, low-code/no-code tools, and emerging technologies such as vision systems, Agentic AI, AI/ML, and AR/VR, enabling Virtual Operations Centers.
- **Point of work support:** Delivers personalized work execution support (e.g., lock-out/tag-out (LOTO), work permitting), in-context training, prescriptive recommendations, remote support, real-time feedback, automated knowledge management, and self-service analytics seamlessly within the flow of work to mature decision intelligence across the organization.
- **Closed-loop functionality:** Supports private and public cloud deployment, with flexibility for hybrid/edge architectures that enable IT/OT convergence. Facilitates cross-functional collaboration and operational excellence by enabling the multi-directional flow of data, insights, and digital content across the operational management ecosystem (e.g., MES, EHSS, EAM, EQMS) via an open, interoperable architecture with pre-built connectors and APIs.
- **Industrial strategy:** Focused go-to-market presence in one or more core manufacturing sectors—discrete, batch/hybrid, or process/infrastructure, with active customer deployments spanning key operational domains such as production, safety, quality, maintenance, warehouse, and field service.

Exclusion Criteria

To help ensure only vendors with product offerings consistent with the LNS Research definition of the CFW Applications space were considered, LNS Research excluded these types of product offerings:

- **Basic mobile applications of existing application(s):** Mobile apps that serve only as front-end access to existing backend systems without delivering a persona-based user interface, enhanced connectivity, contextualized insights, or role-specific work execution support capabilities.
- **Hardware-only solutions without embedded CFW functionality:** Standalone devices or hardware platforms (e.g., wearables, Bluetooth beacons, sensors, PPE) that are not part of a vendor's integrated CFW software offering and do not independently deliver digital workflows, decision support, or AI-powered knowledge management.
- **Wearable data collectors without in-platform value delivery:** Wearables or sensor solutions that function solely as data sources, without delivering in-app, role-specific guidance, contextual alerts, or integration into closed-loop task execution and decision support environments.
- **Isolated point solutions for single use cases:** Single-domain or narrowly scoped applications (e.g., maintenance-only tools, micro-training platforms) that do not enable cross-functional workflows, task orchestration, or data unification across multiple operational roles or environments.
- **Solutions focused solely on remote or hazard avoidance technologies:** Platforms designed primarily to remove workers from the physical environment—such as drone-based inspection, remote-controlled equipment, or standalone remote operations centers—without supporting real-time human task execution, collaboration, or in-context decision-making.
- **Digital toolkits or technology offerings that lack CFW functionality on an enterprise scale:** Platforms such as workflow engines, business process automation tools, analytics dashboards, generic collaboration apps, or no-code development platforms that do not offer out-of-the-box CFW-specific features like role-based UI, embedded safety protocols, digital permitting, in-context learning, and real-time decision support.

FOIW Ecosystem Alignment

The market landscape is broad, and vendor offerings vary in scope, product capabilities, and go-to-market approach. LNS Research evaluated each solution against the CFW Applications definition and framework to determine how each aligns to the broader FOIW landscape. Because capabilities increasingly overlap across the ecosystem, alignment is best understood by the primary operational problem a solution solves today, the workflows it enables, and how AI is materially embedded in day-to-day workflows.

Four distinct categories have emerged across the broader FOIW ecosystem:

- **AI-Powered CFW Applications** are systems of action for frontline work execution and orchestration, anchored in guided execution, in-context assistance, and performance management in the flow of work, with AI delivering real-time insights and feedback, decision support, and role-specific workflow automation.
- **AI-Powered Safety & Risk Management** is a system of control for operational risk, specializing in integrated audits, vision systems, and near-miss/incident management, with AI enabling anomaly detection and intervention, automated event and action tracking, and embedded compliance at the point of work.
- **AI-Powered Industrial Workforce Management** is a system of allocation for labor, skills, and capacity, focused on shift and workforce scheduling, scenario planning, and onboarding management, with AI supporting skills-based scheduling, shift optimization, and dynamic competency management at the pace of operations.
- **AI-Powered Industrial Knowledge Management** is a system of continuity for expertise at scale. It captures role-specific standards, troubleshooting know-how, and site guidelines, then puts them to work through on-the-job training, with AI delivering contextualized expert assistance and proven best practices.

Recognizing that CFW Applications and solutions within the broader FOIW ecosystem have overlapping capabilities, alignment was driven by the problem the solution principally solves today, and who owns it, in addition to how AI is materially applied in real deployments, as shown in Table 1.

Table 1: AI in Real Deployments

	AI-Powered CFW Application	AI-Powered Safety & Risk Management	AI-Powered Industrial Workforce Management	AI-Powered Industrial Knowledge Management
Primary focus	System of action for frontline work execution	System of control for operational risk	System of allocation for labor, skills, & capacity	System of continuity for expertise at scale
System of value	Work orchestration & problem-solving speed	Risk identification, mitigation, & governance	Workforce capacity, readiness, & flexibility	Knowledge retention, governance, & improvement
Dominant use cases	Guided execution & in-context assistance, workforce performance management	Integrated inspections & audits, vision systems, & near miss/incident management	Shift & workforce scheduling, scenario planning, & onboarding management	Role-specific work standards & trouble-shooting support, site-specific guidelines, & on-the-job training
Role of AI	Real-time insights & feedback, decision support, & role-specific workflow automation	Anomaly detection & intervention, automated event & action tracking, & embedded compliance	Skills-based scheduling, shift optimization, & dynamic competency management	Contextualized expert assistance, automated knowledge transfer, & cross-site best-practice sharing
Primary Buyer/ Sponsor	Operations, Plant/Line Leaders, OE/CI Leaders	EHS, Risk, Operations Leadership	Workforce Planning, Operations, HR	CoE/Central OE-CI, Engineering, Operations

Vendors Included

LNS Research identified 13 vendors for inclusion in the 2026 CFW Applications Solution Selection Matrix (SSM). These vendors largely meet our inclusion criteria and, in our judgment, are significant market players, both established and emerging. Given the dynamic growth in the CFW Applications space, it's not feasible to make this an exhaustive vendor list. However, we believe this set of vendors aligns well with current and emerging market leaders in the CFW space and provides insight for industrial organizations considering a CFW vendor selection process to build the work execution layer and deploy Industrial AI across the broader FOIW ecosystem.

The 13 vendors included in the SSM are:

- **Augmentir:** well-established player in the CFW Applications market with an AI-native platform offering differentiated work execution support and competency management solutions with predictive insights to optimize individual and operational performance.
- **Dozuki:** a CFW solution provider strongly focused on standardizing work execution support with role-specific digital work instructions and enhanced skills management capabilities that improve knowledge management to upskill employees.
- **Innovapptive:** a well-established CFW Applications vendor for asset-intensive industrial companies, offering pre-packaged asset performance solutions for operator rounds, maintenance inspections, and warehouse inventory management with differentiated ERP integration support.
- **Intellect:** acquired Zaptic in 2025 to offer customers the Connected Frontline Worker platform to automate compliance, digitize operational excellence, and scale enterprise knowledge with configurable workflows and governance frameworks.
- **L2L:** an established CFW provider offering discrete manufacturers digital tools that integrate production, maintenance, and quality management within a larger portfolio of solutions for employee training and continuous improvements.
- **CAI:** acquired Parsable, an early CFW Applications market player, in 2024 to improve work process execution, cross-functional capabilities, and team collaboration solutions, including workflows and procedures to broaden manufacturing offerings.
- **IFS:** acquired Poka in 2023, a well-established CFW solution, for work execution support and competency management capabilities built for empowering continuous improvement to accelerate the Industrial AI-focused growth strategy.
- **QAD | Redzone:** offers pre-built Frontline Collaboration, Productivity, Compliance, Reliability, Learning, and Scheduling modules through Redzone, a fast-growing CFW solution acquired in 2023, with deployment support to fuel rapid growth.

- **Squint:** a newer CFW solution gaining market momentum with an AI-native platform focused on integrating newer emerging technologies for enhanced employee onboarding, personalized execution support, and improved problem-solving.
- **SymphonyAI:** added CFW capabilities for standardizing inspections, audits, and operational tasks to a portfolio of industry-specific Industrial AI manufacturing execution and asset management applications with the 2021 Proceedix acquisition.
- **TeamViewer:** offers CFW products for work execution support, productized, wearables-enabled inventory picking solutions, and AR-centric remote support tools within a larger portfolio of global IT and security management software.
- **Tulip:** an established player in the CFW Applications market offering a library of pre-configured frontline applications with a larger portfolio of composable manufacturing execution and advanced analytics software solutions.
- **Workerbase:** a CFW solution provider with strong machine integration capabilities for dynamic workflow orchestration that enhances visibility, drives cross-functional coordination, and improves performance in high-speed, variable process manufacturing environments.

This Guidebook shows the relative position of each vendor based on the 3P Evaluation Model methodology. At the same time, the CFW Applications SSM Vendor Compendium provides individual vendor profiles with further commentary on our assessment.

Prometheus Group, a provider of EAM software solutions and APM offerings, has completed its acquisition of Webalo, announced in January 2026. Webalo is a CFW solution founded in 2015 in North America, serving customers in paper, packaging, and food & beverage manufacturing. Although Prometheus Group does not currently sell or market Webalo as a CFW offering, the company continues to support existing Webalo customers. As a result, LNS Research is unable to assign 3P scores to Webalo's CFW offering in this SSM. We believe Prometheus Group will eventually bring a new product to market that builds on Webalo's capabilities as a frontline execution platform, and when that offering is generally available, LNS Research will assess it and publish the evaluation as an addendum to this report.

Note: SymphonyAI elected to participate in a limited capacity in the SSM review process.

CFW Application Market Landscape

The CFW Applications space has evolved rapidly from a fragmented set of early-stage startups and point solutions to a landscape that now includes scaled pure-plays, portfolio vendors, and global industrial software providers. As manufacturers expanded CFW initiatives beyond initial pilots and began scaling standard work, training, and performance management across sites, vendor strategies diverged. Increasingly, leaders are shifting from "CFW as an app" to a more holistic Future of Industrial Work (FOIW) ecosystem approach to meet changing operational and workforce demands.

Figure 8 provides a conceptual view of the CFW Applications landscape. It groups vendors into four categories that reflect common products and go-to-market strategies. With Industrial AI rapidly becoming a baseline expectation, CFW Applications are emerging as the AI-powered layer for work execution and experience, sitting between business systems and plant work. In practice, there are no bright lines between categories; the right fit depends on the organization's operational architecture, capability needs, and integration requirements across the existing technology stack.

- **Pure-play CFW:** purpose-built CFW platforms that span multiple frontline use cases and typically compete on innovation speed, usability, and time-to-value (e.g., Augmentir, Dozuki, Innovapptive, Workerbase).
- **Portfolio CFW:** productized CFW solutions offered within a broader portfolio, often bundled with adjacent operational applications and services (e.g., L2L, CAI, IFS, QAD | Redzone, SymphonyAI, Tulip, Intellect).
- **Industrial Software:** global industrial software providers that support CFW scenarios as part of a wider platform or suite (e.g., TeamViewer).
- **FOIW Ecosystem:** adjacent application layers organized into domains (e.g., Safety & Risk Management, Workforce Management, Knowledge Management) with emerging technologies (e.g., computer vision, AR/VR-assisted guidance) that expand CFW outcomes (e.g., Squint).

Most deployments show manufacturers adopt FOIW ecosystem applications to close specific gaps (risk prevention, staffing execution, and knowledge transfer) and further enhance the value of CFW solutions. For some organizations, users have found specific functionality, capabilities, or use cases (e.g., Agentic AI, skills management, operational excellence) provided by other vendors (e.g., Cognite, Fabriq, Samsara) can support CFW outcomes in varying degrees.

While industrial software companies and large enterprise technology providers can enable CFW use cases, deployments often require significant configuration, integration, and systems implementation work. In many cases, these vendors rely on partnerships with specialized providers, including third-party CFW Applications. Examples include AVEVA's white-label offering of Poka, SAP's partnerships with Innovapptive and TeamViewer, and Rockwell's PTC-powered offerings, such as ThingWorx, which was acquired by TPG in 2026.

Organizations have embraced AI-powered CFW Applications as the modern user interface (UI) to improve the employee experience, implement new operating models, and deliver real-time Virtual Operations Center support, driving improvements in safety, quality, and productivity. Vendors listed in Figure 8 are for illustrative purposes only and, depending on scope and deployment model, may legitimately span multiple categories. The CFW SSM Vendor Compendium provides a detailed analysis of the 13 solutions that substantially fit our CFW Applications inclusion criteria. At the same time, the upcoming SSGs for FOIW and Operational Excellence (OpEx) will help industrial organizations select solutions across the broader ecosystem.

Pure-Play CFW	Portfolio CFW	Industrial Software	Other (e.g., CFW functionality, use cases, domain-specific)
• Augmentir • Dozuki • Innovapptive • Workerbase	• Connected Frontline Worker by Intellect • Connected Manufacturing Operations by L2L • Frontline Operations by Tulip • Parsable by CAI • Poka by IFS • Proceedix by SymphonyAI • Redzone by QAD • Webalo by Prometheus Group*	• Acadia by Epicor • Fiori by SAP • Frontline by TeamViewer • Mobile Operator by AVEVA • Plex Connected Worker by Rockwell • Smart Operations by Oracle • Vuforia by PTC • Workforce Intelligence by Honeywell	• Anvl by Benchmark Gensuite • Cognite • Fabriq • Fogsphere • Legion • MākuSafe • Rippling • Samsara • ThingWorx by TPG

Future of Industrial Work Ecosystem

Safety & Risk Management

- Aatmunn
- Corvex
- Intenseye
- Invisible AI
- Protex AI
- Teamforce AI
- T-Pulse by Detect Technologies
- Visionify
- Voxel AI

Workforce Management

- Connecteam
- Dayforce
- Indeavor
- Kahuna
- Pro Workforce Management by UKG
- Quinyx
- Rippling
- Workforce Software
- WorkForce Suite by ADP

Knowledge Management

- Apprentice.io
- Azumuta
- Canvas GFX
- DeepHow
- Operations1
- OpsMate AI
- ProcessMaster
- Solvace
- Squint
- VKS

** At the time of publication, the announced acquisition of Webalo's CFW Application by Prometheus Group was completed in early 2026; the company is no longer selling or marketing Webalo as a CFW solution while supporting existing customers.*

Figure 8: CFW Applications market landscape for illustrative purposes

3P Evaluation of CFW Application Vendors

LNS Research has developed a framework, the "LNS Research 3P Evaluation Model," to help qualitatively position vendors within a specific technology category. This model considers the dimensions of Product, Potential, and Presence when evaluating a vendor's offering in the relevant category. We applied this methodology to develop the CFW Applications Solution Selection Matrix (SSM).

Product

As previously stated, LNS Research evaluates product offerings in a specific technology category against the relevant components of the LNS Research IX Reference Architecture. In the case of CFW Applications, the main focus is on the most essential Applications & Analytics, Development Tools & Libraries, and Ecosystem components.

In our definition of the CFW Applications category, LNS Research views Applications & Analytics as a core enabler of solutions. This is reflected in the corresponding product evaluation criteria, which emphasize functional capabilities and platform technology features, including unique capabilities. The detailed CFW Applications product evaluation criteria are shown in Table 2 below.

Table 2: Product Evaluation Criteria

CFW Applications: Product Evaluation Criteria	
Capability | Functionality	**Selected Vendor Highlights (1)**
Digital knowledge management • Role-specific digital work instructions • Knowledge capture & repository • Change & version management • Knowledge collaboration & search • Augmented work instructions • Natural language processing • AI/ML-aided knowledge capture • Large language models	• **Augmentir** SOP/DWI templates & AI/LLM-enabled content improve batch/process/CPG • **Innovapptive** DWIs & configurable workflows for process & infrastructure industries • **Frontline Operations by Tulip** configurable, pre-built DWIs used in discrete/regulated ops • **Poka by IFS** AI/ML-aided knowledge search, version control, & CI for global F&B/CPG ops
Work execution support • Guided workflows & execution • Real-time insights & feedback • Context-aware assistance • AI-enhanced decision support • Image processing • AI-powered workflows • AR/VR-enriched experiences • Workforce health & wellness	• **Innovapptive** AI-enhanced workflows, offline rounds, & playbooks for asset-intensive ops • **Redzone by QAD** contextualized support, engagement, & coaching at the point of work • **Augmentir** personalized guided workflows & execution with AI-enhanced decision support • **Frontline Operations by Tulip** validation/ governance for traceability & GxP compliance

Workforce competency management • Task-based skills management • Training program management • In-context learning • Content creation & synchronization • Dynamic competency management • AI-guided continuous training • Immersive simulations • Career & leadership development	• **Poka by IFS** AI-assisted, in-context content creation, dynamic skills & competency visibility • **Redzone by QAD** pre-built & customizable modules for learning, productivity, & reliability • **Connected Manufacturing Operations by L2L** skills training, recertify, & acknowledge in the flow of work • **Augmentir** AI-driven skills, content layer with batch/hybrid templates, & in-context guidance
Workforce reporting & analytics • Advanced analytics & BI Tools • Standard dashboards & reports • Data contextualization • Self-service analytics • Autonomous anomaly detection • Intelligent risk management • Digital performance excellence • Shift & performance management	• **Frontline Operations by Tulip** role-based analytics & AI-native platform to digitize OpEx • **Innovapptive** integrated analytics & reporting support safety, asset health, & reliability • **Redzone by QAD** configurable problem-solving & OpEx tools f or batch/discrete ops • **Augmentir** AI/ML-driven insights support F&B/CPG, worker, & shift performance CI
Team collaboration • Cross-functional work execution • Team communication/problem-solving • Remote collaboration & assistance • Proactive engagement & recognition • Automated event & action tracking • AR/VR-enabled training & support • Automated data & insight sharing • Workforce lifecycle management	• **Redzone by QAD** cross-functional, multi-site F&B/CPG execution & collaboration tools • **Dozuki** cross-functional workflows & problem-solving, 21 CFR Part 11 compliance/validation • **Parsable by CAI** issue escalation, tracking, & traceability in high-volume ops • **Frontline by TeamViewer** robust AR for remote troubleshooting & complex assemblies
Personas & Use Cases • Leader, supervisor, frontline operator/technician • Safety, Quality, Operations, L&D, CI • Security, Maintenance, OpEx, Logistics • Pre-built connectors (HMI/SCADA) • Pre-packaged & configurable offerings • Scheduling & onboarding management • Productized solutions (HCM) • Environmental sustainability	• **Connected Manufacturing Operations by L2L** pre-packaged discrete/batch CFW, MES, & CMMS offerings • **Redzone by QAD** rapid deployment of pre-built modules & offerings across multiple sites • **Innovapptive** pre-built offerings support EHS, maintenance, operations, warehouse, & CI • **Augmentir** daily management support tools & guided workflows for frontline supervisors • **Frontline Operations by Tulip** configurable templates support complex, high-mix ops

Agentic AI • Content generator • Seamless access to insights • Chat agents • Generative & Conversational AI • Prognostic & prescriptive prompts • Specifications & rules • Workflow engine & automated workflows • Validation & version management • Data analysis & optimization • Workforce & warehouse management • Storeroom & spares optimization • Communication analytics	• **Squint** AI-native platform offering AR-enhanced execution & troubleshooting • **Augmentir** AI-native platform & Gen AI product suite for in-context assistance • **Frontline Operations by Tulip** data-driven contextualization, decisions, & escalation logic • **Redzone by QAD** AI-aided guidance/insights, support role-based execution & workflows • **Connected Frontline Worker by Intellect** AI-assisted workflows & knowledge support quality & CI processes • **Innovapptive** AI-embedded platform & data analysis for warehouse/inventory optimization • **Proceedix by SymphonyAI** workflow engine for regulated ops within an AI-focused portfolio
Platform Features • Application & operational security • Product security & privacy controls • No/low code • Open APIs/SDKs & pre-built connectors • Connected & offline to cloud/edge • Broad device support & management • IoT data integration & data distribution • Data lake connectivity • Contextual data modeling • DataHub with queryable APIs	• **Frontline Operations by Tulip** modular & composable CFW, MES, & analytics offerings • **Innovapptive** AI-enhanced platform & tools to automate ERP & EAM-centric workflows • **Augmentir** pre-built connectors, 21 CFR Part 11 compliant platform, & ecosystem approach • **Squint** video-first knowledge capture platform with consumer-grade, operator-centric UX • **Workerbase** work orchestration layer & user-designed tools for high-volume production

(1) Selected highlights of vendor capabilities illustrative of product strengths.

For each Vendor Profile, we use Harvey Balls to score the degree of product functionality or feature coverage, then determine an overall Product score from 1 through 6 based on the Product Definitions & Scale below.

Product Definitions and Scale

6. Market leading capabilities across the spectrum of key functionality as defined by LNS Research[1]; proven success meeting all requirements in markets specifically targeted by vendor[2].
5. Robust spectrum of capabilities for applicable target markets. Few shortcomings that are recognized.
4. Broad though not complete spectrum of capabilities applicable to target markets.
3. Limited but sufficient capabilities applicable to a subset of target markets; lagging in product development and functionality.
2. Some gaps in functionality required to be addressed to fully meet target markets.
1. Newly launched minimal viable product and/or significant gaps in functionality required to be addressed to fully meet target market requirements.

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[1]Assessments are made against a specific LNS Research-defined "Reference Architecture." For example, IIoT vendors would be judged against the LNS Research IX Reference Architecture.

[2]Target markets are the geographies and application areas specifically pursued by vendor. For example, vendors targeting only English-speaking markets will NOT be penalized for lack of two-byte character support.

Potential

LNS Research assesses the vendor's potential for growth in both the product and presence dimensions. Potential may be affected by scale, focus, financial resources, market positioning strategies, the management team (especially for smaller companies), merger and acquisition plans, partnering strategy, and other relevant factors that influence the potential for further market penetration and business growth.

In the CFW Applications market, hundreds of vendors are seeking to offer differentiated solutions. We have included only companies in this report that we believe have opportunities for growth and long-term viability. Since this remains a dynamic, fast-moving market, some early-stage/start-up companies are included because we believe their focus and technology enable them to be competitive.

Potential Definitions and Scale

6. Likely overall market leader (across many industries, geographies, and application areas); currently outpacing all competitors.
5. Among small set of likely overall market leaders evidenced by current leadership in target markets and proven record of innovation.
4. A likely leader in some targeted markets with growth potential to move up; could rise to leading position in specific markets.
3. Likely a significant player in target markets with defensible barriers to competition and growth prospects.
2. Likely a niche player in target markets with some known risks to future growth in product and presence.
1. Early-stage company with wide dispersion of potential long-term performance and/or a niche player with significant risks to future growth.

Presence

LNS Research develops a composite Presence score that assesses a vendor's market penetration across geographies, industries, and customer sizes served. The score factors both "capability to serve" and "proven success."

- **Capability to Serve:** Focused (experienced in the specific domain) sales, service resources, and product enhancements to serve specific target markets. Service and technology partnerships also play a key role.
- **Proven Success:** Market success (installed base) in the markets served, including customer references.

An overall score from 1 through 6 is determined for each vendor based on the following Presence Definitions & Scale.

Presence Definitions and Scale

6. Market leading sales, service[3] and successful customers globally, in all relevant industries, and with companies of all sizes.

5. Robust sales and service capabilities and successful customers across all major geographies (North America, Western Europe, Middle East[4] and industrialized Asia-Pacific), a range of industries and company sizes.

4. Broad-based sales, service, and successful customers across most major geographies (North America, Western Europe, and selected Middle East and Asia-Pacific countries), specific industries and/or companies of a specific size (SMB, for example).

3. Regional sales, service, and customer success in select major western geographies; select industries and sizes.

2. Sales, service, and customer success in limited market(s), industry, and company sizes.

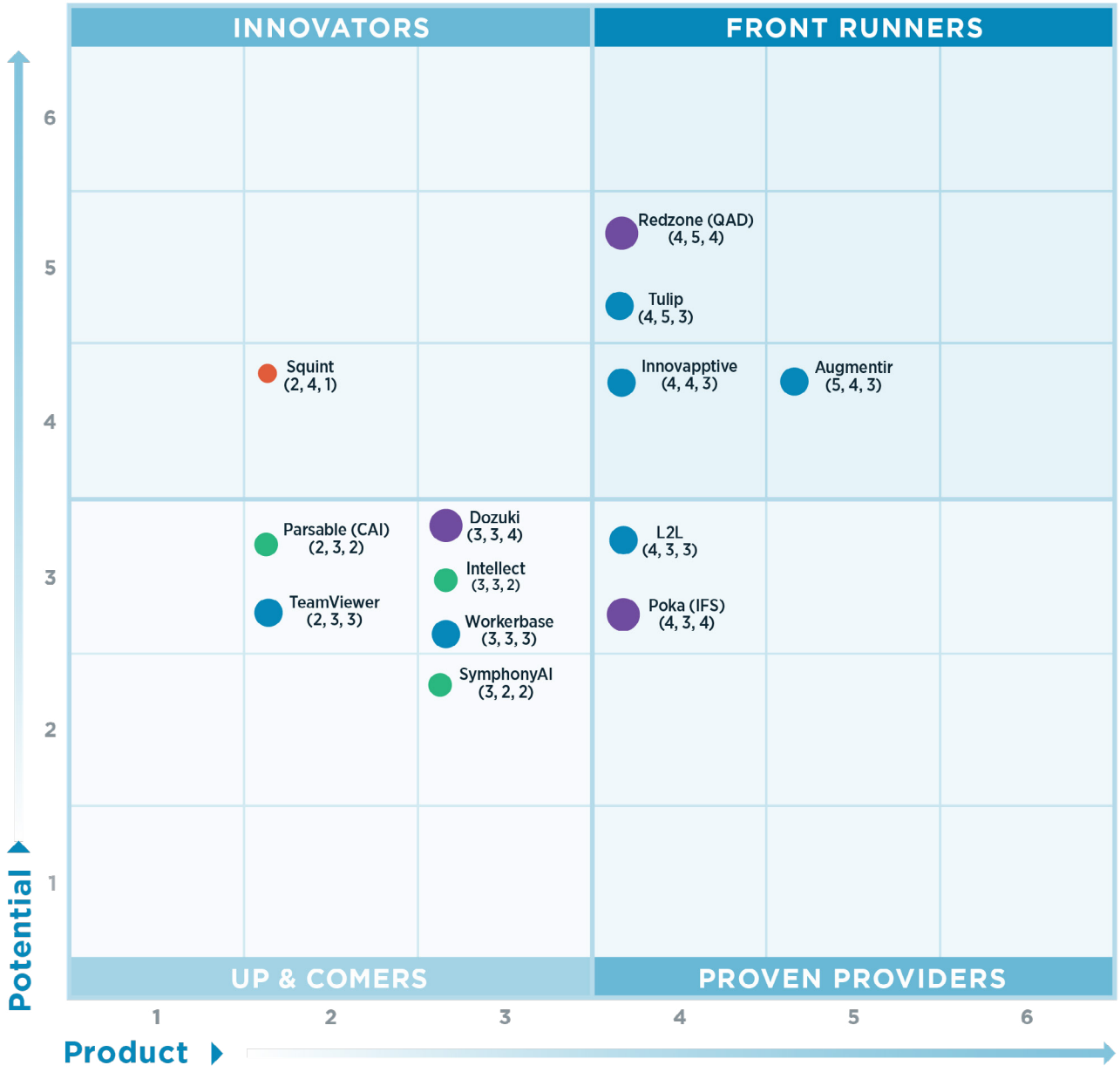
1. Still in early stages of launching new product and/or company with a very limited group of customers.

[3]Presence is measured by a vendor's capabilities to serve AND proven implementations. Vendors' capabilities to serve are measured by resources able to support a specific technology, not overall company capability.

[4]Middle East is a "major" geography for many process industries but not for discrete.

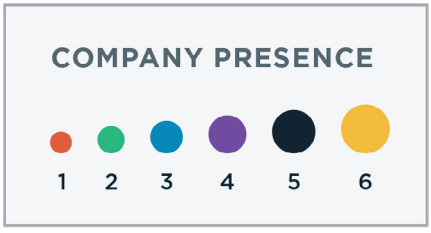
SOLUTION SELECTION MATRIX

Connected Frontline Workforce Applications



3P COMPANY SCORE *(Product, Potential, Presence)*

Augmentir (5, 4, 3)
Dozuki (3, 3, 4)
Innovapptive (4, 4, 3)
Intellect (3, 3, 2)
L2L (4, 3, 3)
Parsable (CAI) (2, 3, 2)
Poka (IFS) (4, 3, 4)
Redzone (QAD) (4, 5, 4)
Squint (2, 4, 1)
SymphonyAI (3, 2, 2)
TeamViewer (2, 3, 3)
Tulip (4, 5, 3)
Workerbase (3, 3, 3)



The LNS Research CFW Applications Solution Selection Matrix (SSM) visually represents the relative positions of the included vendors based on the application of the 3P Evaluation Model. The 3P evaluation scores are mapped into the SSM. The horizontal axis value is the Product score; the vertical axis value is the Potential score. The size of the bubble represents the Presence Score. The composite score reflects the potential for wide-scale enterprise deployment and value.

The CFW Applications SSM reflects our current view of the overall market landscape. It's a rapidly evolving market, as illustrated by the diversity of strengths among the vendors in the Front Runner category:

- **Augmentir** is a leader in the Product dimension with technology investments and partnerships supporting the AI-native platform's personalized work execution support, dynamic competency management capabilities, and real-time employee, team, and process performance insights for improved operational performance.
- **QAD | Redzone** is a leader in Presence with a global batch manufacturing footprint driven by the Redzone platform's exceptionally fast adoption in food & beverage and CPG, supported by a strong CFW growth strategy for continued market expansion.
- **Tulip** is well-positioned for future growth given its Frontline Operations Platform and the library of pre-built CFW capabilities Discrete Manufacturing customers have scaled, which serves as an AI-powered execution layer that has secured strong investor funding.
- **Innovapptive** has a well-balanced position for growth across Product, Potential, and Presence with productized asset performance management solutions, strong product development and technology partnerships, as well as customer success stories that are enabling adoption across asset-intensive operating environments.

Detailed analysis and commentary on each of the 13 vendors included in this SSM can be found in each of the individual vendor profiles, compiled in the corresponding CFW Applications SSM Vendor Compendium.

Connected Frontline Workforce (CFW) Market Observations

Industrial companies should consider several market observations regarding CFW Applications as they consider these technologies in their Industrial Transformation programs. The following observations reflect the dynamic nature of this fast-moving technology market.

- **CFW capabilities have rapidly redesigned frontline operations.** Over 70% of manufacturers reported scaling 10+ CFW capabilities across most plants, enabling improvements in enterprise safety, quality, and productivity. CFW Applications with out-of-the-box capabilities and differentiated partnerships (e.g., Augmentir, Frontline Operations by Tulip) as well as pre-packaged industry-specific solutions (e.g., Innovapptive, QAD | Redzone) have accelerated frontline adoption, delivered on value propositions, and driven CFW market growth.
- **Market maturity and consolidation/M&A activity have continued.** The once-fragmented and immature market has become more established as CFW vendors have evolved deeper capabilities in advanced analytics (e.g., Poka by IFS), industry-specific solutions (e.g., Connected Manufacturing Operations by L2L), and work orchestration (e.g., Dozuki, Workerbase). Adoption of broader FOIW programs has fueled increased CFW funding, continued M&A activity, and further market consolidation (e.g., Squint, Parsable by CAI, and Prometheus Group's 2026 acquisition of Webalo).
- **AI is now embedded, not optional or bolted on.** Core capabilities that have proven the value of CFW solutions (e.g., content authoring, auto-translation) are rapidly shifting toward AI-powered CFW (e.g., AI agents for decision support, dynamic competency management) that provide personalized support and enable more autonomous operations. Expectations for embedded AI in CFW solutions and across broader portfolios (e.g., SymphonyAI, TeamViewer) are increasingly shaping enterprise buying decisions and commercial negotiations.
- **CFW positioned as core within the FOIW ecosystem.** Industrials are increasingly positioning CFW as the modern interface that seamlessly connects existing technologies (e.g., IT/OT, MES) and aligns outcomes across safety (e.g., EHSS, APM), people (e.g., HCM, LMS), and business (e.g., ERP, PLM, SCM). While AI-powered CFW Applications are becoming the orchestration engine for the FOIW ecosystem, scrutiny is increasing as industrials decide which vendor solutions versus internal/enterprise AI capabilities are critical for future success.
- **The future will focus on AI agents and closed-loop learning systems.** Organizations are shifting from using CFW for digitizing forms and procedures to using it as the place where work happens (e.g., shift handover, incident response, CI). Future deployments will favor CFW applications that can dynamically orchestrate tasks (e.g., based on competencies, constraints, demand), continuously upskill employees (e.g., AI-aided knowledge capture), and align execution, intelligence, and workforce outcomes at the point of work through Agentic AI.

While there is still no one-size-fits-all solution, the market will continue to evolve as Industrial AI adoption accelerates, enterprise architectures mature, and buying criteria shift toward execution, interoperability, scalability, and measurable business outcomes. Selecting the right enterprise CFW solution(s) and use cases will be critical to scaling consistent execution, maintaining step-change performance improvements, and deploying Industrial AI across the entire value chain.

Manufacturers must evaluate CFW not simply as a frontline point solution, but as an enterprise orchestration layer that can help scale consistent work, strengthen workforce adaptability, and support closed-loop improvement across the plant network and value chain. Industrial organizations will face solutions that offer CFW-enabling capabilities or position themselves as CFW platforms, making solution selection highly dependent on understanding where CFW sits in the existing tech stack and future operating model (Figure 6). For example, manufacturers that have heavily invested in Rockwell controllers, MES, or software-defined automation may evaluate options such as the Plex Smart Manufacturing Platform and its Connected Worker capabilities, or partnerships (e.g., with PTC), as a potential path forward. Such approaches may be viable for organizations with strong internal IT/development capacity or external digital transformation partners (e.g., Kalypso). Still, as workforce turnover and shrinking tenure increase dependence on digital guidance, industrials must recognize that unless tools are intuitive and AI is embedded in daily work, adoption will stall.

The CFW Applications market offers a variety of robust products and proven solutions that have become strategic enablers of a future-ready workforce and more resilient operations. Our body of research and point of view is designed to help manufacturers through each step of the journey (Figure 9), from:

- **Securing an executive sponsor** who supports the business case with a FOIW vision and a cross-functional team for planning,
- **Planning and discovery activities** (e.g., clarifying requirements, conducting research, and developing RFPs), and
- **Selection and pilot design**, where organizations evaluate CFW-enabling solutions for their specific industry, footprint, and operating model, and create a shortlist of ideal vendors and deployment patterns that accelerate adoption and funding for priority initiatives.



Figure 9: The CFW Applications Solution Selection Journey

Most importantly, manufacturers should consider each vendor's strengths against the organization's current state and long-term vision. To accelerate a successful CFW Application selection process, detailed product evaluations with functional capabilities and platform technology strengths can be found in the individual profiles contained in the Vendor Compendium that accompanies this Solution Selection Matrix.

Bottom Line and Recommendations

CFW initiatives, many of which began as discrete pilots for digital work instructions or AR/VR technologies, have entered a new phase as CFW Applications have proven imperative for accelerating strategic operational improvements and transforming traditional ways of hiring, training, and managing frontline teams that are failing manufacturers. Compared with technology-centric project deployments, CFW initiatives embedded in broader Industrial Transformation programs and aligned with enterprise vision and architecture deliver materially better safety, quality, and productivity outcomes.

To avoid fragmented point solutions and the many pitfalls that derail CFW solution selection, manufacturers must apply a proven methodology for executing an enterprise strategy that accelerates Industrial AI adoption and equips frontline teams with the capabilities, competencies, and technology skills required for the FOIW. We recommend the following actions to help organizations make the right choice quickly and confidently:

1. **Decide your architectural intent before you build the shortlist.** Leading manufacturers increasingly select CFW solutions based on the architectural role they must play and the work archetypes they must enable, recognizing that a governed portfolio of interoperable tools is often more scalable than forcing a single platform across fundamentally different operating environments. Avoid choosing "the future standard" solely based on current adoption or historical success if that choice limits enterprise gains and future flexibility. Before engaging vendors, clarify the top-line decisions you must improve, visualize how CFW will sit alongside systems such as MES and CMMS, and define a KPI tree aligned with your Operational Excellence strategy so that vendor criteria and shortlists are grounded in architectural intent rather than feature checklists.

2. **Evaluate vendors against CFW capabilities and your priorities.** Build your shortlist around clearly defined CFW capability domains and weight them according to industry context and operating priorities. A process manufacturer may emphasize risk management, knowledge capture, and remote expertise, whereas a discrete manufacturer may prioritize execution support, onboarding, and material-flow use cases (Figure 10). Engage frontline leaders and IT/OT teams together to prioritize capabilities, understand data models, and define how success will be validated, so that the solution you select is the one most likely to scale across plants and use cases over the next two to three years, not just the one that looks best in an isolated pilot.

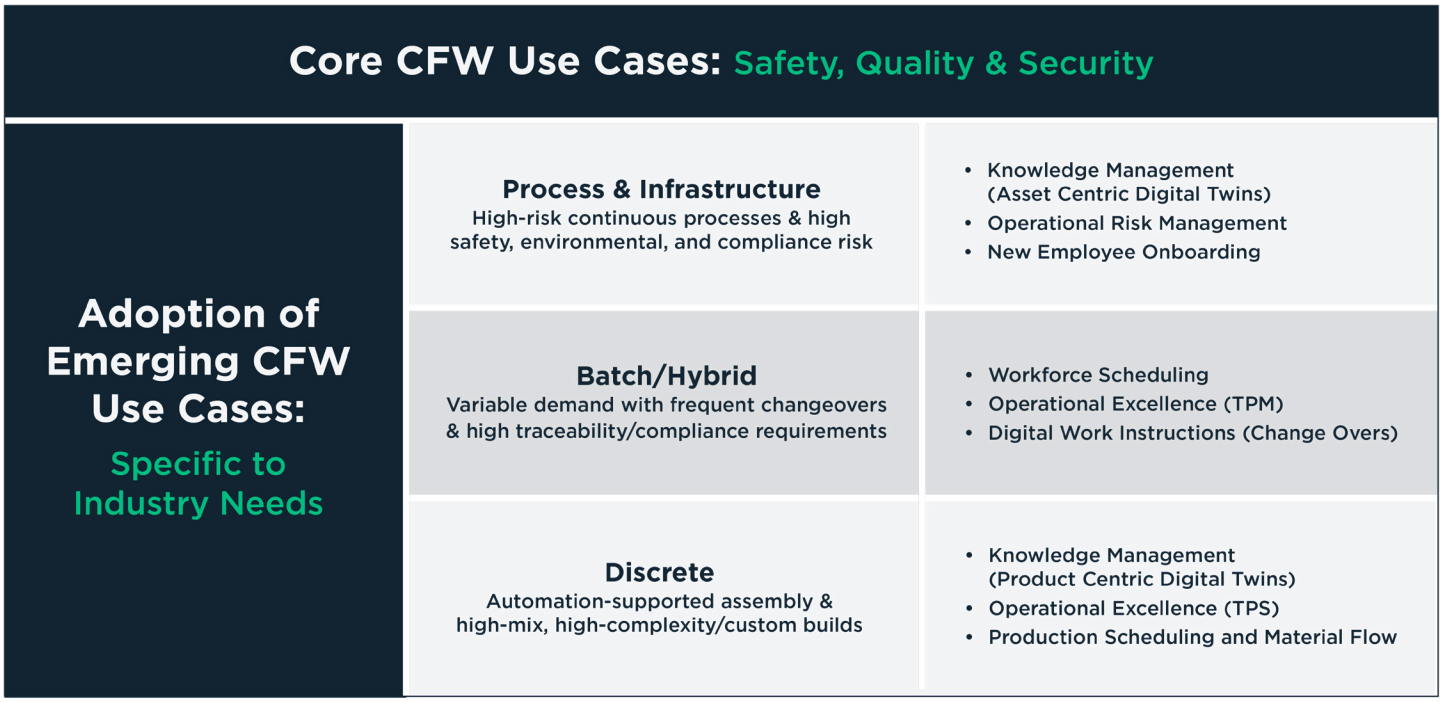


Figure 10: Prioritize CFW capabilities that solve industry-specific problems to accelerate deployment, adoption, and ROI

3. **Avoid "AI-washing" by anchoring on strategic outcomes.** A FOIW strategy that aligns operations, safety, quality, and maintenance toward enterprise outcomes should prioritize proven, scalable CFW capabilities that build momentum. Cross-functional selection teams need to focus on how each solution strengthens workforce resilience and operational agility, including faster decision-making and better problem-solving. When comparing vendors, distinguish between AI marketing stories, lightly deployed features, and genuinely embedded AI that improves frontline outcomes, and insist on value-driven use cases and credible customer references rather than generalized "copilot" narratives.

4. **Make closed-loop interoperability and data flow a non-negotiable selection gate.** CFW should operate as the persona-based execution and experience layer that connects people, assets, and systems across the operations network. Finalist vendors must demonstrate that their platforms can ingest and contextualize data from existing systems, drive actions and insights back into the operating environment, and operate reliably across diverse sites, devices, and infrastructure, enabling local and remote experts to work through a common execution layer. The CFW backbone must support multidirectional data, content, and action flows with closed-loop functionality and an open, extensible architecture that can support secure Industrial DataOps across private, public, hybrid, or edge-oriented environments.

5. **Choose the final vendor based on scalable operating fit.** For enterprise CFW deployments, what matters most is how well the solution performs across personas, integrates into complex industrial architectures, and supports governance and change management across multi-site operations. Vendor qualification should test whether workers can use the solution easily in real environments, whether leaders and supervisors gain better visibility and control, and whether the platform truly supports work execution rather than only content creation and consumption. A final evaluation should assess governance burden, configurability versus complexity, and the strength of industry references that have expanded use cases at scale with operations-ready solutions that enhance the broader ecosystem for closed-loop execution.

CFW Applications, as a COO-level strategic enabler, must be anchored in enterprise vision, aligned to the future architecture, and embedded in a holistic FOIW strategy rather than treated as isolated tools. To avoid a patchwork of disconnected apps and falling victim to AI hype, organizations should focus on vendors that provide scalable CFW solutions proven to move beyond pilots, fit their future-state operating model, and accelerate their operational excellence strategy.

Manufacturers that look beyond today's most acute pain points and evaluate CFW through the lenses of architectural fit, work archetypes, and closed-loop interoperability will be best positioned to scale solutions across sites and personas and to build a decision-intelligence layer that empowers future growth.

To further support this journey, LNS Research will publish an Industrial AI SSM, an FOIW Solution Selection Guide (SSG), and an Operational Excellence SSG to help organizations navigate the evolving market landscape and make AI investment decisions with confidence.

Upcoming Solution Selection Support

As industrial companies dramatically accelerate digital transformation initiatives and AI spending, LNS Research will be publishing an Industrial AI SSM, FOIW Solution Selection Guide (SSG) and Operational Excellence SSG to help organizations navigate the complex market landscape with confidence.

Methodology References

This Solution Selection Matrix is based on the following research:

1. Definition of Industrial Transformation (IX) Platforms as outlined in: IX Architectural Paths: Part Two of Three Evaluating IX Platforms and IX Analytics & Applications
2. This definition was based on the IX Reference Architecture outlined here: Research Spotlight: From the Industrial Internet of Things (IIoT) Platform to Industrial Transformation Reference Architecture
3. Update on IIoT Market Dynamics: Changing Dynamics of the IIoT Market
4. LNS Research Vendor Evaluation Process highlighted here: How LNS Research Evaluates Vendors in Technology Domains

Vendor Profiles are snapshots of the company's capabilities at a specific time, based on the vendor's ability to deliver in this particular market, not its overall capabilities. Vendors regularly announce new product releases, roadmaps, acquisitions, partnerships, and updated strategies. LNS Research seeks to capture those announcements up to the time of publication within the vendor's "Potential" score, as the actual impact on the market has not yet materialized.

Related Research on Connected Frontline Workforce

BLOG | What are Connected Frontline Workforce (CFW) Applications?

BLOG | The Future of Industrial Work is an AI Ecosystem, Not an App

BLOG | The Future of People in Manufacturing: Navigating a Changing Frontline

BLOG | How to Leverage Connected Frontline Workforce Applications Like a Leader

BLOG | How to Fix Failing Connected Frontline Workforce Initiatives And Unlock Next-Level Business Value

BLOG | MES or CFW: How to Match the Tool to the Task

BLOG | Exploring the AI Craze as the CFW Wave Gains Manufacturing Momentum

BLOG | Why CFW Initiatives Fail: Overcoming 4 Critical Gaps to Accelerate Business Value

BLOG | Why AI, Analytics, & CFW Applications Should Be in Your Frontline Toolbox

RESEARCH | Future of Industrial Work: Develop a Sustainable Workforce Strategy

RESEARCH | Knowledge Management For Chief Operations Officers

RESEARCH | The Knowledge Management and Industrial AI Imperative: Bridging the Skills Gap with AI Connected Workers and Virtual Operations Centers

RESEARCH | Future of Industrial Work: Future-proofing Your Operations

RESEARCH | Bring the Whole Manufacturing Network Along on Your Industrial Transformation Journey

RESEARCH | Industrial Transformation: Architecture and Analytics Just the Beginning

RESEARCH | Industrial Control Systems and Edge Computing: Enabling an Operational Architecture for Applications and Analytics

RESEARCH | Avoiding Pilot Purgatory: How to Choose the Right Use Cases to Accelerate Industrial Transformation

RESEARCH | Industrial Transformation Success: How to Secure Operations' Buy-in to Create Effective Leadership

SOLUTION SELECTION

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