

APPLIED SAFe®
THE NAVIGATION SYSTEM FOR SCALED AGILITY

AT A GLANCE

Building cyber-physical systems is a complex endeavour. There is a growing demand for best practices to address abstract and process differences between systems and software.

Bringing Lean Agile Organizations to Life!

Are you ready to have a digital transformation?
Are you looking to scale agility within your organization?
Do you need to ensure that you are compliant within your processes?

If you answered yes to one or more of these questions, then
Applied SAFe is for you!

With Applied SAFe® you have both the power and the capability to support the growth of your processes. Applied SAFe® has the tools, options, and support to help you achieve your goals, all while staying compliant with the organizations internal, external, and regulated requirements.

"This collaboration demonstrates our commitment to exploring new entry points and approaches to adopt the Scaled Agile Framework®," said Dean Leffingwell, Chief Methodologist and creator of the Scaled Agile Framework. "We are pleased to be working with such outstanding innovators as PEDCO's Peter Pedross and his team. The potential to help ease the way for fully comprehensive SAFe® adoption is enormous."

Dean Leffingwell,
Scaled Agile Inc.



"With PEDCO and SAI we have found exactly the right collaboration partners. The excellent process expertise of the PEDCO team combined with SAI's market leading Scaled Agile Framework® gives our customers a way of integrating agile practices into their current process landscape and become more efficient without having to start from scratch."

Dr. Erich Meier,
Method Park AG

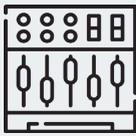


Applied SAFe® is a fully fledged implementation of the Scaled Agile Framework® (SAFe®) as a process model

- Comprehensive process model with roles (incl. RASIC), activities, templates, guidelines, metrics, milestones, tailoring, and phases.
- Built on SAFe® as the 'de facto' Standard for Scaled Agility and the leading Process Management Tool 'Stages' from Method Park. Applied SAFe is supported on Stages 6.6 and 7.4.
- Provides independent instances on Enterprise, Portfolio, Large Solution, Program and Team level.
- Available as a managed Software as a Service (SaaS) or on your private cloud server.
- Includes licensed SAFe® content and templates, in sync with the newest version of SAFe®.
- Extend, customize, adapt, and integrate with your own process assets and SOP's to increase efficiency and eliminate waste.
- Ensures regulatory compliance all while staying agile with SAFe®.

PROVEN BENEFITS

Master Complexity



Have command of your SAFe transformation



Establish compliance to ASPICE, CMMI, IEC62304, and more!

Improve Clarity



Reduce waste by 50%

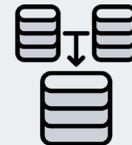


2/3 reduced ramp up time for new hires

Adapt to Your Needs and Improve Continuously



Build a knowledge library - learn as an organization, not as individuals



Smooth consolidation of all existing processes

"It is exciting to see PEDCO's Applied SAFe® come to life as a sophisticated, enterprise-ready solution for organizations wanting to adapt SAFe® to their context and accelerate better business outcomes. We are extremely pleased to be partnering with the outstanding innovators at PEDCO on this important contribution to the SAFe® community. The potential to help ease the way for fully comprehensive SAFe® adoption is enormous."

Michael Stump,
SAFe® Fellow



"Implementing scaled agile organizations in regulated environment always means to define and to track agile processes. Applied SAFe® is a very valuable tool for an agile transition project in such an environment. You need less time and less investment in work to be able to implement a complete agile standard process."

Dr. Thorsten Janning,
KEGON AG
SPCT & SAFe® Fellow



ROLE BENEFITS

Take a look at the various ways Applied SAFe® can benefit you!

Benefits for Senior Management

- Master the complexity of becoming a lean-agile organization and allow people to excel.
- Allow your organization to establish a digital transformation and to grow towards business agility.
- Reduce and eliminate uncertainty and allow your organization to clarify the everyday lean-agile processes.
- Provide clarification for people so they can get straight to work with no doubts on what they need to do.
- Ensure compliance with your internal and external guidelines and standards, while increasing your change and adoption speed.
- Become a real learning organization and establish relentless improvement with our built-in and seamlessly integrated knowledge management processes and systems.
- Adapt to changes in the environment, develop your products, solve problems faster, and benefit from the promises of agile.

Benefits for Quality Managers

- Enhance and quicken the adoption of SAFe® while ensuring a common understanding of what SAFe® is.
- Stay in sync with the latest development of SAFe® and focus on focus on what is most important, your processes.
- Extend the platform with your already existing and proven processes.
- Customize your processes with built in tailoring and allow your teams the freedom to tailor to their specific needs within your control.
- Ensure that your organization is using the right ALM tools for the right activities.
- Understand your team's & organization's health by seeing both qualitative & quantitative metrics.
- Ensure that feedback cycles and improvements from the various levels are taken into account and lead to a structured improvement of process assets.
- Rely on an implementation of the framework which is approved by Scaled Agile Inc. with each new version of SAFe® as well.

Benefits for Team Members

- Get to work right away and avoid discussing what each process means and who is involved over and over again. With Applied SAFe® you are able to get clear guidance in your daily work.
- Rely on the common language used within your organization.
- Tailor your own processes and get relevant content with clear guidance on what you need to do.
- Work with specific processes that really reflect your needs by instantiating at each level.
- Don't worry about compliance, just follow the processes and you will naturally be compliant. We take away the burden of compliance from you.
- Choose your own practices and rely on guidance to your specific ALM tools.
- Most importantly, have fun and be successful all while following SAFe®!

Interested in learning more about the benefits for a specific role?

Contact us at appliedsafe@pedco.eu

"For industries like Automotive you can imagine that it's difficult to start an agile transformation process. However, by using Applied SAFE® in our organization we are able to prove that our work in development meets all regulatory requirements and that we are compliant within all our processes while working in an agile manner."

Jacob P.,
Automotive Industry



"When we discovered Applied SAFE® we were relieved! This solution makes it possible for us to adopt SAFE® to deal with the complexity within our organization, even though it's regulated and has compliance challenges. This platform helps our organization reduce waste and do what is really needed, which allows us to have lean processes so we can bring our product to market."

Daniela J.,
Medical Device Industry

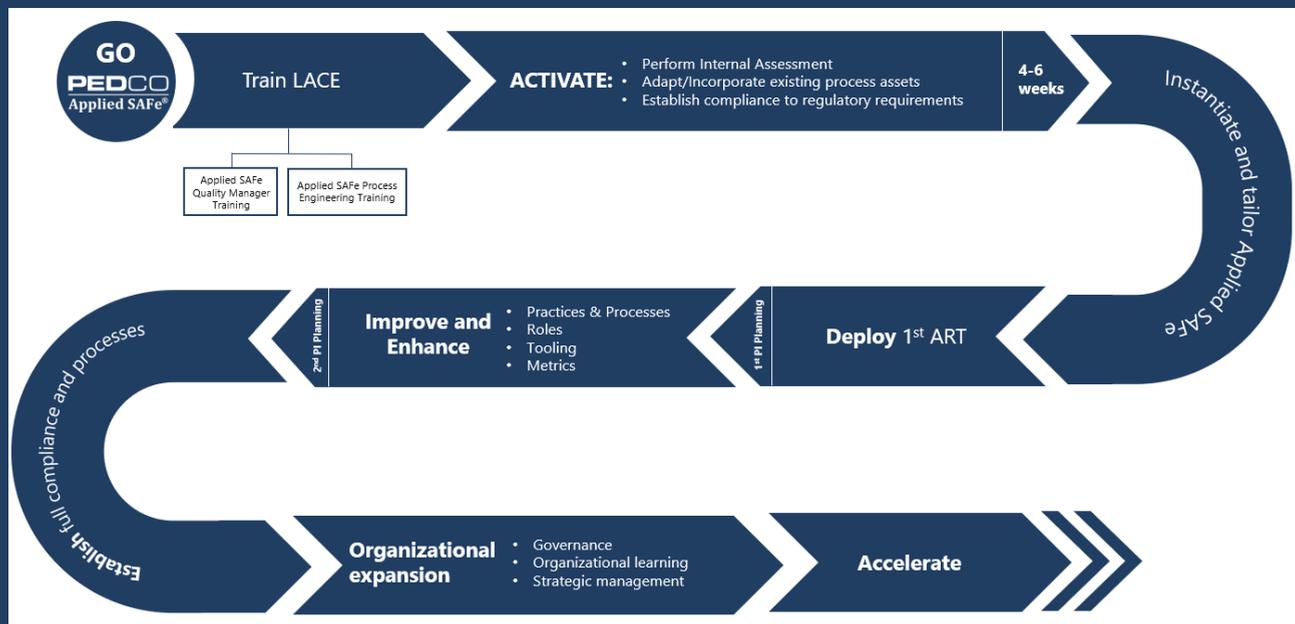


"We had many challenges when we started implementing SAFE® within our organization and this is why we were excited when we came across Applied SAFE®. We received a lot of insight from PEDCO given their experience in the finance industry. We noticed that team members asked for less clarification about the framework because they were able to gain that insight directly in the platform."

Michael K.,
Finance Industry



Implementation Roadmap for Applied SAFE



ESTABLISH COMPLIANCE

With Applied SAFe®, we combine compliance and efficiency in order to scale agility on an enterprise level.

WE SOLVE YOUR COMPLIANCE CHALLENGES!

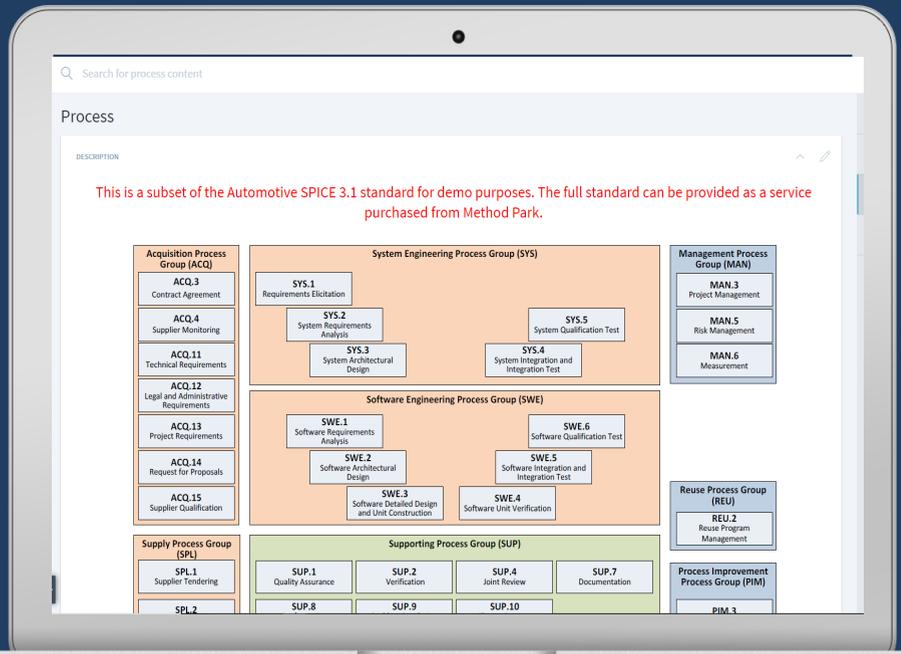
Organizations must demonstrate that their system meets its intended purpose and has no unintended consequences that might cause harm.

- Establish compliance to CMMI, Automotive SPICE, IEC 62304, FDA, FAA, ISO 26262, FFIEC, and more!
- Increase the efficiency of your processes, while clearly proving adherence to regulations.
- Have an immediate and automatic company-wide analysis of independent instances vs. regulations (e.g. Automotive Spice)

REGULATED INDUSTRIES WE WORK WITH



An example of Automotive SPICE as used in Applied SAFe.



Ensure Process Compliance to Specific Regulations (e.g. Automotive SPICE)

...and identify gaps.

Map standard requirements... to defined process assets

Automotive SPICE 3.0

- Practices
 - SYS: System Engineering Process Group
 - SYS.1: Requirements Elicitation
 - SYS.1.BP1: Obtain stakeholder requirements and requests [Outcomes 1, 4]
 - SYS.1.BP2: Understand stakeholder expectations [Outcome 2]
 - SYS.1.BP3: Agree on requirements [Outcome 2]
 - SYS.1.BP4: Establish stakeholder requirements baseline [Outcomes 2, 3]
 - SYS.1.BP5: Manage stakeholder requirements changes [Outcomes 3, 6]
 - SYS.1.BP6: Establish customer-supplier query communication mechanism [Outcome 5]
 - SYS.2: System Requirements Analysis
 - SYS.3: System Architectural Design
 - SYS.4: System Integration and Integration Test
 - SYS.5: System Qualification Test
 - SWE: Software Engineering Process Group
 - SUP: Supporting Process Group
 - MAN: Management Process Group
- Work Products
 - 01-00: Configuration item
 - 04-00: Design
 - 06-00: User documentation
 - 07-00: Measure
 - 08-00: Plan
 - 11-00: Product
 - 13-00: Record
 - 14-00: Register
 - 15-00: Report
 - 16-00: Repository
 - 17-00: Requirement specification
 - 17-02: Build list
 - 17-03: Stakeholder requirements
 - 17-08: Interface requirements specification
 - 17-11: Software requirements specification
 - 17-12: System requirements specification
 - 17-50: Verification Criteria
 - 18-00: Standard
 - 19-00: Strategy

17-03: Stakeholder requirements

- Purpose/objectives defined
- Includes issues/requirements from (contract) reviews
- Identifies any:
 - time schedule/constraints
 - required feature and functional characteristics
 - necessary performance considerations/constraints
 - necessary internal/external interface considerations/constraints
 - required system characteristics/constraints
 - human engineering considerations/constraints
 - security considerations/constraints
 - environmental considerations/constraints
 - operational considerations/constraints
 - maintenance considerations/constraints
 - installation considerations/constraints
 - support considerations/constraints
 - design constraints
 - safety/reliability considerations/constraints
 - quality requirements/expectations

%	Type	Name	ET
50	Work Product	Business Feature	D
50	Work Product	Enabler Feature	D
100	Work Product	Feature	D
50	Work Product	Feature Acceptance Criteria	D
100	Work Product	Program Epic	D
100	Work Product	Program NFR	D
50	Work Product	Solution Context	D

This example is pulled from Applied SAFe Version 6.6,
Ensure compliance with a sustainable mechanism; avoid interpretation games

CUSTOMIZE AND EXTEND

Applied SAFe's architecture and implementation is built to be customizable and extendable in order to reduce your adoption and creation investment.

Assisted & Manual Tailoring

Reduce waste and save money, by using simple and easy to answer questions which you already know from SAFe. By answering these questions, all dependencies for your specific processes are resolved with this.

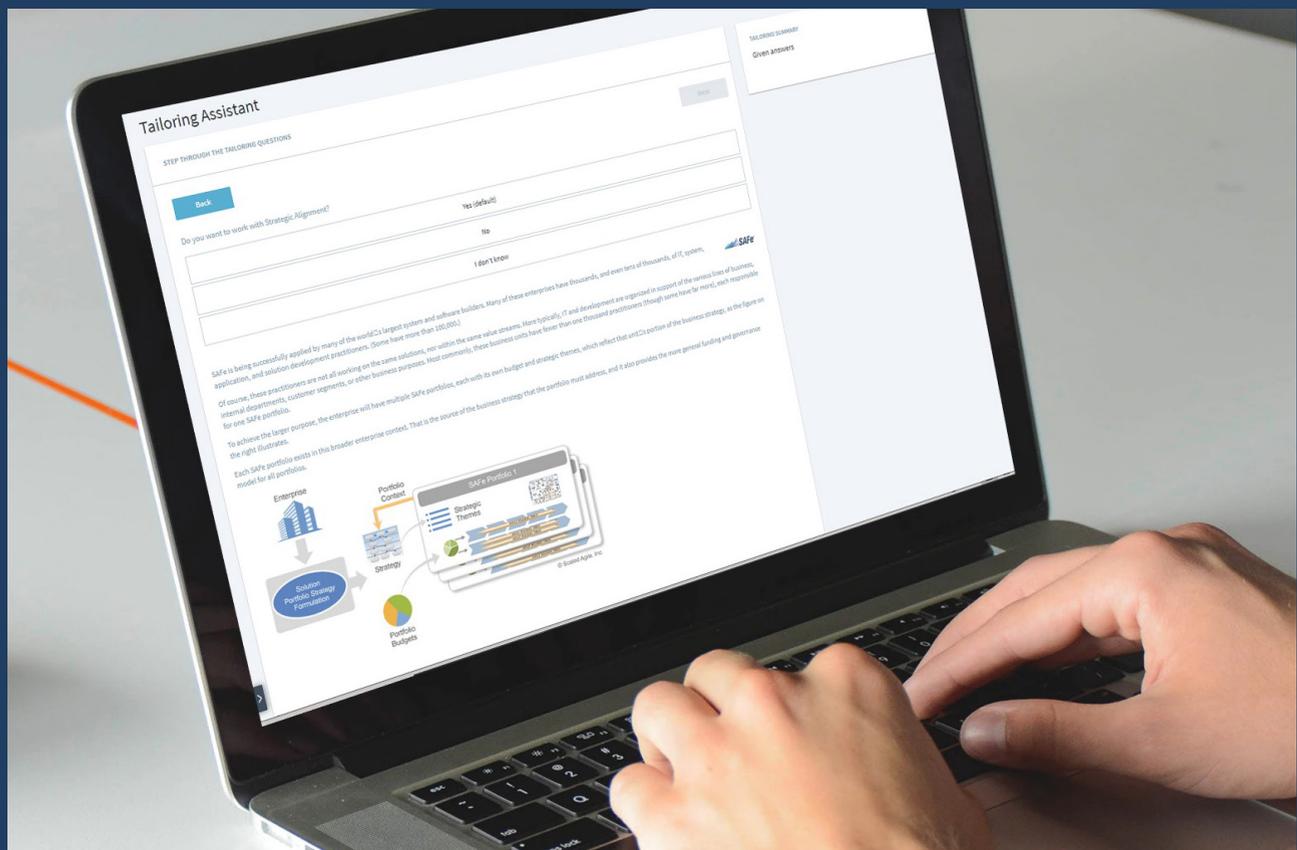
There are more than >440 prebuilt tailoring options to configure and customize each endeavor to your specific needs.

Extend and Integrate Processes

It's common that in larger companies a lot of practices and standard operating procedures already exist.

- Use the included and comprehensive 'Applied SAFe® Process Modeling Guideline' to extend and adapt Applied SAFe® with your company specific processes; save months of work and start adopting the Applied SAFe® to your specific needs.
- Work with SAFe® add-on processes in order to professionally manage your process development, assessment, deployment, and governance.

Applied SAFe® is also capable of making use of various life cycle models. This solution has the advantage to let some teams smoothly adopt Agile, while other teams could choose other life cycles to work with; such as the V-Model, Disciplined Agile Delivery (DAD), iterative or waterfall.



Tailoring assistant in Applied SAFe®

IMPLEMENT FAST & PRECISE

These pages contain screen shots of the actual implementation of Applied SAFe® they serve as testimonials of what the product looks and feels like.

Processes

A process is a logical sequence of related activities to create a performance or a transformation of a work product. The elements are phases, roles, documents, and methods.

They describe:

- What has to be done
- When (in which phases)
- By whom (which roles are involved)
- How (in form of recommended practices)

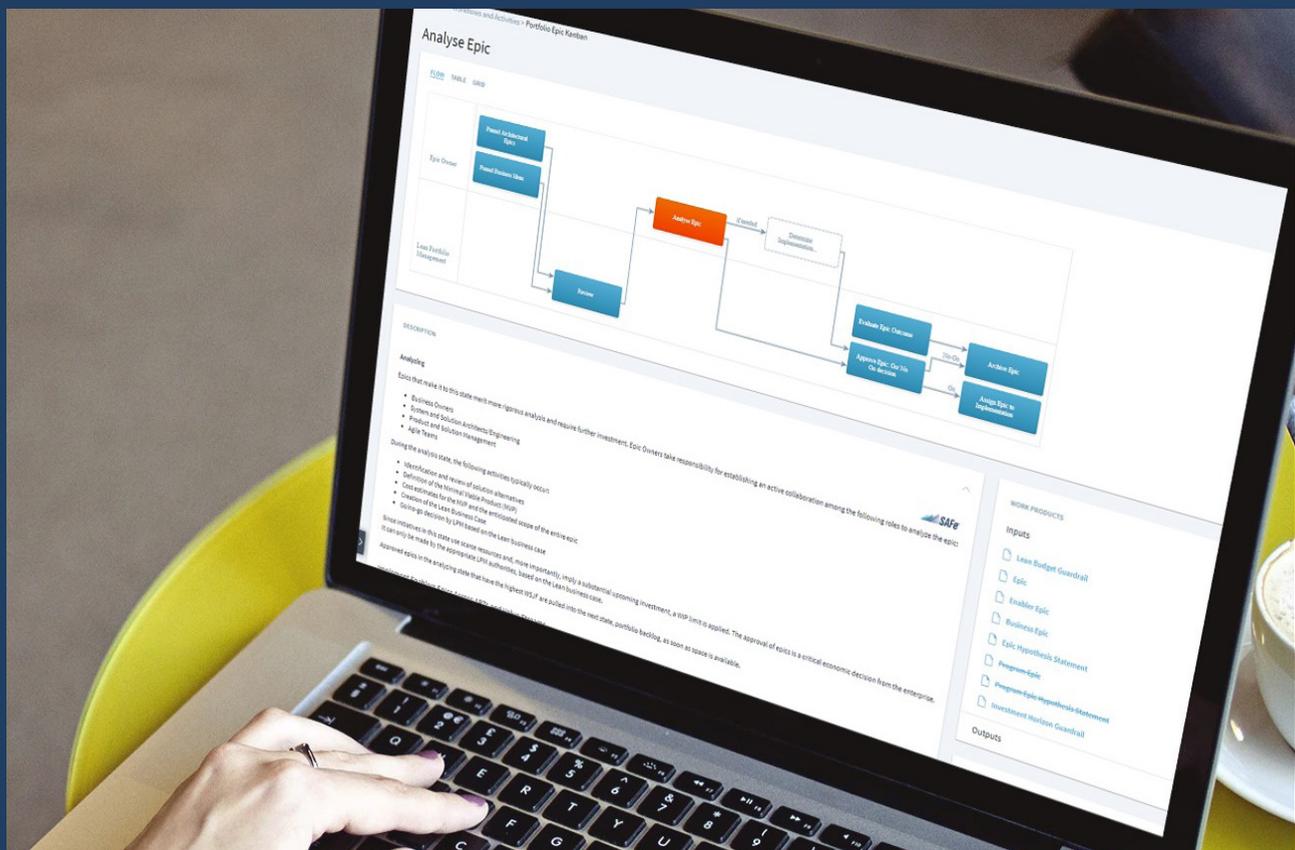
Essential activities are expected to produce the relevant work products as a “happy path” without error handling.

Activities

Activities are the main element for process users; these descriptions have to be understandable and must contain:

- Role with RASIC
- Phase performed
- Predecessor and successor activities
- Input and output work products

Activities do not contain any secondary information like ‘How to...’ this belongs to a practice.

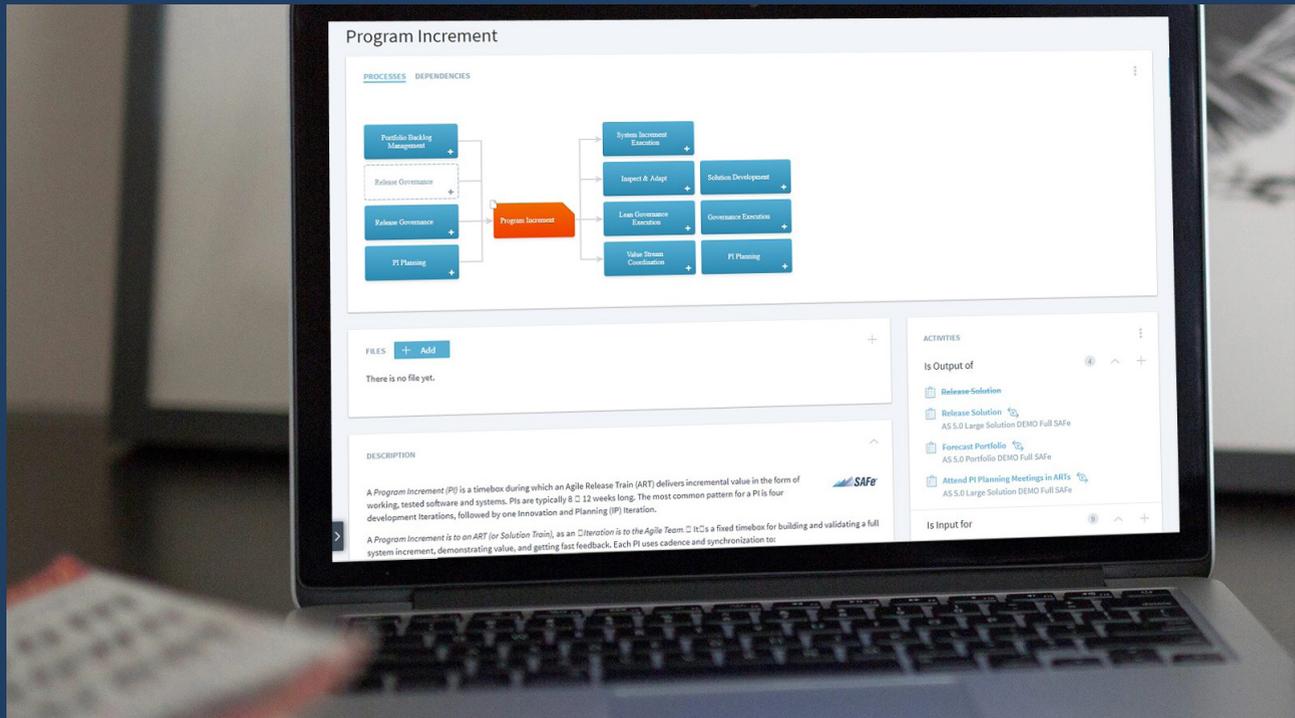


An example of a Solution Kanban process. You will find the description, who is responsible within this process, and the details of what you have to do.

Work Products

Work Products (Documents, Software, Models, etc.) are the work results of the process and its activities.

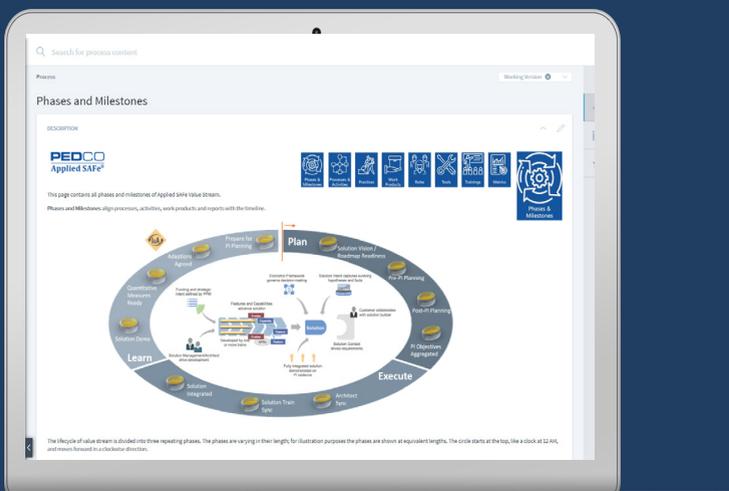
- Each performed activity leads to the creation or revision of at least one work product.
- Work Products define and describe the items needed as input or created as output of one or more activities that are the responsibility of a single role.
- Between the work products, there are dependencies. This means, in order to be able to create a Work Product certain Work Products are required.
- Dependencies between Work Products (WP) will be automatically determined and rendered in the view of a WP.



This page contains the Work Product of a Program Increment. Here you will see the dependencies between Work Products, the structure and its content, and where it is used as input and output in activities.

Phases

Phases divide the process into time sequences. Phases and milestones are time or event-related element types. Their names and numbers are determined by the control needs of the organization and its stakeholders.



The phases of all Applied SAFe® Levels are all designed the same way.

- Each level is divided into three repeating phases, Plan, Execute, and Learn, and they represent a shortened Deming-Circle.
- For a specific point or period of time you will see: relevant reports, contained milestones, executed activities, and roles involved.
- Milestones are designed to be agile milestones.
- Phases are varying in their length; illustration phases are shown with equivalent lengths.
- Circle starts at the top, like a clock at 12 AM and moves clockwise.

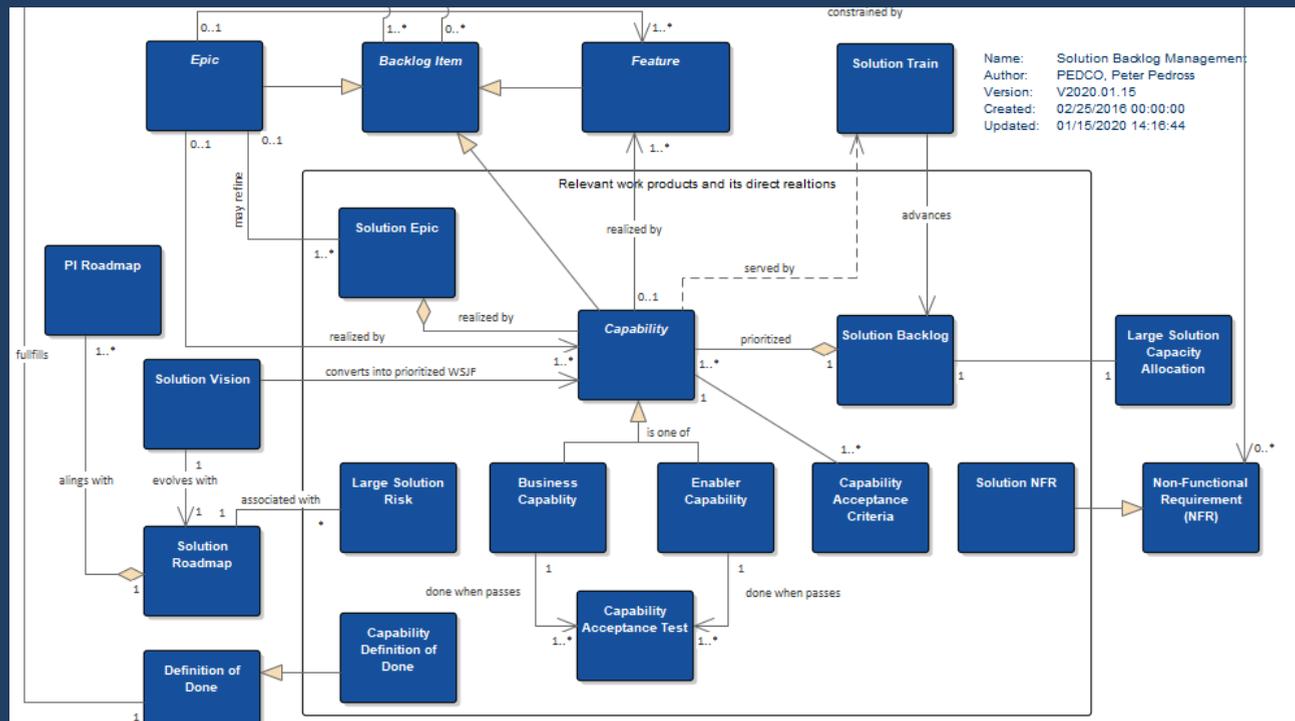
Work Product Models

Applied SAFe® comes with a complete domain model which is unique to Applied SAFe®. Each version is elaborated in sync with future versions of SAFe® and is also officially approved by SAI.

For each process area, we have specific views of the overall domain model in SAFe; each view contains an overview of the Work Products and their direct relations.

Work Product Models:

- Are a great help in order to understand dependencies on a larger scale.
- Ease the navigation between work products and enable another view of the processes and the results.
- Show their relationships, as well as their direct relations outside of the package.
- Are a great help for tool implementations.



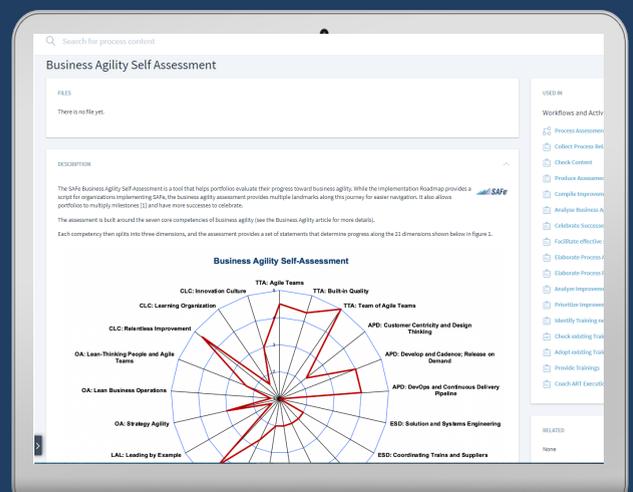
An example of a Solution Backlog Management Work Product in Applied SAFe®.

Metrics

Metrics are the base to control, steer, and improve a specific system. A metric determines an organization's behavior and performance based on certain KPI's. While traditionally many metrics are finance based, inwardly focusing on the performance of the organization, metrics also focus on the performance against customer requirements and value.

We have predefined all SAFe metrics and more in Applied SAFe®.

- It is the intention that metrics are always derived from its original data.
- No data shall be written or produced just to fulfill some metric requirements.
- By defining new metrics, we build on the paradigm of Goal -> Question -> Metric.



Guided Tours

Built-in guided tours help you to get started. We have guided tours for all the new core competencies, as well as for Applied SAFe®.

Guided tours:

- Explain SAFe® from different points of views and add new perspectives on the framework.
- Give clear guidance and explanation on specific topics on one window while showing how it is implemented on another.
- Point you to the relevant content which can be any element of Applied SAFe® at every level of SAFe®.

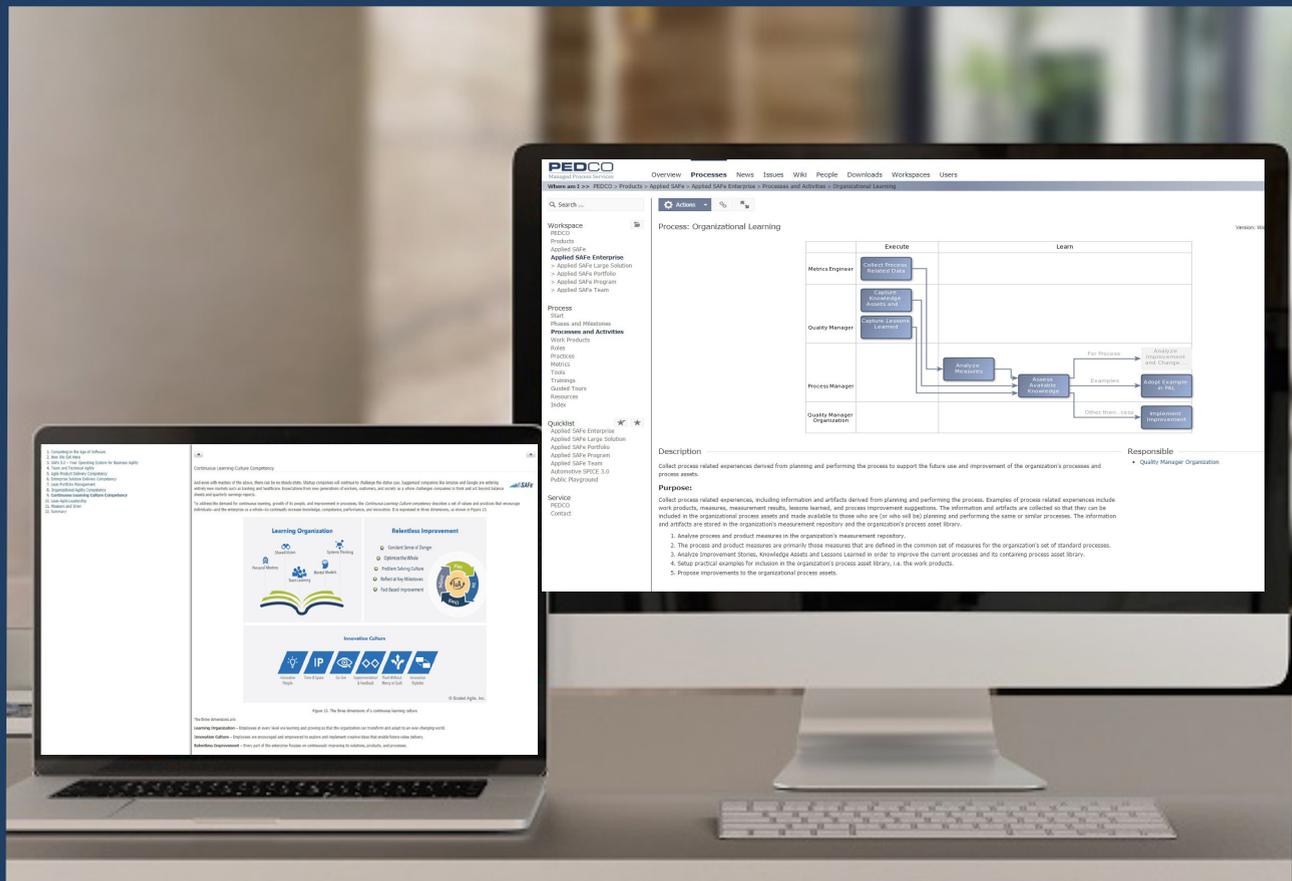
Guided tours are extensible as well and allow companies to establish their own specific learning path.

Practices

While activities tell you what to do, practices describe exactly how something can be done. They give useful hints as well as practical examples. Practices can usually be selected by the performer of the activity.

In addition, a “best” practice can evolve to become better as improvements are discovered and are used to maintain quality.

A best practice is a feature of accredited management standards such as CMMI, ASPICE or ISO 9000 and ISO 14001.



This example is pulled from Applied SAFe Version 6.6. On the left, you will find the guided tour for Business Agility, specifically “Continuous Learning Culture Competency,” which points to the appropriate process on the right screen.

LEARN, INNOVATE, AND IMPROVE

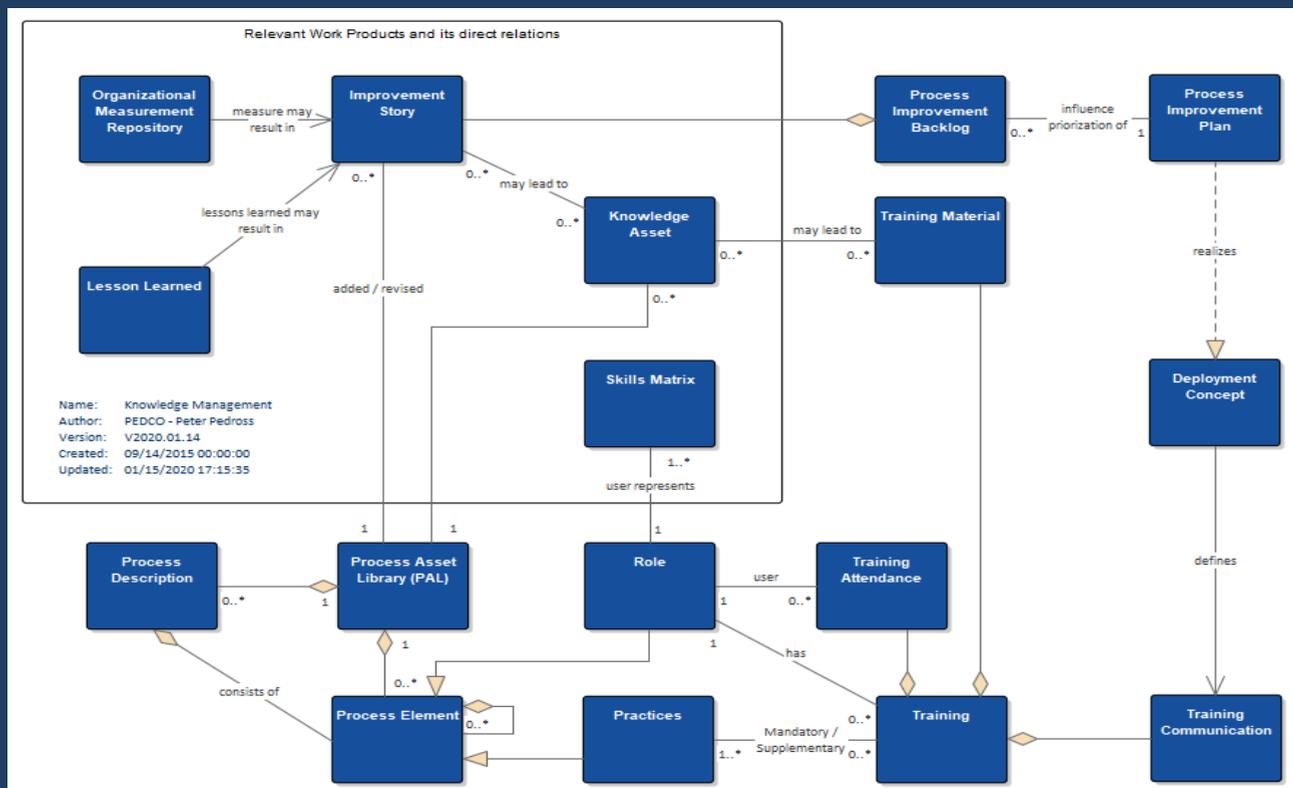
ALLOW YOUR COMPANY TO LEARN AS A SYSTEM, NOT AS INDIVIDUALS.

Collect process related experiences, including information and artifacts derived from planning and performing the process.

Examples of process related experiences include: work products, measures, measurement results, lessons learned, and process improvement suggestions.

The information and artifacts are collected so that they can be included in the organizational process assets and made available to those who are using the processes within your organization.

- Analyze process and product measures in the organization's measurement repository.
- Analyze Improvement Stories, Knowledge Assets, and Lessons Learned in order to improve your current understanding in the organization on what SAFe® means to you.
- Set up practical examples for inclusion in the organization's process asset library, e.g. Work Products.
- Propose improvements to the organizational process.



Exchange Knowledge of Practices with PEDCO

Applied SAFe® offers all customers to incorporate their best practices into Applied SAFe® at no cost:

- Practices will be anonymized in order to be helpful for all users of Applied SAFe®.
- Anonymization and further maintenance will be performed by PEDCO.
- All customers will benefit from the added knowledge in the community.

BENCHMARK WITH THE BEST IN CLASS IN SCALED AGILITY!

GLOBAL PARTNERS

Discover the benefits of working with an Applied SAFe® Partner!

We have over 40 global partners on several continents.

PEDCO's global transformation partners are companies that believe in scaled agility and the power of Applied SAFe® as an implementation of the Scaled Agile Framework®.

- Our partners have a proven track record of successfully transforming organizations towards scaled agility.
- Our partners are trained to apply and coach the capabilities of Applied SAFe® and have developed significant expertise in supporting large enterprises through every phase of a Lean-Agile transformation.
- PEDCO will train you in how to extend and integrate Applied SAFe® into your organizational processes.
- PEDCO will provide the services to extend and integrate Applied SAFe® for customers, if you do not want to do this by yourself.

For the full list of partners please visit: www.pedco.eu/partner-directory.

If you want to become a partner, get in contact with us or visit www.pedco.eu/partner-program.



A few of our Partners at the Applied SAFe Quality Manager Training in Zurich

SUPPORTING SERVICES

MANAGED PROCESS SERVICES

We help your organization in the set-up, selection, operation, and further development of lean and effective processes. One of our core competences is to lead the change to lean and agile methodologies in large organizations, for complex product lines, as well as organizations in regulated environments.

Not running your own process engineering team or want to outsource it? No problem – move those activities into our responsibility.

TRAININGS & WORKSHOPS

Increase your capability in the effective application of scaled agility over the whole enterprise. We focus on leadership trainings based on SAFe® for management, portfolio steering and product line development, and its successful change approach.

PEDCO will train, coach, and support you in learning how to get started and enhance the use of Applied SAFe® as a process model.

The following courses are offered:

- Applied SAFe® Introduction
- Applied SAFe® Deployment
- Applied SAFe® for Quality Management
- Applied SAFe® for Process Engineers
- Applied SAFe® for Metric Engineers
- Applied SAFe® for Practitioner
- Applied SAFe® for High-Assurance Development Package

LEAN-AGILE WORKSHOPS

We offer trainings and workshops on specific topics around lean-agile, such as, Governance, Compliance, Human Resources, Portfolio Management, and Process Engineering.

- Lean-Sustainable Process Engineering Workshop
- Lean-Sustainable Compliance Workshop
- Lean-Agile HR with SAFe® Workshop

For detailed information and actual prices please consult www.appliedSAFe.com/training or get in contact with us at: appliedSAFe@pedco.eu

OUR MISSION

We support enterprises in the efficient and successful implementation of demanding processes.

We help your organization in the set-up, selection, operation, and further development of lean and effective processes.

Our mission is to help system and software-dependent enterprises achieve better business outcomes, increase employee engagement, and improve economics through the application of Lean-Agile principles and practices with Applied SAFe® based on the Scaled Agile Framework® (SAFe®).

Compliance and Efficiency for your Processes



Peter Pedross, Founder

For further information on Applied SAFe® or our services please visit our website www.pedco.eu or get in contact with AppliedSAFe@pedco.eu.

PEDCO – Bringing Lean-Agile Organizations to Life!

PEDCO is a proud collaboration partner of Scaled Agile, Inc. and Method Park.

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PEDCO