

Lunch and Learn: Empowering Businesses through People, Process, and Technology

January 15, 2025 @ 12:00 – 13:00 pm MST

Presented by:

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KZenEdge Adaptive Methodology



Adapting for Optimal Business Outcomes

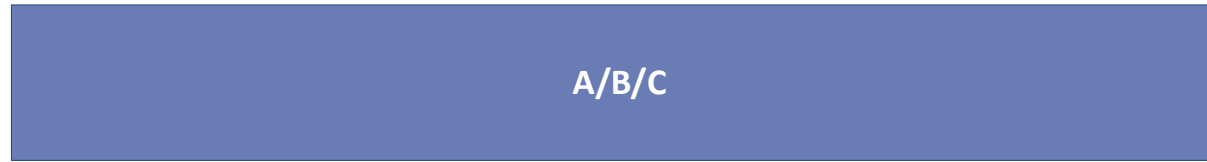
KZE Adaptive Methodology
Spanning All Approaches

Methodology

Project Lifecycle

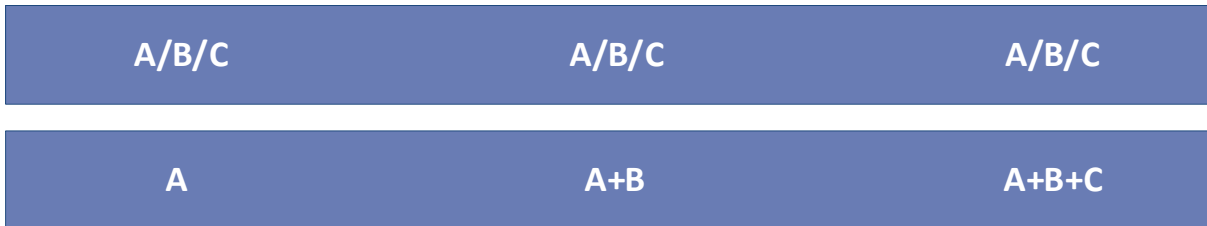
Application

Waterfall



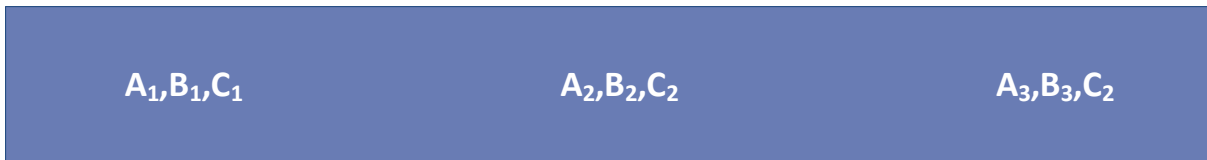
Known requirements/Predictable templated/consistent projects
Cannot accommodate change easily

Iterative/Phased
Hybrid
Incremental

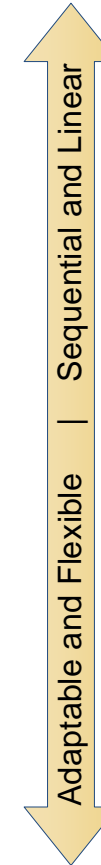


Adapted to business requirements and project risk – integrated to portfolio and program structures

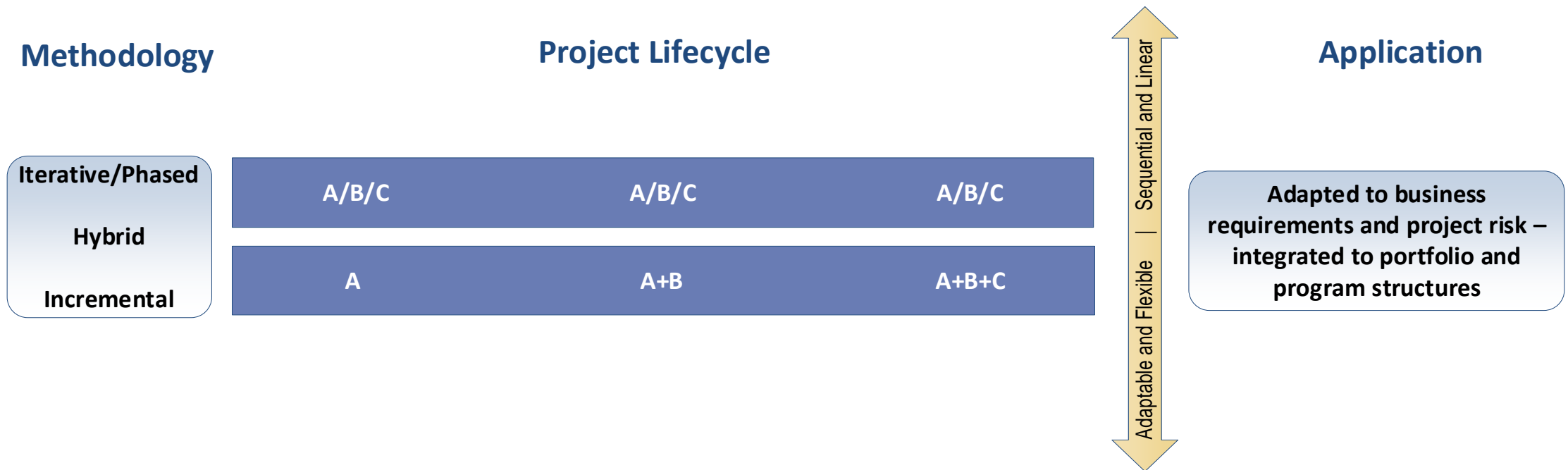
Agile

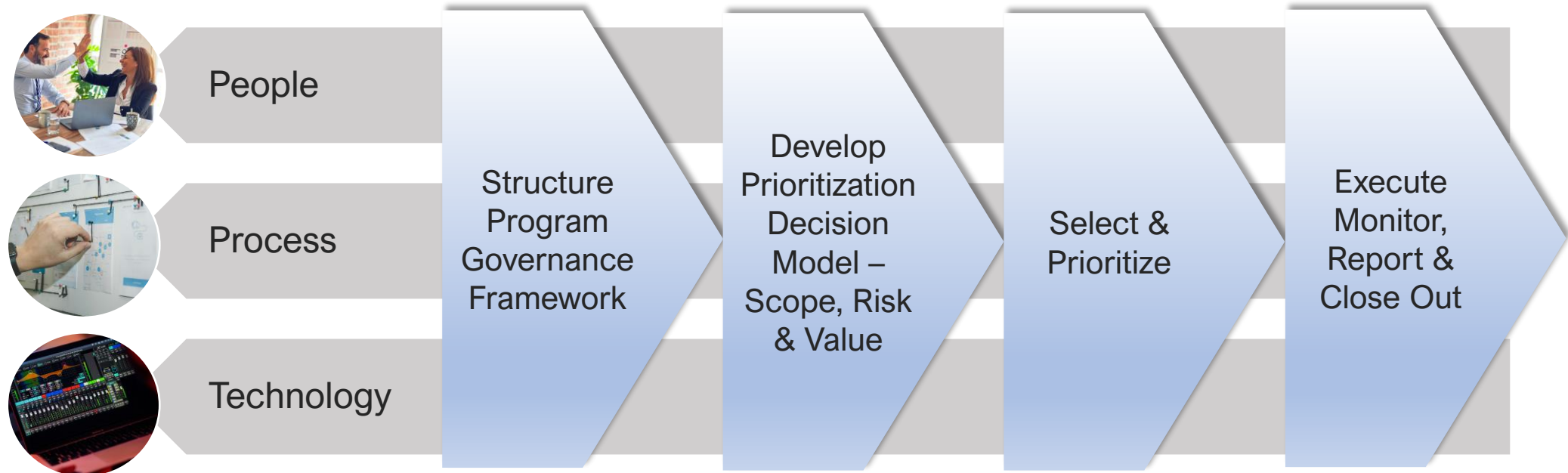


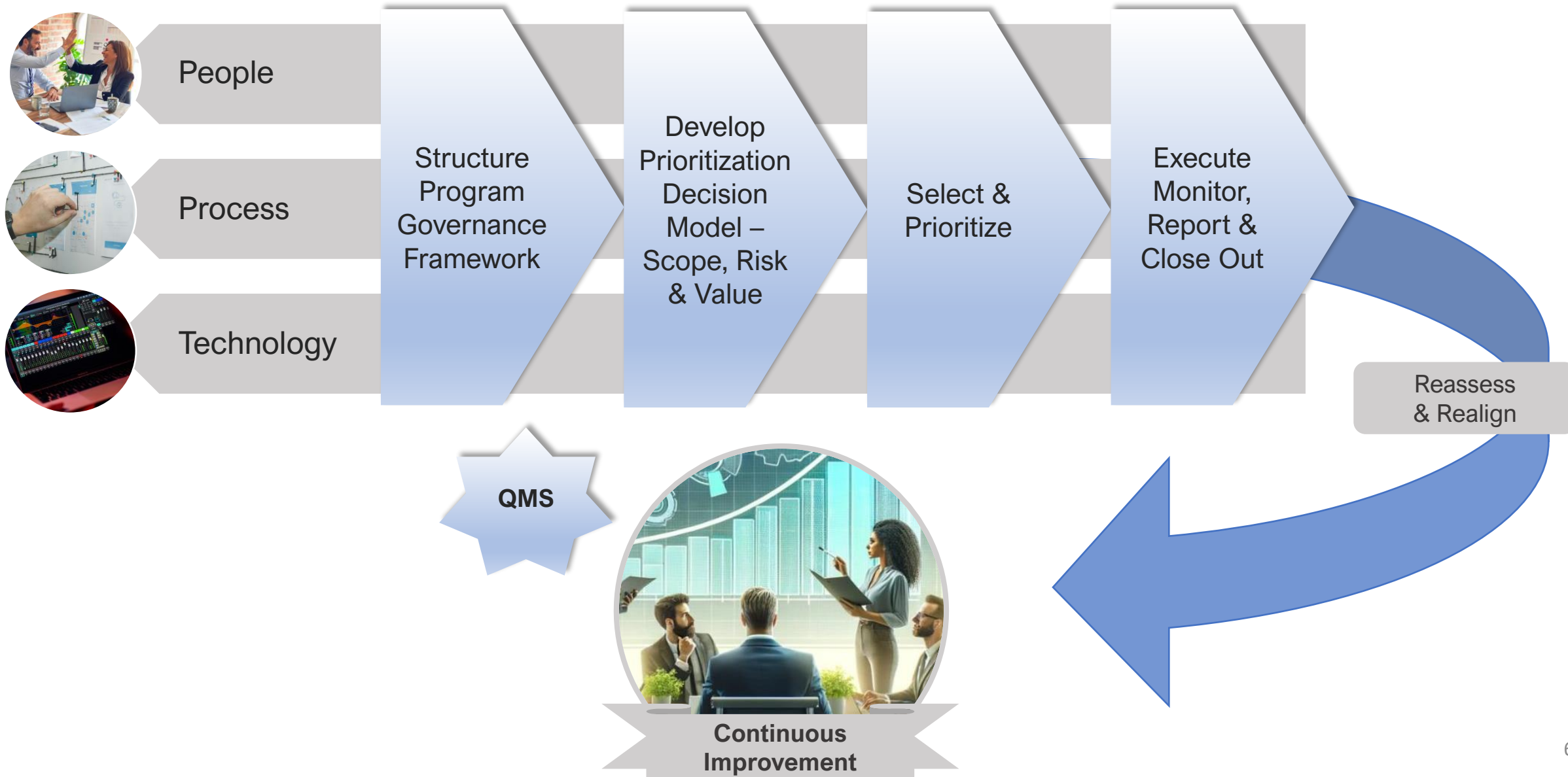
Evolving requirements
And final end solutions
Progress outweighs perfection



Adapting for Optimal Business Outcomes

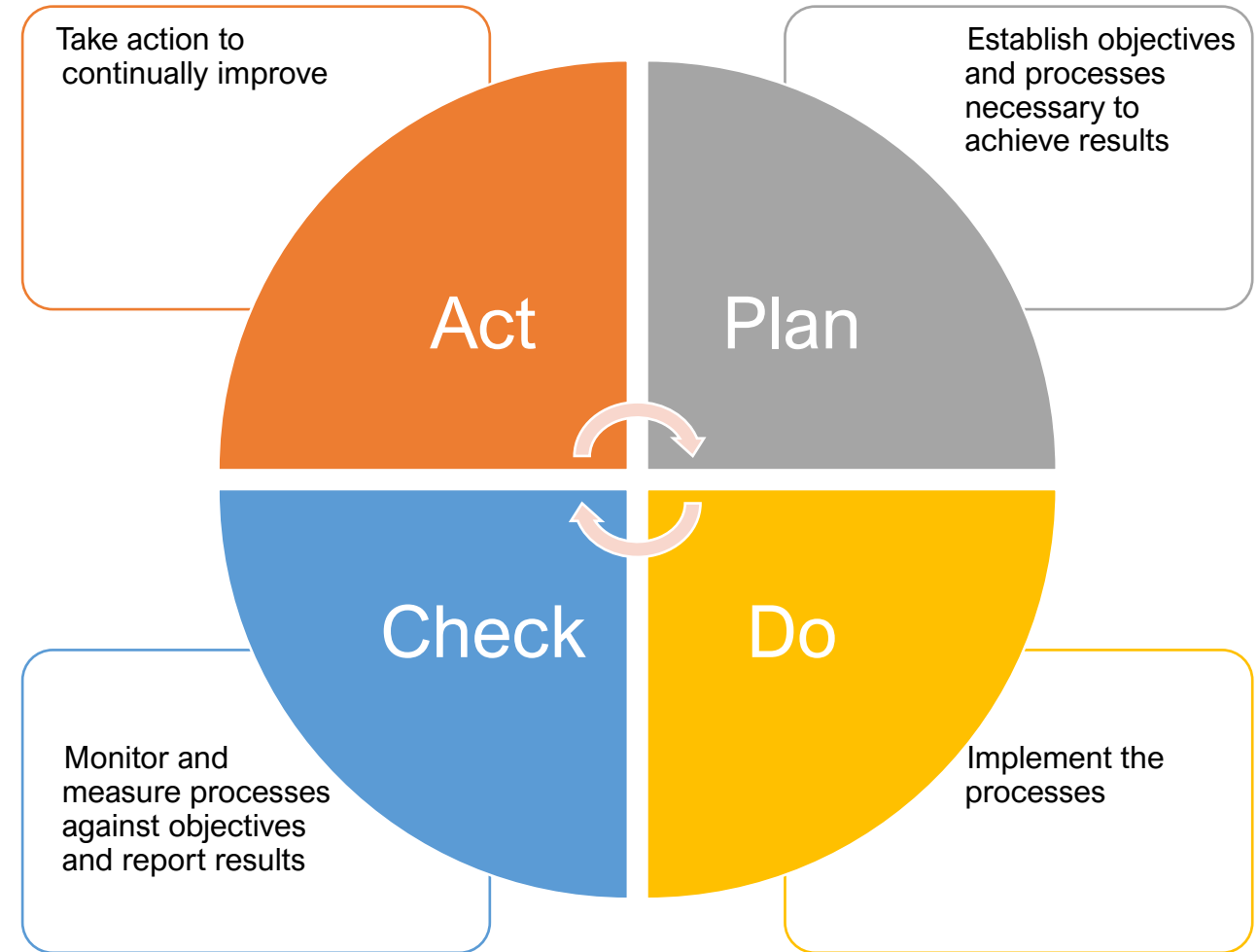


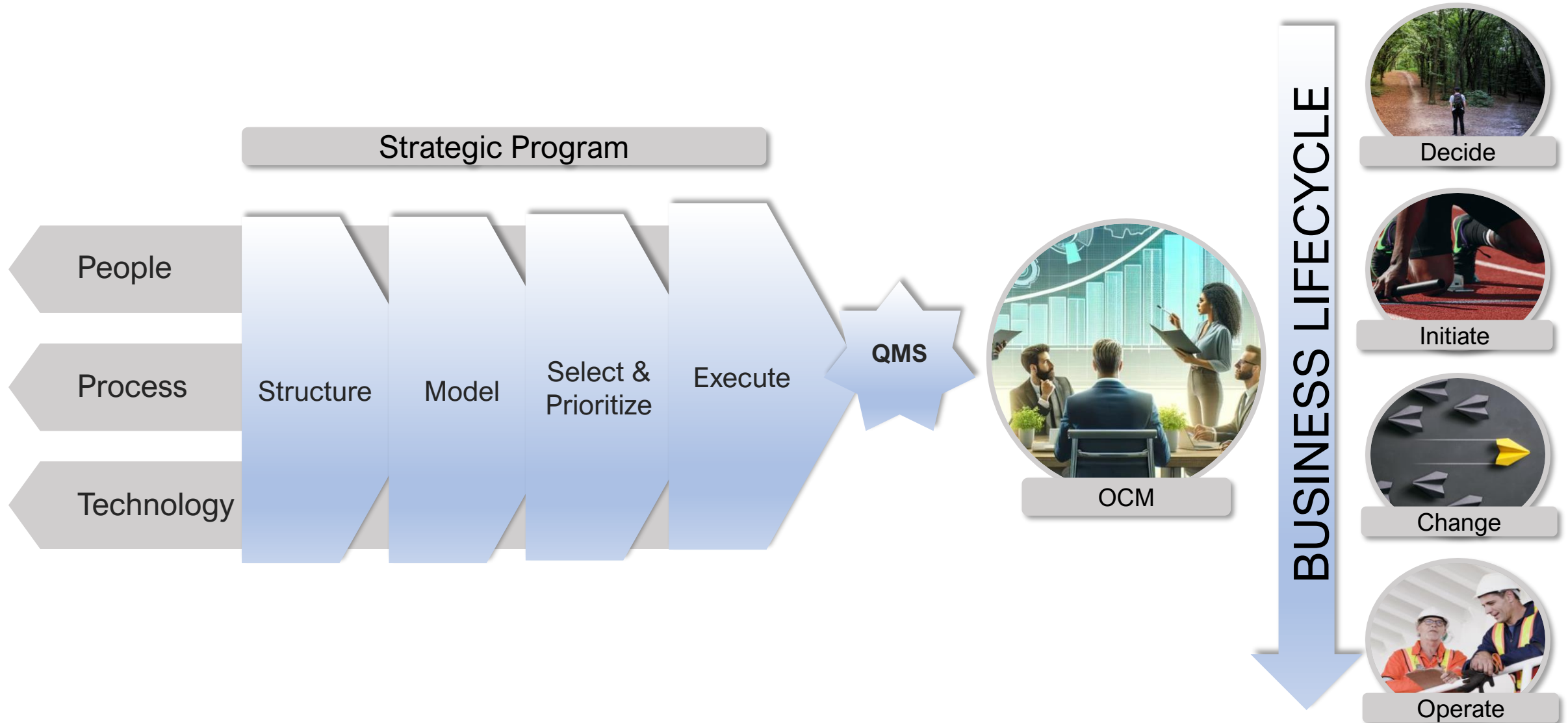




Applying the QMS Model to Program Execution







Data Asset → Evidence Based Decisions



The ten guiding principles of change management are:

1. Active leadership
2. Structured approach
3. Detailed change plans
4. Impact assessment
5. Strong team
6. Employee participation and engagement
7. Open and regular communication
8. Sustainability
9. Managing resistance
10. Evaluating progress



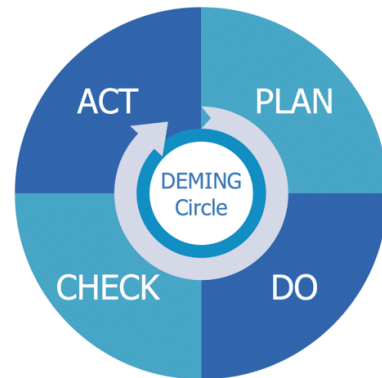
Change Management Principles

Change Management Models

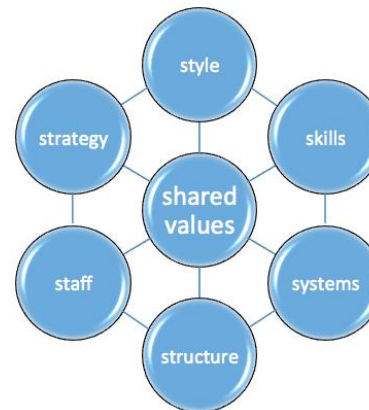
Processes to manage change in organizations. They give a structured outline that can be followed, serving as a blueprint to help apply the common change management principles.



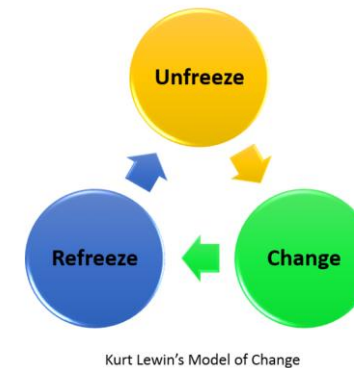
Kotter's 8-Step Process



Deming's Plan-Do-Check-Act Cycle



McKinsey's 7S Framework

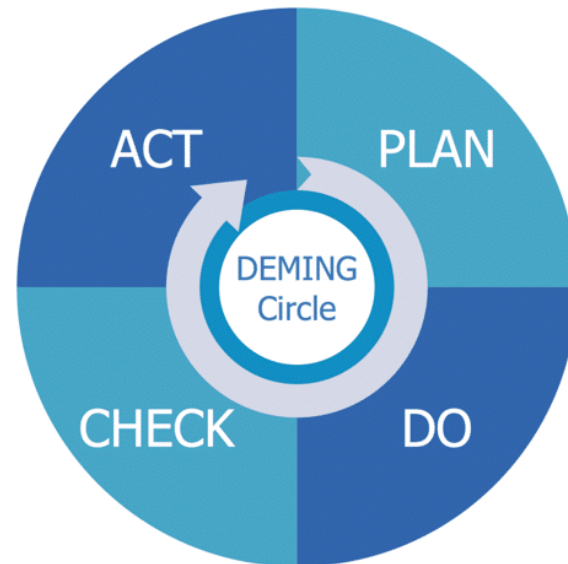


Lewin's Change Model



Prosci ADKAR Model

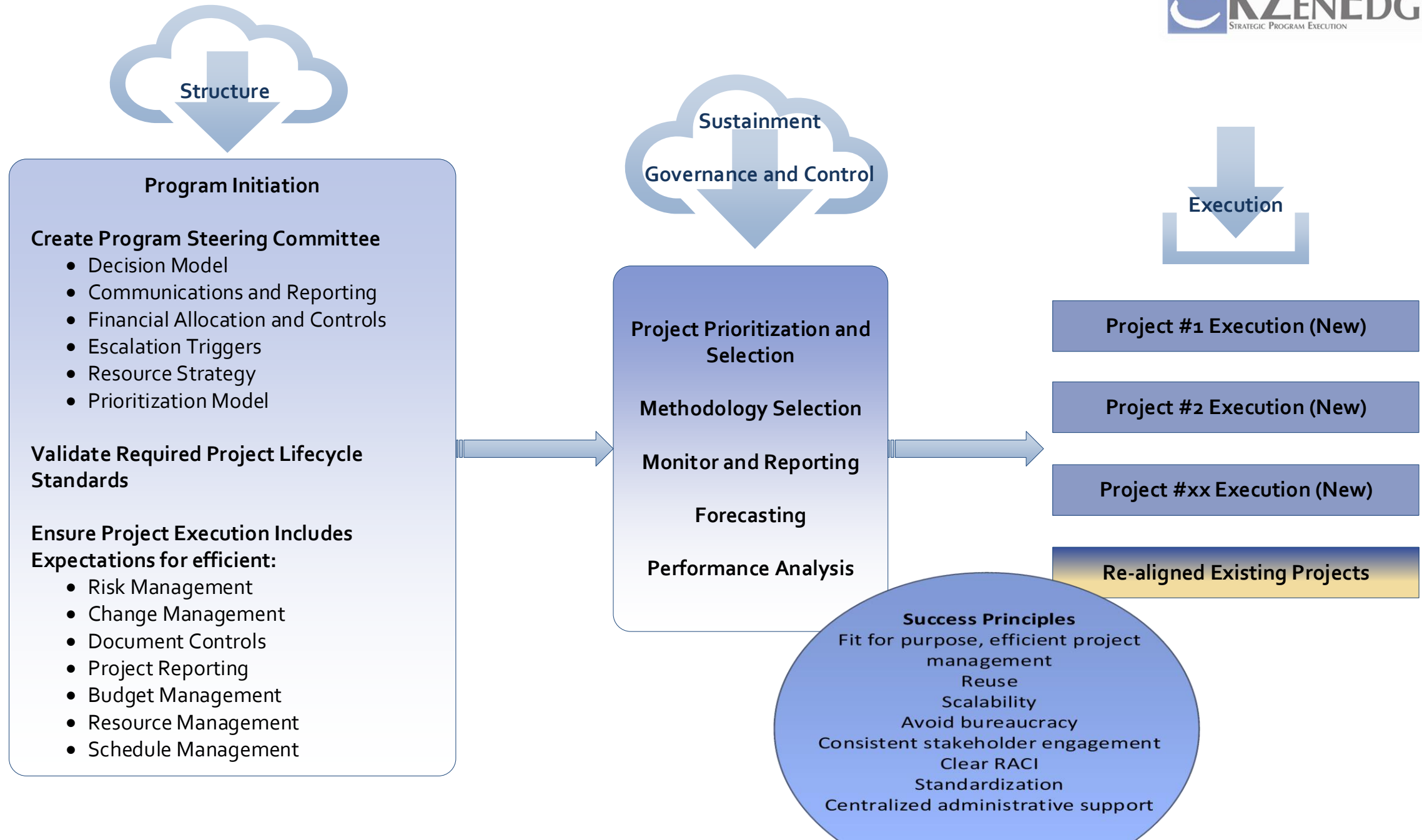
Change Management Models



Deming's Plan-
Do-Check-Act
Cycle



Prosci ADKAR
Model



Operational Enhancements



The Issue & Opportunity

Operational Enhancements



Project #1
Standardization



Project #2
Gas Analyzers



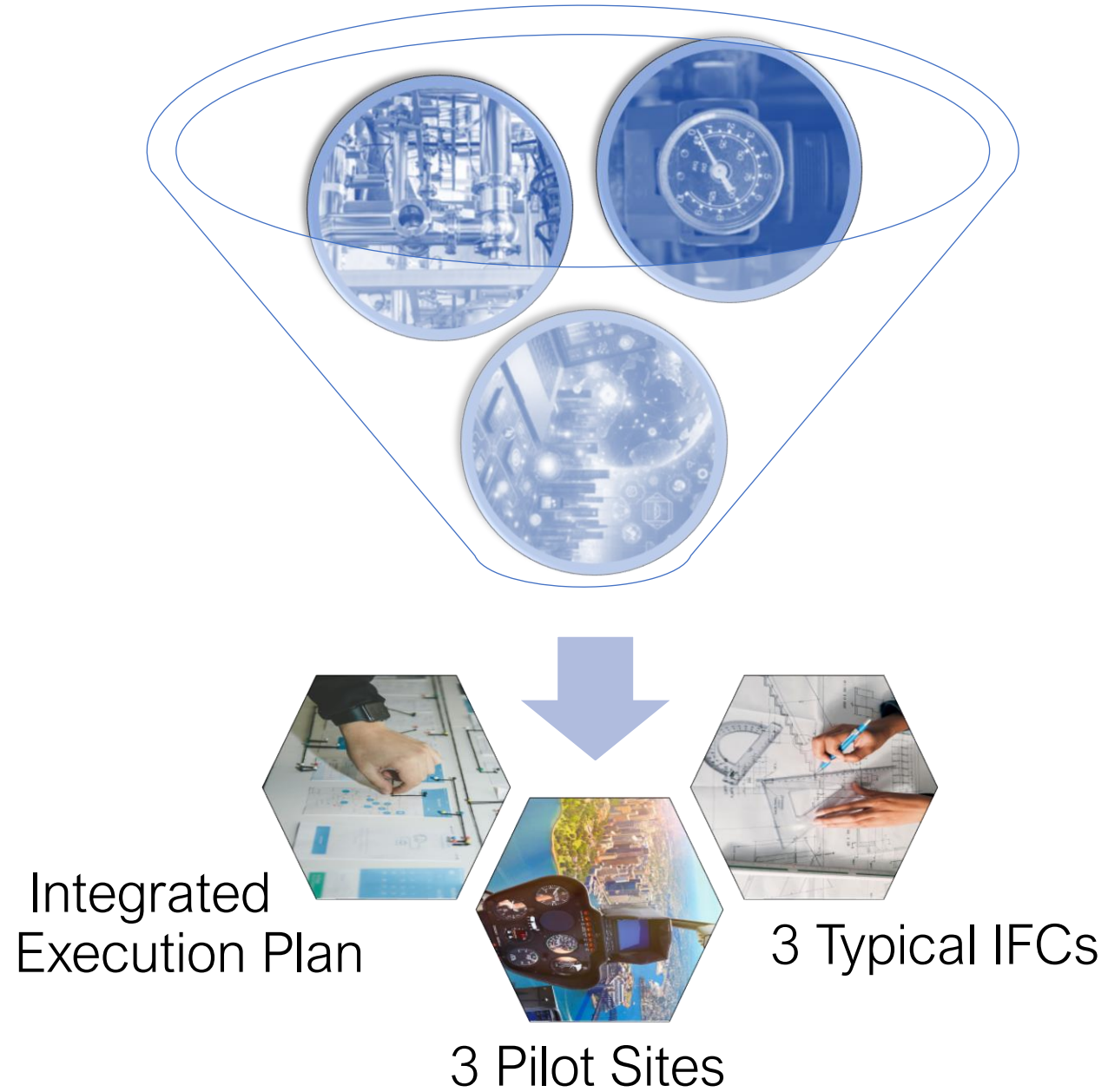
Project #3
Network

The Issue

- 3 Projects with different scope applicable to same locations
- Operations, Engineering and IT Sponsors
- Clear scope on 2 out of 3 projects, but variability/risk on implementation specific details
- Execution strategy needed to leverage synergies to optimize cost and schedule

The Opportunity

- Single project management team (PM/PC)
- Agile planning and waterfall execution
- Integrated schedule and resource plans
- Strong Risk (Uncertainty) Mitigation





Integrated Execution Plan

Integrated all 3 projects to one plan (note – 3 different financial and 2 different governance models/management). Single managed project with common schedule and resources.



3 Pilot Sites

Conducted 3 pilots to narrow the variability in the on-site detailed execution plan (CWP and SOW's)



Typical Issued For Construction Drawings (IFC)

Issued 3 different “typical” IFCs by type of facility (vintage) and equipment.



Site Construction Work Package

Issued 3 different “typical” IFC’s by type of facility (vintage) and equipment with instructions for:

- 1) As-Built of In-Scope Work
- 2) Small corrections within effort/budget contingency
- 3) High risk findings – corrections applied with approval – might be outside of scope and budget
- 4) Normal findings – identified and captured for future evaluation and execution

Instead of going to 55 locations per project (165 visits) for site surveys, IFCs and As-Built, the project went to 3 pilot stations.

- Eliminated 150+ site surveys and IFCs.
- Eliminated 110 As-Built Drawings and completed 55 Redline and As-Builds.

Assumed on site task work to be relatively even, saved 110 site travel costs.

The project was able to adhere to schedule and budget using contingency to fix small findings, load future projects with scope opportunity and use governance to address any high-risk findings.

Asset Management Data Integrity



Facility Operations

Asset Management Data Integrity



Equipment Catalogue

- Name
- Vendor
- Type/Version
- S/N
- S/W
- Location
- System

Operational History

- Maintenance Activity
- Lifecycle
- Reliability
- Availability
- Spares

Maintenance

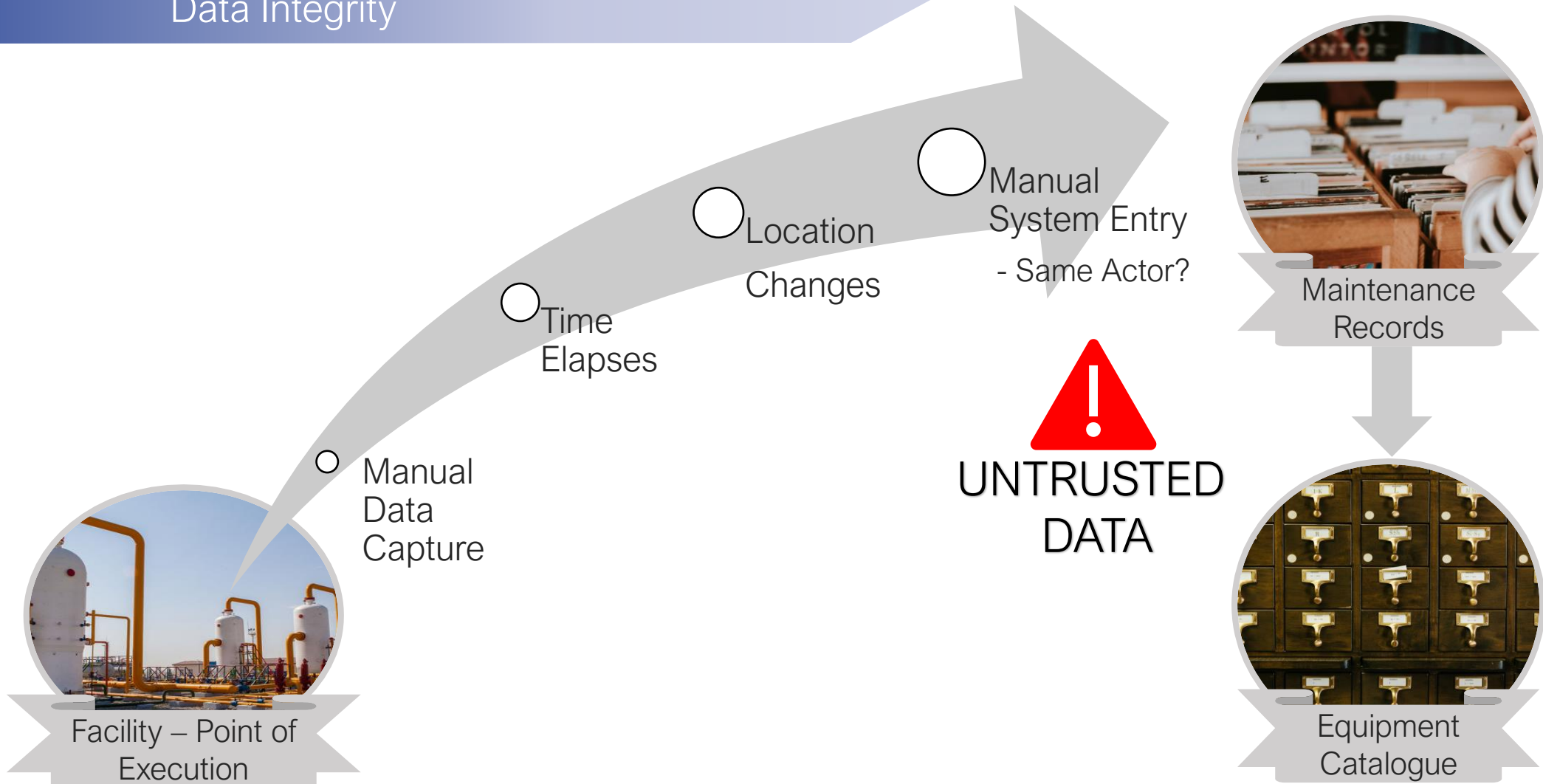
- Risk Ranking
- Maintenance Plan
- PM's
- Support Framework

Reporting

- Operations Work Assessment
- Regulatory
- Finance (tax)
- Engineering Standards & Projects

The Challenge

Data Integrity



The Solution

Maintaining Data Quality

Technology

- ✓ Private Cellular
- ✓ Industrial Tablets
- ✓ Clean AM Data Set



Facility – Point of Execution

Data Capture

- Provide Data Entry Control
- Remove Time Delay
- Single Actor



**INCREASED
DATA INTEGRITY**



Maintenance Records

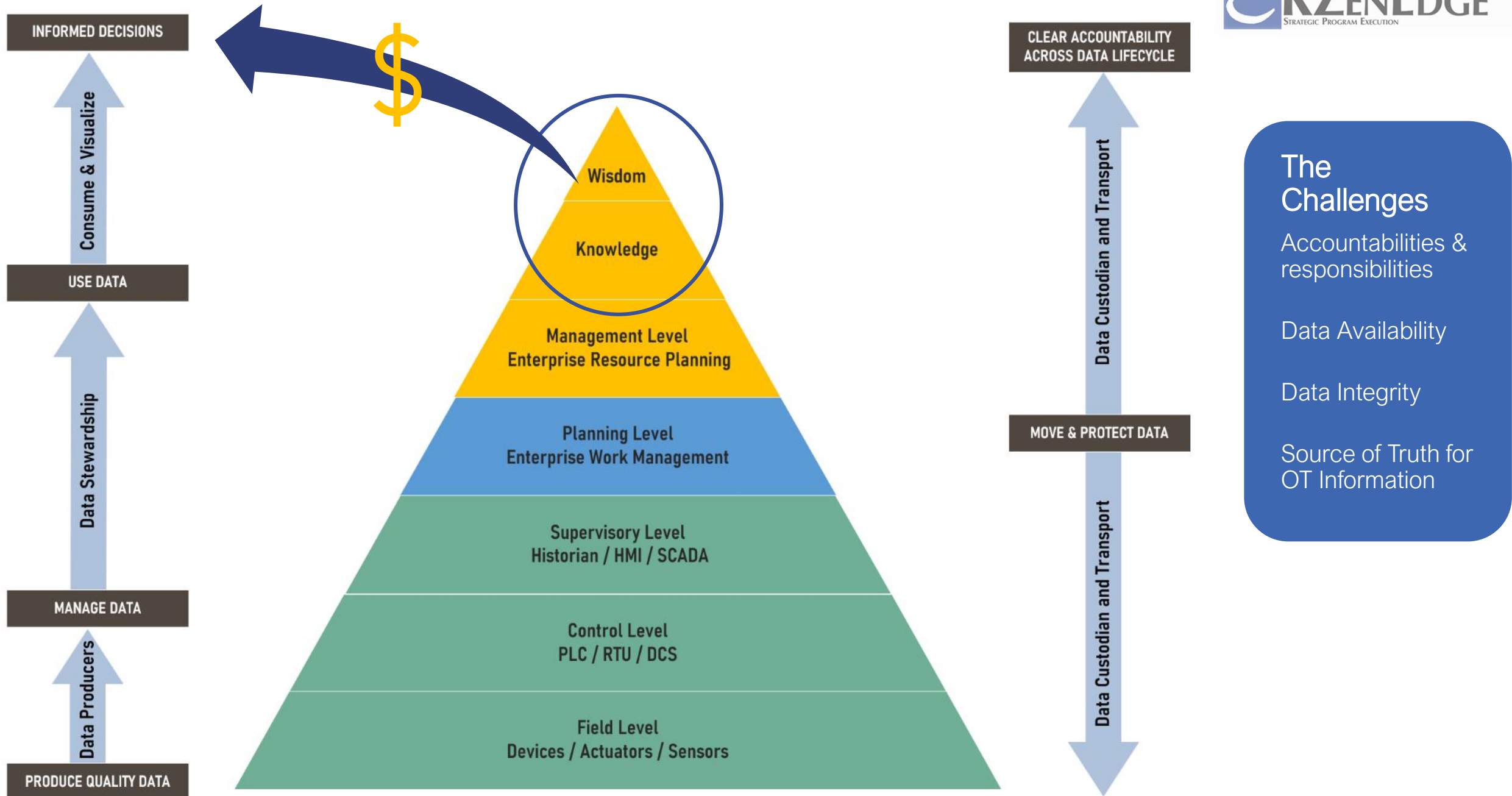


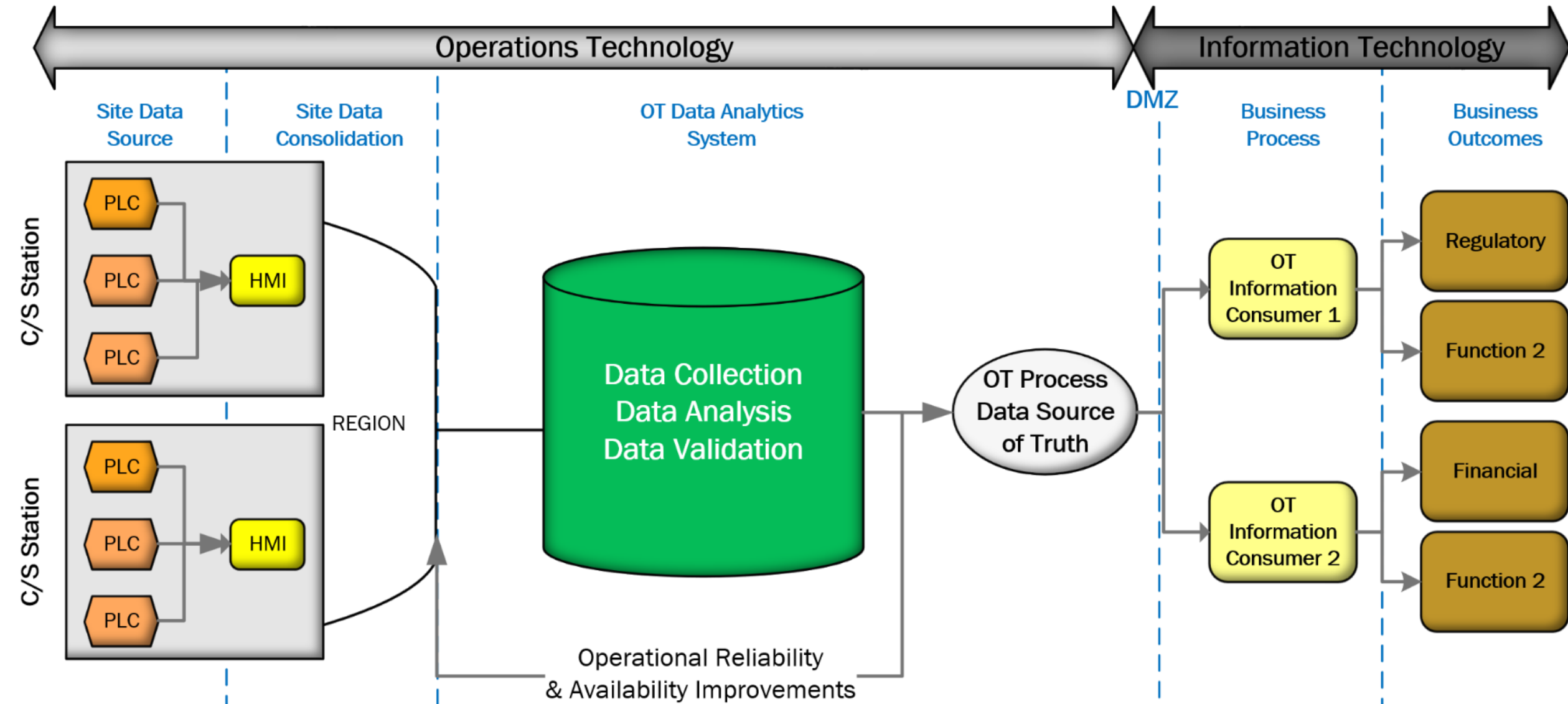
Equipment Catalogue

OT Data Lifecycle

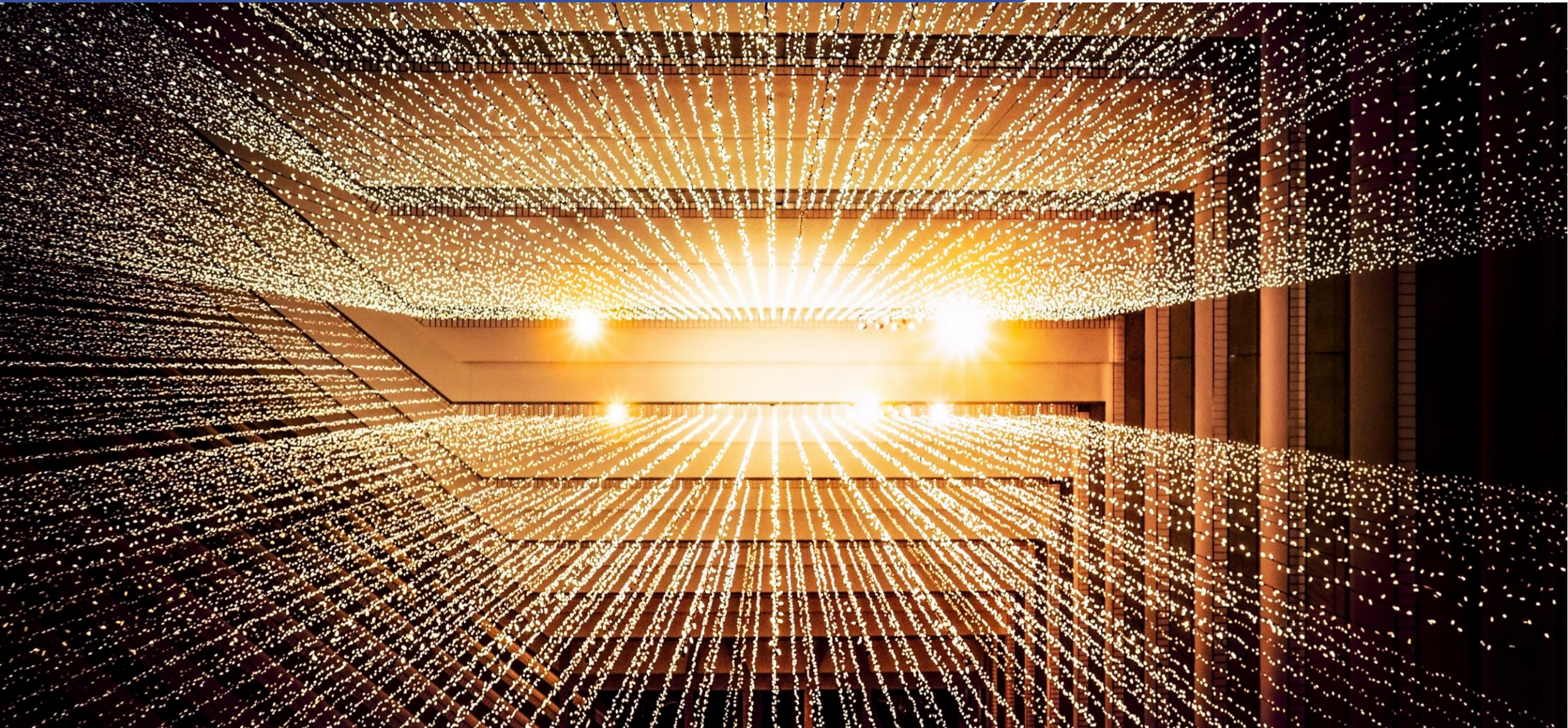


Automation Pyramid and Data Lifecycle





Fired Hour - AI Use Case



DATA SOURCES

AI Use Case for Pipeline Fired Hour Optimization



Facility



Asset



Commercial



External

FACILITY



Generator or Turbine

Efficiency
Compressor
Discharge
CO & NOx
Emissions
Lifecycle
Zero 2050



Compressor

Performance
Wheelcurve
Velocity
Management
Lifecycle
Zero 2050



Balance of Plant

Fuel Consumption
Discharge
Pressure
Management
Safety &
Regulatory
Management
Fuel Management

ASSET



Pipeline System

Line Pack Optimization
Compressor
Optimization
Contract Integration
HP Support
Ambient Temperature

Internal Business



Commercial

Nomination Analytics
Electrical Forecasts
Green House Gases
Fuel Economy

External Drivers



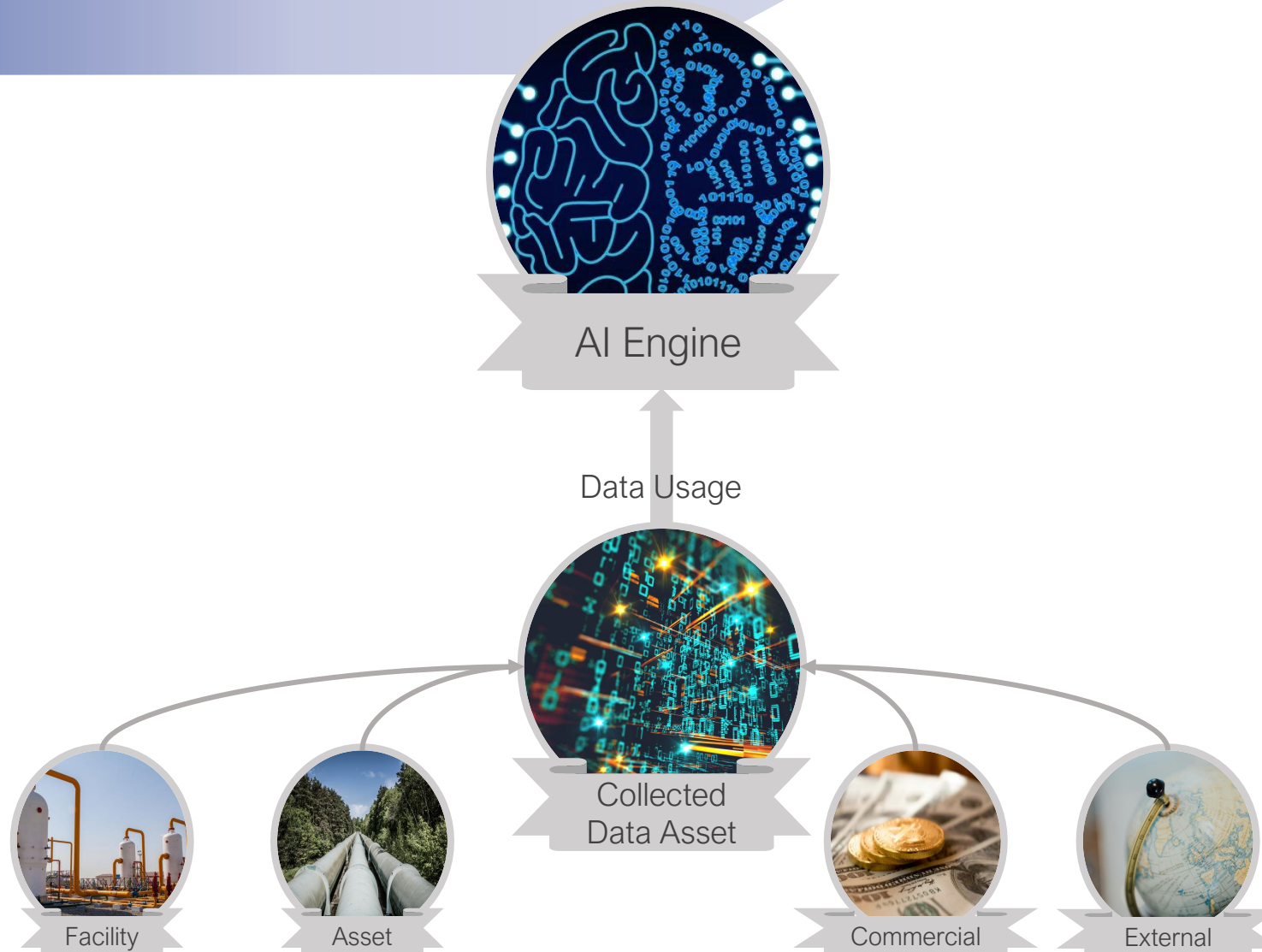
External

Geopolitical
Environment
Global Economy
Market Financials

Collected Data Asset



Data & Business AI Transformation



Data & Business AI Transformation





Adapt your delivery methodology and program/project structure to the client's environment and needs



Balance people, process and technology to meet the outcomes of the project. Deliver sustainable value!



Incorporate the client ecosystem requirements for **change management and quality management** to ensure smooth transition, adoption and continuous improvement for operations (post project)



Gather data to ensure that **risk, KPI's and decisions are based on data** that is gathered and validated with discipline.



THANK YOU!

Who We Are...

KZenEdge is a dedicated team of business professionals who continually demonstrate successful program and project execution utilizing our adaptive methodology. During 12 years of exciting growth and evolution, KZenEdge has maintained a culture of integrity that balances client, corporate and staff objectives. This principle-based teamwork and continually improving process focuses on assisting clients to achieve their goals. Our vision is to be a trusted advisor with the right expertise that can help ensure our client's objectives are always successfully delivered.

What We Do...

- Program and Project Management (IT, Engineering and Operations)
- Project Administration and Coordination
- Business Analysis
- Risk and Quality Management
- Governance and Controls
- Regulatory Compliance
- IT/OT Network, Security and Data Architecture
- System Implementation/Management
- Process Design/Implementation
- Portfolio and Program Design and Execution
- Business Process Improvement
- Automation and Digital Transformation Strategy and Execution
- Data Lifecycle Management
- Artificial Intelligence Evolution Playbook
- Strategic Road Mapping

How We Are Different...

- Always ensure Safety, Security, and Confidentiality
- Experience working within and understanding IT and OT functions – supporting the drivers, boundaries, and relationships of all stakeholders
- Consistent Delivery – honouring client commitments
- Strategic Perspective – initiatives holistically aligned to the end goals
- Transparency – accurate and honest communications/ reporting
- Scalability – fit for purpose solutions providing reduced overhead, burden, and bureaucracy
- Core team of employees that ensure consistent high performance
- Committed to Improvement – enabling continuous growth, development, and value
- Clear Roles and Responsibilities – crucial for stakeholder engagement
- Continual Risk and Quality Control – for successful delivery on objectives
- Proven success managing all aspects of VUCA (Volatile, Uncertain, Complex, and Ambiguous) environments
- Support Lean, Agile and Waterfall methods of execution adapted to client requirements

“We solve the toughest business problems associated with challenging projects and initiatives!”

Our People...

- Senior Management Consultant
- Program Managers
- Project Managers
- Project Coordinators
- Business Analysts

Our People...

- Technical Writers
- Quality Control Managers
- Project Financial Analysts
- Discipline Engineers
- SCADA Technical and Operational Specialists
- Learning Development Associates

Our People...

- Organizational Change Management Specialists
- Data Scientists
- Data Specialists
- Enterprise and Solution Architects
- AI Strategy and Development Experts