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Why focus on the essentials?

Because there's a danger in skipping critical elements

Findings from the field

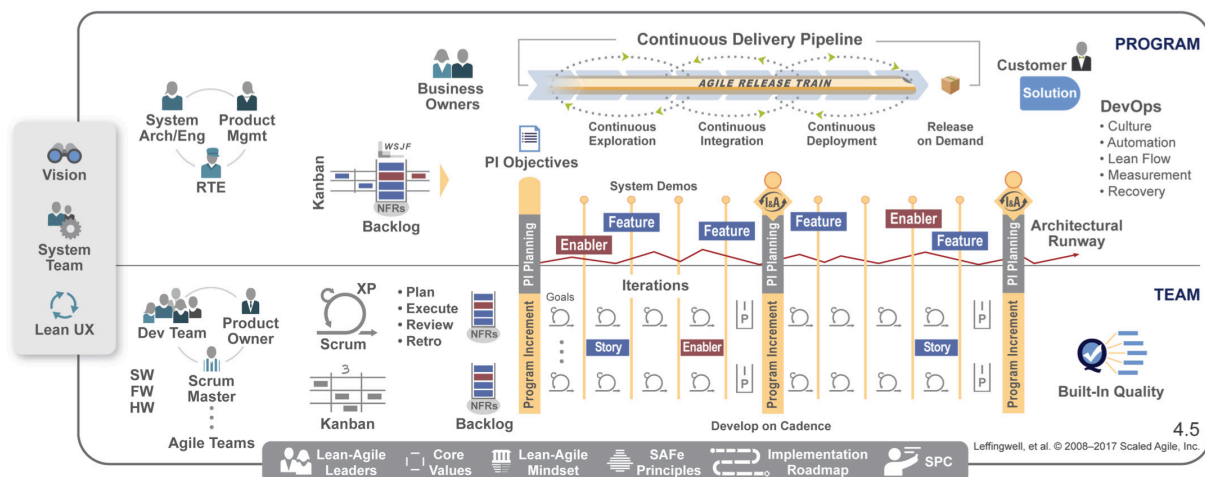
Successful rollout, but still struggling. Root causes:

- ▶ Not doing Inspect & Adapt
- ▶ No Innovation and Planning iteration
- ▶ Individual Agile Teams were not actually cross-functional
- ▶ No routine System Demo

Heard in the field

- ▶ "SAFe is a flexible framework. We've adopted what we liked, but we don't use Agile Release Trains."
- ▶ "SAFe is flexible. We're adopting it, but we've decided not to affect the way the teams are working. So we didn't include the teams in training."
- ▶ "Our leaders don't have time for training."

Start with the basics of Essential SAFe ...



Apply the ten Essential SAFe elements

- | | |
|-------------------------------|--------------------------|
| 1 SAFe Lean-Agile Principles | 6 System Demo |
| 2 Real Agile Teams and Trains | 7 Inspect & Adapt |
| 3 Cadence and Synchronization | 8 IP Iteration |
| 4 PI Planning | 9 Architectural Runway |
| 5 DevOps and Releasability | 10 Lean-Agile Leadership |

1 Anchor the transformation with Lean-Agile Principles

- #1-Take an economic view
- #2-Apply systems thinking
- #3-Assume variability; preserve options
- #4-Build incrementally with fast, integrated learning cycles
- #5-Base milestones on objective evaluation of working systems
- #6-Visualize and limit WIP, reduce batch sizes, and manage queue lengths
- #7-Apply cadence, synchronize with cross-domain planning
- #8-Unlock the intrinsic motivation of knowledge workers
- #9-Decentralize decision-making

Without a shared understanding of principles ...



- ☐ There is no systematic way to adapt practices to local context
- ☐ Business outcomes do not significantly improve
- ☐ Practices and measures that were once beneficial become problematic
- ☐ Lean-Agile Mindset is unachievable
- ☐ Conflict and disagreement on processes and practices are difficult to resolve



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2 Implement Real Agile Teams and Trains

Cross-functional Agile Teams and trains work towards a common mission and operate with architectural and Lean UX guidance.

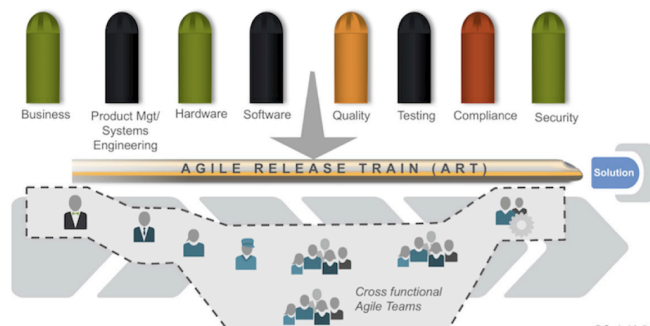


Agile Team

Agile Teams power the train:

Cross-functional teams apply Scrum, XP and Kanban and Built-in Quality practices to produce working system increments every iteration.

Agile Release Trains (ARTs) apply systems thinking and build a cross-functional organization optimized to facilitate the flow of value from idea to release.



Critical Agile Team roles

Well defined roles empower teams and trains.



Scrum Master facilitates team events, drives Agile behavior, and coaches the team



Product Owner acts as the customer for the team and prioritizes their work. Defines and accepts stories.



Development Team is everyone needed to define, build, and test an increment of value

Critical ART roles



Release Train Engineer acts as the chief Scrum Master for the train



Product Management is responsible for customer needs. Owns the vision and product backlog, prioritizes features for the best economic outcome



System Architect/Engineering align ARTs to a common technological and architectural vision



Customer consumes the work of an ART. They are the ultimate deciders of value



Business Owners are a small group of stakeholders who have financial, governance, fitness for purpose and ROI responsibility

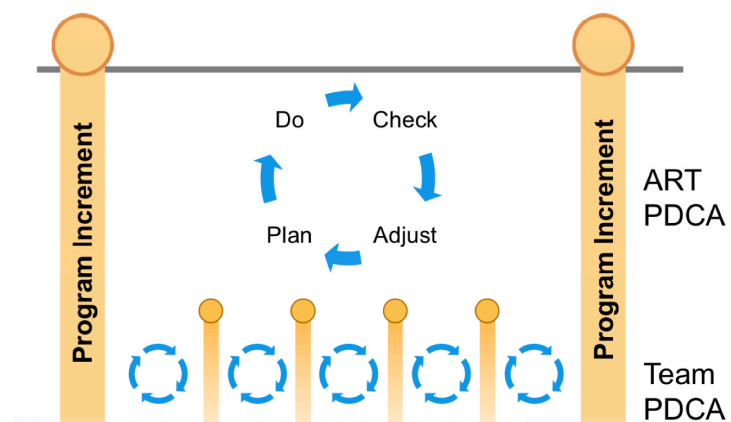
Without Real Agile Teams and Trains ...



- ☐ Responsibilities are unclear; delayed decision-making
- ☐ The skills needed to define, build, test and deliver value are not fully present and accountable. Over-specialization and bottlenecks inhibit flow.
- ☐ Teams locally optimize and can't deliver end-to-end value
- ☐ No architectural and user experience integrity; solution features and components evolve incompatibly
- ☐ Vision and requirements are not clear and prioritization is extremely difficult

3 Apply Cadence and Synchronization

Cadence
<ul style="list-style-type: none">Transforms unpredictable events into predictable eventsMakes wait times predictableFacilitates planning; provides more efficient use of resources
Synchronization
<ul style="list-style-type: none">Synchronization causes multiple events to happen at the same timeSync events facilitate cross-functional tradeoffs of people and scope



Without Cadence and Synchronization ...



- ☐ No development rhythm
- ☐ Gradual decline into disorder and lack of predictability
- ☐ It's hard to schedule planning, retrospectives, demos and other key events
- ☐ Difficult to adjusting to changing priorities
- ☐ Teams are constantly overloaded

4 Create alignment with PI Planning

No event is more powerful than PI planning. It's the magic in SAFe—the alignment and energy created in just two days saves months of delays.

- ▶ All stakeholders face-to-face, whenever possible
- ▶ Management sets the mission with minimum possible constraints
- ▶ Important stakeholder decisions are made immediately
- ▶ Requirements and design emerge
- ▶ Teams create and take responsibility for plans



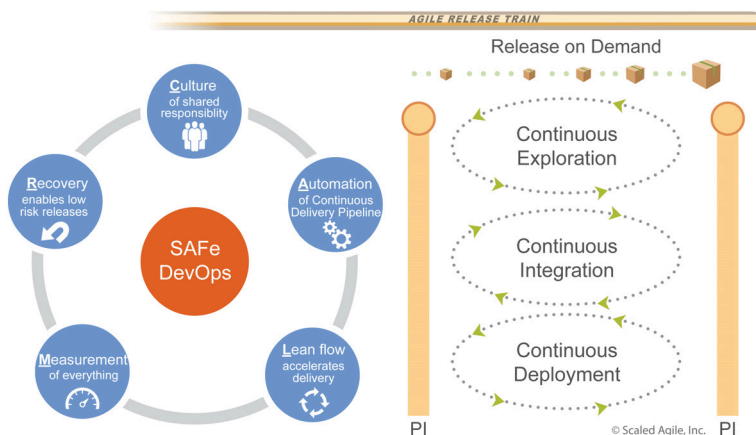
Without PI Planning ...

- ☐ Stakeholders, teams, and management are not aligned
- ☐ Demand doesn't match capacity; no predictability; excess WIP
- ☐ Lack of trust between stakeholders and teams
- ☐ Late discovery of dependencies cause delays
- ☐ Low commitment, ownership, and employee engagement



5 Improve DevOps and Releasability

DevOps improves collaboration and flow between Development and IT Operations with a continuous delivery pipeline.



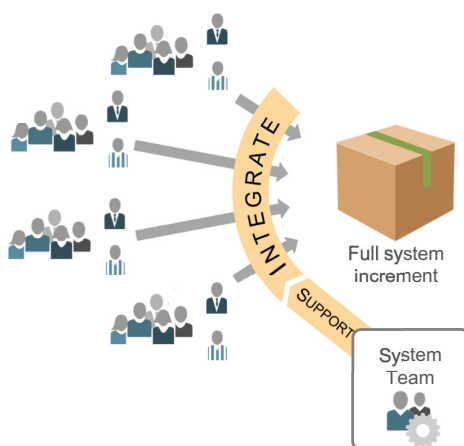
Without DevOps and Releasability...



- ☐ Value delivery is seriously delayed
- ☐ Reduced quality of deployments and high production defects
- ☐ More frequent releases are not possible, increasing time to market
- ☐ Large batches of code are pushed to production, resulting in production errors, and emergencies
- ☐ Friction between development and operations limits collaboration, learning, and cultural change

6 Get fast feedback with the System Demo

Demonstrate the full system increment to stakeholders every iteration



- ▶ Features are either functionally complete or 'toggled off'
- ▶ New features work together, and with existing functionality
- ▶ Demo from a production-like staging environment



Producing a System Demo requires Built-in Quality

“You can’t scale crappy code” (or hardware, or anything else)

Built-in Quality:

- ▶ Ensures that every increment of the solution reflects quality standards
- ▶ Enables high velocity and a sustainable development pace
- ▶ Software practices include continuous integration, test-first, refactoring, pair-work, collective ownership, and more
- ▶ Hardware practices include exploratory iterations, frequent system integration, design verification, model-based systems engineering, and set-based design



Built-in
Quality

Without the System Demo ...

- ☐ Teams are ‘sprinting’, but the system is not
- ☐ Chronic lack of trust between stakeholders and teams
- ☐ Lack of feedback to iterate to the right solution
- ☐ False progress and poor quality
- ☐ ‘Waterfalled PIs’—problems and risks are discovered too late



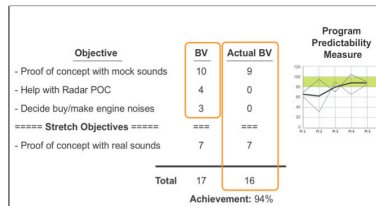
7 Relentlessly improve with Inspect & Adapt

Inspect & Adapt (I&A) supports systematic review of PI outcomes and continuous improvement.

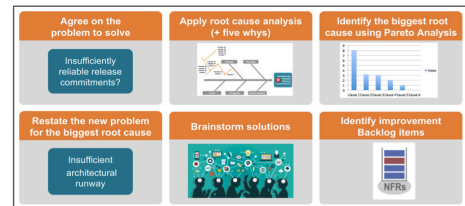
PI System Demo



Quantitative measurement



Problem-Solving Workshop



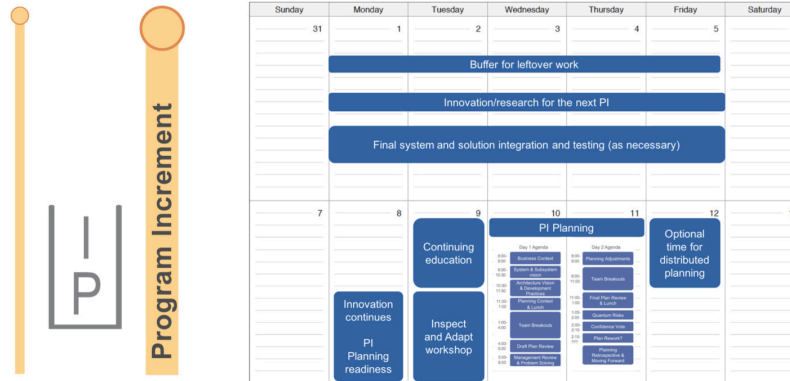
Without Inspect & Adapt ...

- ☐ No systemic improvement; problems persist
- ☐ No means to measure or establish delivery predictability
- ☐ Improvement efforts address symptoms, not root causes
- ☐ Leaders who could change the system are not engaged
- ☐ Low morale



8 Dedicate time for Innovation and Planning

The IP Iteration provides an estimating buffer for meeting PI objectives, and dedicated time for innovation, education, PI planning and I&A events.



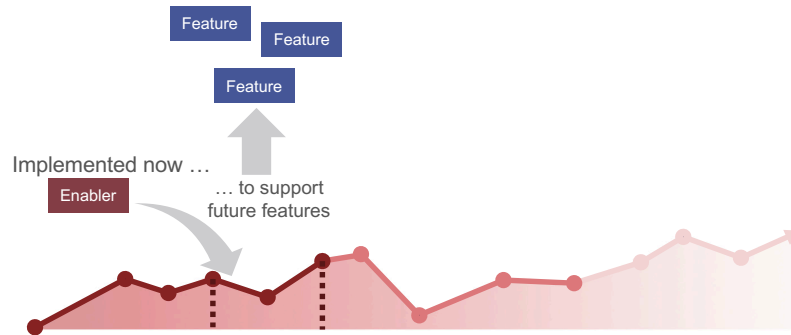
Without the IP Iteration ...

- ☐ Lack of estimating buffer and poor predictability
- ☐ 'Tyranny of the urgent' iteration inhibits innovation
- ☐ Technical debt grows uncontrollably
- ☐ Lots of overtime and people burn out
- ☐ No time for teams to plan together, demo together, and improve together



9 Enable fast feature delivery with Architectural Runway

Architectural runway provide 'just enough' technical enablement to keep velocity high and avoid excessive redesign and delays.



Without Architectural Runway ...

- ☐ Architecture progressively decays under the 'urgency of now'
- ☐ Velocity peaks for a while, then falls off
- ☐ Infrequent and irregular releases
- ☐ Solution robustness, maintainability, and quality decay
- ☐ Unsustainable development pace



10 Lead with Lean-Agile Leadership

Successful transformations are based on educating leadership first.
'Lean-thinking manager-teachers' lead, rather than follow the transformation.



"It is not enough that management commit themselves to quality and productivity ... They must know what it is they must do.

Such a responsibility cannot be delegated."

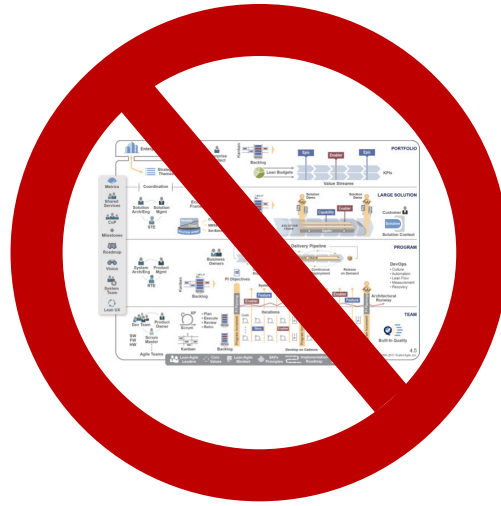
—W. Edwards Deming

Without Lean-Agile Leadership ...

- ☐ Teams cannot learn from their leaders
- ☐ The transformation is fatally impaired
- ☐ Agile development with traditional governance results in 'Agile in name only'
- ☐ Constantly escalating decisions increases lead time
- ☐ People not allowed to experiment, fail, innovate, and learn



One more thing, without Lean-Agile Leadership ...



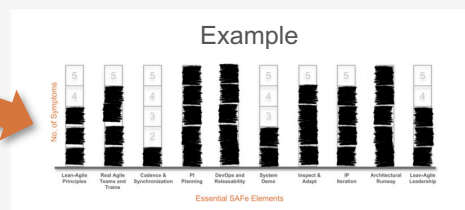
SAFe will not work!

Exercise: Essential SAFe Self-Assessment

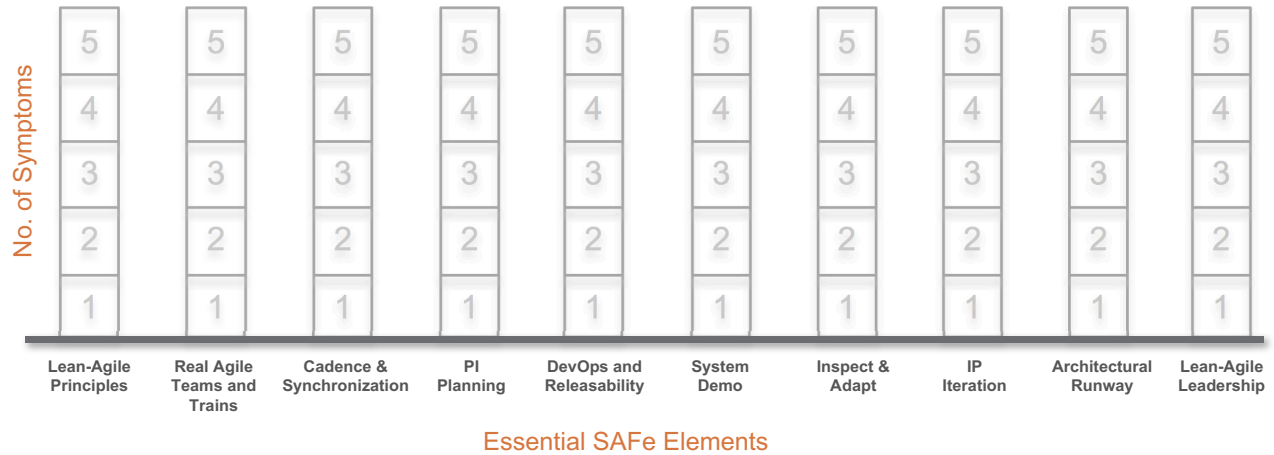
- Fill out the Essential SAFe Self-Assessment on the next page
- Use the previous slides to identify the symptoms that exist in your enterprise
- For each Essential SAFe element, shade one box for every symptom identified

Without a Shared Understanding of Principles ...

- ☒ There is no systematic way to adapt practices to local context
- ☒ Business outcomes do not significantly improve
- ☒ Practices and measures that were once beneficial become problematic
- ☐ Lean-Agile mindset is unachievable; implementation of Agile practices produce serious challenges, as they do not reflect the new way of thinking
- ☐ Conflict and disagreement on processes and practices are difficult to resolve



Essential SAFe Self-Assessment



Questions?