

EMBRACING EXCELLENCE

LEAN

CONFERENCE CANADA
WINNIPEG | JUNE 6-9, 2022



PRESENTED BY

CANADIAN
MANUFACTURERS
& EXPORTERS

CANADA'S LARGEST LEAN
EVENT IN 2022

EMBRACINGEXCELLENCE.CA



LEVERAGING LEAN IN AGILE SOFTWARE DEPLOYMENT

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PRESENTATION DISCUSSION



LEAN TOOLS & STRATEGIES TO
BRIDGE & RESOLVE
SYSTEM/PROCESS GAPS



A LEAN MINDED
APPROACH TO SERVICE



AGILE IS NOT JUST FOR BIG
COMPANIES... AGILE IS
SCALABLE

LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS

Lean tools are used to solve gaps... but what happens when a computer system doesn't perform a task in the manner it is performed today?



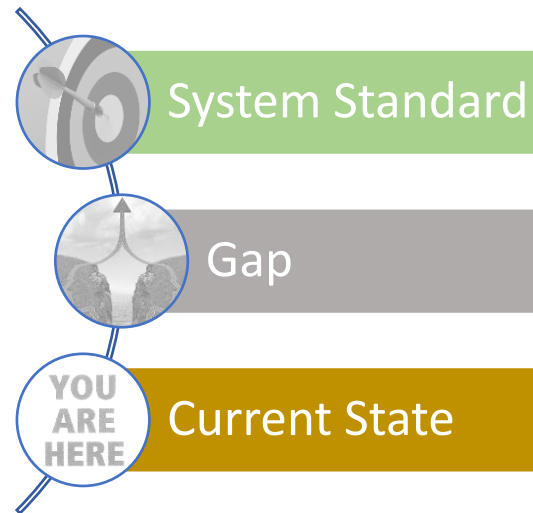
Manage gaps that emerge or hinder software updates, upgrades, transitions and enhanced feature deployments.

LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS

Systems have inherent DESIGN... Referred to as “Out Of The Box” performance



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LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS

FOCUS POINT:

- In a **SERVICE** Industry scenario the **ERP PRODUCES** the output/product.
- In a **MANUFACTURING** scenario the **ERP SUPPORTS** the production.

❖ Effective system use, alignment & design management applies to both!!



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LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS



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MANUFACTURING / SHOP FLOOR



Production	=	Processing
Materials & Shop Labour	=	Data & User Labour
Finished Goods	=	Service / Data
Information Collection	=	Information Collection

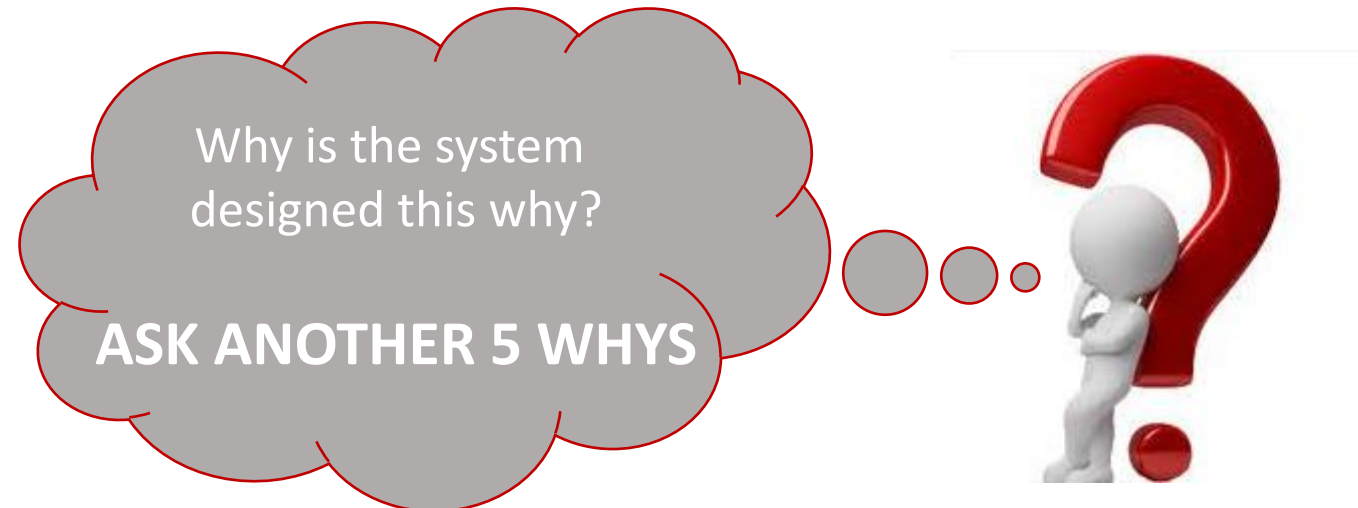
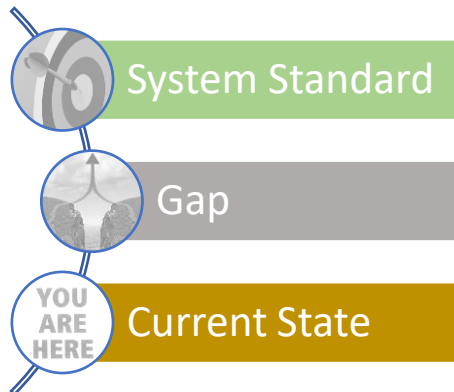
SERVICE / SYSTEM



LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS

CONSIDER THIS:

- Would you remove safety equipment?
- Would your engineers let you customize machinery?



Manage gaps that emerge or hinder software updates, upgrades, transitions and enhanced feature deployments.

LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS

A GAP is a GAP:

Use your Toolkit... **YOUR SYSTEM** is like a **SHOP FLOOR**

GO TO THE GEMBA... your walk is just **VIRTUAL**....

- **MAP** it
- **IDENTIFY & MEASURE** inputs, outputs, issues
- **ASSESS** the **WASTE**
- **IDENTIFY** the **POCs**



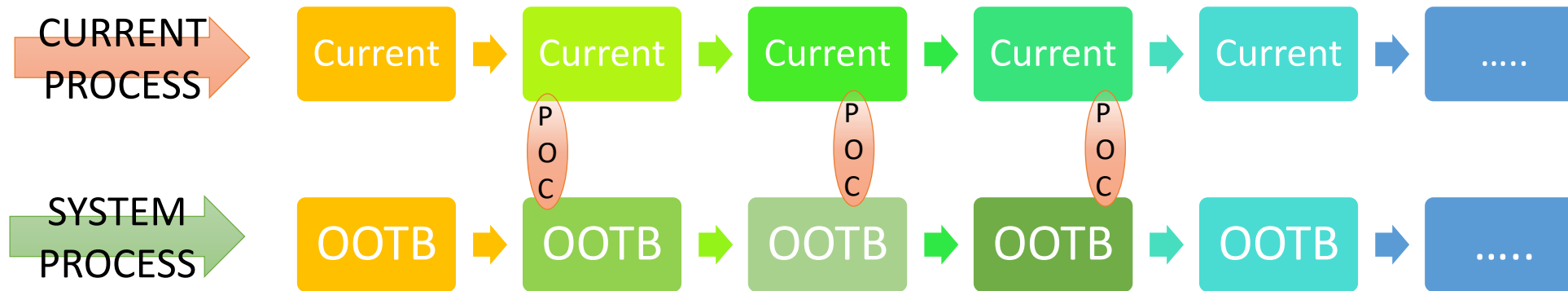
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LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS

A GAP is a GAP:

Use your Toolkit ... **VSM EXERCISE WITH A TWIST**



Manage gaps that emerge or hinder software updates, upgrades, transitions and enhanced feature deployments.

LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS

UNDERSTAND WHY the GAP exists from **BOTH SIDES**: Process & System Design



FOCUS POINT: Customer Value = Customer will Pay for it

- **DETERMINE IF** the GAP is a competitive value
- **DETERMINE WHY** the system performs as it does



Manage gaps that emerge or hinder software updates, upgrades, transitions and enhanced feature deployments.

LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS

BRIDGING THE GAP

VALUE GRAPH the solutions and actions that can close the gap... **BUT...**



FOCUS POINT: DEVIATION FROM OOTB MUST BE CATEGORIZED AS STRATEGIC OR PROJECT (PARKED)

❖ KAIZENS TEAMS SHOULD NOT CREATE ACTION ITEMS THEY CANNOT AUTHORIZE AND CARRYOUT



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DESIGN ESCALATION

Use a DESIGN ESCALATION PROCESS

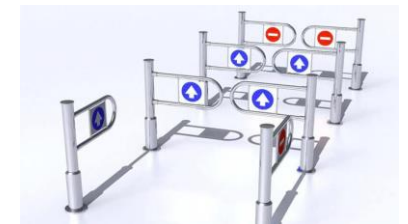
Designs that perpetuate a GAP must drive a significant VALUE

WHY DESIGN ESCALATION WORKS

- ✓ A **STAGE-GATE APPROACH**
- ✓ Supports **FLOW**
- ✓ **ACCOUNTABILITY** & Clarity
- ✓ Transparent & **CONSISTENT** assessment
- ✓ Upholds **BEST PRACTICES**



Manage gaps that emerge or hinder software updates, upgrades, transitions and enhanced feature deployments.



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A STANDARDIZED PROCESS to:

- ✓ **REVIEW** “Gap” Solutions
- ✓ Support Release/Sprint **FLOW**
- ✓ **MANAGE TCO**
- ✓ Determine **VALIDITY**
- ✓ Align to **GUIDING PRINCIPLES**



Manage gaps that emerge or hinder software updates, upgrades, transitions and enhanced feature deployments.



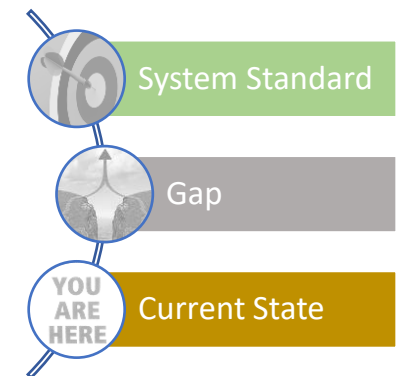
LEAN TOOLS & STRATEGIES TO BRIDGE & RESOLVE SYSTEM/PROCESS GAPS



- ✓ System = Shop Floor
- ✓ Systems are designed with best practices
- ✓ Systems have safeguards
- ✓ Understand the GAP from BOTH sides
- ✓ KAIZEN & tools still apply and drive problem solving
- ✓ Design Processes to reflect Value Drivers but align to the System Design
- ✓ Use a Design Escalation Process to manage VALUE DRIVEN deviations



Manage gaps that emerge or hinder software updates, upgrades, transitions and enhanced feature deployments.



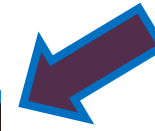
PRESENTATION DISCUSSION



LEAN TOOLS & STRATEGIES TO
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A LEAN MINDED
APPROACH TO SERVICE



AGILE IS NOT JUST FOR BIG
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A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

SO WE HAVE A WAY TO ASSESS & BRIDGE THE GAP ...

... WHAT ABOUT ONGOING SYSTEM ENHANCEMENT

- ⚙️ An **IMPLEMENTATION** is never one and done
- ⚙️ Implementation transitions to **IN USE**
- ⚙️ Systems, like any machinery, need to be serviced and **MAINTAINED**

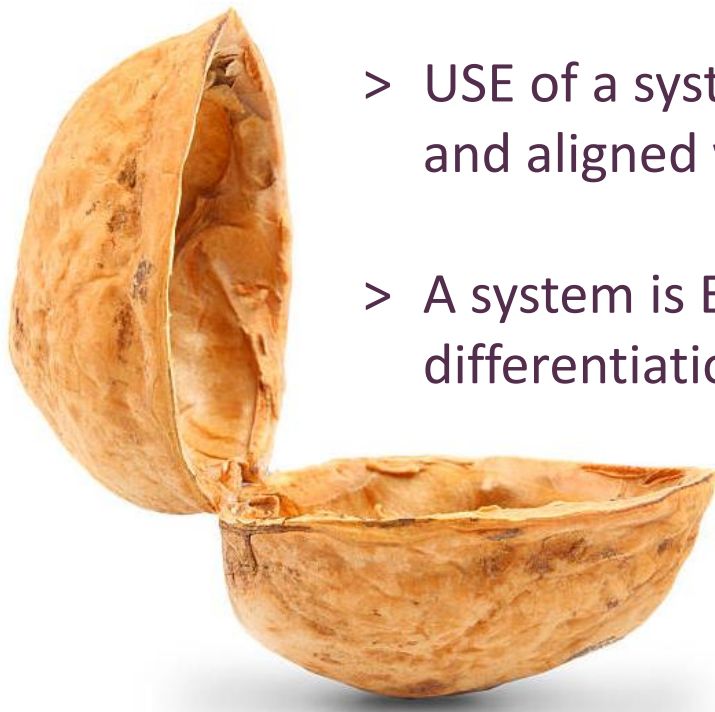


To support and ensure your processes and system solutions are driving the right value for the right customers.



A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

SYSTEM CI in a NUTSHELL



- > USE of a system is continually improved when it is adapting and aligned with its intended design.
- > A system is ENHANCED if adapted to provide a competitive differentiation driven by VALUE



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A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

ONGOING SYSTEM SUSTAINMENT

System DESIGN INTEGRITY needs to be MAINTAINED

SYSTEM MAINTENANCE comes in two key forms:

- > Upgrades
- > Updates



❖ ***ROUTINE use of KAIZEN and a CI Mindset need to be at the FOUNDATION and CORE of system MAINTENANCE***



To support and ensure your processes and system solutions are driving the right value for the right customers.

A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

ESCALATION IS NOT A FOUR LETTER WORD

The DESIGN ESCALATION concept is an AGILE concept

It is also INTEGRAL to the SYSTEM CI process

A Lean Agile approach can take Agile software development, deployment and sustainment from technical to transformative.



To support and ensure your processes and system solutions are driving the right value for the right customers.



A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

FOCUS POINT:

- **AGILE** is a **LEAN ORIENTED METHODOLOGY** for **SYSTEMS & TECHNOLOGY DEVELOPMENT**
- It is a **LEAN** approach to **TECHNOLOGY MANAGEMENT**

❖ **AGILE ELIMINATES WASTE** found in the **WATERFALL methodology**



To support and ensure your processes and system solutions are driving the right value for the right customers.



A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

AGILE.... is CONTINUOUS ITERATION



In IMPLEMENTATION: Iteration = SPRINT | In MAINTENANCE: Iteration = RELEASE

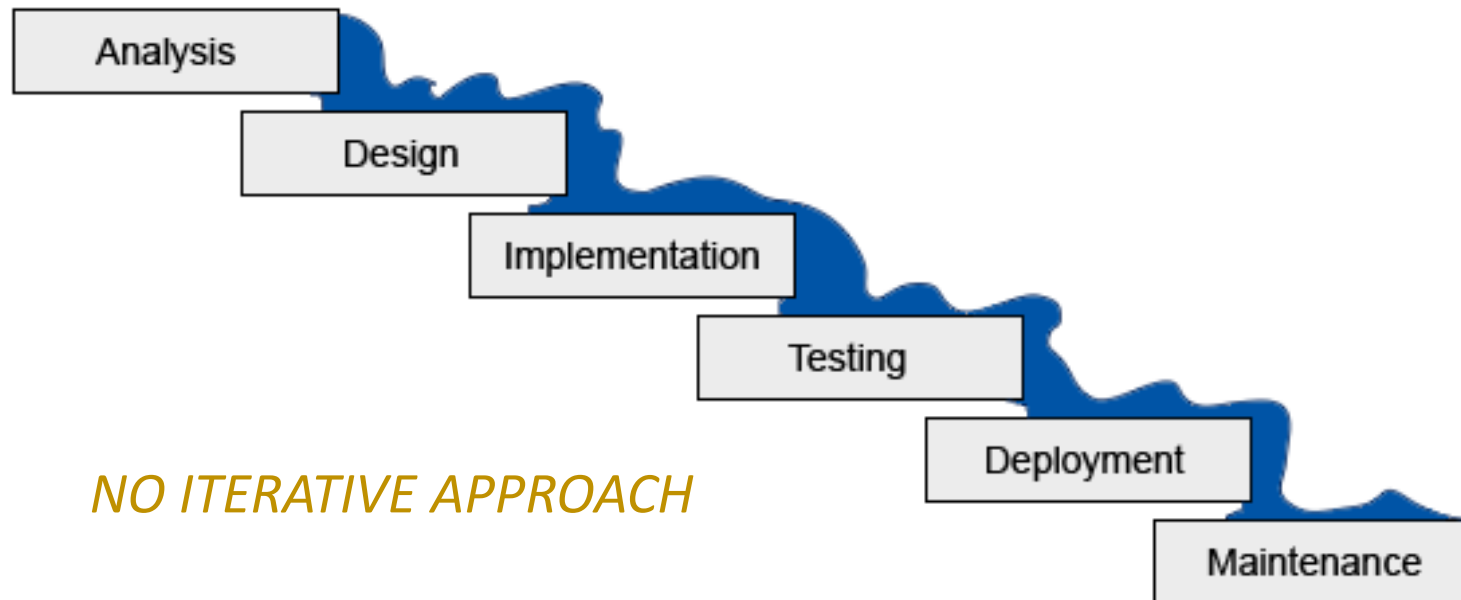


To support and ensure your processes and system solutions are driving the right value for the right customers.



A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

WATERFALL ... is NOT



NO ITERATIVE APPROACH



To support and ensure your processes and system solutions are driving the right value for the right customers.

A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

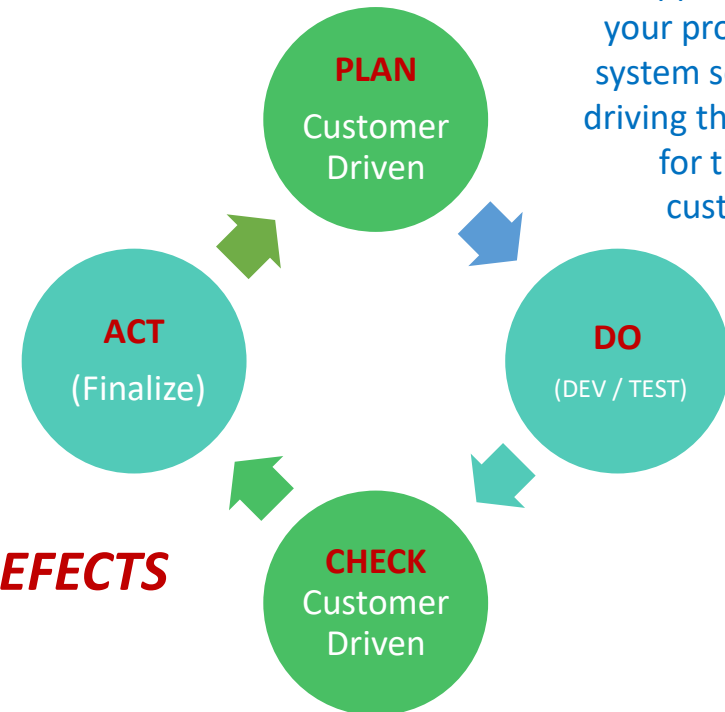
A-HA MOMENT:

- **ITERATION** is **CONTINUOUS CONSULTATION**
- Each SPRINT is BUILDING toward the end PRODUCT
- USERS are engaged THROUGHOUT
- WATERFALL is a “ONE SPRINT” approach...
... USERS are NOT engaged THROUGHOUT

❖ **Waterfall will build WASTE and PASS ALONG DEFECTS**



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A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

ESCALATION FRAMEWORK REVISITED



At the **CORE** is still the concept of **VALUE**

RECALL / REFLECT VALUES METHODOLOGY

❖ ***ESCALATION methodically ASSESSES THE VALUE of a custom design solution AGAINST GUIDING PRINCIPLES***

GUIDING PRINCIPLES must align to the CORPORATE VALUES



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A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

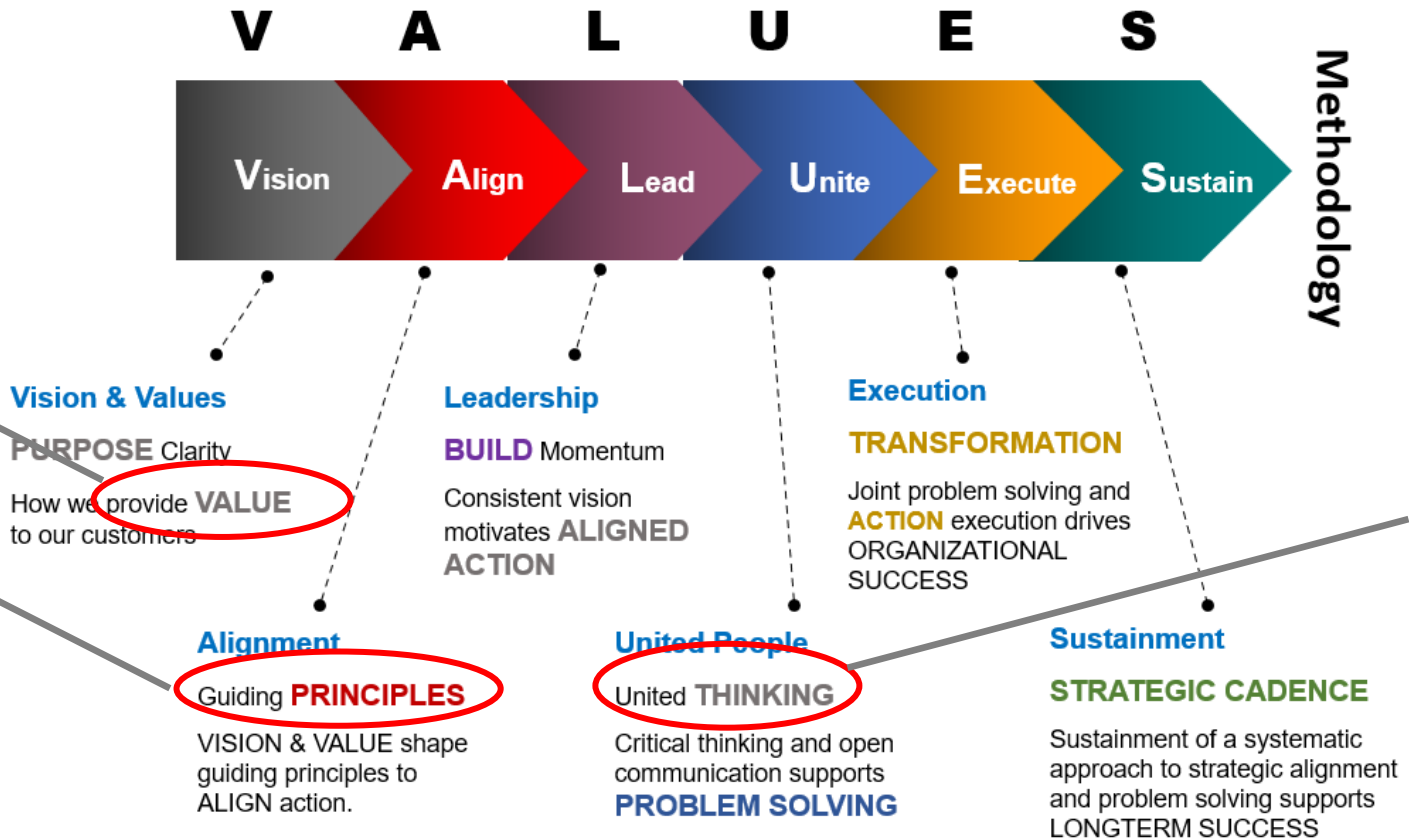


To support and ensure your processes and system solutions are driving the right value for the right customers.

Will our customers pay for our system customizations?
 What value do they actually drive?

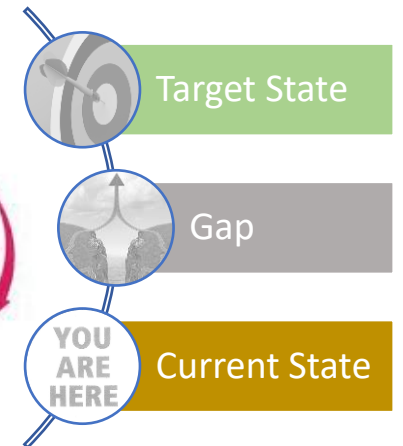
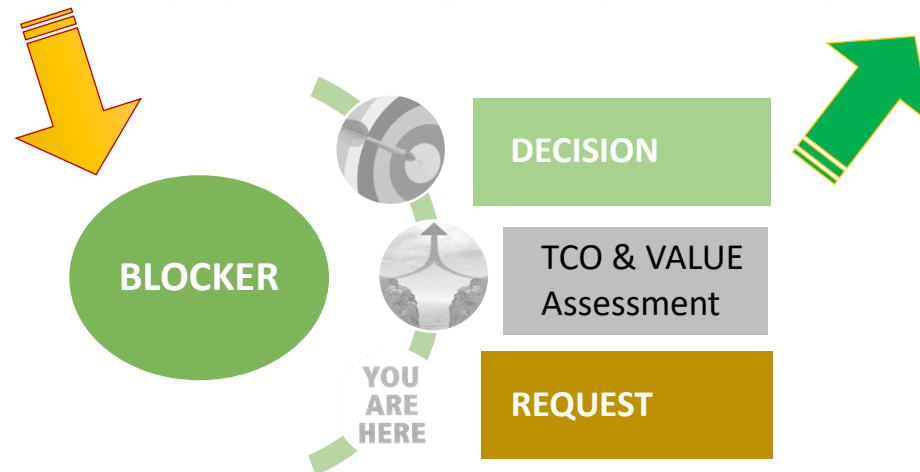
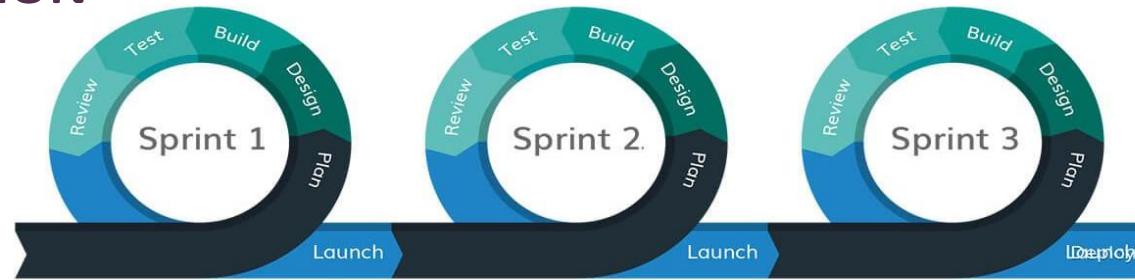
What are our corporate guidelines and principles for managing TCO and Technical Debt?

Are we applying consistent tools to align our critical thinking around attacking and resolving problems?



A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

AGILE ESCALATION



To support and ensure your processes and system solutions are driving the right value for the right customers.

A LEAN MINDED APPROACH TO SERVICE SOLUTIONS

RECAP

- ✓ System = Shop Floor
- ✓ Redesign Processes to align Value Drivers and System Design
- ✓ Design Escalation manages VALUE DRIVEN deviations
- ✓ SYSTEM CI moves toward SYSTEM OOTB Design
- ✓ AGILE replaces waterfall with PDCA iteration & CUSTOMER FOCUS
- ✓ AGILE leverages STANDARDIZED DESIGN ESCALATION to resolve BLOCKERS
- ✓ Standardized Design Escalation creates TRANSPARENCY
- ✓ DESIGN DECISIONS are FOUNDED in VALUES that reflect the GUIDING PRINCIPLES



To support and ensure your processes and system solutions are driving the right value for the right customers.



PRESENTATION DISCUSSION



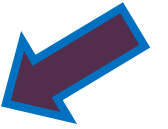
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AGILE PURPOSE

To eliminate waste by breaking the entire scope into shortened scope deliverables that build upon each other toward the end result.

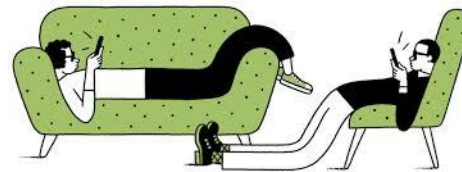
Shorter scope cycles catch and resolve issues and move the total effort forward with more efficiency by managing waste like:



DEFECTS



REWORK



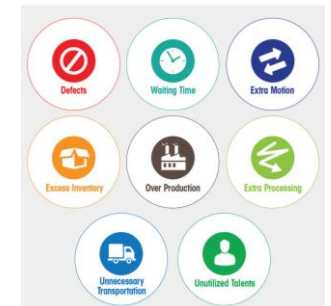
Underutilized capacity



Lean and Agile solutions can help small business leverage system functionality to support nimble adaptation.

The 8 Wastes of Lean

Identify these non-value-adding activities. Reduce or eliminate them to become more efficient.



AGILE IS NOT JUST FOR BIG COMPANIES

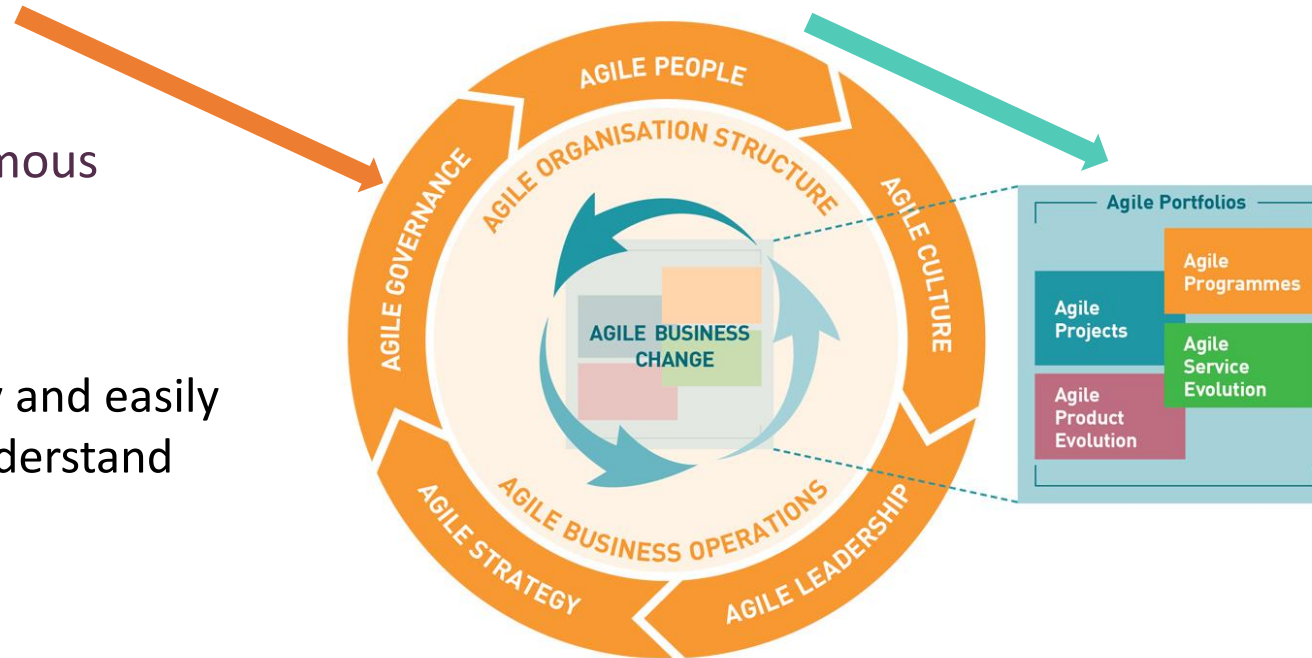
AGILE ADOPTION

There are **AGILE COMPANIES** and there is **AGILE Methodology**

The two are not Synonymous

a·gil·i·ty [noun]

- ability to move quickly and easily
- ability to think and understand quickly



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AGILE ADOPTION

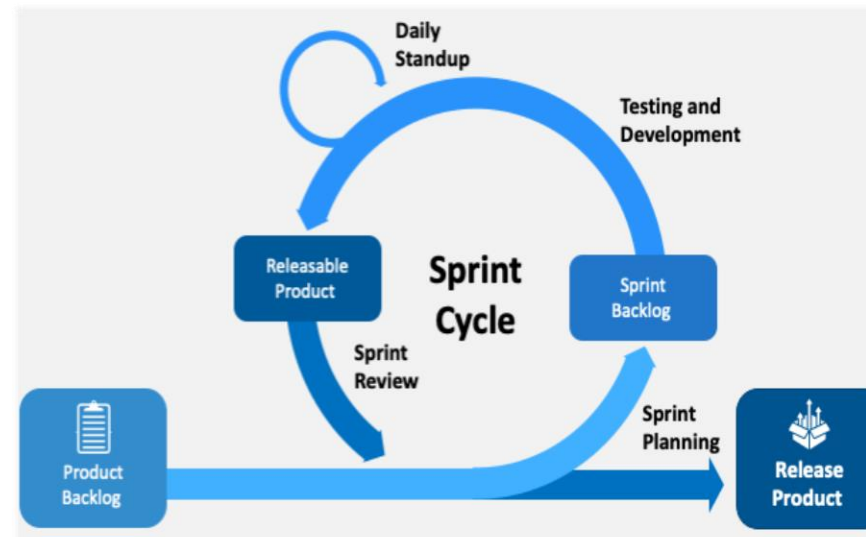
AGILE Companies are NIMBLE & ADAPTABLE, founded in Agility and the deployment of Agile Mindset and Methodology in all projects and work cycles.

AGILE Methodology is a nimble APPROACH to managing systems

AGILE Methodology is scalable



Lean and Agile solutions can help small business leverage system functionality to support nimble adaptation.



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AGILE ADOPTION

AGILE INTENT is attainable to the degree ACHEIVABLE by the ORGANIZATION

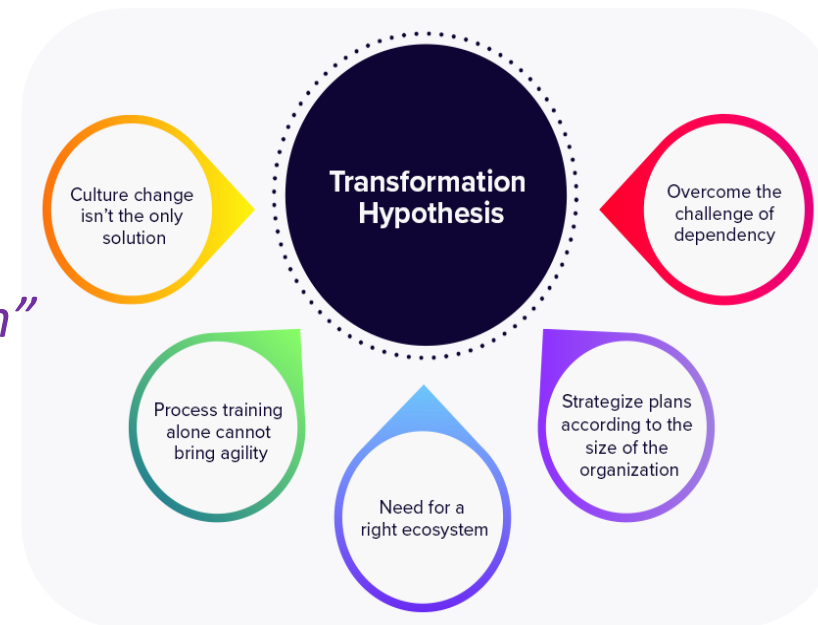
... “Something is better than Nothing”

Transformation Hypothesis....

“plan according to the size of the organization”

... Embrace what you can achieve

... Be purposeful and iterative



Lean and Agile solutions can help small business leverage system functionality to support nimble adaptation.

AGILE IS NOT JUST FOR BIG COMPANIES

AGILE INTENT – a Starting Point

Gain UNDERSTANDING = Agile TRAINING & EXPLORATION

TARGET what is manageable = “Bite off what you can Chew”

Be INTENTIONAL = PRACTICE the methodology

Don't be fearful of SHORTFALLS = SHORTFALLS provides opportunity to ADAPT

SHORTFALL drive ADAPTATION = MOVEMENT toward the GOAL



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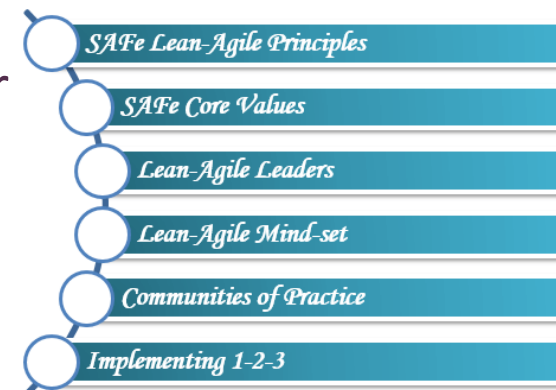
LEAN + AGILE vs SAFe

LEAN & AGILE - the coexistence and use of kaizen with the Agile methodology to support alignment between business practices and system design. *This has been the focus of this discussion.*

SCALED AGILE FRAMEWORK (SAFe) - Agile framework for enterprise scaling of lean and agile practices.



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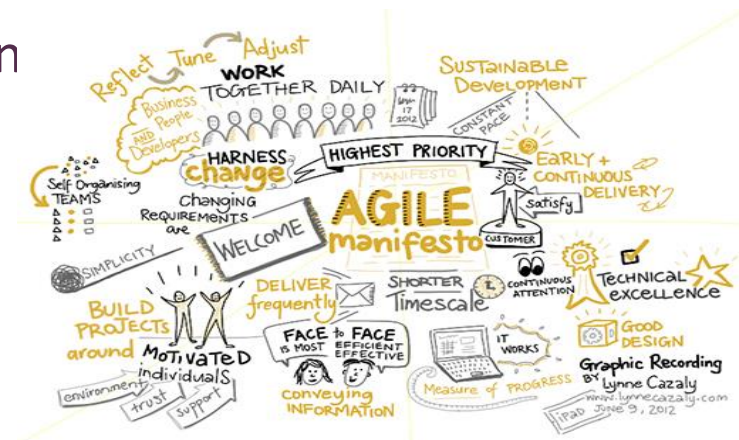
LEAN AGILE & AGILE COMPANIES

LEAN AGILE - the evolution of applying Agile to Lean and creating an Agile Kaizen framework

AGILE COMPANIES – Corporate wide adoption & practice of Agile methodology across all disciplines



Lean and Agile solutions can help small business leverage system functionality to support nimble adaptation.



AGILE IS NOT JUST FOR BIG COMPANIES

RECAP

- ✓ System = Shop Floor
- ✓ System CI Aligns Processes to System Design
- ✓ Guiding Principles & Corporate Values govern Design Decisions
- ✓ Agile = iterative PDCA, Design Escalation, Collaboration & Customer Focus
- ✓ Augment Lean knowledge with Agile knowledge or vice versa
- ✓ Agile is scalable
- ✓ Lean + Agile is not Lean Agile



Lean and Agile solutions can help small business leverage system functionality to support nimble adaptation.

AGILE IS NOT JUST FOR BIG COMPANIES

LESSONS LEARNED

Project Management, Lean & Agile Methodologies Intersect

- Align delivery under knowledgeable leadership
- Depth of knowledge in each facet is ideal
- Identify who has the skill set & **depth of practical experience**
- Ensure executive support for delivery

❖ *If you need that skill set, hire it
.... build talent from within that is led and molded through that skill set*



Lean and Agile solutions can help small business leverage system functionality to support nimble adaptation.

AGILE IS NOT JUST FOR BIG COMPANIES

LESSONS LEARNED

ALIGN UNDERSTANDING through “base-level” training in both lean and agile

- “experts” deploy, govern and sustain
- “lead-hands” support, guide and uphold
- “steering committee” shares vision & provides guidance

❖ *This is a corporate responsibility...*

... it both drives & encourages the CI culture



Lean and Agile solutions can help small business leverage system functionality to support nimble adaptation.

AGILE IS NOT JUST FOR BIG COMPANIES

LESSONS LEARNED

Don't run before you can walk

- TRAINING builds knowledge BUT...
... *DOING builds experience & enhances knowledge*
- Something is better than nothing....
... *Be okay with LEARNING ... Be deliberate*

❖ ***BUILDING is better than stagnant... WORD of ADVICE...***

... apply a steady consistent delivery VS a dramatic charge



Lean and Agile solutions can help small business leverage system functionality to support nimble adaptation.

PRESENTATION WRAP UP



Enhance Agile
by managing
gaps through Kaizen



Ensure customization
is driven by true
customer value



An Agile approach
is achievable, start with
a consistent and steady
approach forward

THANK YOU!

Leveraging Lean in Agile Software Deployment

Carla Douglas, CPA CMA CITP CLC

LEAN BLACKBELT – LEAN AGILE GREENBELT – MONEY BELT

Principal
DTC LIMITED



VP Technology & Lean Champion (Retired)

Red River Mutual Insurance

