

# 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](http://www.lpXhq.com)

*Got Digital Thread?* \$ *Is our business model sustainable?* \$

*Do we care about true quality?* \$ *Got Artificial Intelligence?*

*Got Blockchain?*

*Do we have interoperable processes and systems?*

*Is this approach scalable?*

*Got AGILE?* \$ **Got Milk?** \$

*Got 3D Printing?* *Buzzword?* *Got Machine Learning?*

*How can we ensure functional utilization of data?*

*Got Digital Transformation?* \$

\$ *What about Integrated Logistics Support?* *Got Digital Twin?* \$

# 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
<p>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.</p> <p>Our training is currently non-exclusively accredited by <b>Purdue University</b> and the <b>Project Management Institute</b>.</p>	<p>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.</p> <p>The model ensures the fundamentals of people, processes, enabling tools and the goal of data interoperability within the context of the problem statements</p>	<p>We provide the only tool agnostic and end-to-end PLM Requirement's Standard to assess a digital solutions capability.</p> <p>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.</p>	<p>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.</p> <p>We train and mentor clients on proven techniques and tools for institutionalizing change, elevating employee engagement, reducing turnover and increasing market share.</p>
<div><div>THE IDEA ACADEMY</div><div>Innovation Driven by Excellence and Accountability</div></div>			

# 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.

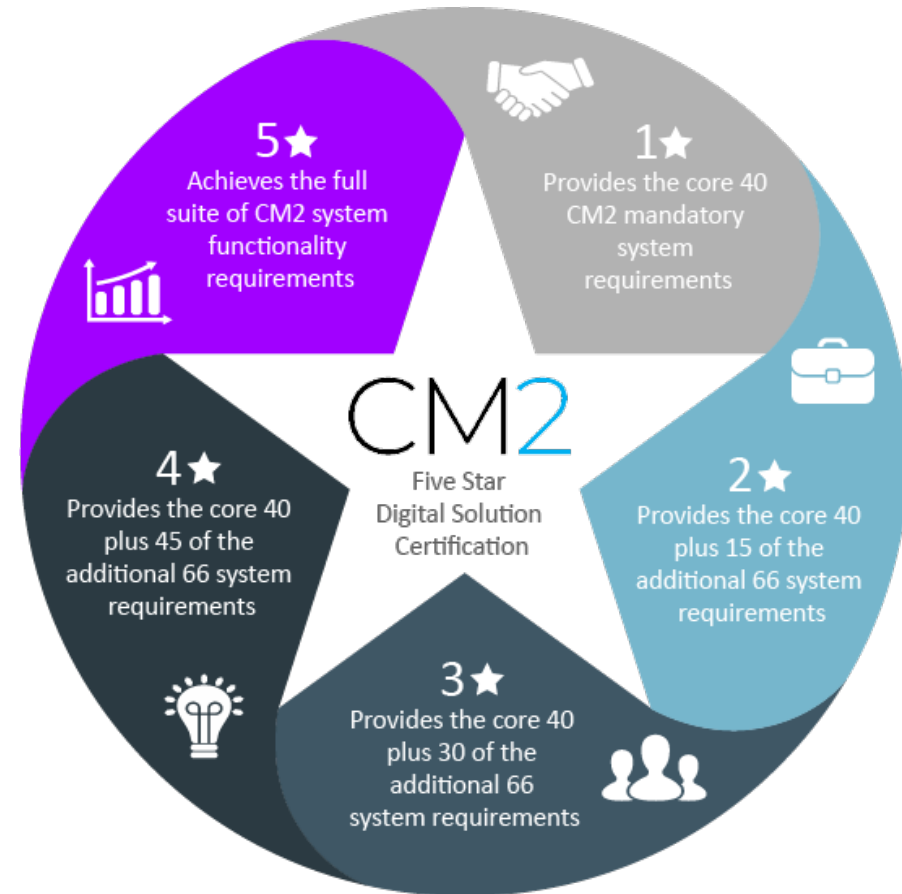




# Technological Evolution

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.

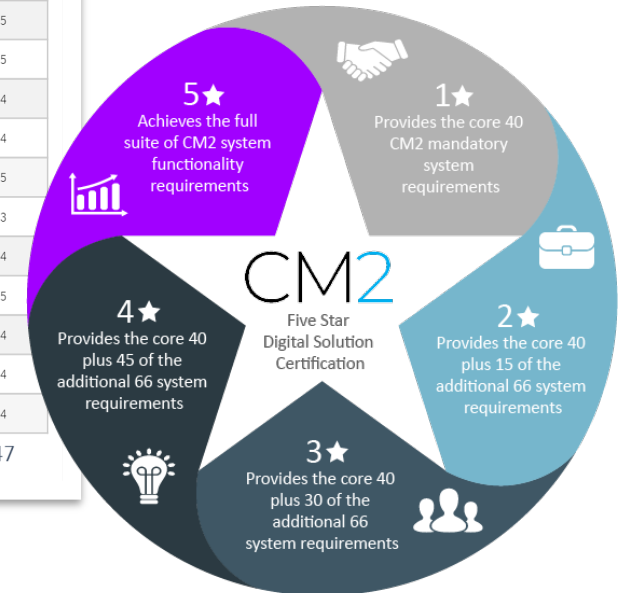
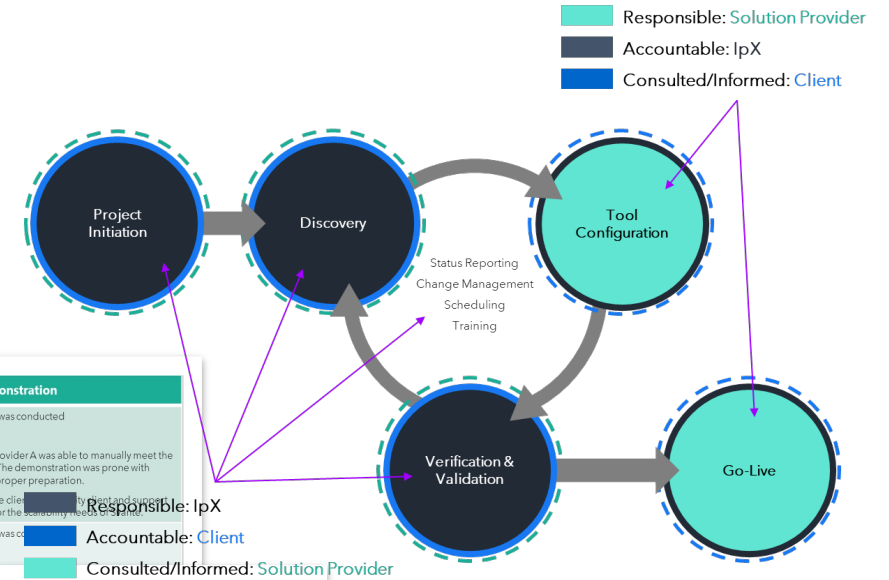
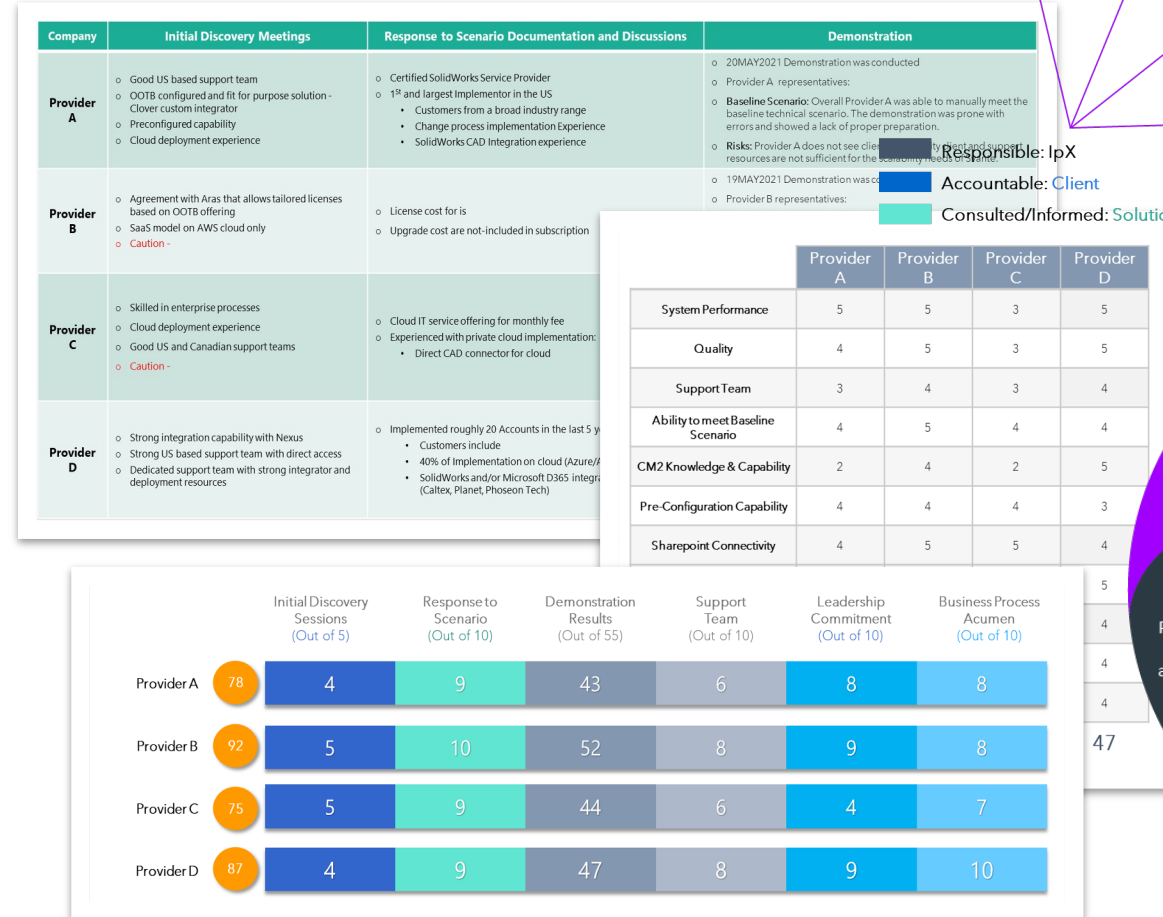
# Technological Evolution

Methodology and Institutionalized Change

## Software Solution Evaluation and Deployment Support Services

Working with our clients to evaluate and deploy the best fit-for-purpose 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

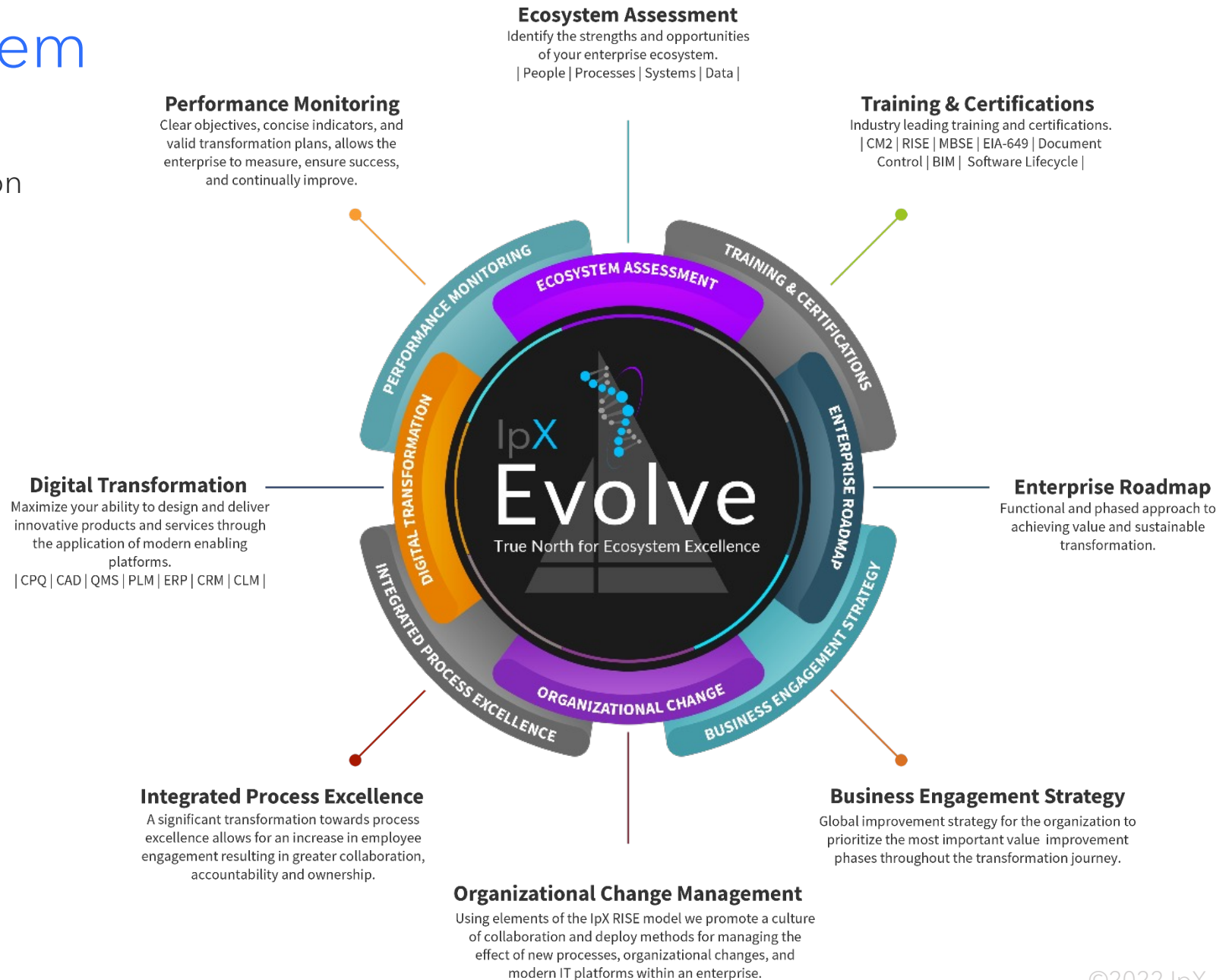


# True North Ecosystem Excellence

The Industry Standard For Optimization

Most transformation programs fail to deliver to promise due to limited understanding of what really needs to change.

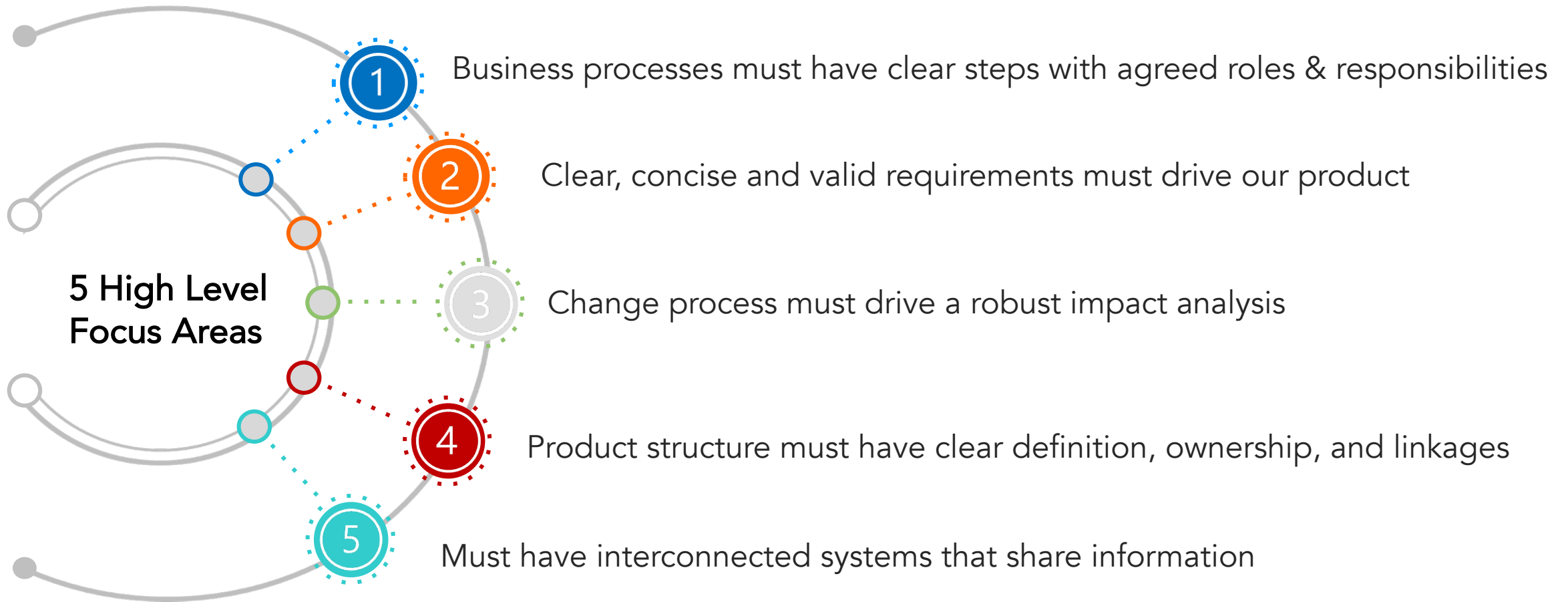
Without taking a holistic view, true and sustainable transformation is impossible.





# Client Case Study – 01

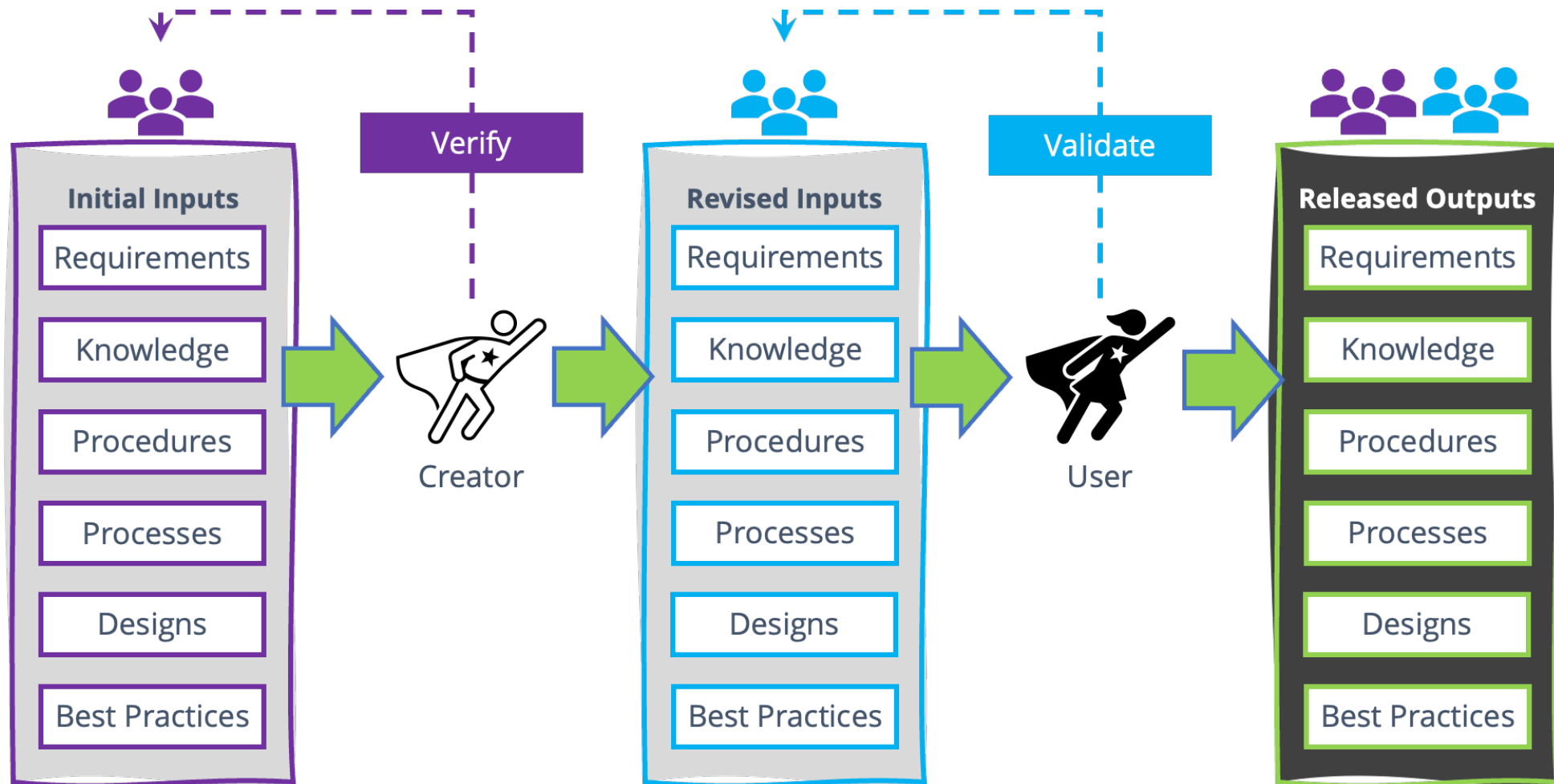
IpX Involvement from 30,000ft



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



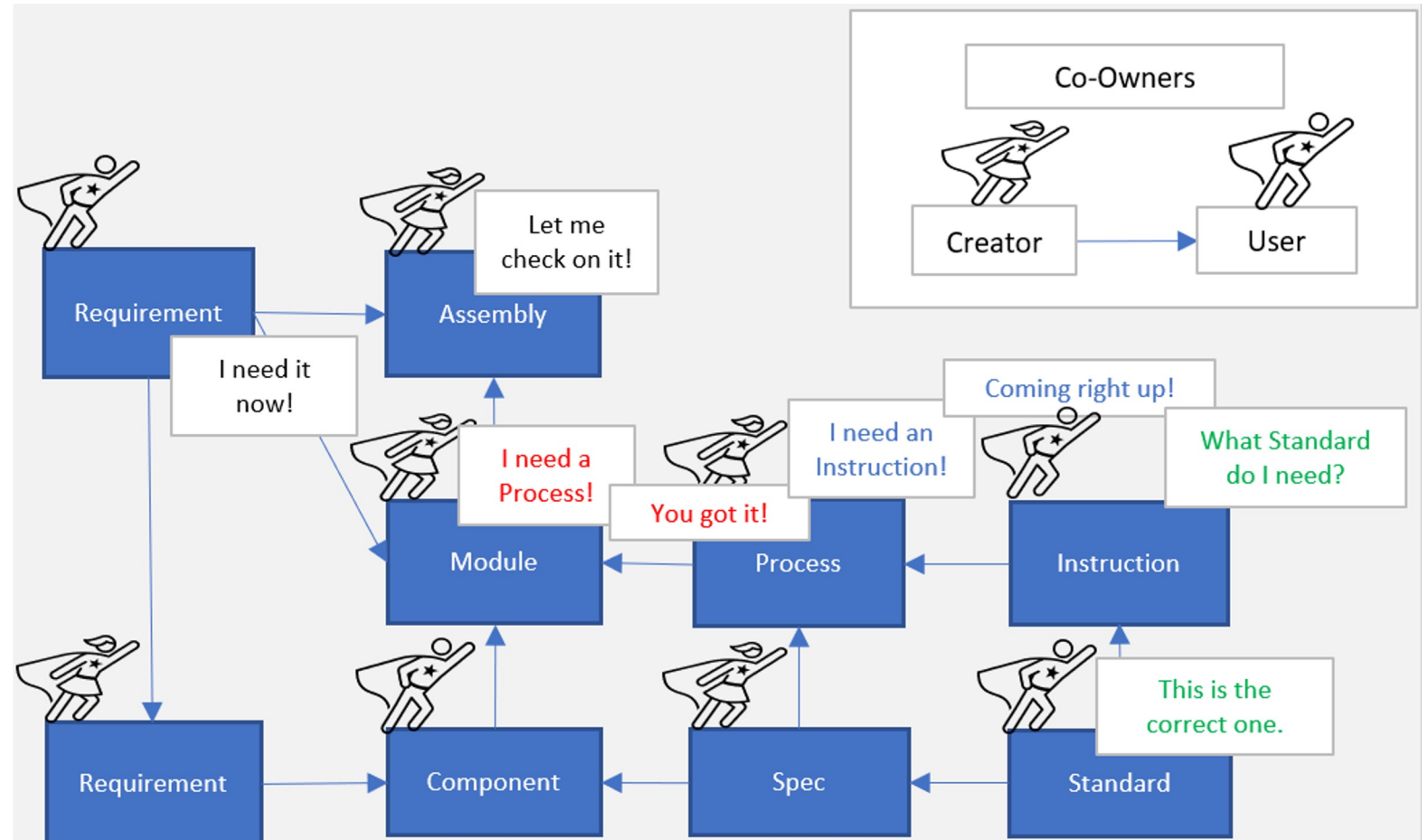
# Requirements

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

The Right People

The Correct Information

On Time



# Client Case Study – 02

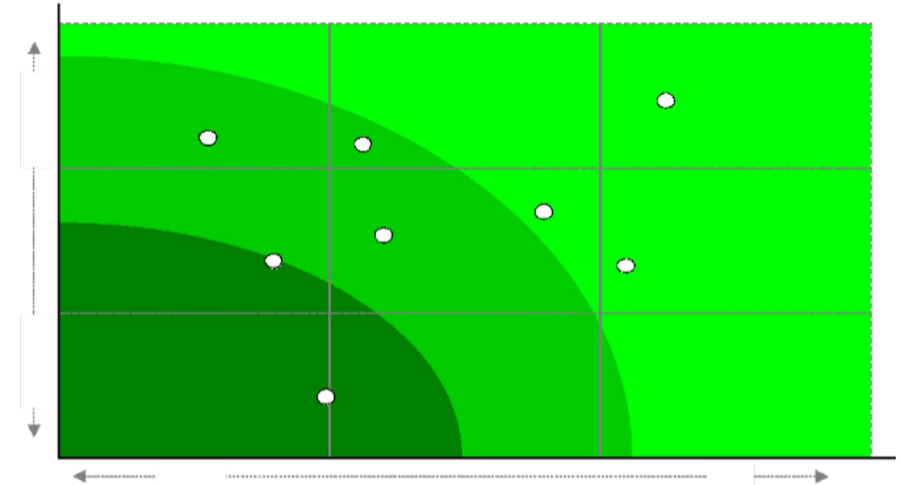
IpX Involvement from 30,000ft

## Meeting Objectives:

- Align scope and deliverables 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)



Discovery

Execution

Data  
Gathering

Map As-is Process  
Generate Metrics

Build  
Business  
Case

ID "Small Wins"  
Map "To-be"  
Process

Build Execution  
Road Map  
Build FRD

Align  
Stakeholders

Allocate  
Resources

Implement



# 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**

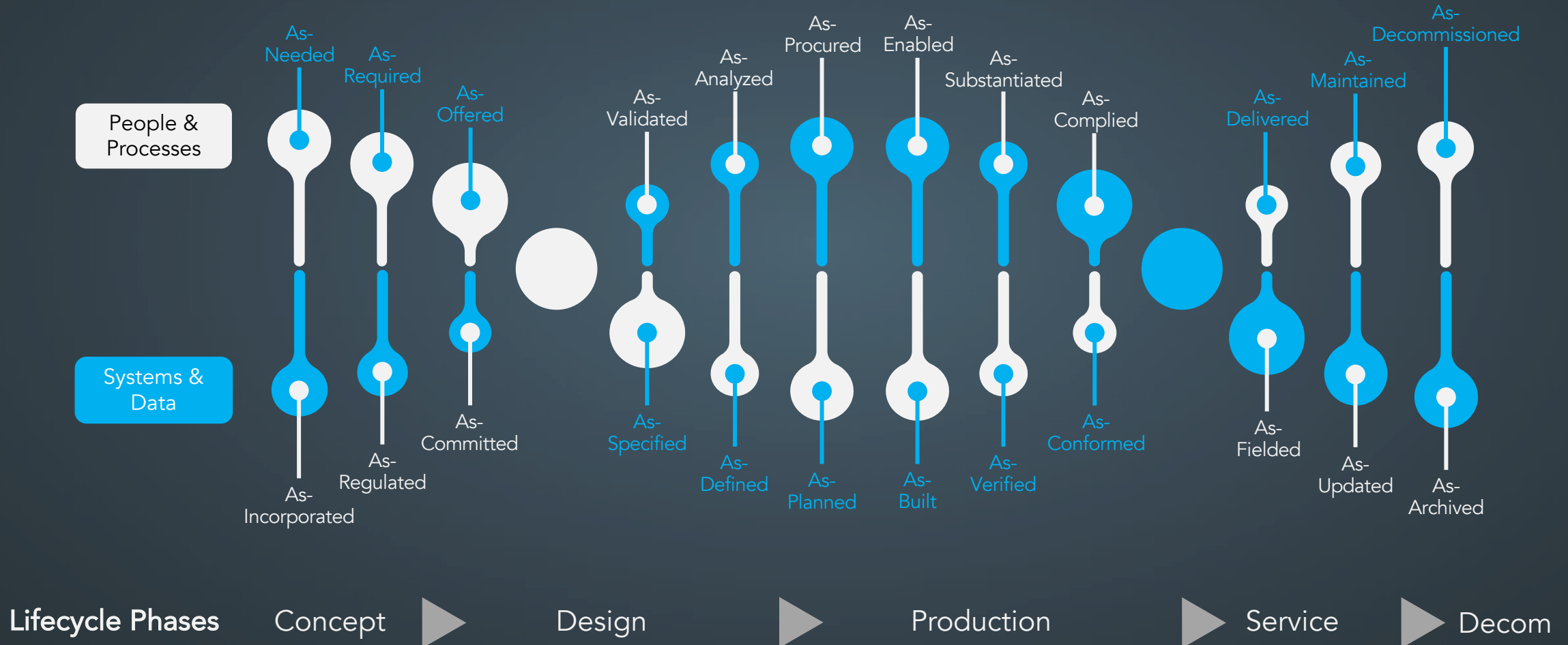


Is this your

*Digital Twin?*

# 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:

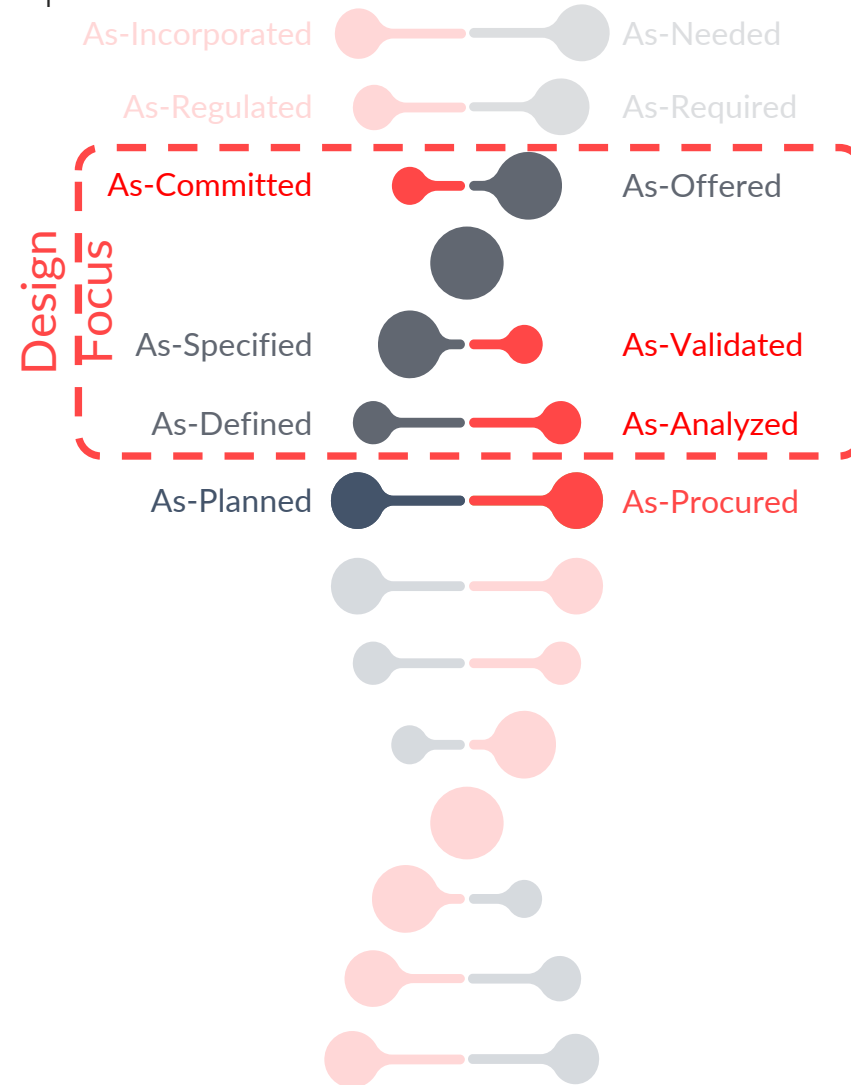
- Manufacturing Operations
- Process Items
- Item Master (Make/Buy)
- Inspection Procedures
- Test Procedures

### 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)



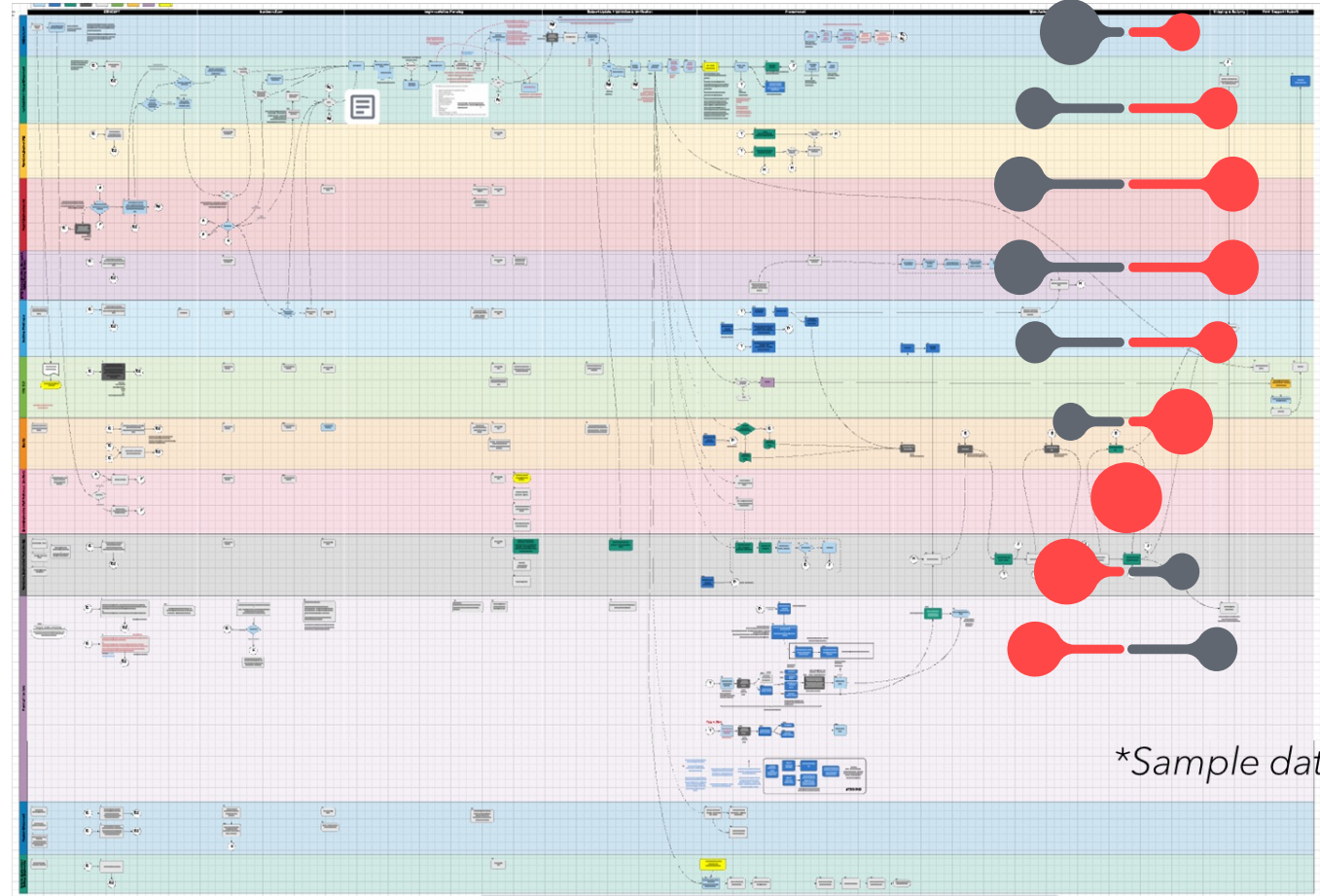
# IpX Ecosystem DNA Mapping and ROI

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

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

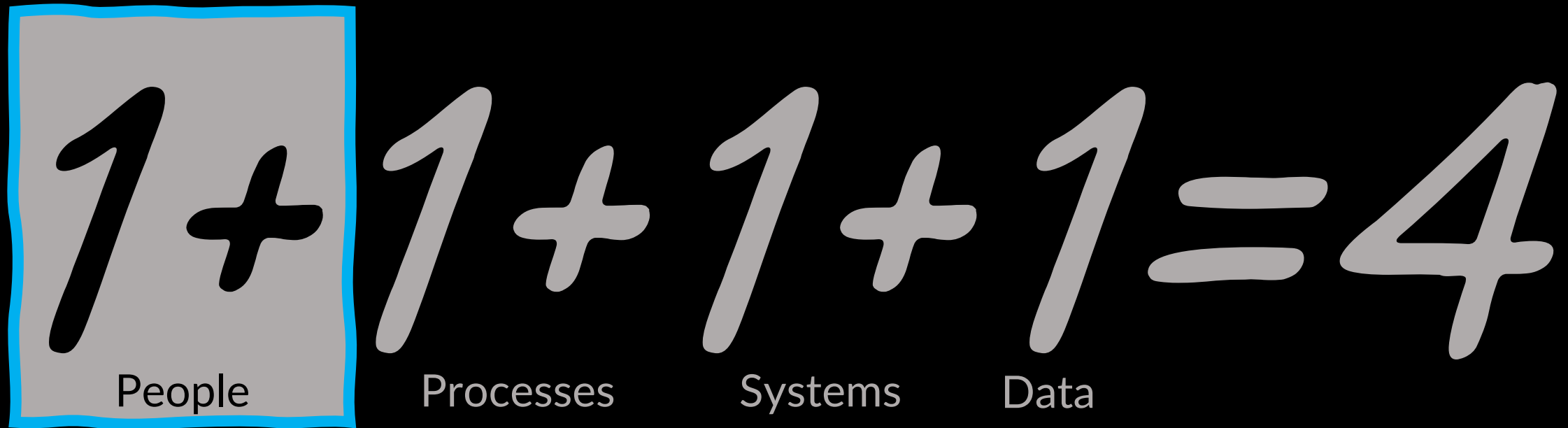
Functions

Lifecycle Phase



# Equation for Success

Enriching Communication and Empowering Interoperability



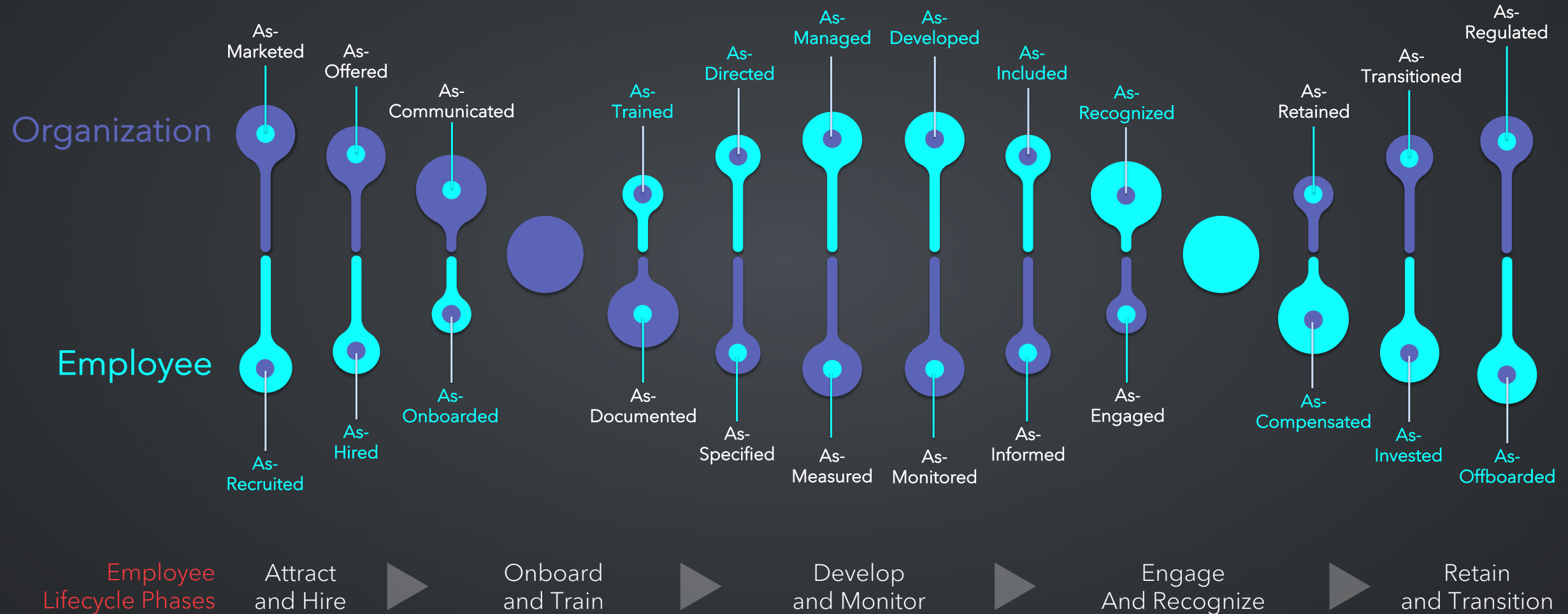
The diagram illustrates the 'Equation for Success' as 1 + 1 + 1 + 1 = 4. The first '1' is highlighted with a blue border and labeled 'People'. The second '1' is labeled 'Processes', the third '1' is labeled 'Systems', and the fourth '1' is labeled 'Data'. The equals sign and the final '4' are also present.

$$\begin{matrix} 1 & + & 1 & + & 1 & + & 1 & = & 4 \\ \text{People} & & \text{Processes} & & \text{Systems} & & \text{Data} & & \end{matrix}$$

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

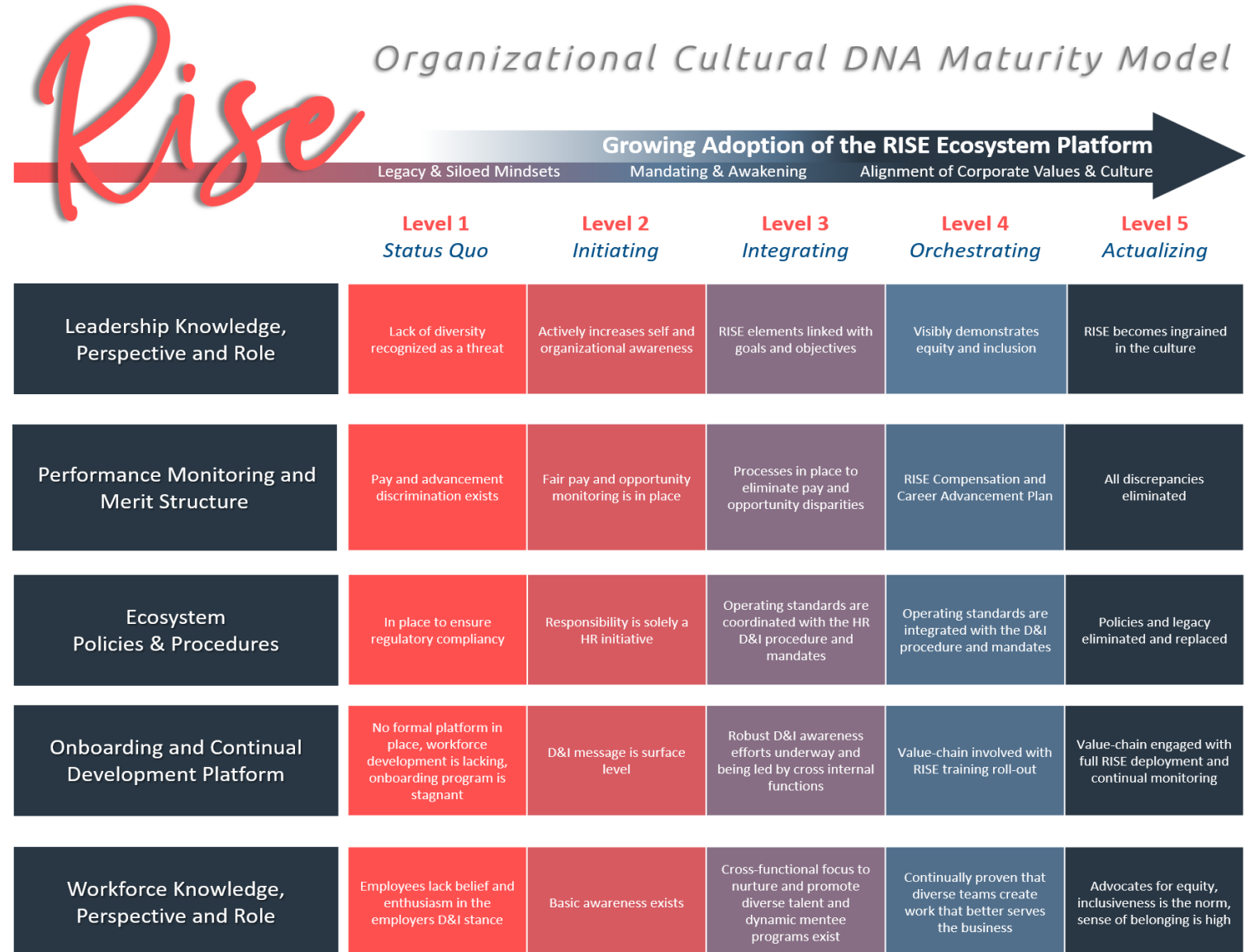
Unbiased Communication, Collaboration, Compensation and Compliance





## 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

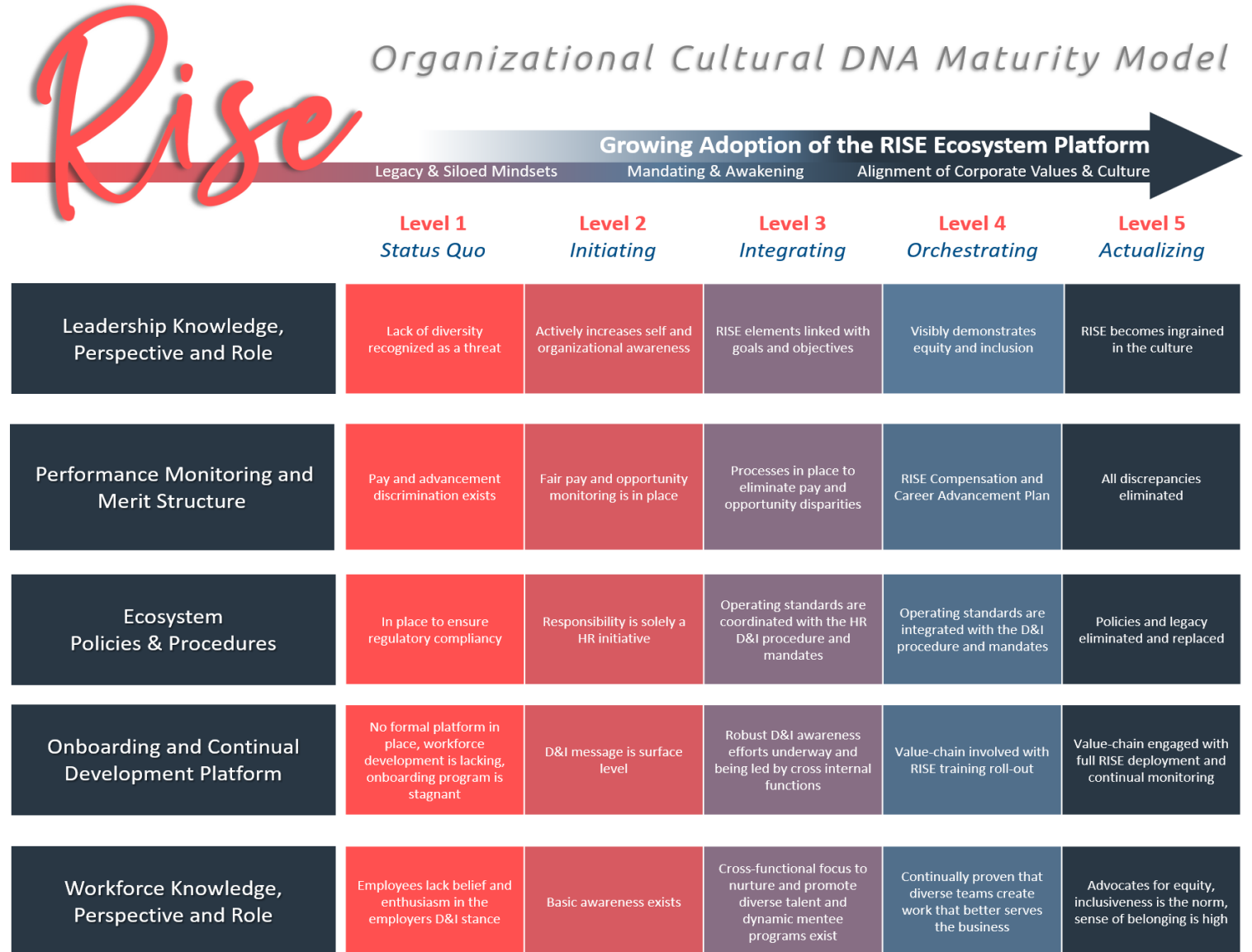






## Honest Assessment and Baseline Establishment

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



# Redefining the Ecosystem of Tomorrow

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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.



# Thank You

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