

Calibrating your Enterprise Compass

Addressing Siloed Organizations with New Incentives



IpX - Institute for Process Excellence
True North for Enterprise Excellence™

WHO WE ARE

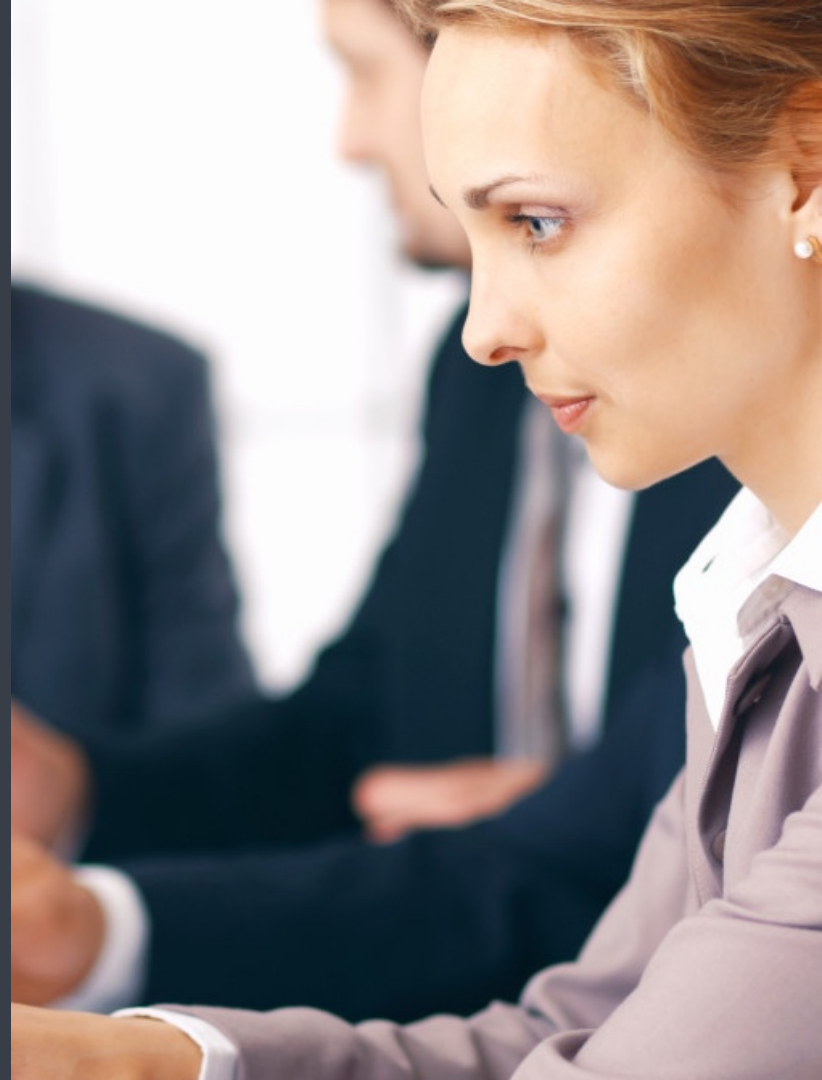
Institute for Process Excellence

Our *True North Service Enterprise Model™* provides an accurate transformation map for your journey toward enterprise excellence.

We are best known for our founding CMII & IPE model. We have adapted and grown as technology has advanced into the industry standard CM2 certification, industry leading workforce development, and digital transformation services.



Institute for Process Excellence



True North -

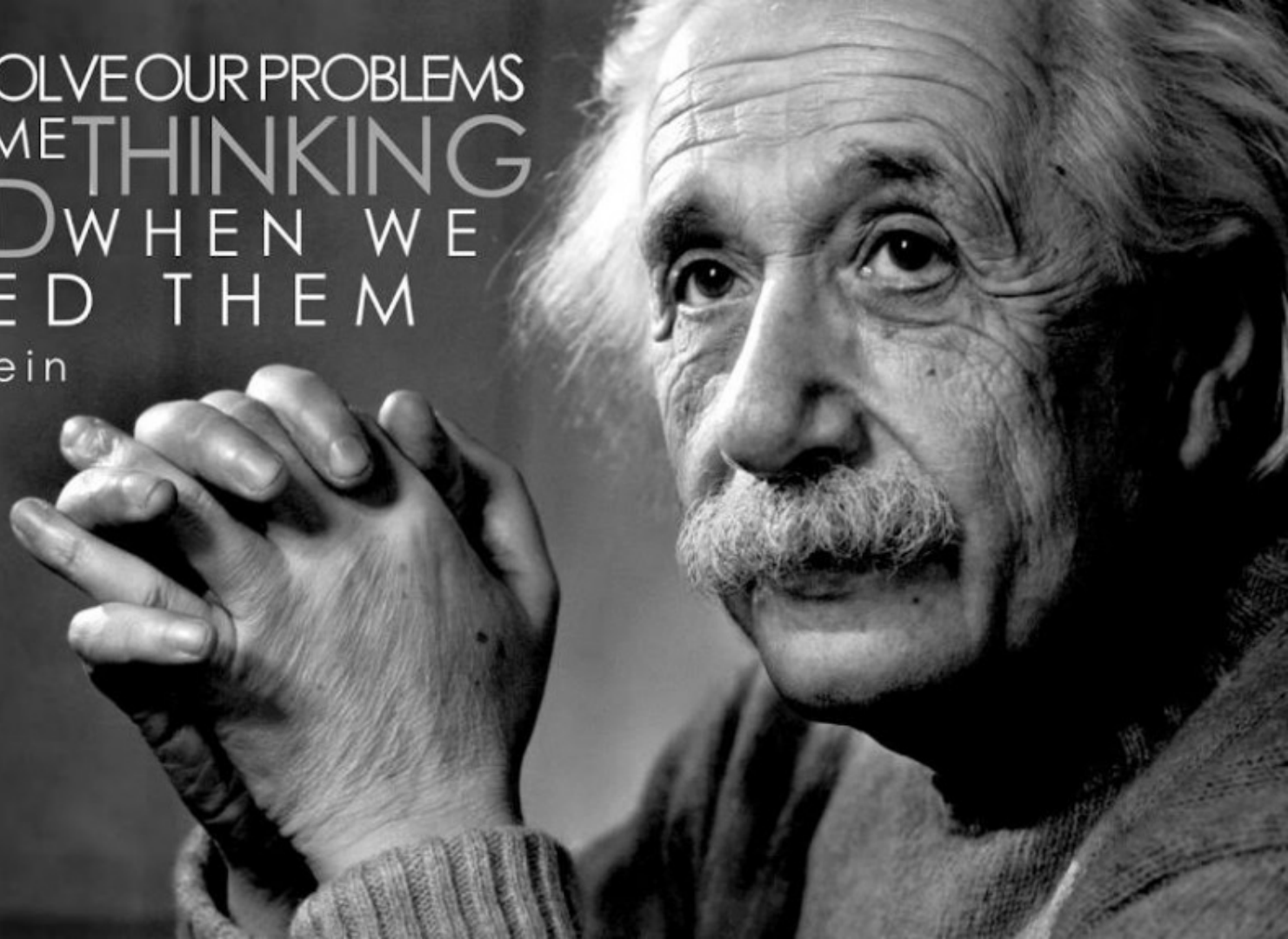
Empowering your Digital Transformation with integration and removal of legacy silo behaviors.



The foundational element is an autonomous and adaptive enterprise of people, processes, and systems that operate cohesively within an integrated business model.

WE CANNOT SOLVE OUR PROBLEMS
WITH THE SAME THINKING
WE USED WHEN WE
CREATED THEM

-Albert Einstein





Excellence

People.

Processes.

Tools.

Data.

True North Business Model

Robust Digital Platform

Rapidly evolving technology and digital trends are transforming the industrial ecosystem of tomorrow.

The key deliverables for successful and sustainable digital transformation are empowered by acceptance of the need for organizational change management.

- **Shift behavior to shape organizational culture**
- **Executives need to be champions for change**
- **Define and implement tangible transformation**
- **Maximize organizational health**

“... A leader sees so much more to be done than has been done, that they are always pressing forward...”

“Thinking always ahead, thinking always of trying to do more, brings a state of mind in which nothing is impossible. The moment one gets into the 'expert' state of mind a great number of things become impossible.”



True North

Empowering your People

There's growing significance placed on creating enterprise ecosystems where a variety of different voices are encouraged and heard.

These voices come from people who may or may not be of the same gender, race, or ethnicity.

True North - Empowering your People



Creating and sustaining a diverse, inclusive, and productive workforce rests with all employees at all levels within the organization.

The enterprise of tomorrow must introduce methods for:

- globalization of diversity and inclusion initiatives
- employee resource networks
- community outreach strategies

The inclusive culture must be embedded throughout the enterprise ecosystem.



True North - Empowering your People



Modern tools, approaches, and a phased roadmap are required for measuring employee engagement, satisfaction, and program success.

We must realize the importance of a workforce powered with the voices of people from different backgrounds, personalities and thinking styles across the enterprise.

We must create an environment where all people are encouraged to draw upon their unique experiences, perspectives and backgrounds to ensure sustainable long-term success of the organization.

Effective Training and Development Platforms

Recognition and Rewards Systems

Work-life Harmonization Techniques

Onboarding and Retention Processes

Value Added Mentorship Programs

Fair and Equal Compensation Structures

Communication and Feedback Analytics

Multicultural Talent Management



RISE

Retention through Inclusion, Service and Equality®

True North - Empowering your Processes

Core business processes and their enabling systems represent the major organizational activities and functions used to perform work and conduct business.

These instances of conflict or redundancy will have a negative impact on the operational efficiency of an enterprise.



True North - Empowering your Processes

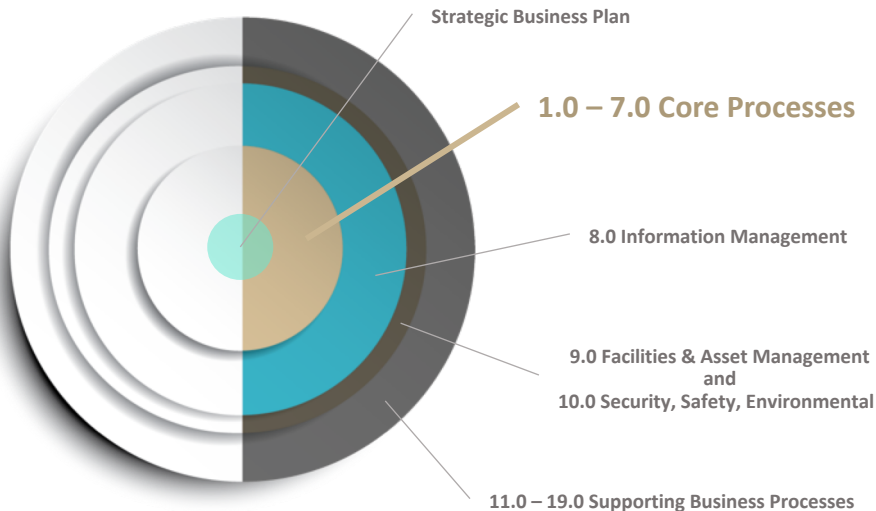


Enterprise Infrastructure

When companies realize the value of elevating configuration management out from the shadow of engineering, they begin to see the real benefit of connected systems that are promised by technology but never achieved by technology alone.

Scott Wertel, CM2-P

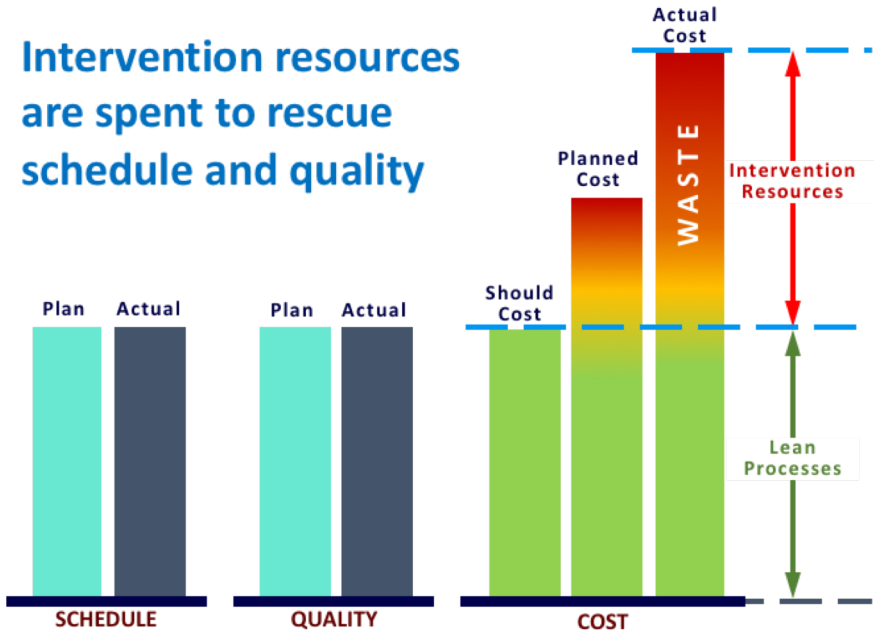
Configuration Manager for Nammo Talley



True North - Empowering your Processes



- Students attending the CM2/IPE courses estimate that they spend 40 to 60% of their resources on intervention.
- There is a huge difference in intervention resource costs of 40 to 60% versus cost of quality at 15 to 25%.
- Factors involving intervention are much broader than those involving only product quality and product defects.



True North - Empowering your Processes



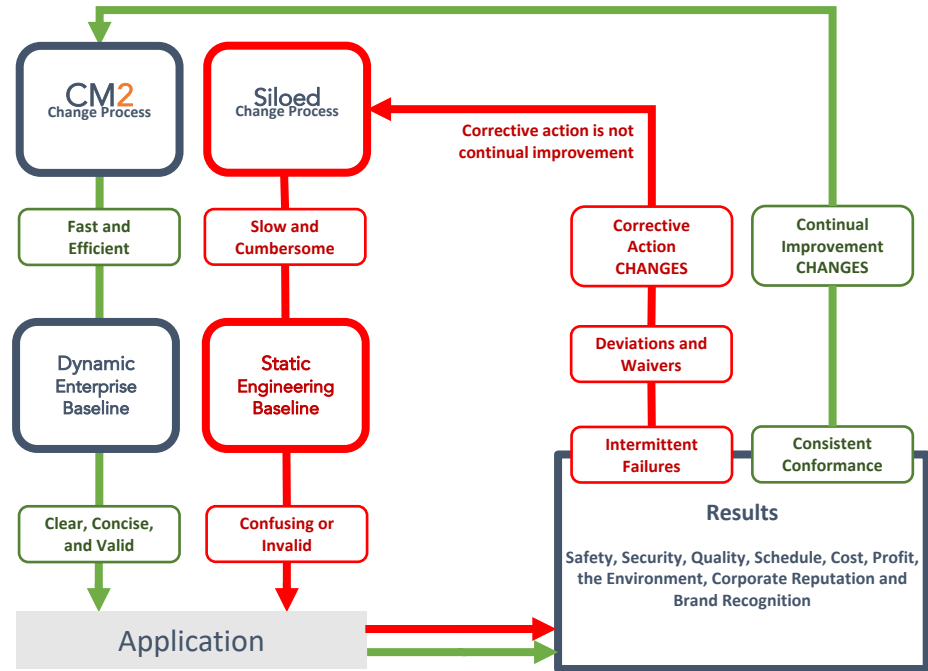
With CM2, intervention costs include the resources spent to rescue not only quality but also schedule and other requirements shown below.

Rescuing schedule involves expensive expediting and overtime costs.

To draw a parallel between CM2 and the Cost of Quality model, the cost of good quality is represented by the green path.

The cost of poor quality is represented by the red path.

The CM2 Model is the enabler for escaping the corrective action mode.



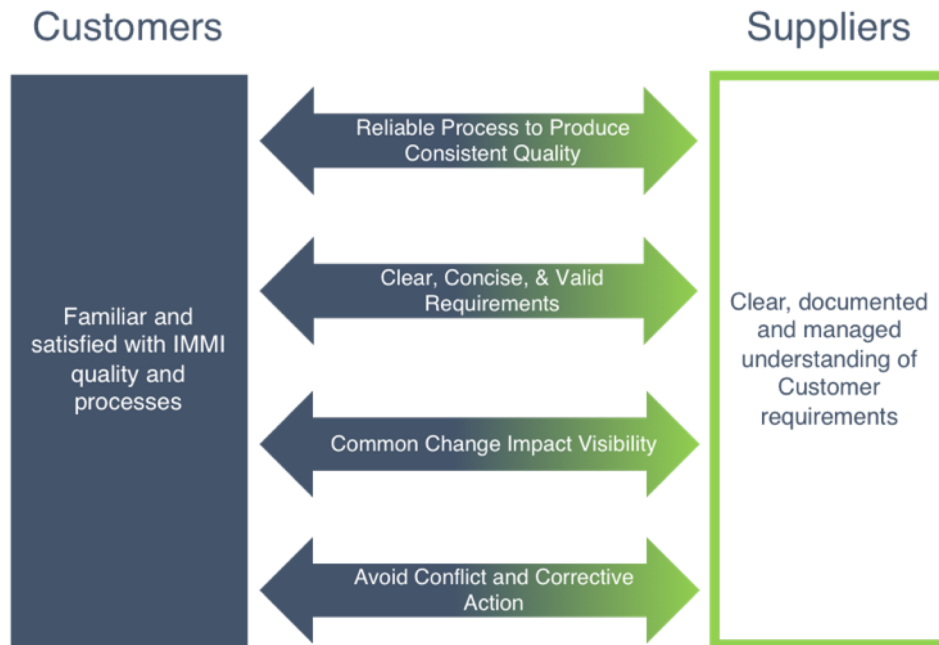
True North - Empowering your Processes



There are four critical elements required to achieve **consistent conformance** and continual improvement.

- 1) Ability to accommodate change
- 2) Keeping requirements clear, concise and valid
- 3) Communicating requirements to users promptly and precisely
- 4) Ability to measure conformance to requirements

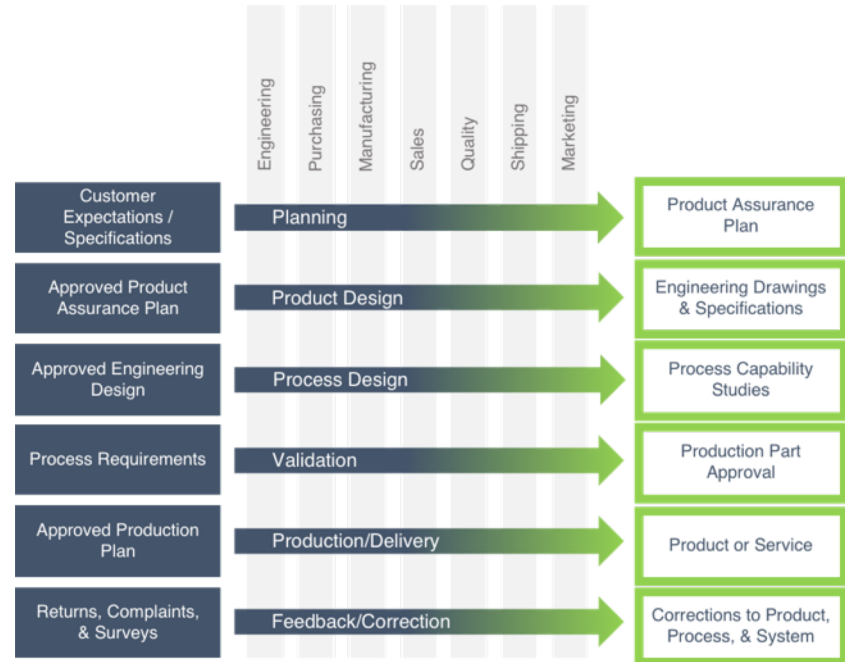
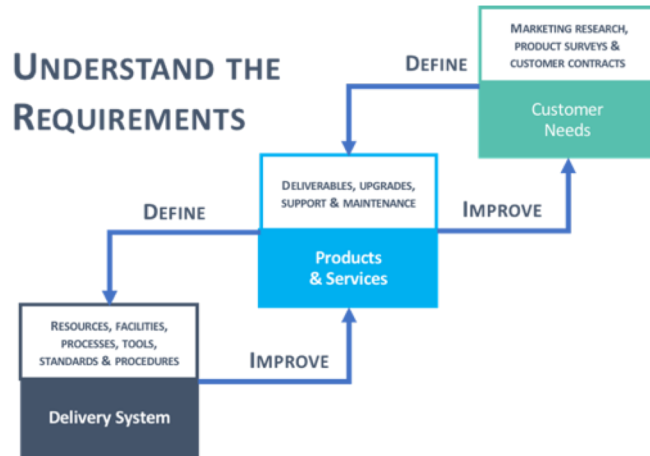
These elements are imperative for maintaining the validity of the digital thread and digital twin.



True North - Empowering your Processes



Everything an enterprise does originates from a customer demand or a market driven need.





CM2 *Clear. Concise. Valid.*®

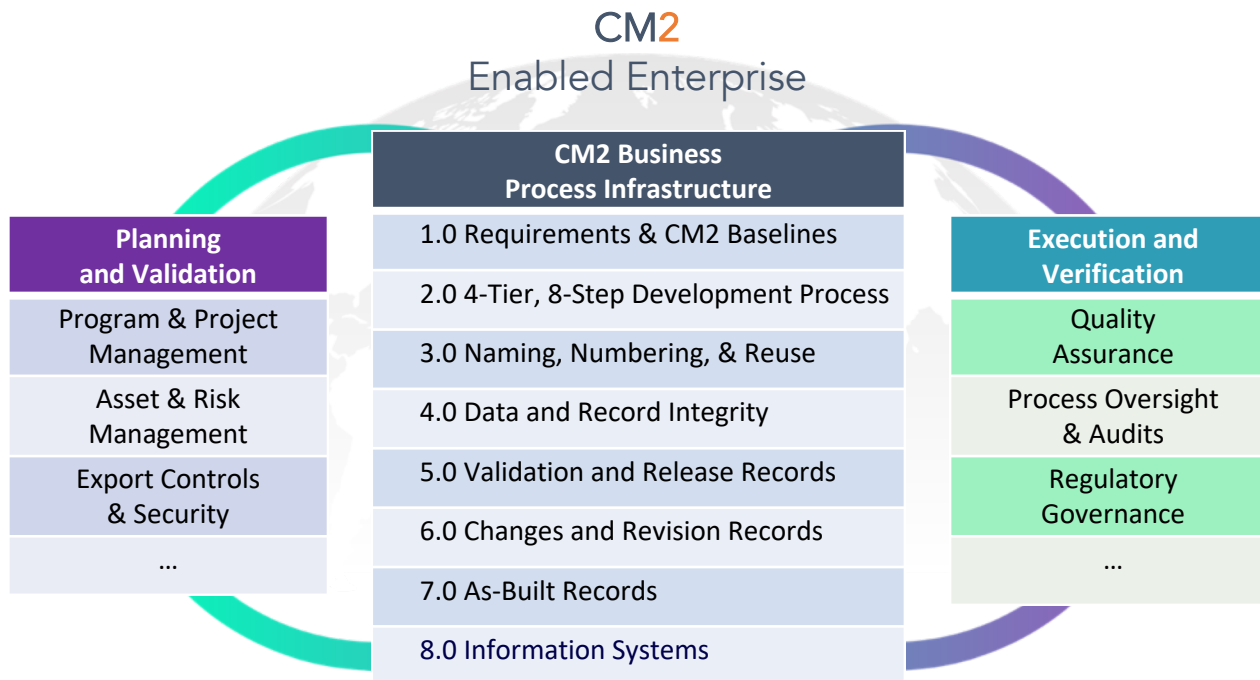
Your enterprise will have the ability to reach a nearly limitless customer base, produce amazing levels of service, and benefit from integrated supply lines.

A future where your organization offers the largest portfolio, fastest delivery time, and greatest customer experience.

True North - Empowering your Digital Platform



The key to a CM2 enabled enterprise is the IpX True North CM2 business process infrastructure empowered by robust digital platforms.



True North - Empowering your Digital Platform

Efficient and effective business processes supported by modern digital platforms that allow organizations to move across industry will eliminate the legacy silo centric business models.

Process and device will be inseparable; physical things become part of the enterprise process.



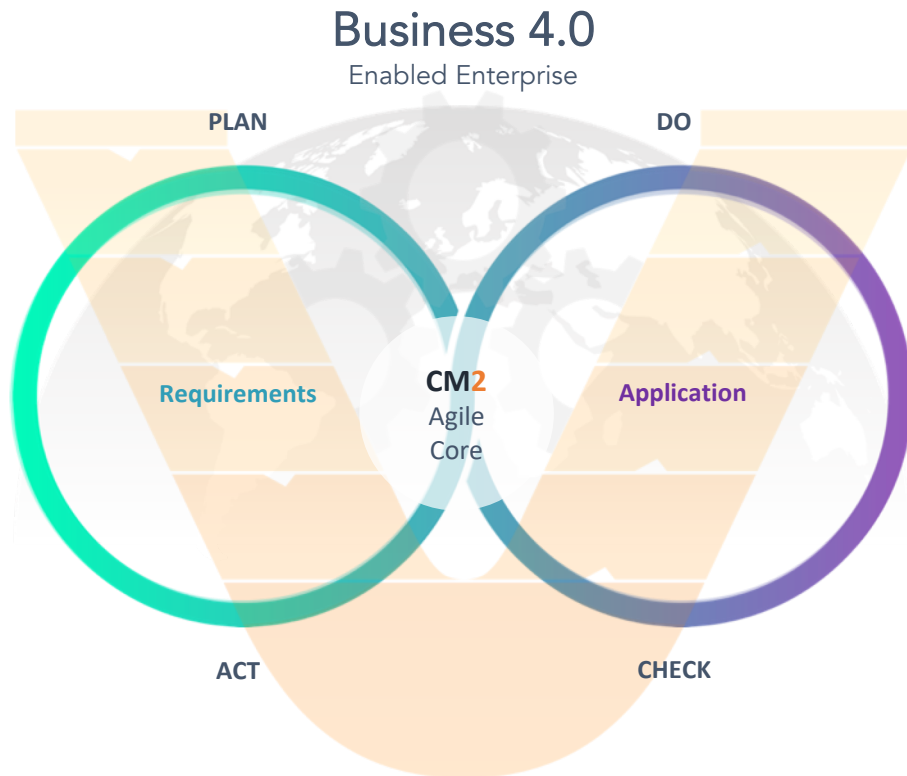
True North - Empowering your Digital Platform



Based on the CM2 enterprise operating model and modern digital platforms, there will no longer be a difference between information and material because products will be dynamically linked to their application and supporting information.

“Implementation of the CM2 Baseline and Closed-Loop process is the foundation for the control and delivery of product information in a consistent manner that will allow for the incorporation of Industry 4.0 principles across all business groups.”

– Greg Russ, Executive Director for Cummins



True North - Empowering your Digital Platform

Functional competencies must come together in order to recognize the full potential and opportunity of Business 4.0.



- ✓ **Big Data** – Rise in data volumes, computational power, and connectivity.
- ✓ **Tangible Analytics** – Integrated and functional analytics, knowledge management, and business-intelligence capabilities.
- ✓ **AI & AR** – Rapid advancement in human to machine connectivity such as augmented-reality systems.
- ✓ **Digital Capability** – Integration of digital thread and twin and the influence on advanced robotics.

NETWORK WITH THE GLOBAL IPE/CM2 CONGRESS

INSPIRE. CONNECT. MENTOR. SUPPORT.



MARTIN DULLAART
ASML (Chair)



EDDIE KOLESAR
Esterline (Co-Chair)



MIKE MCKINNEY
Sub-Zero/Wolf (Secretary)



CRYSTAL REED
Navy



PAUL NELSON
Orbital ATK



SCOTT WILKS
Delphi



DUKE JOY
Boeing



KATIE JELINSKI
Molnlycke Health Care



MAX GRAVEL
Gulfstream



GARY D'SOUZA
AGCO



RACHEL HOLYOAK
Orbital ATK



CHRISTINA SIGRIST
BOSE



STEVE WATTS
Airbus



SCOTT WERTEL
Nammo Talley



WOUTER MOLLERS
ASML



ROBERT LAFOND
TE SubCom



CHRIS SALDANHA
GoGo



ANDREW JOHANSEN
Duke Energy



JANE CAVICCHI
BOSE



MICHAEL BOROWSKI
Cummins



AMY MUELLER
Purdue University



CHRISTIE SPAULDING
GE Aviation



BILL WOODAMAN
Albany Composites



TODD EGAN
IpX



IPE/CM2 Global Congress

INSPIRE. CONNECT. MENTOR. SUPPORT.

At the 2015 IpX annual symposium, leaders from Aviation, Automotive, Healthcare, Energy, Consumer Products and Technology came together to create a cross functional industry forum to benchmark industry best practices and provide a resource to the community.

“Successful implementation of the IpX CM2 Baseline and Closed-Loop change process is prerequisite to achieve the end-to-end configuration traceability driven by the needs of the model based design and the digitalization of the enterprise”

– Max Gravel, CM2-P

Transformation – It Starts with You

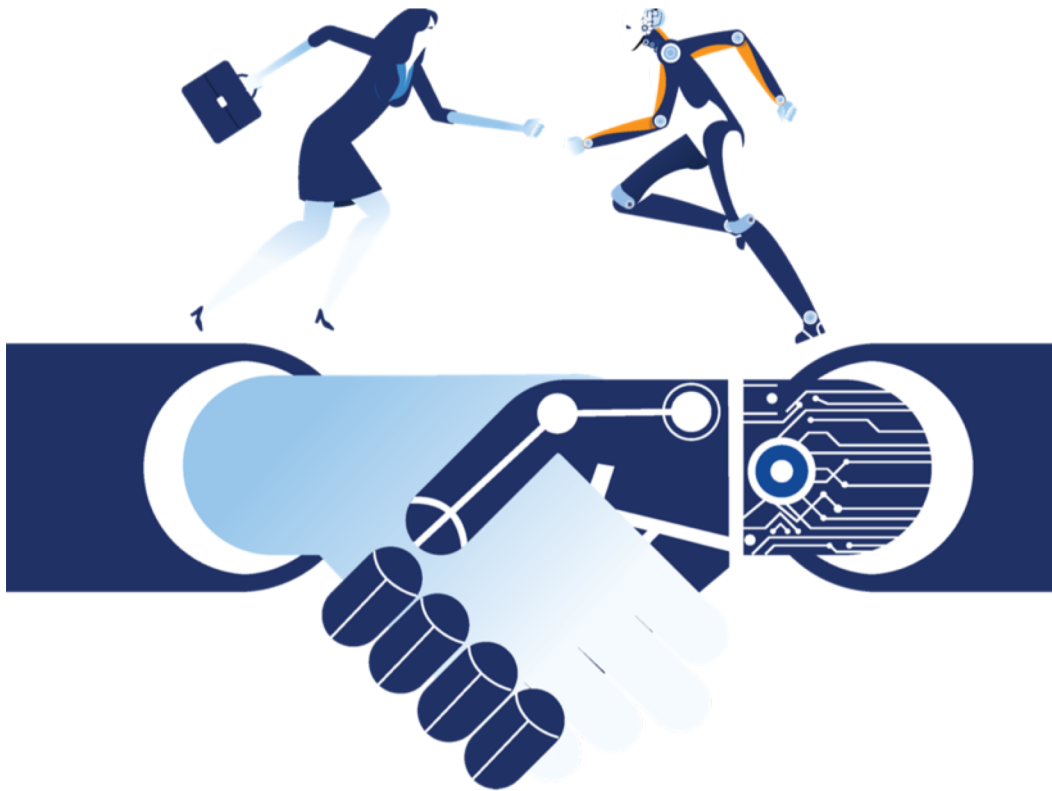


A significant transformation towards enterprise excellence allows for an increase in employee engagement resulting in greater collaboration, accountability and ownership.

An appropriate realignment of organizational systems, structures, processes and technology to support the transforming culture philosophy is paramount.

Increasing workforce capability and opportunities will allow the organization to attract and retain top talent.





Success

Depends on You

Your enterprise will have the ability to reach a nearly limitless customer base, produce amazing levels of service, and benefit from integrated supply lines.

A future where your organization offers the largest portfolio, fastest delivery time, and greatest customer experience.

AGCO | Airbus | Amazon | Apple | Aptiv | ASML | Baxter
Boeing | Bombardier | Bose | Boston Scientific
Caterpillar | Cummins | Delphi | Delta Faucet | Embraer
Over 1800 companies have already chosen
FNSS | Freightliner | General Electric | General Motors
Go-Go | Gulfstream | IBM | Lear | Lockheed Martin | Motorola
Now the choice is yours | NASA
NATO | Navy | Nike | Nokia | Northrop Grumman | Oracle
Pratt & Whitney | Purdue | Raytheon
Rolls-Royce | SpaceX | St. Jude Medical | Sub-Zero/Wolf
Zimmer | www.ipxhq.com

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