

Unlocking new cloud-based business opportunities in an industrial company with a novel Continuous Quality Assurance approach

YOUR PRESENTERS



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A new chapter in the history of Siemens AG

Company setup as of October 1, 2020

Businesses

Digital
Industries



Smart
Infrastructure



Mobility



Siemens
Advanta



Portfolio
Companies



Siemens
Healthineers¹



Countries

Service & Governance

1) Siemens Healthineers with its own setup for Countries and Service & Governance

Siemens Advanta

**WE ENABLE OUR CLIENTS TO
UNLOCK THE DIGITAL FUTURE
BY LEVERAGING OUR ECOSYSTEM**

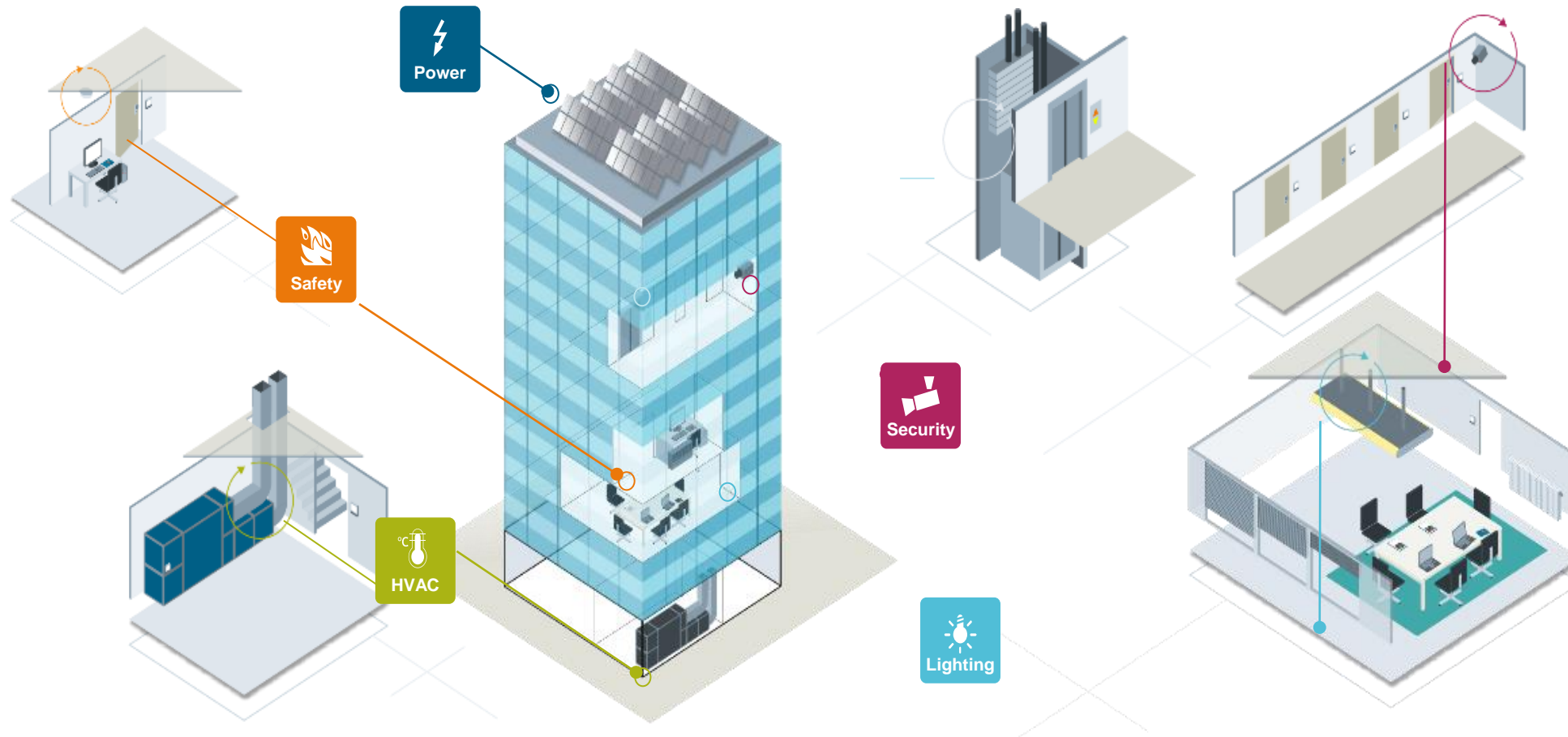


Smart buildings

With the power of data and technology, smart buildings create an ecosystem where they interact, learn, and adapt to changing conditions and needs of different stakeholders along their life cycle.

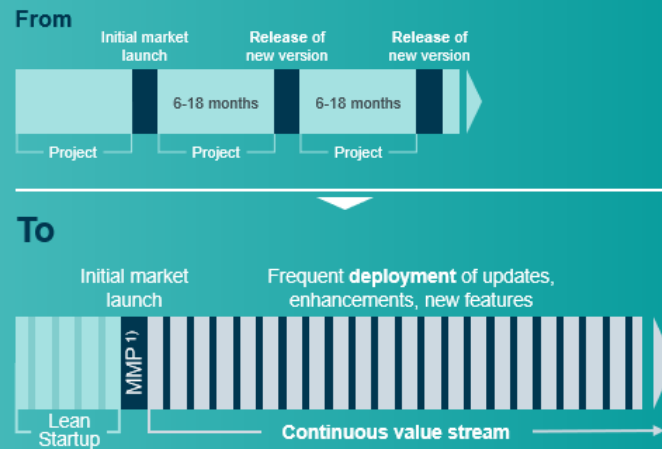
Where would you find our products within a Smart Building?

Building products are in every space...



The need for a Continuous Quality Assurance approach is driven by our vision to provide maximum benefits to our customer

Boost of digital capabilities changes markets and customer offerings radically. Connectivity grows constantly, new cloud solutions emerge, and mobile apps become part of the ecosystem. This opens up tremendous new possibilities, but also triggers an increasing demand of customers for continuous enhancements of products during their lifetime.



1) Minimal Marketable Product

Our vision is an organization that maximally exploits these possibilities by enabling a continuous flow of value to the customer – safely and securely.

Software updates and enhancements are developed, deployed and operationalized time-boxed with a high frequency, allowing short lead times and high flexibility.



Our Continuous Quality Assurance approach provides a transparent, real-time and easy-to-understand view on all quality aspects including technical and formal criteria, enabling fast and reliable deployment decisions with every sprint.

This enables us to master the paradigm shift from a project-based approach to a continuous value stream to the customer, while fulfilling our industrial quality aspiration and regulatory requirements.

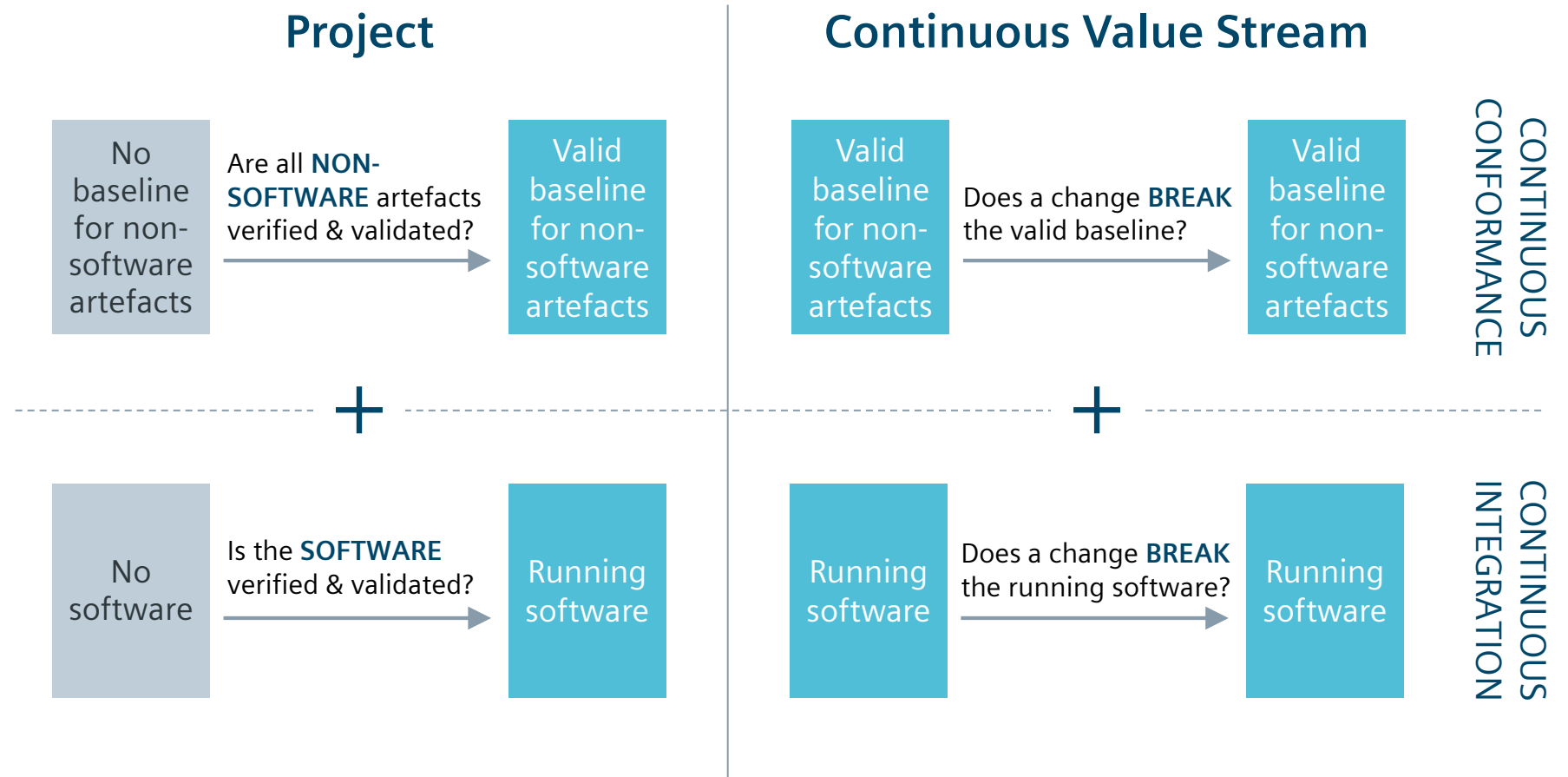
**CONTINUOUS QUALITY
ASSURANCE**

FOR A CONTINUOUS WORLD

GREEN TO GREEN

or
continuous
everything

Applying a successful mantra from software – beyond software



Deploying software requires not only Continuous Integration, but also Continuous Conformance

CONTINUOUS PROGRAM

Ensures DEPLOYMENT INDEPENDENT activities are addressed for the product

CONTINUOUS MARKETING

Ensures MARKETING activities are addressed at appropriate times

CONTINUOUS CONFORMANCE

Ensures the quality of NON-SOFTWARE artefacts

+

CONTINUOUS INTEGRATION

Ensures the quality of the SOFTWARE

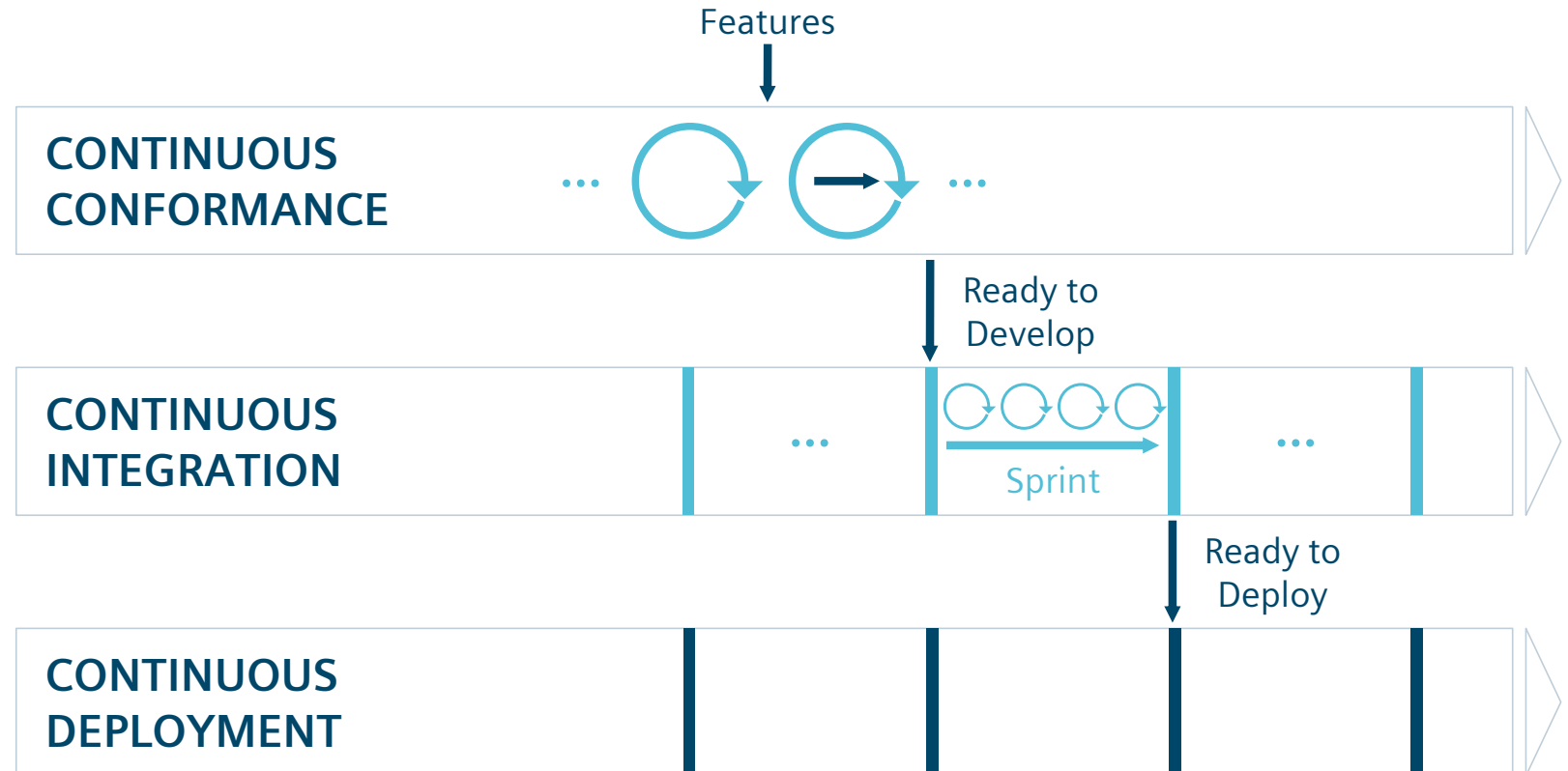
CONTINUOUS
DEPLOYMENT

CONTINUOUS
QUALITY
ASSURANCE

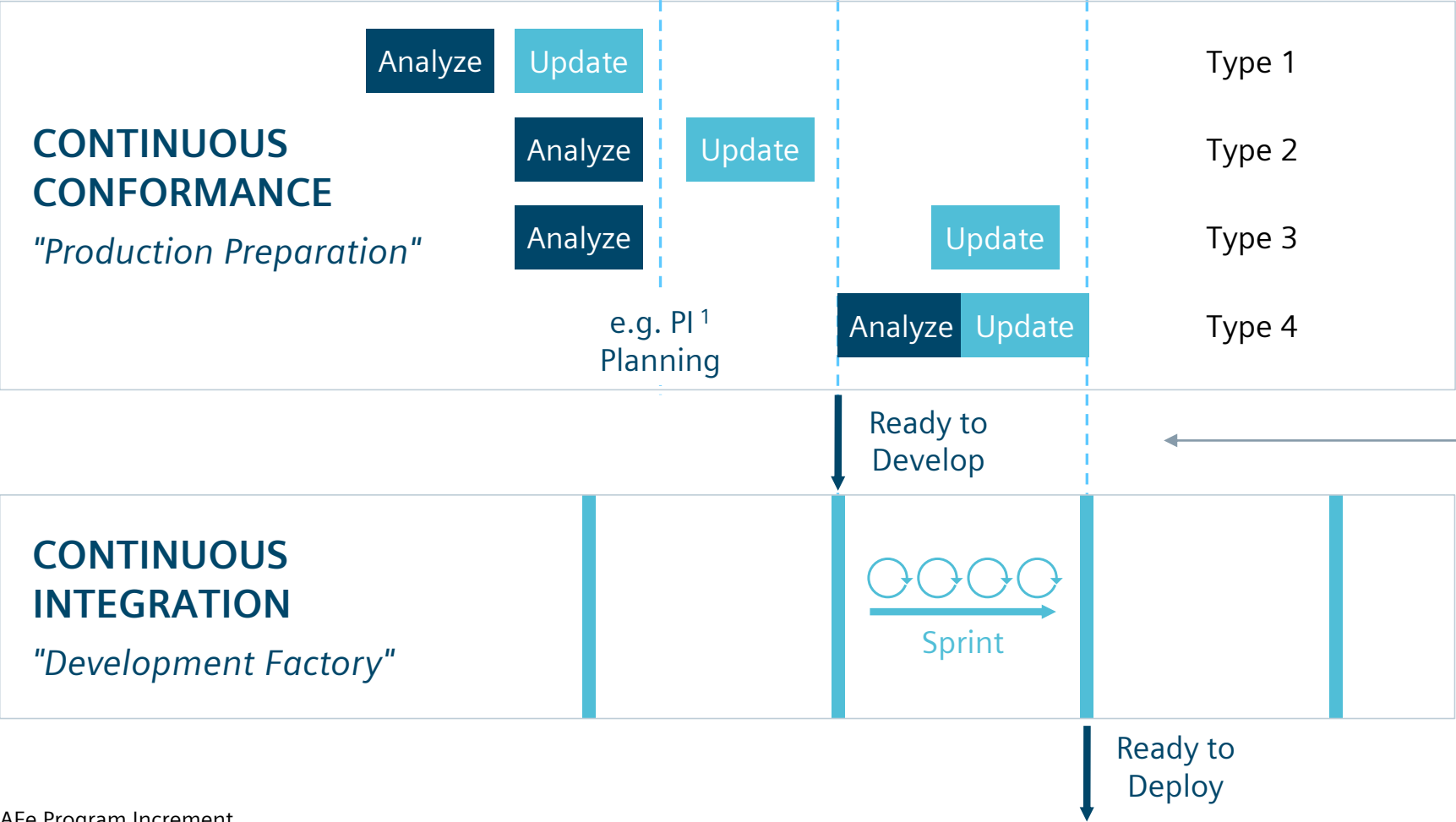
SHIFT LEFT

also
FOR NON-SOFTWARE ASPECTS

Shift Left is a key success factor
for all continuous aspects



Continuous Conformance enables high deployment frequencies, while ensuring industrial quality

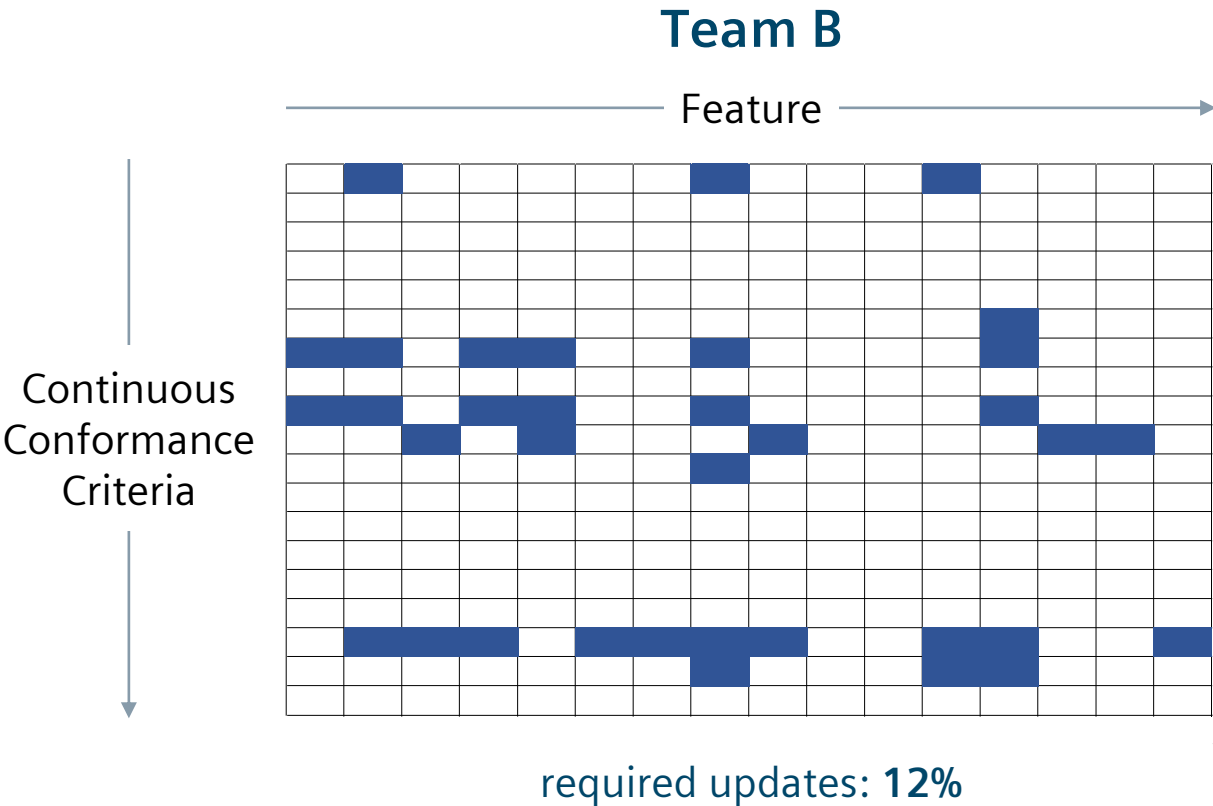
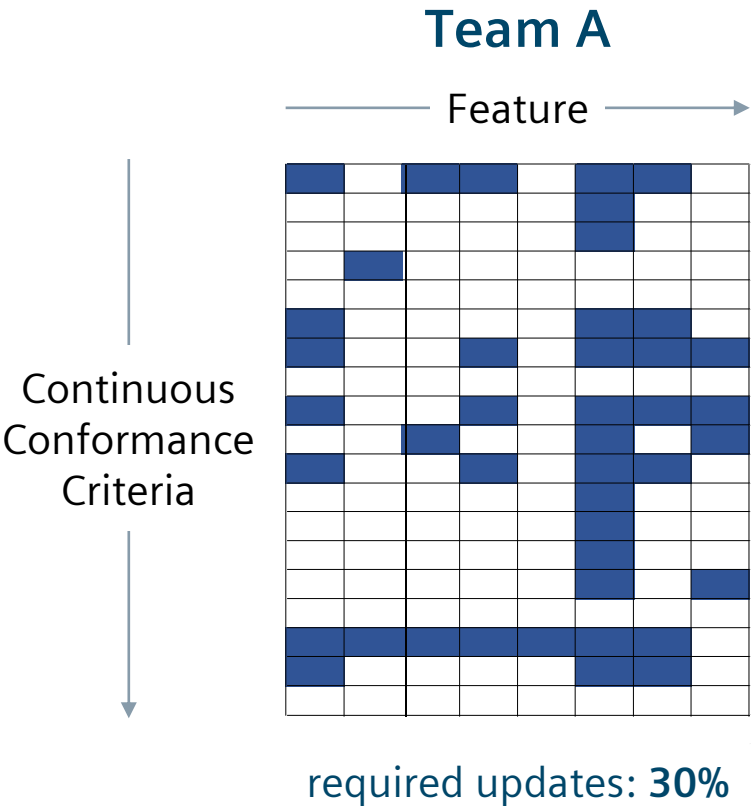


	Analyze	Update
Type 1	✓	✓
Type 2	✓	✓
Type 3	✓	—
Type 4	—	—

1) SAFe Program Increment

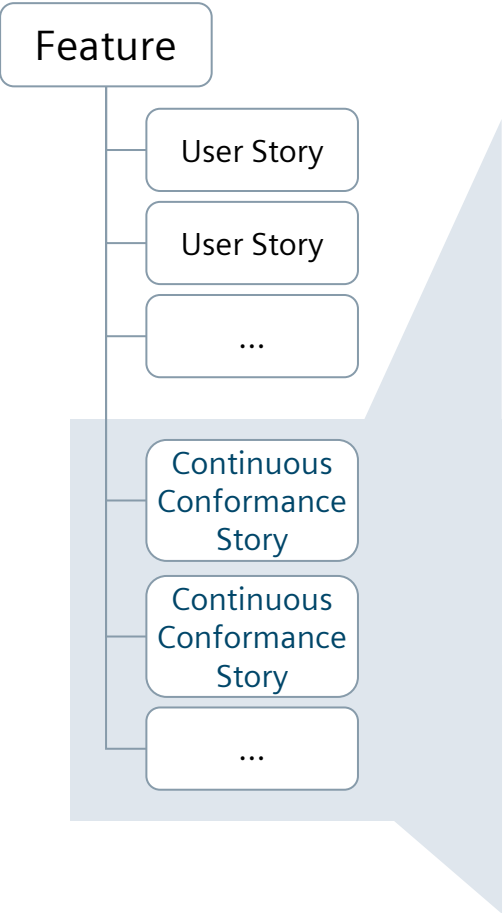
Continuous Conformance is manageable

Example



■ = for this feature the non-software artefact of the Continuous Conformance criteria has to be updated

Management of Continuous Conformance in the standard tool chain is critical for success



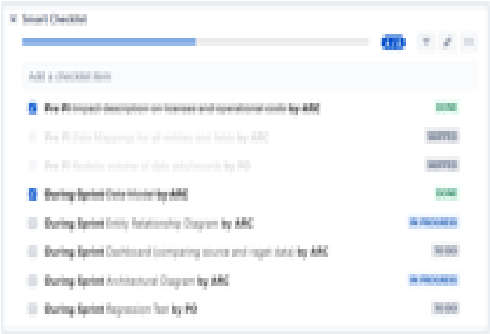
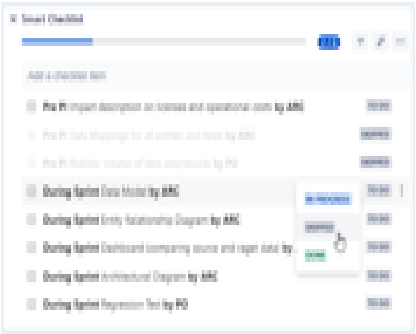
RTC ¹

Analysis

Update & Tracking

JIRA

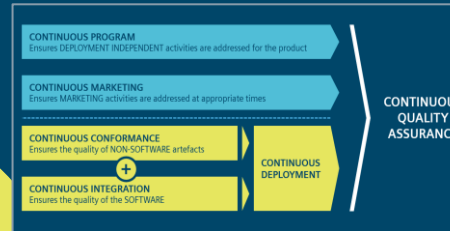
Azure DevOps



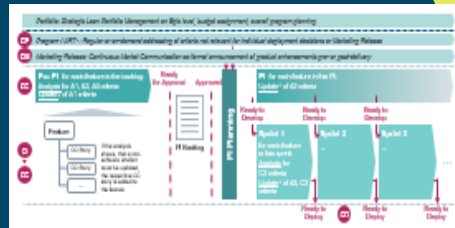
1) IBM Rational Team Concert

Vision
Change Management
Coaching & Roll-Out

Deployment Strategy
Continuous Conformance Criteria
Other Criteria



CONTINUOUS
QUALITY
ASSURANCE



Roles & Responsibilities
Meetings
Processes

Tool Integration
Cont. Conf. & Cont. Int.
Dashboards

SUSTAINABLE
IMPLEMENTATION

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Whitepaper: 'Continuous
Delivery and DevOps in
industrial environments'
<https://sie.ag/whitepaper-devops>