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Siemens Advanta Consulting

Applying DevOps in an Industrial Environment: How to Turn your Milestone Approach into a Continuous Quality Assurance Flow

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[siemens-advanta.com/consulting](https://www.siemens-advanta.com/consulting)

YOUR PRESENTER



Dr. Peter Fassbinder

Principal Expert PLM Process Innovation
Siemens Advanta Consulting

15+ years hands-on experience in Lean / Agile

5 years transforming an industrial company to Continuous Delivery and DevOps

Continuous Delivery & DevOps in Industrial Environments

Agile Scaling | Lean & Agile Leadership

Member of Advisory Board: Enterprise:Code 2020

Chairman: Delivery of Things World 2019, Agile PEP Minds 2019, Enterprise:Code 2020

Multiple keynotes, presentations and papers at international conferences

Certified Scrum Master since 2005 | Certified SAFe Agilist since 2018

DevOps Culture Certified Trainer since 2020

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

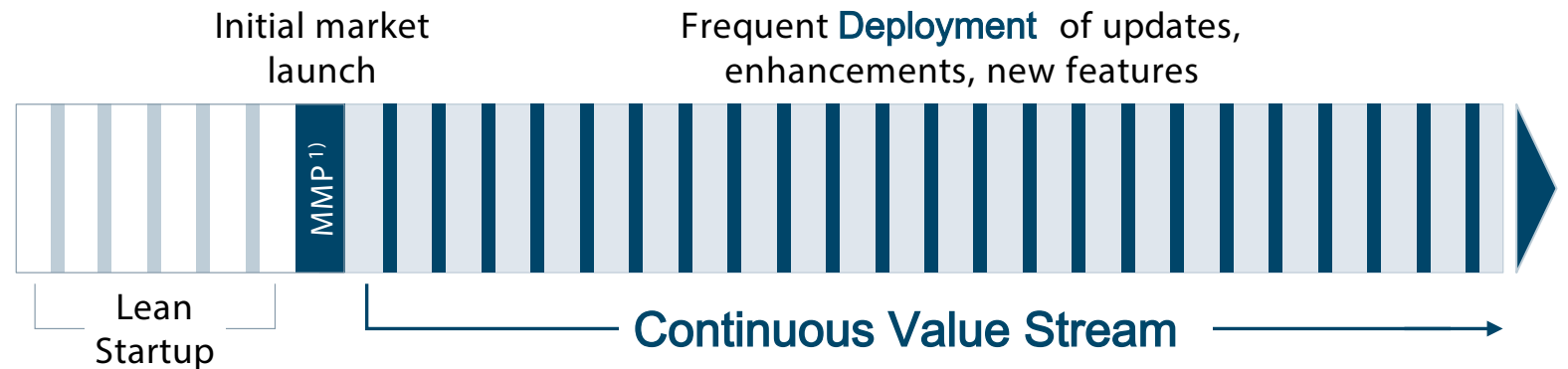
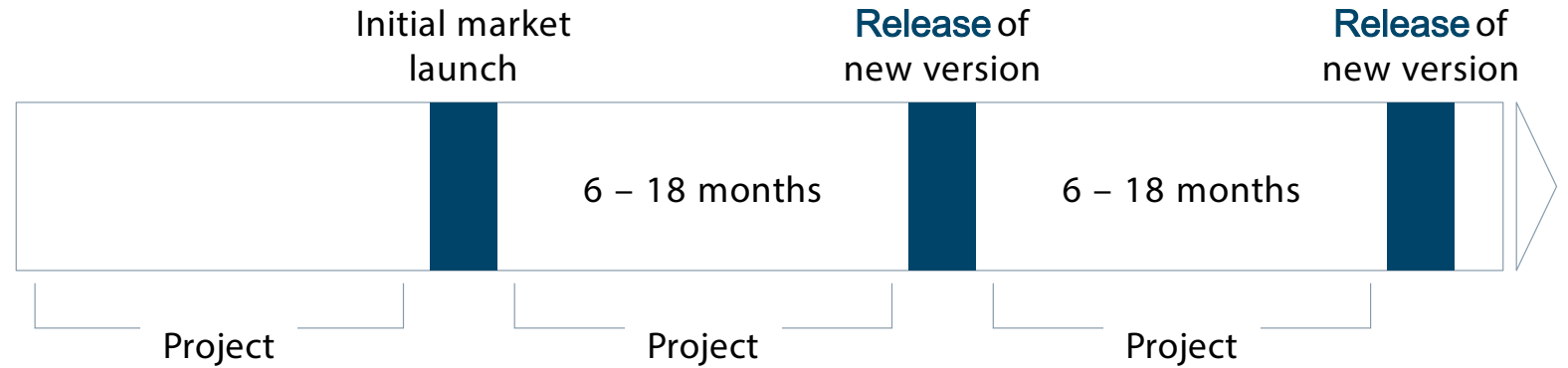
**WE ENABLE OUR CLIENTS TO
UNLOCK THE DIGITAL FUTURE
BY LEVERAGING OUR ECOSYSTEM**

STOP THINKING PROJECTS

**START THINKING
CONTINUOUS VALUE STREAM**

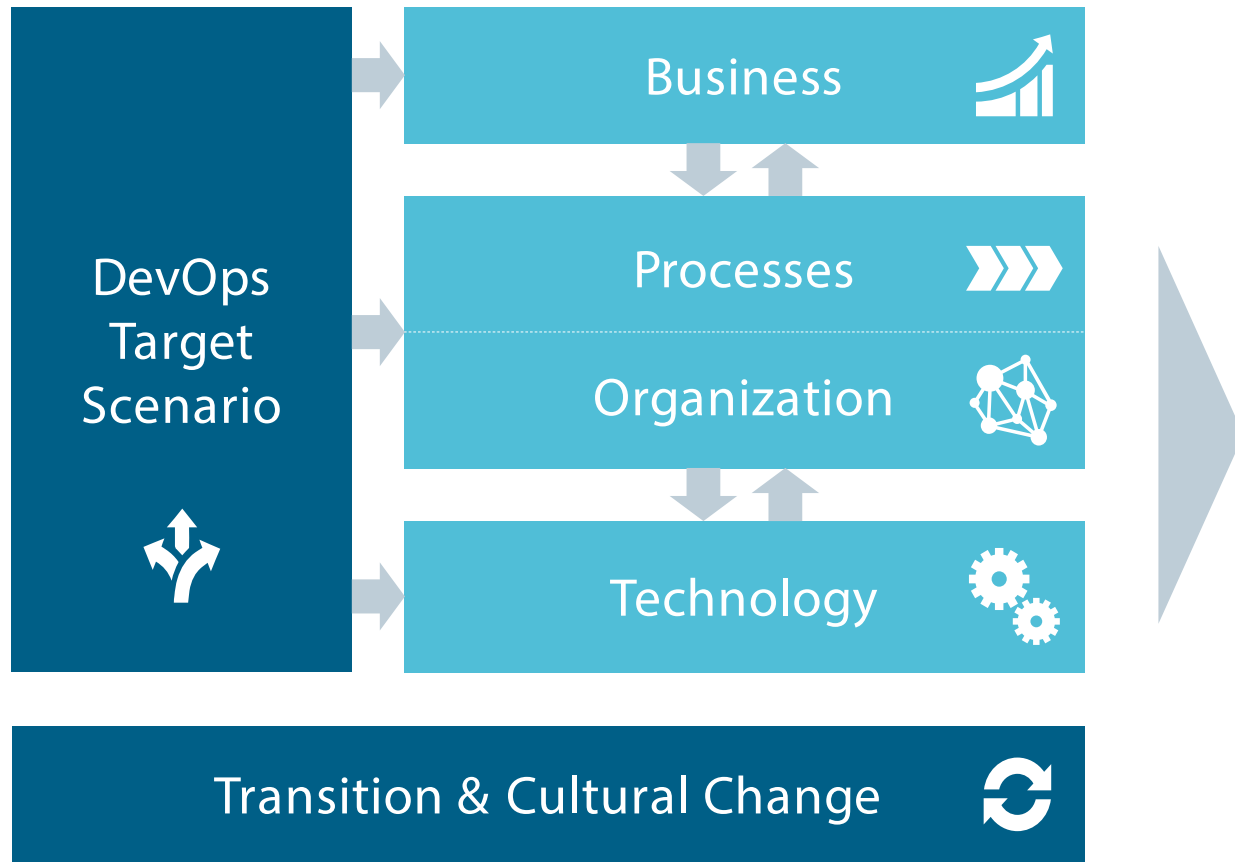
Continuous Deployment implies a shift from projects with discrete releases to a

CONTINUOUS VALUE STREAM TO CUSTOMERS



1) Minimal Marketable Product

Establishing Continuous Delivery and DevOps requires a targeted, organizational transformation



CHANGING
PRODUCT
DEVELOPMENT
FOR A
CHANGING WORLD

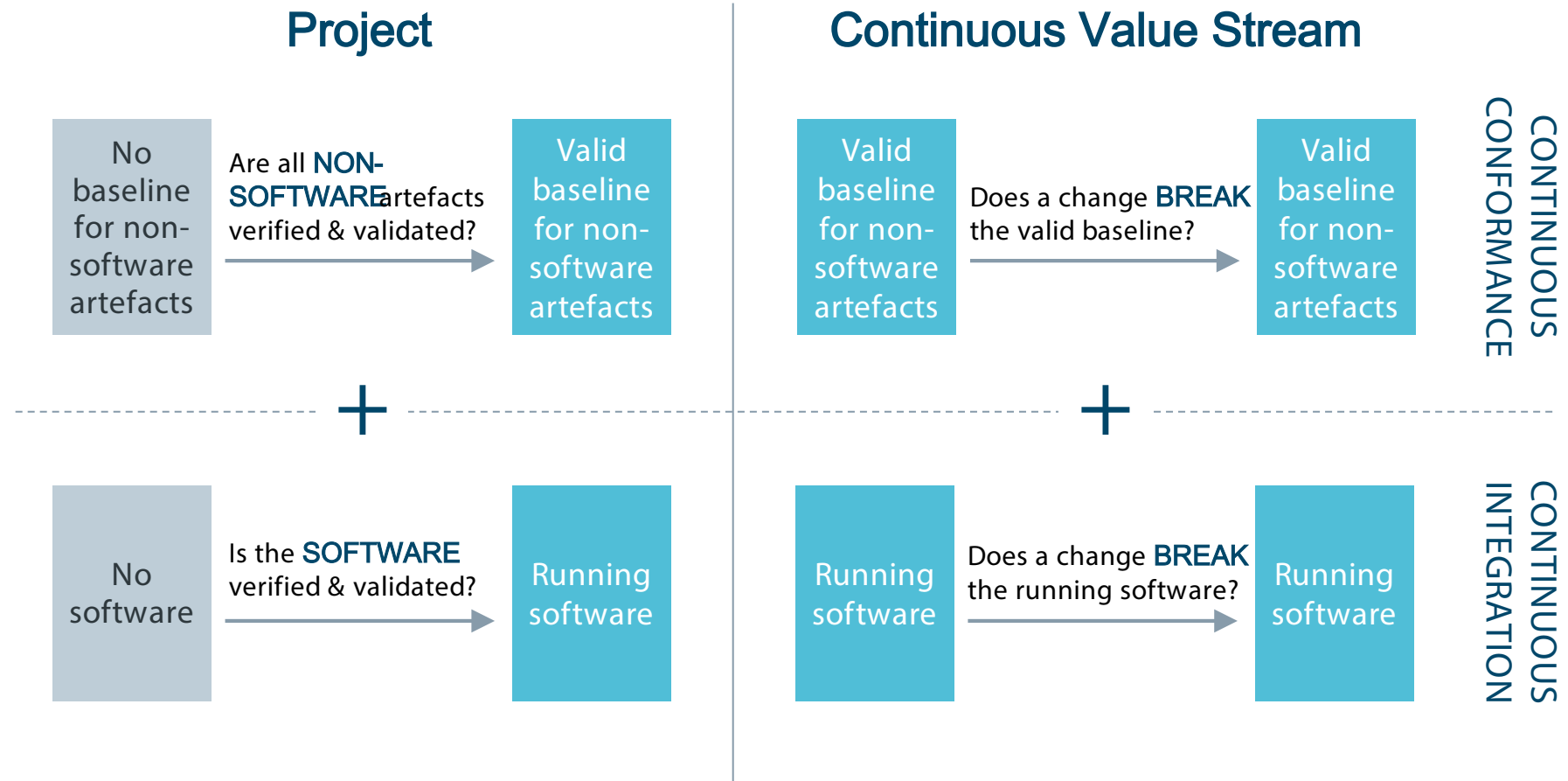
CONTINUOUS QUALITY ASSURANCE

FOR A CONTINUOUS WORLD

Applying a successful mantra from software – beyond software

GREEN TO GREEN

or continuous everything



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

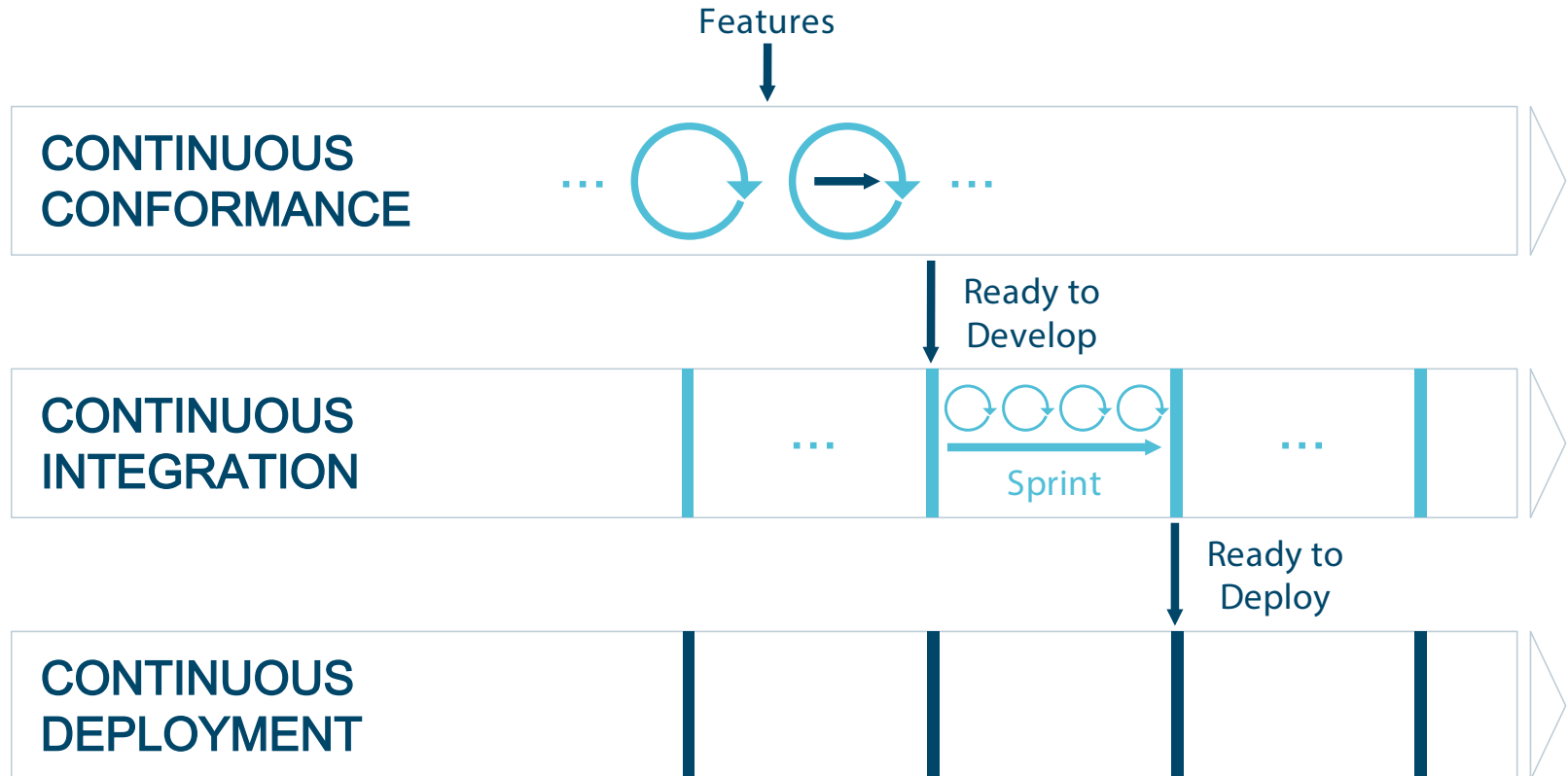
CONTINUOUS
DEPLOYMENT

CONTINUOUS
QUALITY
ASSURANCE

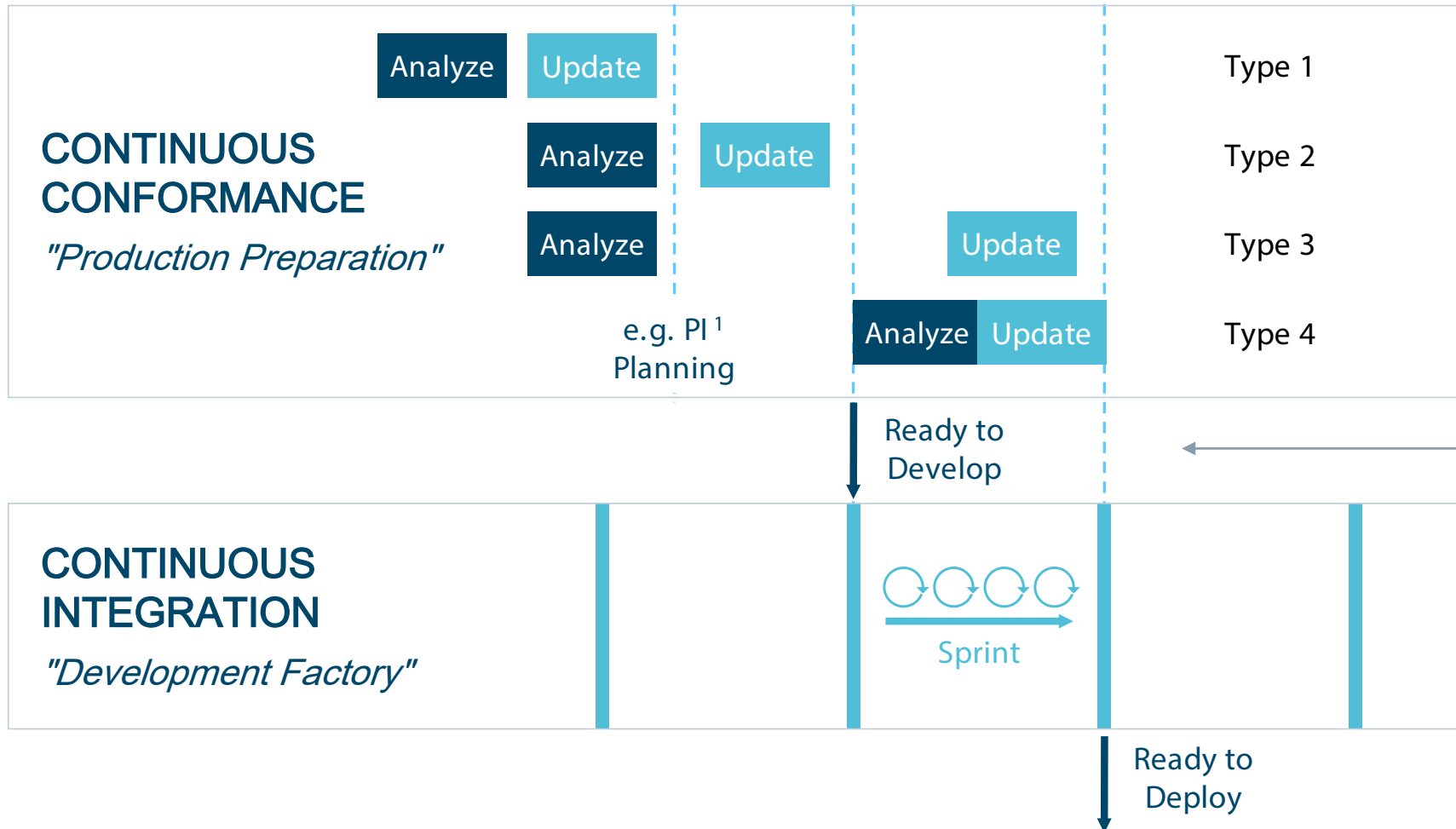
Shift Left is a key success factor
for all continuous aspects

SHIFT LEFT

also
**FOR NON
SOFTWARE
ASPECTS**



Continuous Conformance enables high deployment frequencies, while ensuring industrial quality



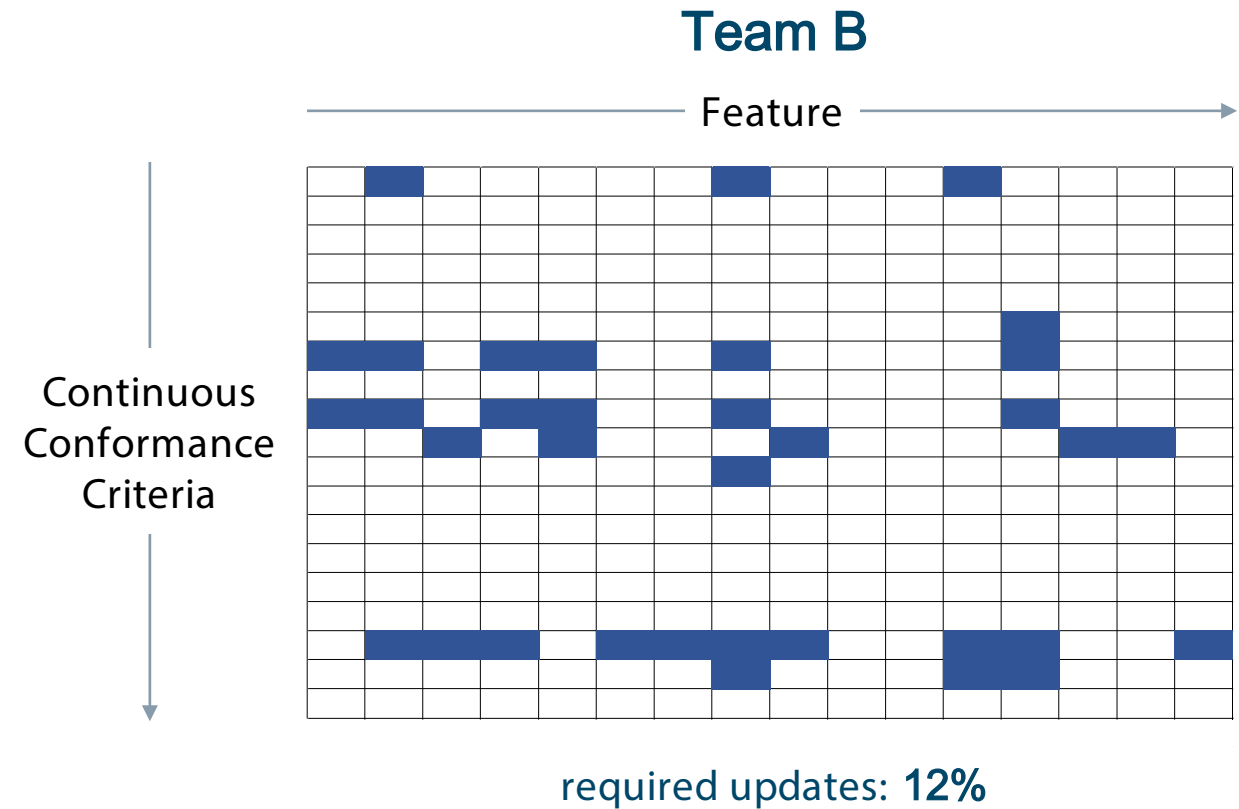
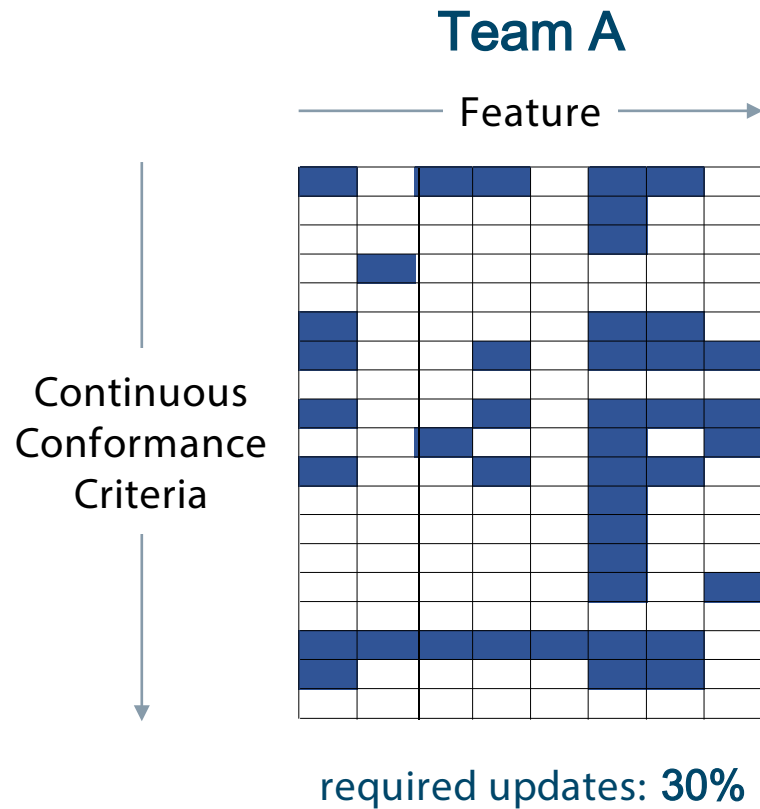
	Analyze	Update
Type 1	✓	✓
Type 2	✓	✓
Type 3	✓	—
Type 4	—	—

1) SAFe Program Increment

EFFICIENT MANAGEMENT OF CONTINUOUS CONFORMANCE IS KEY

Continuous Conformance is manageable

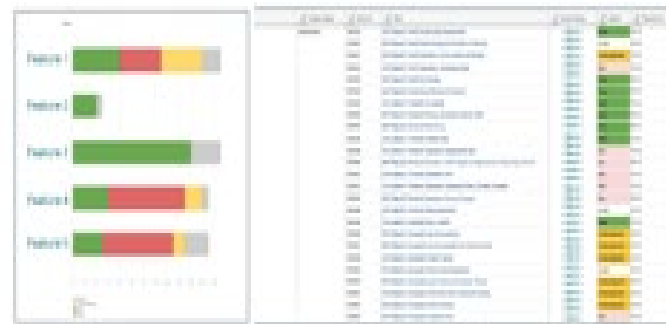
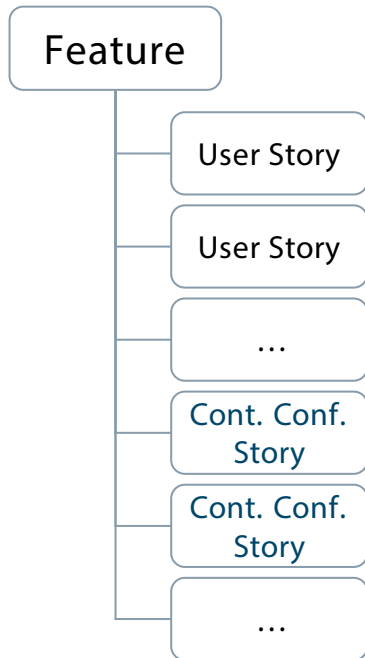
Example



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

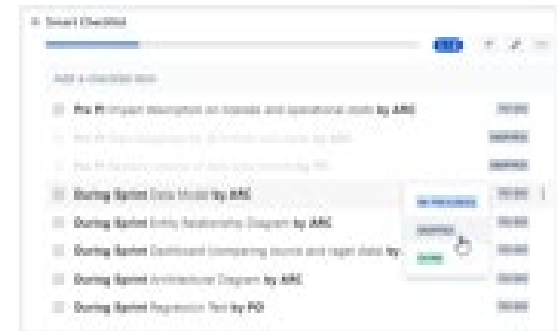
Management of Continuous Conformance in the standard tool chain is critical for success

Example: RTC¹



Analysis

Example: JIRA



Update & Tracking

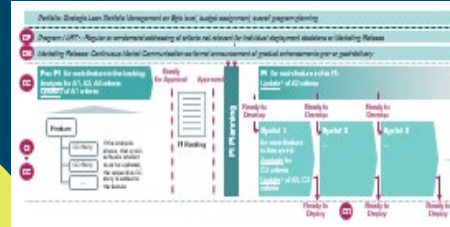


1) IBM Rational Team Concert

Tool Integration
Continuous Conformance
Continuous Integration



Roles & Responsibilities
Meetings
Processes



**CONTINUOUS
QUALITY
ASSURANCE**



Dashboards
Transparency
Thresholds & Actions



Vision
Change Management
Coaching & Roll-Out

SUSTAINABLE IMPLEMENTATION

requires further deep -dives,
piloting, coaching & roll -out

Our customers want products
that get better every day they
use them!

SAFELY, SECURELY
and with
**INDUSTRIAL
GRADE QUALITY!**

– adapted from Jan Bosch

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"CONTINUOUS
DEVELOPMENT
WILL CHANGE
ORGANIZATIONS
AS MUCH AS AGILE
DID"

– Harvard Business Review, May 2018


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OUR DEVOPS AWARENESS AND INITIATION WORKSHOP ENABLES YOU TO SET THE RIGHT FOCUS AND KICK-START YOUR DEVOPS TRANSFORMATION

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DevOps Workshop

Our DevOps Awareness and Initiation Workshop enables you to set the right focus and kick-start your DevOps transformation



1 ————— 2 ————— 3

1. Is digitalization changing your business and portfolio?

2. Do you want to benefit from fast feedback loops along the complete value chain?

3. Would you like to kick-start your DevOps transformation?

DevOps Awareness and Initiation Workshop | 1+1 days

DAY 1	DAY 2
Awareness for Relevance, Benefits & Impact of DevOps	Initiation of your DevOps Transformation

<p>Objectives</p> <ul style="list-style-type: none"> Learn key ideas of Continuous Delivery and DevOps and their relevance and benefits for your business Understand challenges and required paradigm and mindset shift for an industrial company <p>Agenda</p> <ul style="list-style-type: none"> Your Understanding of DevOps Continuous Deployment Simulation Your DevOps Target Scenario Challenges of Continuous Delivery and DevOps DevOps Transition and Implementation <p>Method</p> <p>Training with impulse presentations, exercises and a Continuous Deployment LEGO simulation</p>	<p>Objectives</p> <ul style="list-style-type: none"> Work out how your target scenario impacts your business, processes, organization, technology and culture Kick-start your DevOps transformation <p>Agenda</p> <ul style="list-style-type: none"> Challenges of your Target Scenario Tool-Demo of complete DevOps Loop Initial Action Plan and First Steps Way Forward <p>Method</p> <p>Structured workshop focusing on evaluation of your target scenario and initiation of your DevOps transformation</p>
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YOUR CONTACT

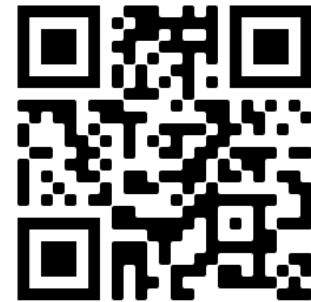
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Whitepaper: 'Continuous Delivery and DevOps in industrial environments'

<https://sie.ag/whitepaper-devops>



DevOps Awareness and Initiation Workshop

<https://sie.ag/workshop-devops>