Redefining the Ecosystem of Tomorrow An evolution of your people, processes, systems and data Enriching Communication and Empowering Interoperability

True North for Enterprise Calibration

www.lpXhq.com

Got Digital Thread? \$ Is our business model sustainable? \$ Do we care about true quality? Got Artificial Intelligence? Got Blockchain? b this approach scalable? Do we have interoperable processes and systems? Got AGILE? Got Mik? Got 3D Printing? Got Machine Learning? How can we ensure functional utilization of data? Got Digital Transformation? Got Digital Twin?\$ hat about Integrated Logistics Support?

Redefining the Ecosystem of Tomorrow

An evolution of your people, processes, systems and data

Education & Workforce Development	Professional Services	Digital Solution Advisement and Support	Organizational Change Management
Underpinning our training and services is our IP - the only end-to-end Enterprise Operating Standard with Supporting Processes, that's our Business Ecosystem Sustainability Model, CM2-500. Our training is currently non- exclusively accredited by Purdue University and the Project Management Institute .	Our clients know us for our True North Enterprise Calibration Model. It's a proven holistic and scalable engagement model that dramatically reduces risks associated with change. The model ensures the fundamentals of people, processes, enabling tools and the goal of data interoperability within the context of the problem statements	We provide the only tool agnostic and end-to-end PLM Requirement's Standard to assess a digital solutions capability. We assess the tools functionality and capabilities, advise on tweaks and adjustments if and/or when necessary, and ultimately certify their products to CM2-600.	The success or failure of any change effort is most often tied back to a focus, or lack of focus, on the people. Your company is, after all, your people. They are the culture, the success, and the change agents. We train and mentor clients on proven techniques and tools for institutionalizing change, elevating employee engagement, reducing turnover and increasing market share.
THE IDJEAN ACADEMY Innovation Driven by Excellence and Accountability	TRAINING & COSTISTEM ASSESSMENT TRAINING & CORTINUE COSTISTEM ASSESSMENT TRAINING & CORTINUE TRAINING & CORTINUE TRAINING TRAINING & CORTINUE TRAINING & CORTINATION OF TRAINING & CORTINUE TRAINING & CORTINU	S★ Image: Strain S	Opposite Opposite <th< td=""></th<>

Global Cross Industry Congress

Industry Trends and Benchmarking

A natural question is, how does IpX stay on the leading edge of technology and ahead of the curve with enabling processes?

The Global Congress is made up of an international contingent of cross industry executives who combine their expertise into a guiding body that keeps IpX up to date on relevant industry trends and critical business drivers.

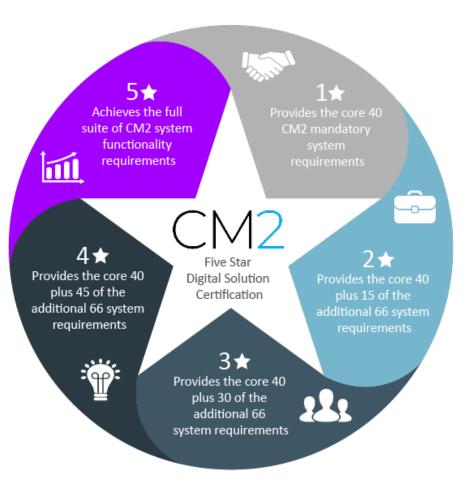
Each member must have achieved their CM2-Professional certification to be eligible for nomination to the Congress.



Technological Evolution

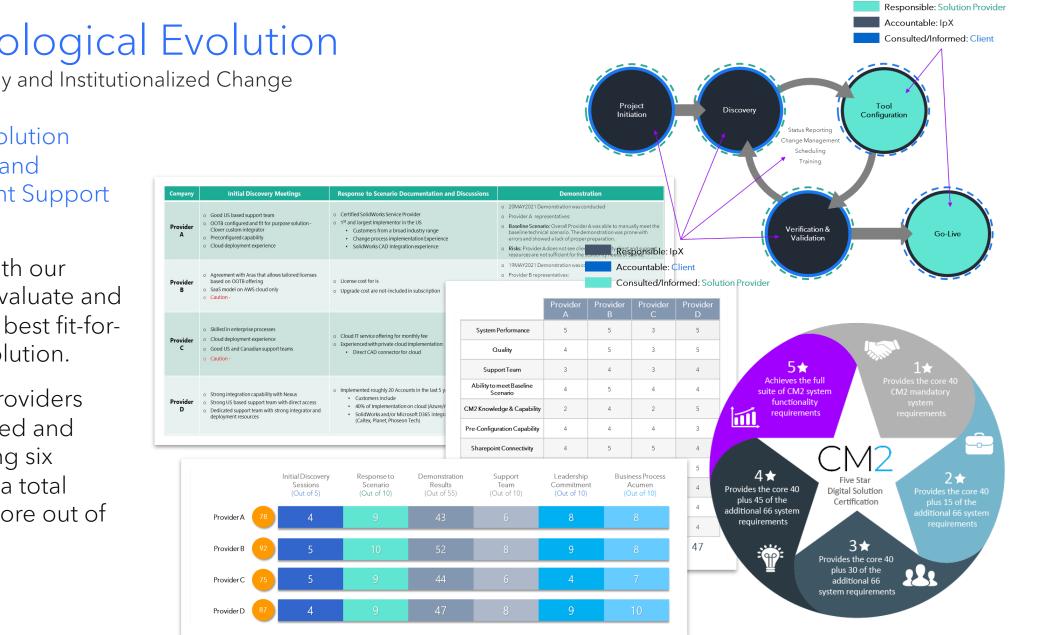
Methodology and Institutionalized Change

Digital Solution	CM2 Five Star Rating		
CMPRO	****		
ARAS Innovator	***		
Siemens Teamcenter	****		
PTC Windchill	****		
Dassault Systemes Enovia	***		
Oracle Agile	***		
SAP PLM	**		
Autodesk Fusion Lifecycle	**		
Arena PLM	**		
Propel PLM	**		



CM2-600 Five Star Certification

Solutions are assessed against the requirements in the CM2-600 Product Lifecycle Functionality Requirements Standard.



Technological Evolution

Methodology and Institutionalized Change

Software Solution Evaluation and **Deployment Support** Services

Working with our clients to evaluate and deploy the best fit-forpurpose solution.

Software providers are evaluated and scored using six factors, for a total possible score out of 100.

Why is this Important?

True North Value Preservation

"We are living through a virtual avalanche of business risks from labor shortages, supply chain issues and inflation to increased regulatory oversight and enforcement."

"When combined, these challenges collectively threaten a company's reputation, and even its financial viability. Companies across all industries should closely re-evaluate all manufacturing processes, vet supply chain partners and invest time and resources to prepare for the next product crisis."

- Chris Harvey, Senior Vice President at Sedgwick

Engaged

Your Organization is Actively Implementing

CM2

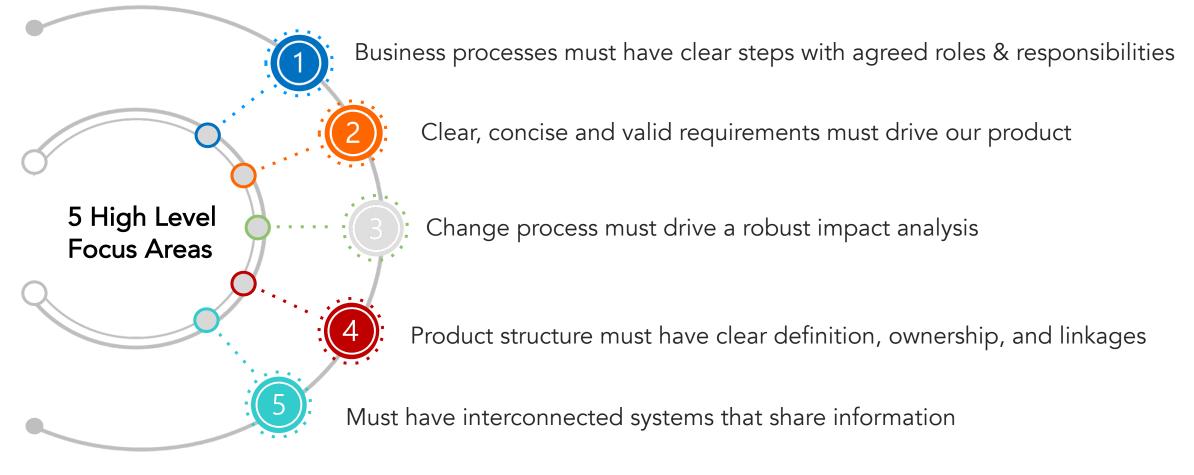
Ecosystem Assessment True North Ecosystem Identify the strengths and opportunities of your enterprise ecosystem. | People | Processes | Systems | Data | Excellence **Performance Monitoring Training & Certifications** Clear objectives, concise indicators, and Industry leading training and certifications. CM2 | RISE | MBSE | EIA-649 | Document valid transformation plans, allows the enterprise to measure, ensure success, Control | BIM | Software Lifecycle | The Industry Standard For Optimization and continually improve. ECOSYSTEM ASSESSMENT Most transformation programs fail to deliver to promise due to limited understanding of what ENTERPRISE ROADMAD really needs to change. **Digital Transformation Enterprise Roadmap** Maximize your ability to design and deliver Functional and phased approach to Without taking a holistic view, innovative products and services through achieving value and sustainable DIGITAL the application of modern enabling transformation. True North for Ecosystem Excellence true and sustainable INTEGRATED platforms. CPQ CAD QMS PLM ERP CRM CLM transformation is impossible. CESS EXCELLENCE ORGANIZATIONAL CHANGE **Integrated Process Excellence Business Engagement Strategy** A significant transformation towards process Global improvement strategy for the organization to excellence allows for an increase in employee prioritize the most important value improvement engagement resulting in greater collaboration, phases throughout the transformation journey. accountability and ownership.

Organizational Change Management

Using elements of the IpX RISE model we promote a culture of collaboration and deploy methods for managing the effect of new processes, organizational changes, and modern IT platforms within an enterprise.

Client Case Study - 01

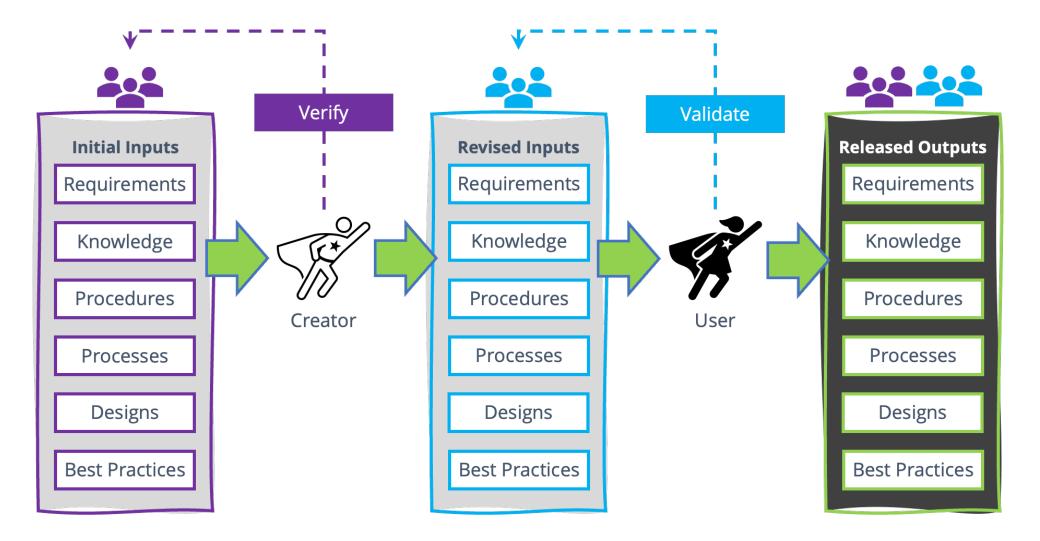
IpX Involvement from 30,000ft



Must drive for unified systems and processes to drive traceability

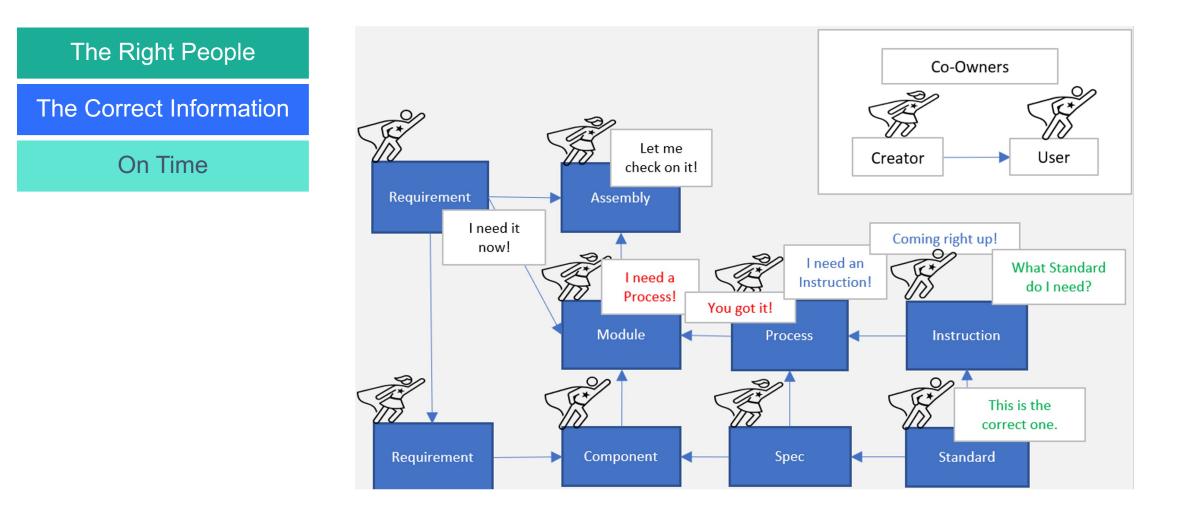
Efficient And Effective Usability

The Perfect Machine by Design from Factory to Customer - People, Processes, Data, and Tools



Requirements

Improve first pass yield of requirements and process documentation content quality and usability



Client Case Study - 02

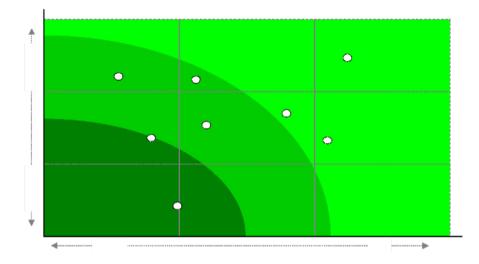
IpX Involvement from 30,000ft

Meeting Objectives:

• <u>Align scope and deliverables</u> of 2022 Initiatives in advance of preparing detailed Statements of Work

Guidance Requested:

- 1. Have we captured the objectives and deliverables correctly
- 2. Prioritization and overall scope (what's achievable)
- 3. Appropriately balance "discovery" vs. "small wins" (execution)





Client Case Study - 03

Product Structure: The Foundation for Client's Digital Twin

In order to robustly demonstrate compliance and traceability...

- Physical items must be stored and controlled electronically within the PLM tool. Datasets/documents must be linked to the appropriate physical item.
- Product baselines must be clearly defined for each function's use (As-Designed, As-Planned, As-Procured, As-Built, As-Maintained, etc.) for true traceability and quality record.
- A design's maturity must be defined and managed on the physical item for proper use of linked datasets/documents.
- Datasets/documents must have proper ownership (Creators and Users).
- Client must define a single source of truth for all data. Tools must have interconnectivity to preserve that source of truth and eliminate manual data copies and proliferation of error.
- Requirements must lead the design and must be traceable through the physical item linkage via validation and verification tasks.

Data must be: Standardized | Consistent | Repeatable | Traceable

Is this your

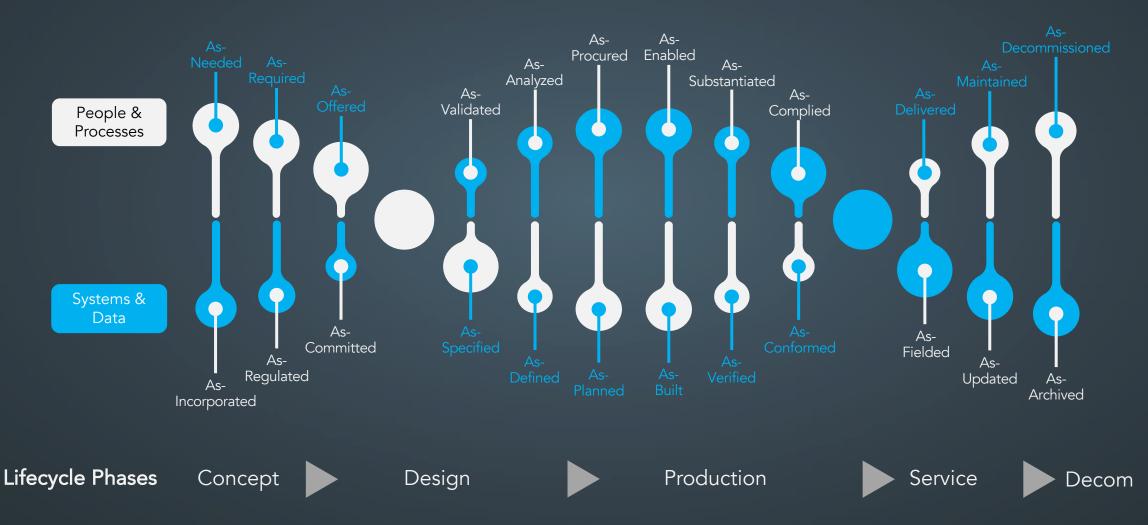
Twin?

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The CM2 DNA: End-to-End Ecosystem Traceability

Ensuring Enterprise Sustainability, Scalability and Quality with the Cross Industry CM2 Standard



Assessing Your Ecosystem DNA

Design into Production Phase Example

As-Planned Baseline:

Define the downstream components of the design basis that are utilized to convert design data into physical product.

As-Planned Datasets:

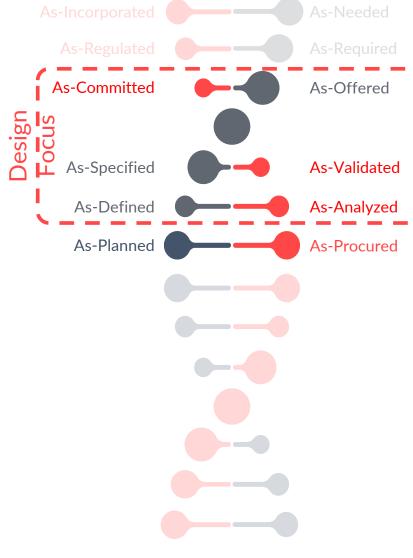
- Manufacturing Operations
- Process Items
- Item Master (Make/Buy)
- Inspection Procedures
- Test Procedures

People:

- Manufacturing
- Supply Chain/Purchasing

Systems:

- ERP
- Manufacturing Execution System (MES)



As-Procured Baseline:

Defines the components that are utilized by the procurement organization to facilitate the procurement of the parts and materials needed to build the product.

As-Procured Datasets:

- Requests for Quote (RFQ)
- Purchase Orders (PO)
- Advance Material Notices (AMN)
- Supplier Qualification Requirements
- Supplier Contracts

People:

Supply Chain/Purchasing

Systems:

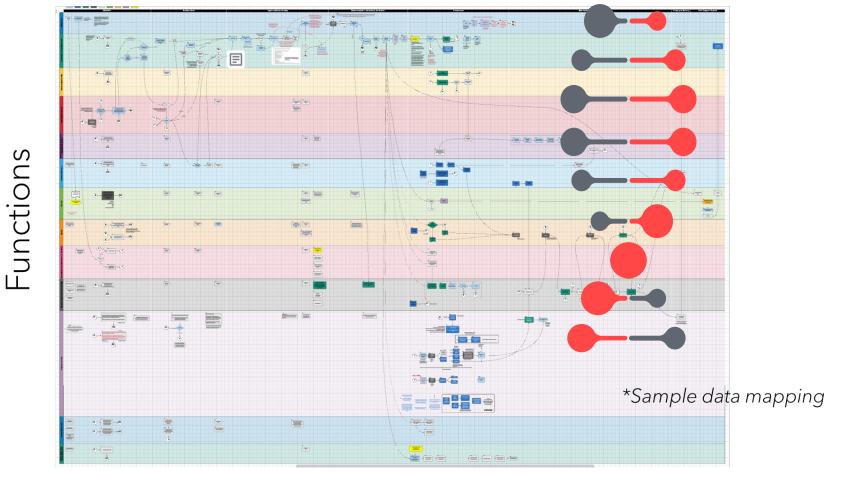
- ERP
- Supply Chain Management (SCM)

IpX Ecosystem DNA Mapping and ROI

Detailed Site and Stakeholder Assessments, AS-IS Analysis, and TO-BE Improvements

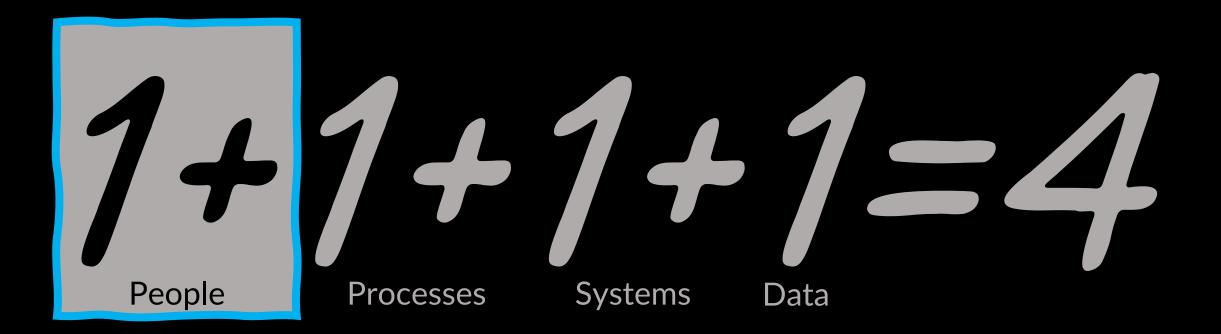
- o Process Steps
- o Inputs and Outputs
- o Decision Points
- o Artifacts
- o Source of Truth
- o Tool Interconnectivity
- Manual Manipulation
- o Linkages
- o Datasets Ownership
- Process Ownership
- o Standardization





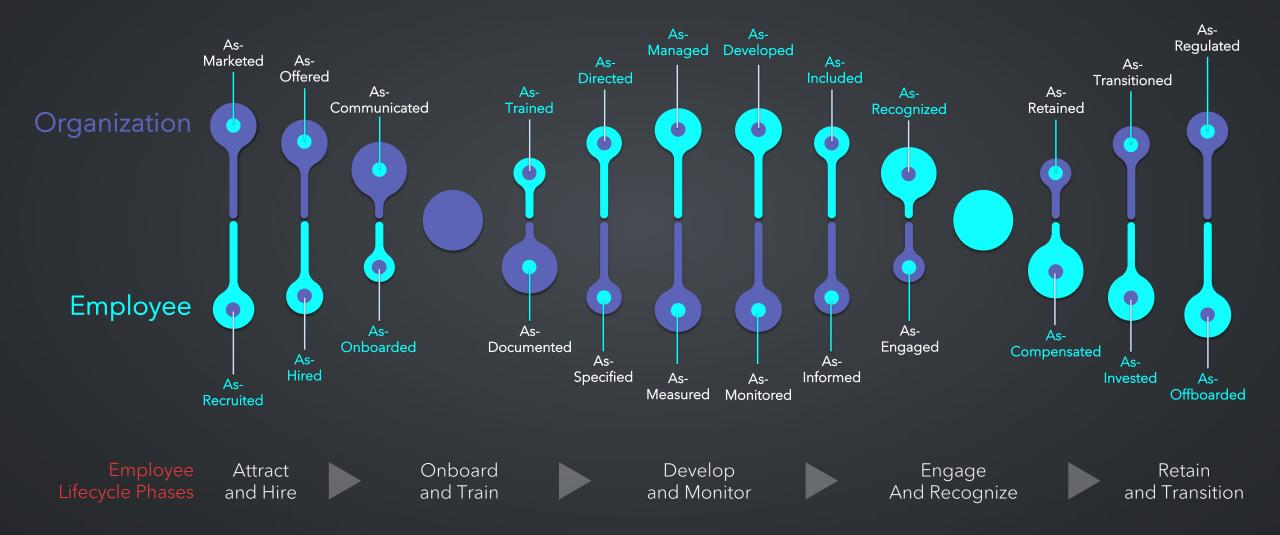
Equation for Success

Enriching Communication and Empowering Interoperability



Most organizations sacrifice tangible workforce development initiatives much like they do for usability of their processes, systems, and tools...

The RISE HRM DNA: End-to-End Ecosystem Framework Unbiased Communication, Collaboration, Compensation and Compliance





Honest Assessment and Baseline Establishment

- 1) Utilize the industry standard RISE Maturity Model to establish the current baseline to set the foundation to ensure effective implementation and achieve corporate equity and inclusion objectives.
- 2) Survey, assess and conclude how engaged and enabled employees and stakeholders feel at all levels within the organization

Pise	Organizational Cultural DNA Maturity Model Growing Adoption of the RISE Ecosystem Platform Legacy & Siloed Mindsets Mandating & Awakening Alignment of Corporate Values & Culture				
	Level 1 Status Quo	Level 2 Initiating	Level 3 Integrating	Level 4 Orchestrating	Level 5 Actualizing
Leadership Knowledge, Perspective and Role	Lack of diversity recognized as a threat	Actively increases self and organizational awareness	RISE elements linked with goals and objectives	Visibly demonstrates equity and inclusion	RISE becomes ingrained in the culture
Performance Monitoring and Merit Structure	Pay and advancement discrimination exists	Fair pay and opportunity monitoring is in place	Processes in place to eliminate pay and opportunity disparities	RISE Compensation and Career Advancement Plan	All discrepancies eliminated
Ecosystem Policies & Procedures	In place to ensure regulatory compliancy	Responsibility is solely a HR initiative	Operating standards are coordinated with the HR D&I procedure and mandates	Operating standards are integrated with the D&I procedure and mandates	Policies and legacy eliminated and replaced
Onboarding and Continual Development Platform	No formal platform in place, workforce development is lacking, onboarding program is stagnant	D&I message is surface level	Robust D&I awareness efforts underway and being led by cross internal functions	Value-chain involved with RISE training roll-out	Value-chain engaged with full RISE deployment and continual monitoring
Workforce Knowledge, Perspective and Role	Employees lack belief and enthusiasm in the employers D&I stance	Basic awareness exists	Cross-functional focus to nurture and promote diverse talent and dynamic mentee programs exist	Continually proven that diverse teams create work that better serves the business	Advocates for equity, inclusiveness is the norm, sense of belonging is high



Honest Assessment and Baseline Establishment

- Develop and align a comprehensive action plan to address improvement areas.
- 4) Provide independent and anonymous hotline and focus groups for employees.

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Success requires more than sustainment and static continuous improvement efforts.

It's about continually evolving as a business through transformation of its people, processes, systems, and data.

It's about driving innovation, guaranteeing quality, creating better experiences for customers, and enabling employees to make faster and smarter decisions.

It's about becoming an operation that is agile, resilient, and able to respond to change at speed.





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