

Seeding and Growing Large Scale Cloud Transformation

Heiko Schüßler, SAP Dirk Lehmann, SAP

PUBLIC





About us



Heiko Schüßler

- Head of Cloud Quality Coaching
- ~ 20 years of consulting experience
- Ambassador for Built-in Quality
- Grows Cloud Quality Coaching Model @ SAP
- @_heikoS



Dirk Lehmann

- Cloud Quality Coach
- With SAP since 2001
- Implemented first daily delivery at SAP
- DevOps Evangelist
- Does talks...just like this one
- @doergn

Ready for some time travel?



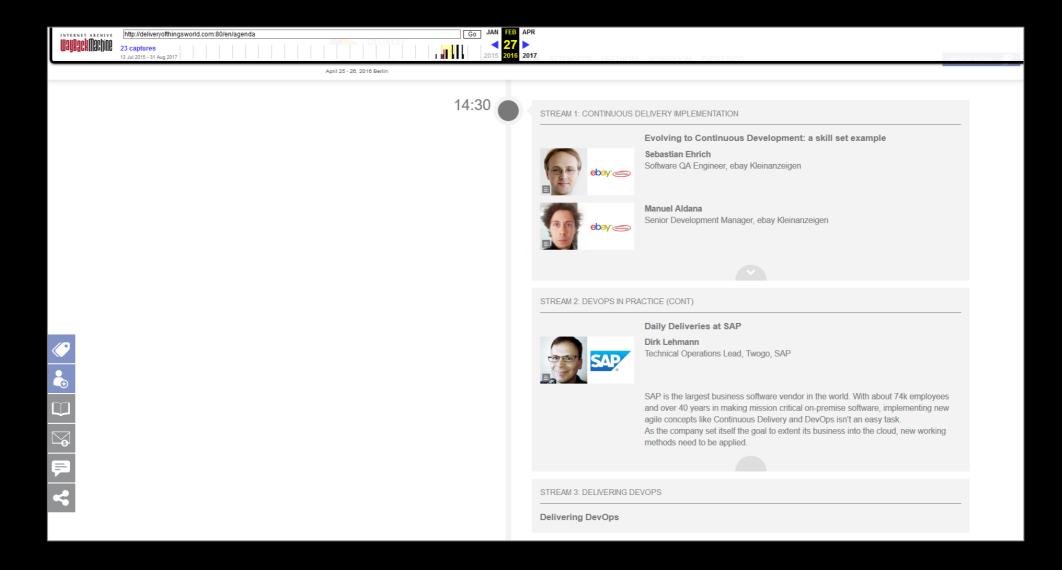
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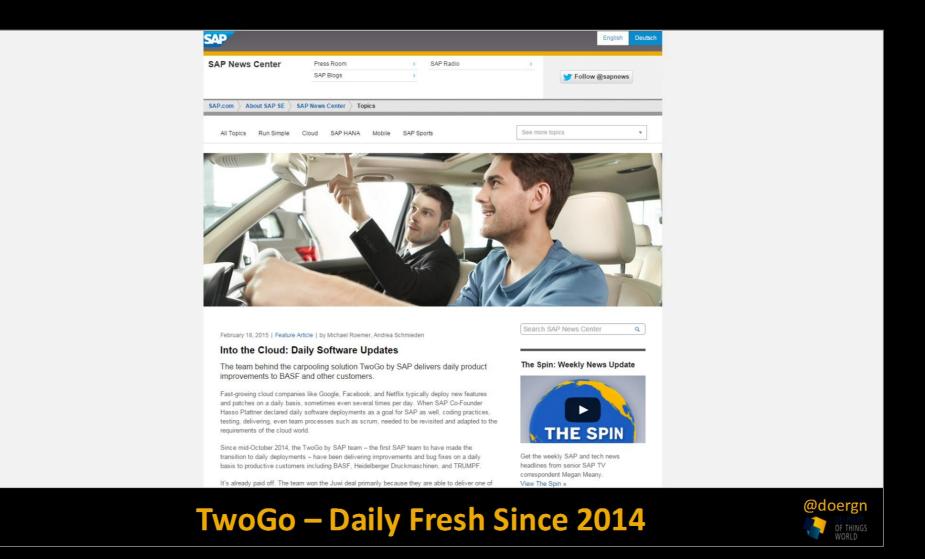
SAP Q-Gate





www.twogo.com





Learnings from Pilot

Results from pilot project "TwoGo"

- Release process was adopted, as it was too
 - Complex
 - Slow
 - Only feasible for large teams
- Standard requirements reworked to fit project needs
- Ease Open Source usage to keep up with technology trends
- People need to have a "cloud" mindset
- •



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How to scale this model!?

Talking about large Scale – SAP

- Largest Business Software Vendor in the world
 - founded 1972
 - ~ 84k employees
 - ~ 23k developers
- · Our customers...
 - ...manufacture > 95.000 automobiles per day
 - ...produce 12.600kg of chocolate each minute
 - ...produce more than 64% of the world's ice cream
 - ...brew more than 77% of the world's beer





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Talking about large Scale – SAP

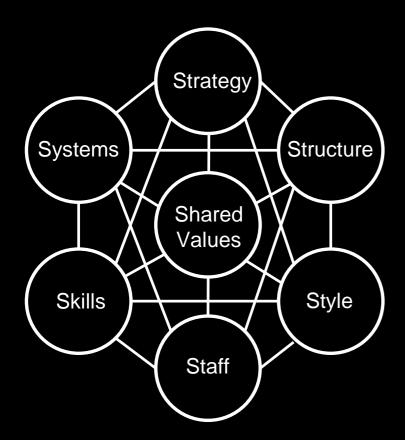
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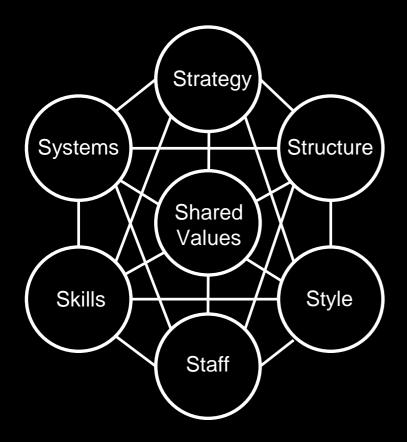
SAP's Internal Cloud Transformation

McKinsey **7-S Framework** and the **7 factors** from 70ies are still valid



SAP's Internal Cloud Transformation – Mastering two Worlds

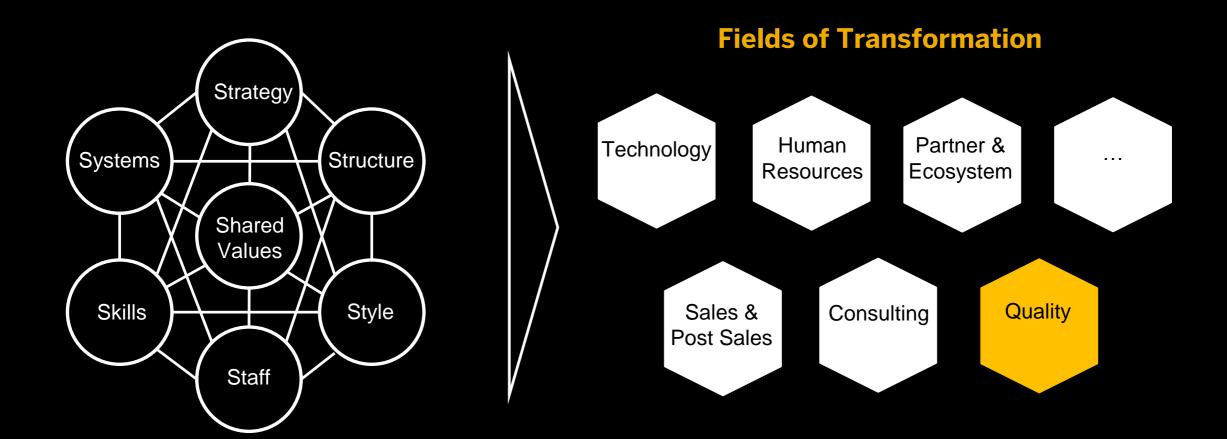
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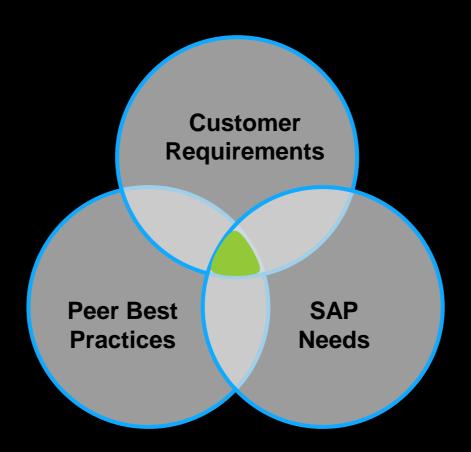
Contents per 7 factors are different in



Transformation and the Mapping to the Organization



Multiple Perspectives Dimension to Asses the Approach for Quality





Three Archetypes of Companies that have Achieved QM Excellence

Quality management archetype

Quality or bust



... policed for better quality

Coach driven



...coached for better quality

System of honor



... self-committed to quality

Source: The Boston Consulting Group - Quest For Quality Study, 2016

Companies in all Archetypes Follow Certain Best Practices Consistently

Quality management archetype

Quality or bust Coach driven System of honor Test Driven Dev, max. automation, broad "Done" definition, strict check-in process Governance **Team roles** Agile teams with strong overlap between Development and QA roles **Specialized QA** Dedicated teams to test for security, compliance, etc. (central or embedded) Site Ops Highly skilled teams with automated alerts and rapid escalation process **Employee practices** Unique quality-focused cultural practices

Source: The Boston Consulting Group - Quest For Quality Study, 2016

Pursue the "Coach-Driven" Approach for Quality Excellence

Development teams own quality: "build it – test it – run it"

A groups of leading practitioners support accordingly

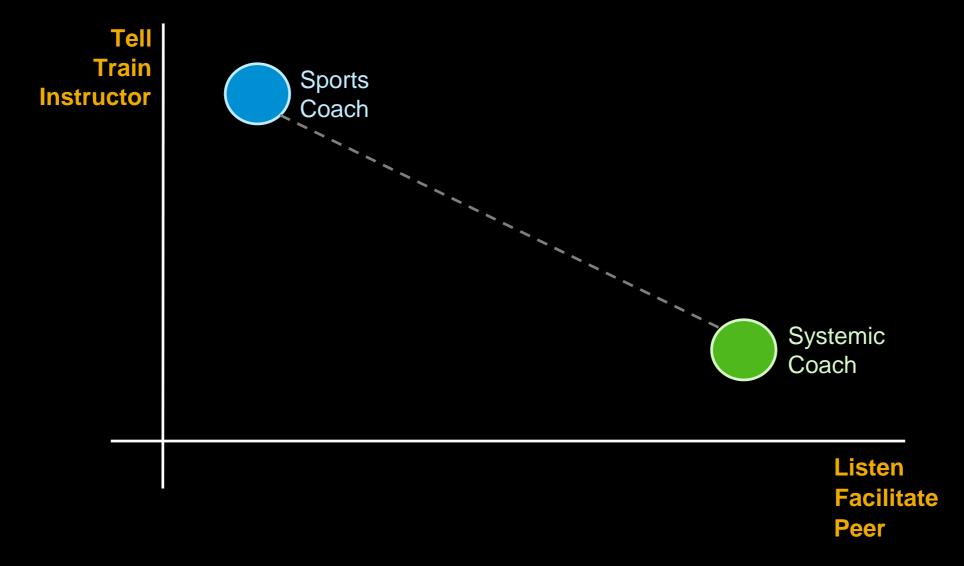
- Provide lean governance and guidance
- Operate specialized services
- Identify and drive best practices across the company
- Perform Hands-on coaching for Development teams



Coaching



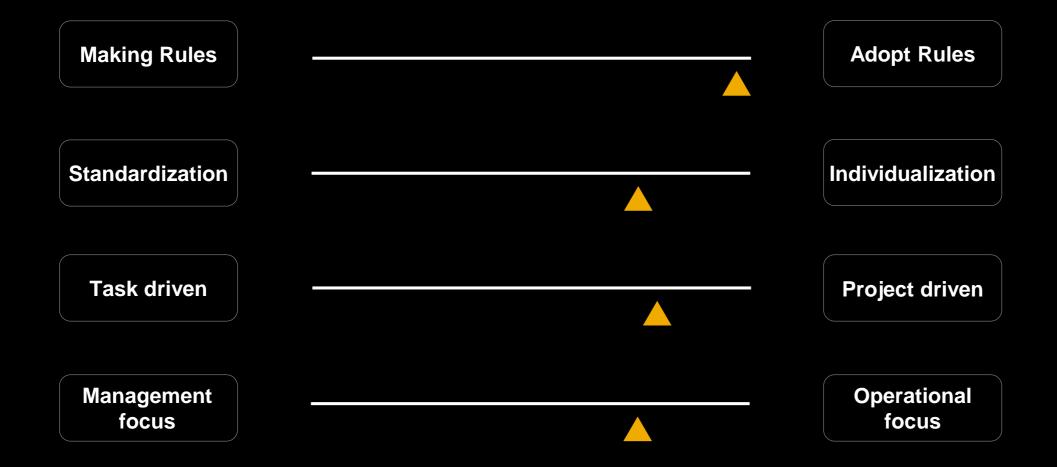
Coaching



Quality Coaching Stances



SAP Cloud Quality Coaching – The way we work



SAP Cloud Quality Coaching Focus Topics

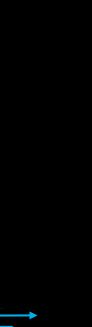


Focus Topic: Testing Strategy & Automation

- What to test?
- How to test?
- How much to automate?

Attention towards Quality

• When to test?



Traditional

Quality Model

Deploy

Operate



Testing Strategy & Automation

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Test

Build

Shift Left

Quality

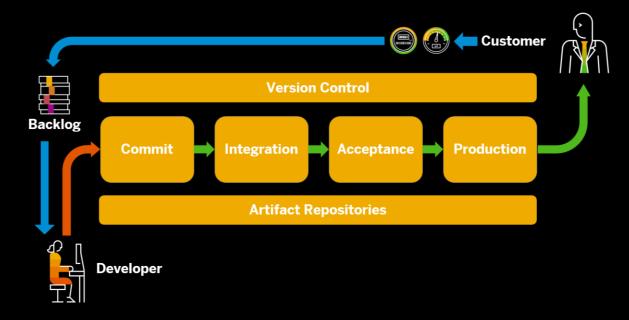
Model

Code

Plan

Focus Topic: Continuous Delivery & DevOps

- How does the deployment pipeline look like?
- What else to automate?
- How to operate the system?
- How to close the feedback loop?





Continuous Delivery & DevOps

Focus Topic: Process and Delivery

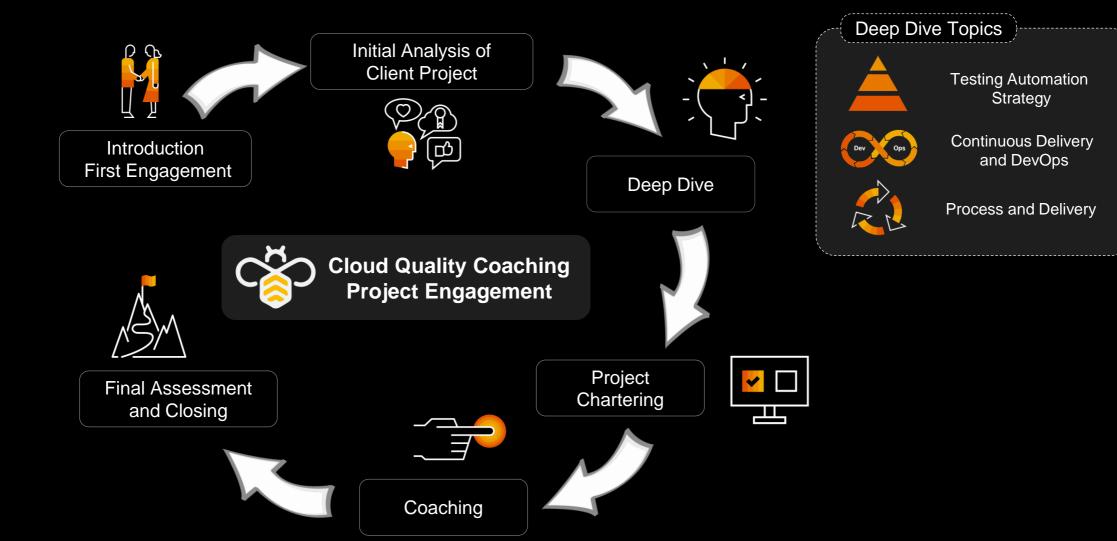
- Is the product in compliance with any legal requirements?
- Is the product in compliance with any certification requrements?
- Is the product fulfilling SAPs quality requirements?



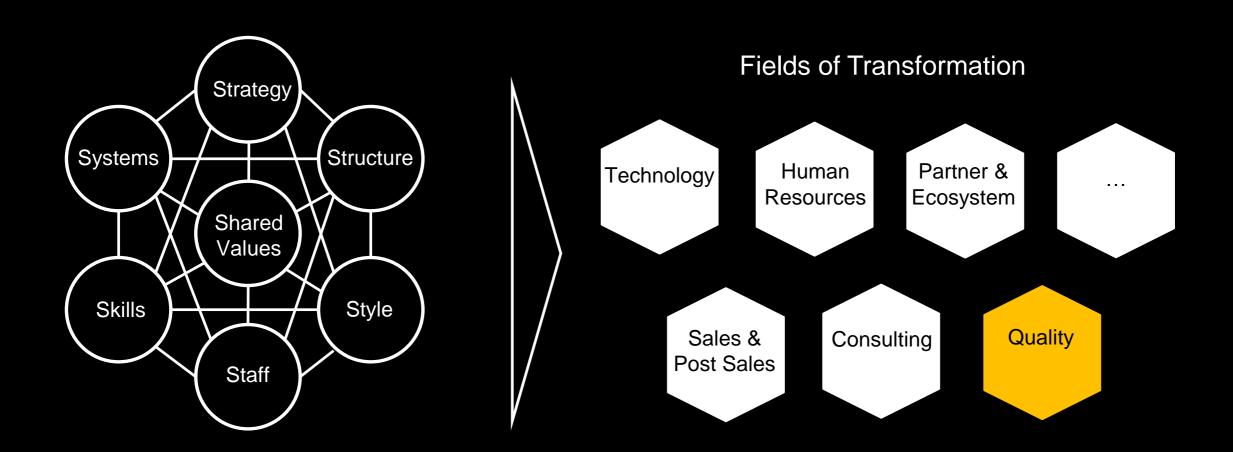


Process and Delivery

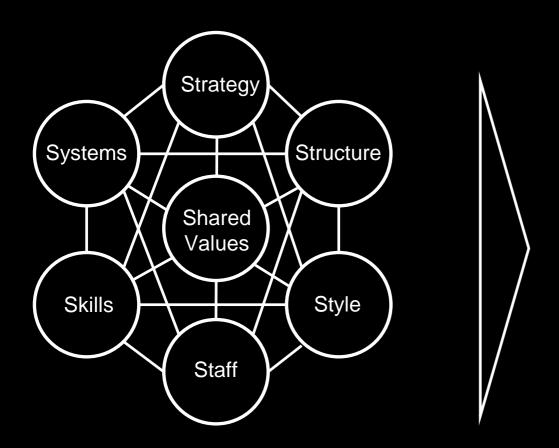
SAP Cloud Quality Coaching - Project Engagement



Transformation and the Mapping to the Organization



Transformation and the Mapping to the Organization





There is the need to orchestrate all transformation activities!

Source: McKinsey & Company. (2008). Enduring Ideas: The 7-S Framework. [online] Available at: http://www.mckinsey.com/insights/strategy/enduring_ideas_the_7-s_framework [Accessed 04 Mar 2018].

Thank you.

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