

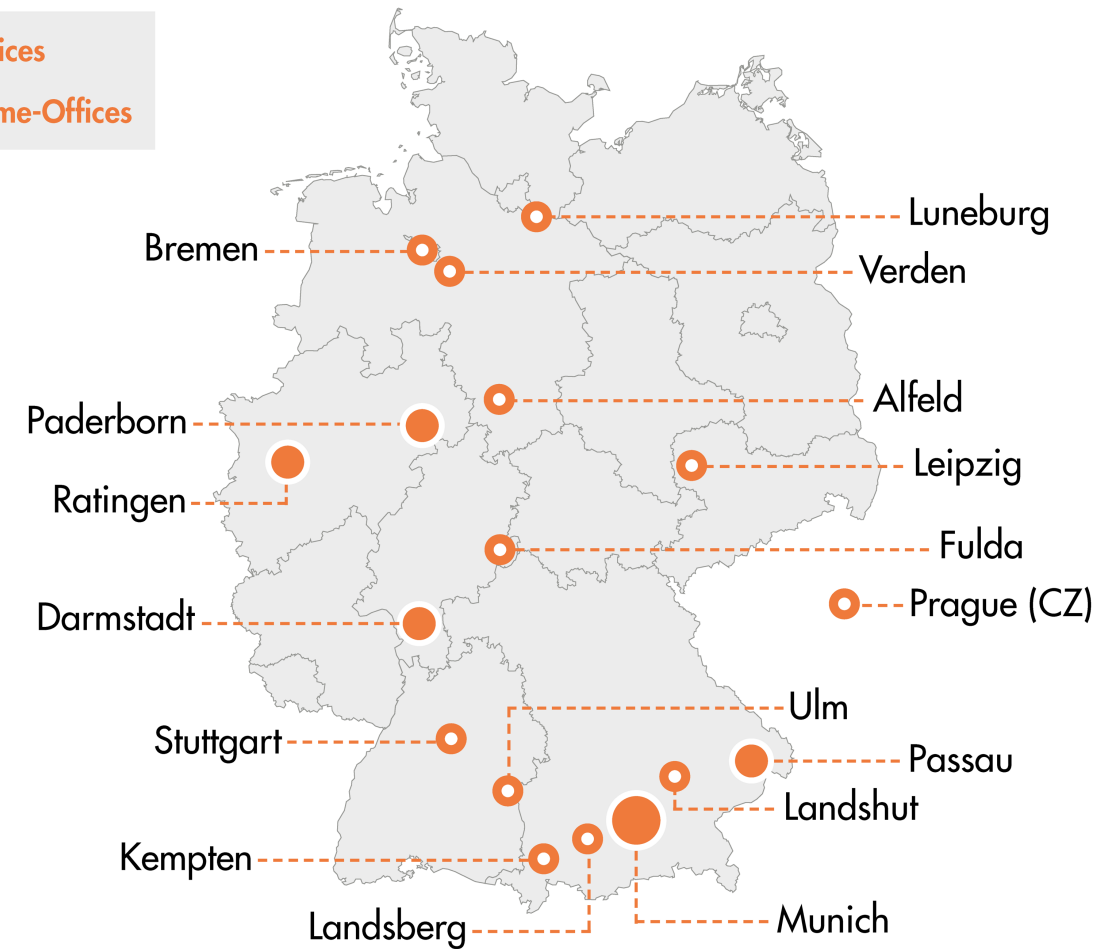
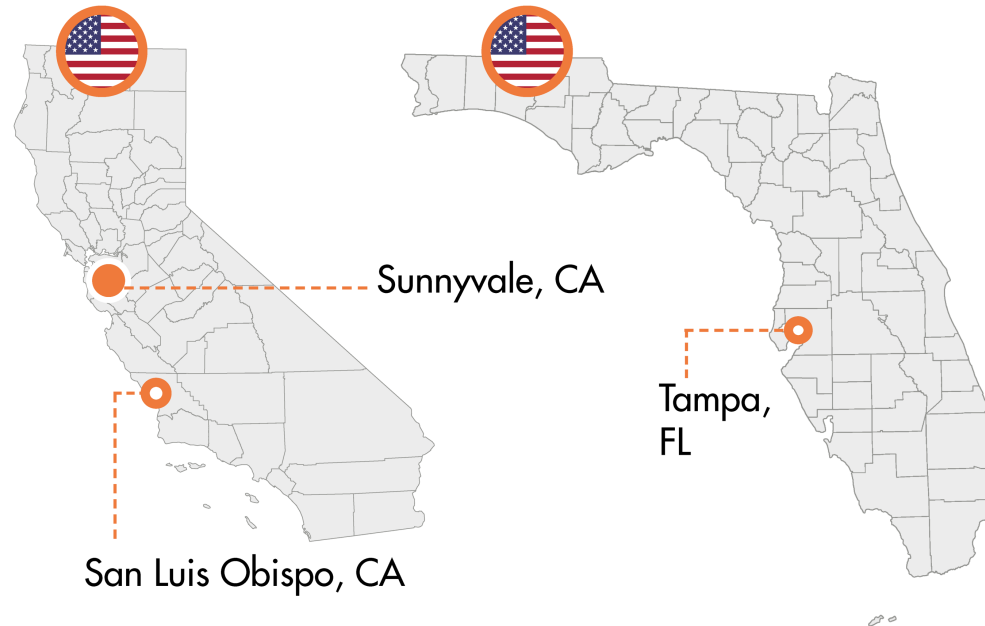
Get Quality for Three!

How Vestas, Dolby, Rational & others deliver high quality software



Dr. Sven Amann

● Offices
● Home-Offices



Deliver High-quality Software[✓]

Vestas

Ship fewer bugs

SEW
EURODRIVE

Get beyond gut feeling

 **ProSiebenSat.1**
Media SE

Reduce technical debt

 **Dolby**

Get faster test feedback

RATIONAL

Quality assure quality assurance

Deliver High-quality Software[✓]

Vestas

SEW
EURODRIVE

 ProSiebenSat.1
Media SE

 Dolby

RATIONAL



Transparency



Alignment

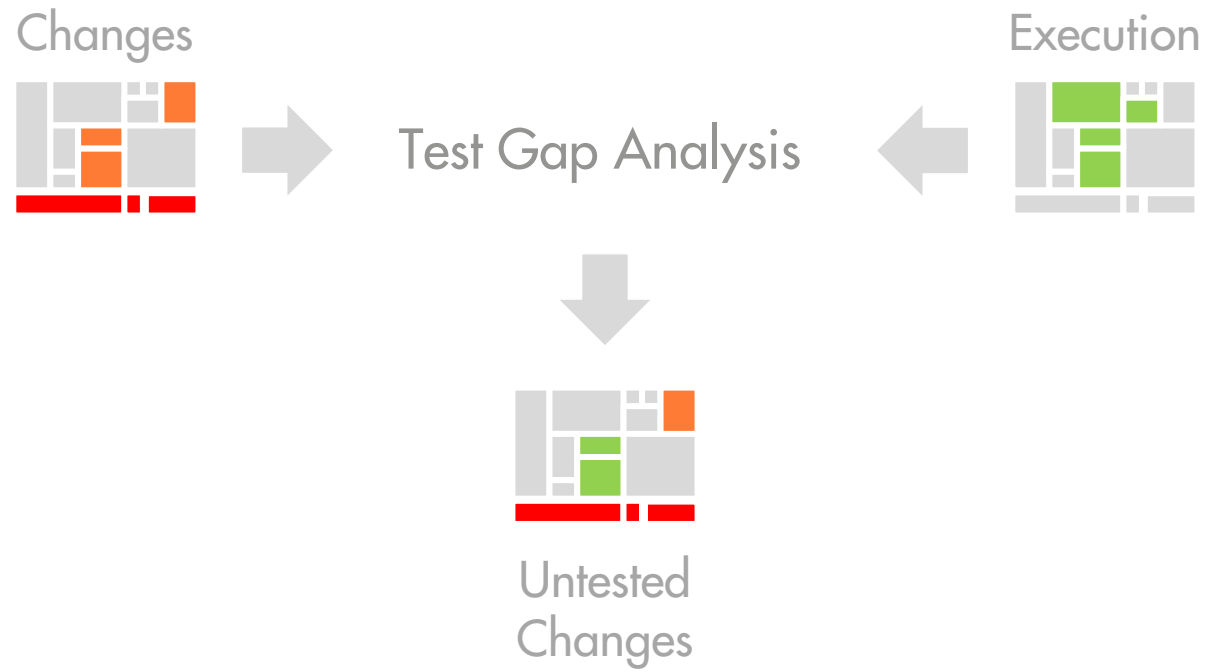


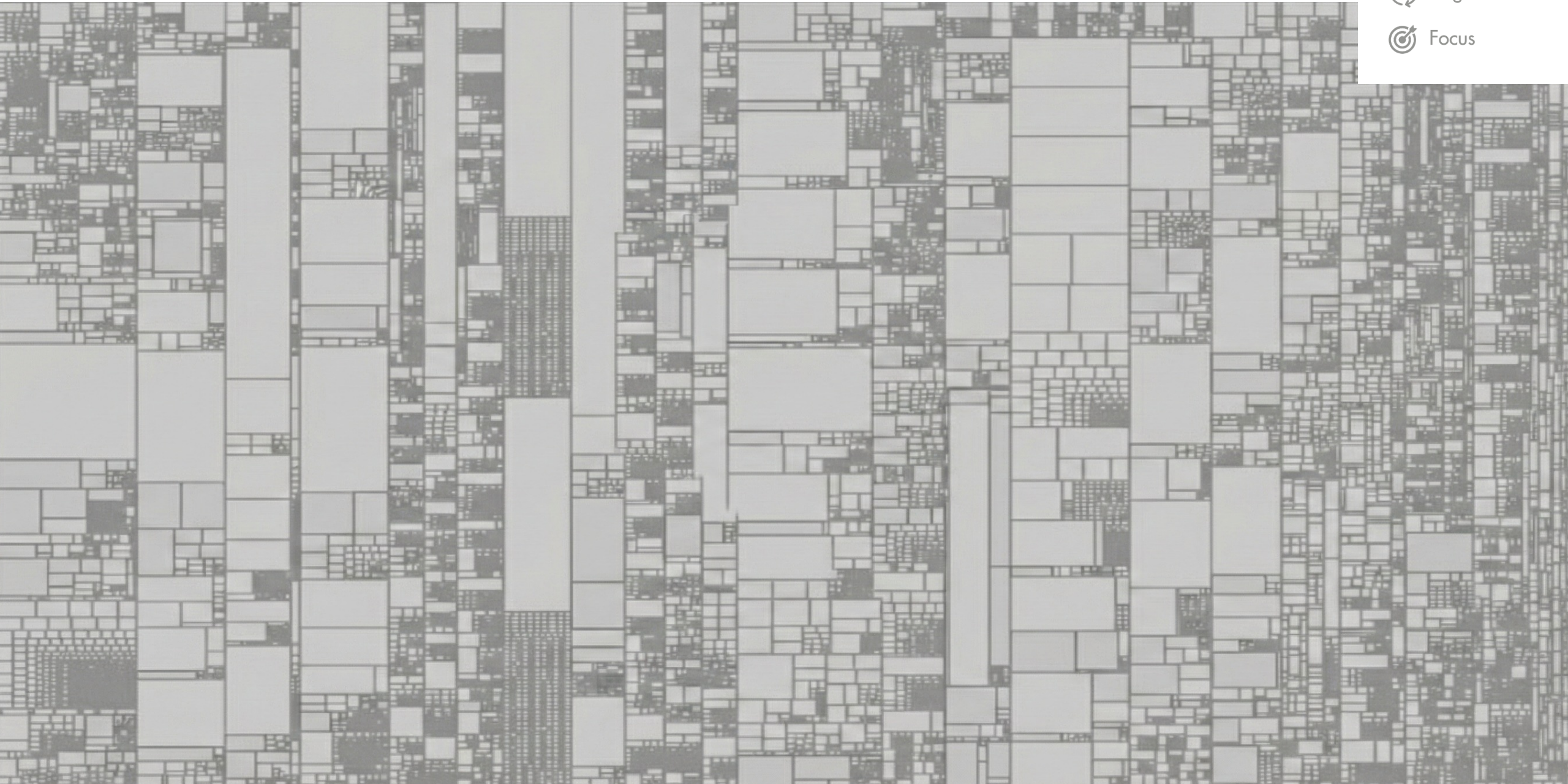
Focus

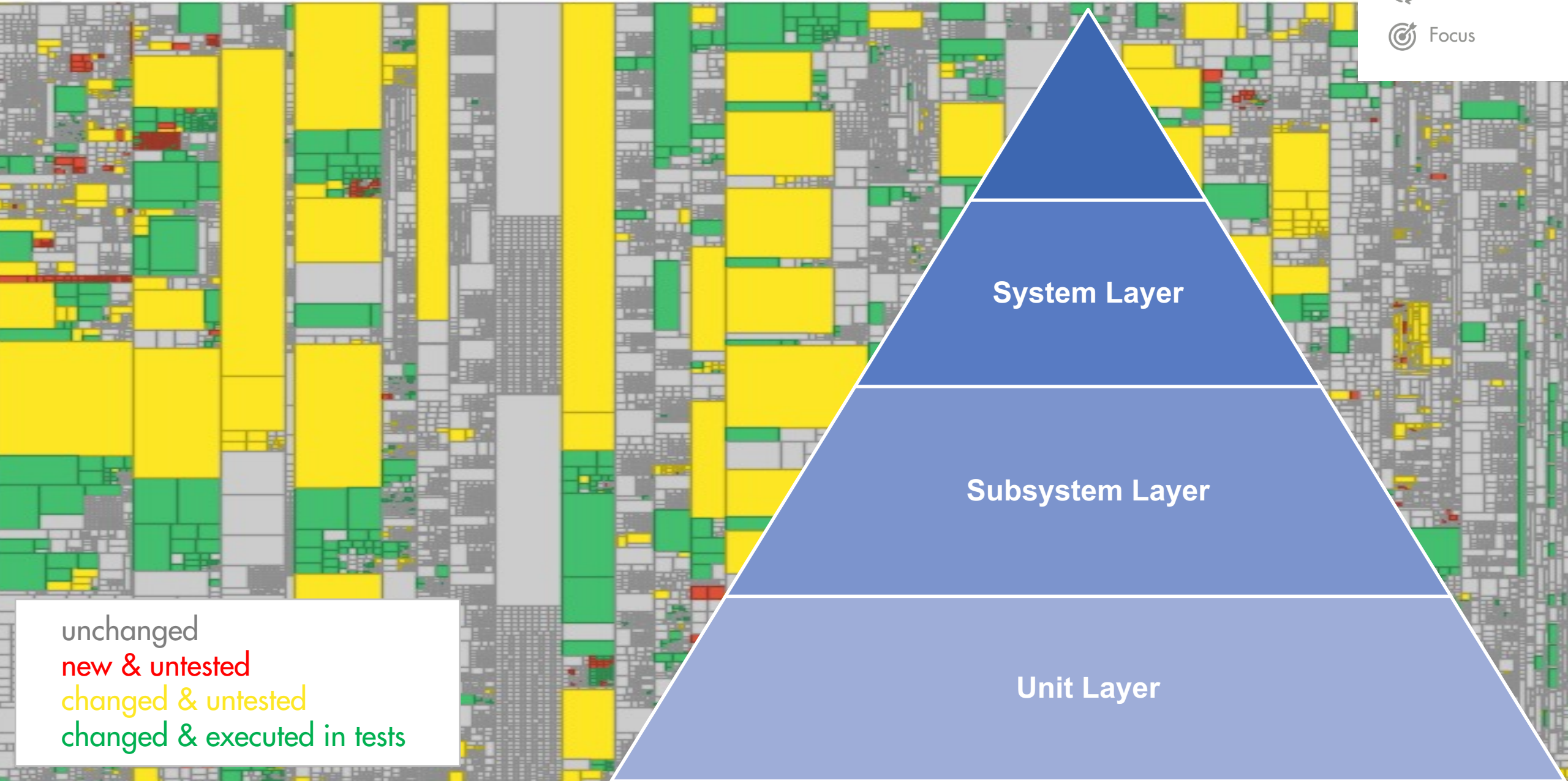
Vestas[®]

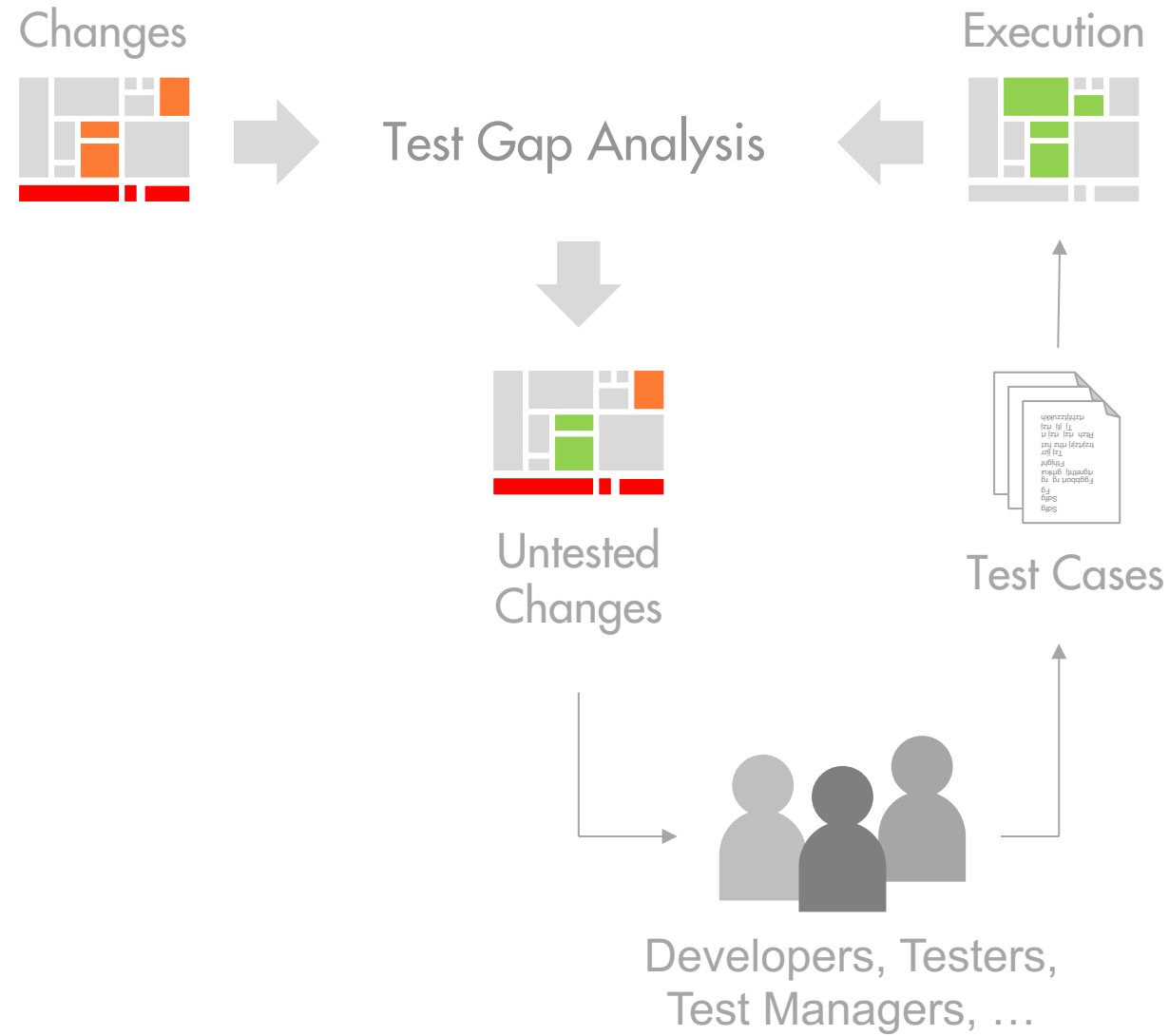


»We want to ship
fewer bugs!«









Issue # ▼	Subject			Test Gap
TS-10549	Undo/Redo for web-based architecture editor	Done		0%
TS-10784	Fix long method finding in TaintAnalysisRunner	Done		0%
TS-10923	Implement metric 'Nesting Depth' for Simulink	Done		29%
TS-11364	External findings are not registered during first upload	Done		14%
TS-11942	Manual test coverage upload during development	Done		43%
TS-12262	Cannot set or alter alias without reanalysis	Done		0%
TS-12451	Test coverage upload for HIL tests	Done		0%



Munich Re

»We reduced field errors by 50%!«

Issue

Issue # ▾

Subject

[TS-10549](#)

Undo/Redo

[TS-10784](#)

Fix long me

[TS-10923](#)

Implement

[TS-11364](#)

External fir

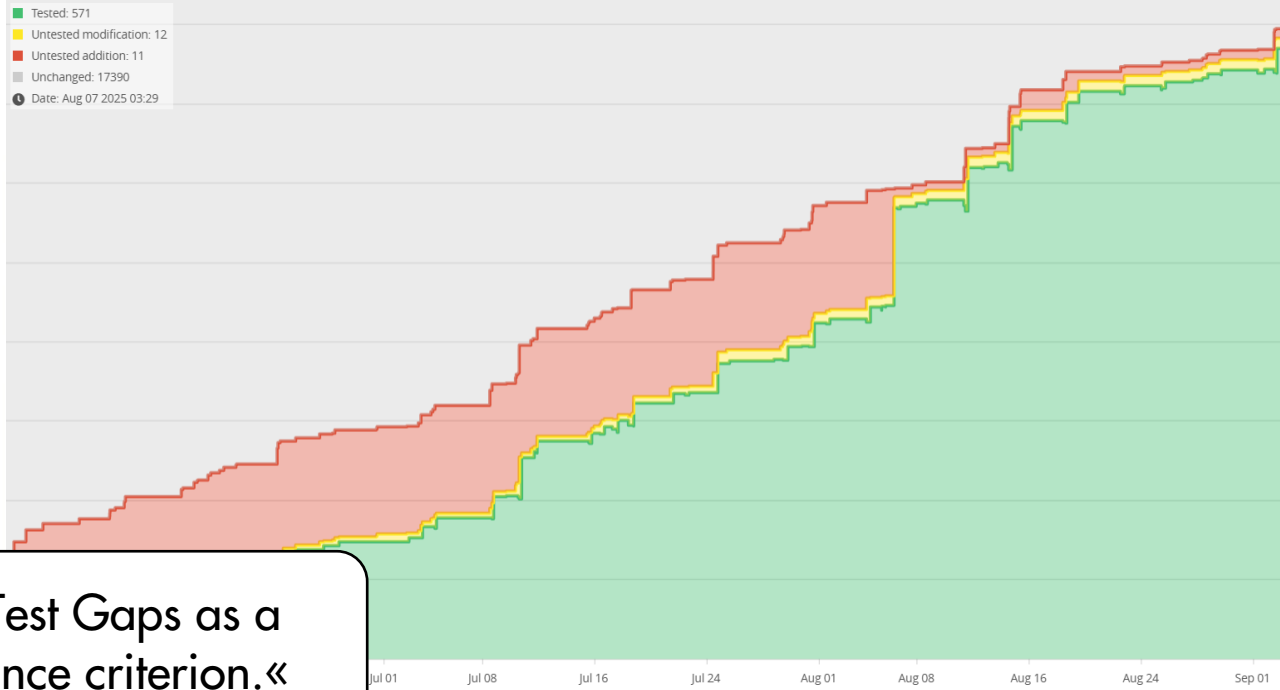
[TS-](#)

»Our POs use Test Gaps as a leading acceptance criterion.«

[TS-12262](#)

Cannot set or alter alias without reanalysis

Tested: 571
Untested modification: 12
Untested addition: 11
Unchanged: 17390
Date: Aug 07 2025 03:29



Test Gap



0%



0%



29%



14%



43%



0%

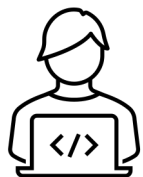
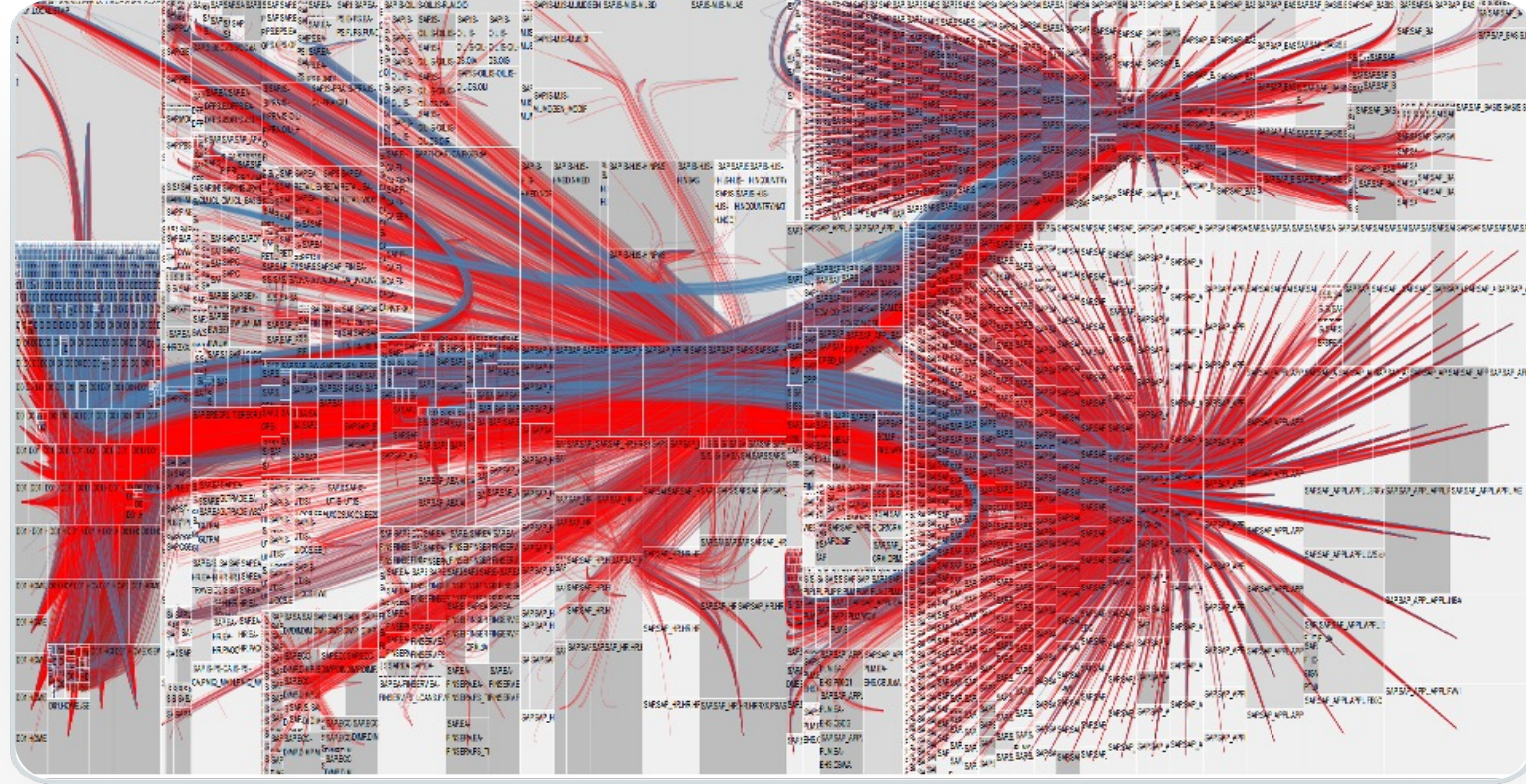
Done

▶ Deep Dive

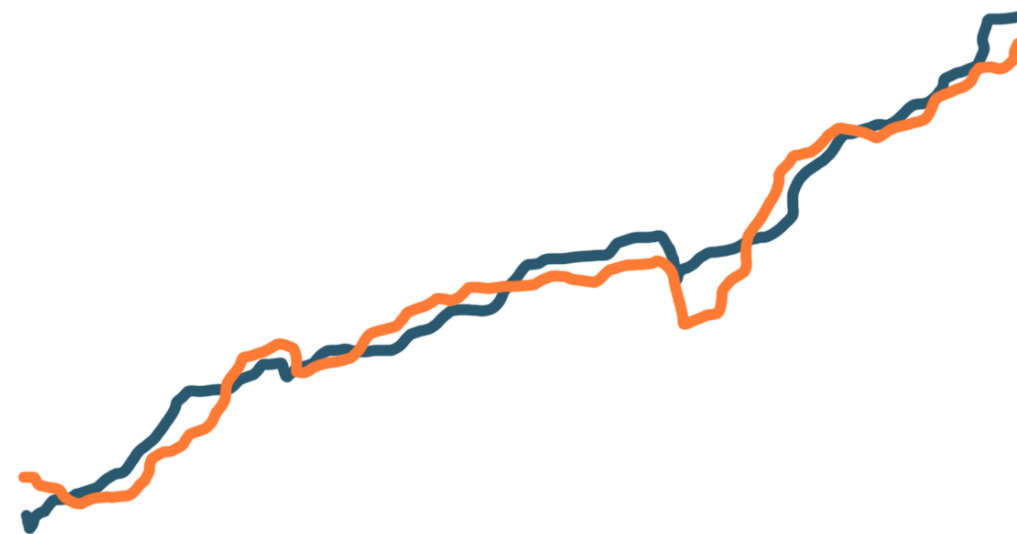




»My gut feeling says that we
have a quality problem...«

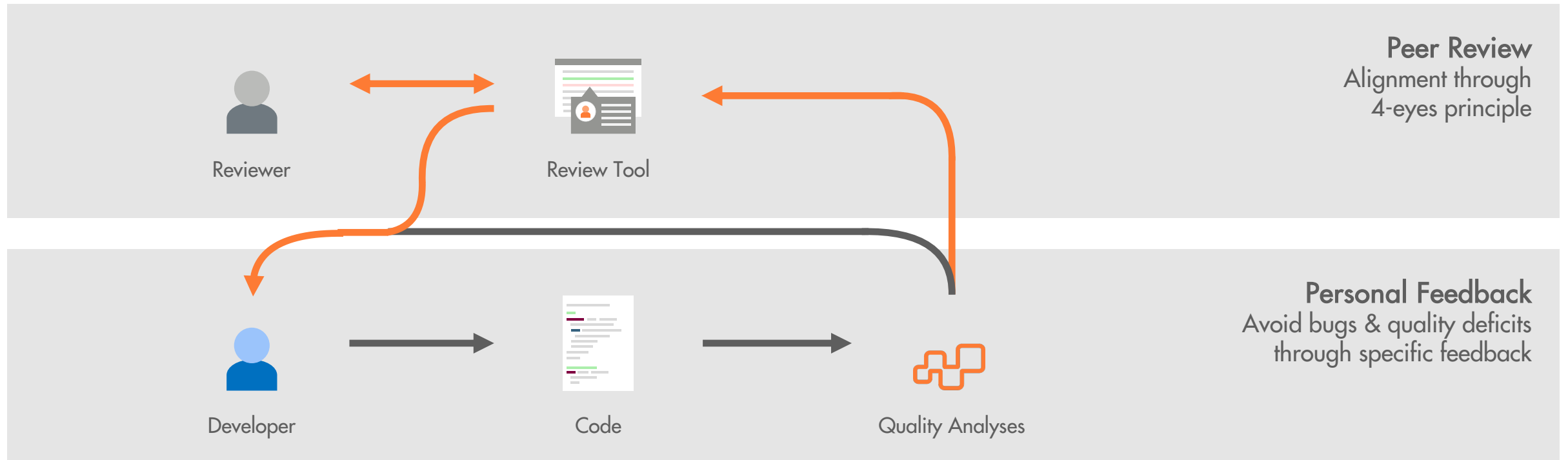


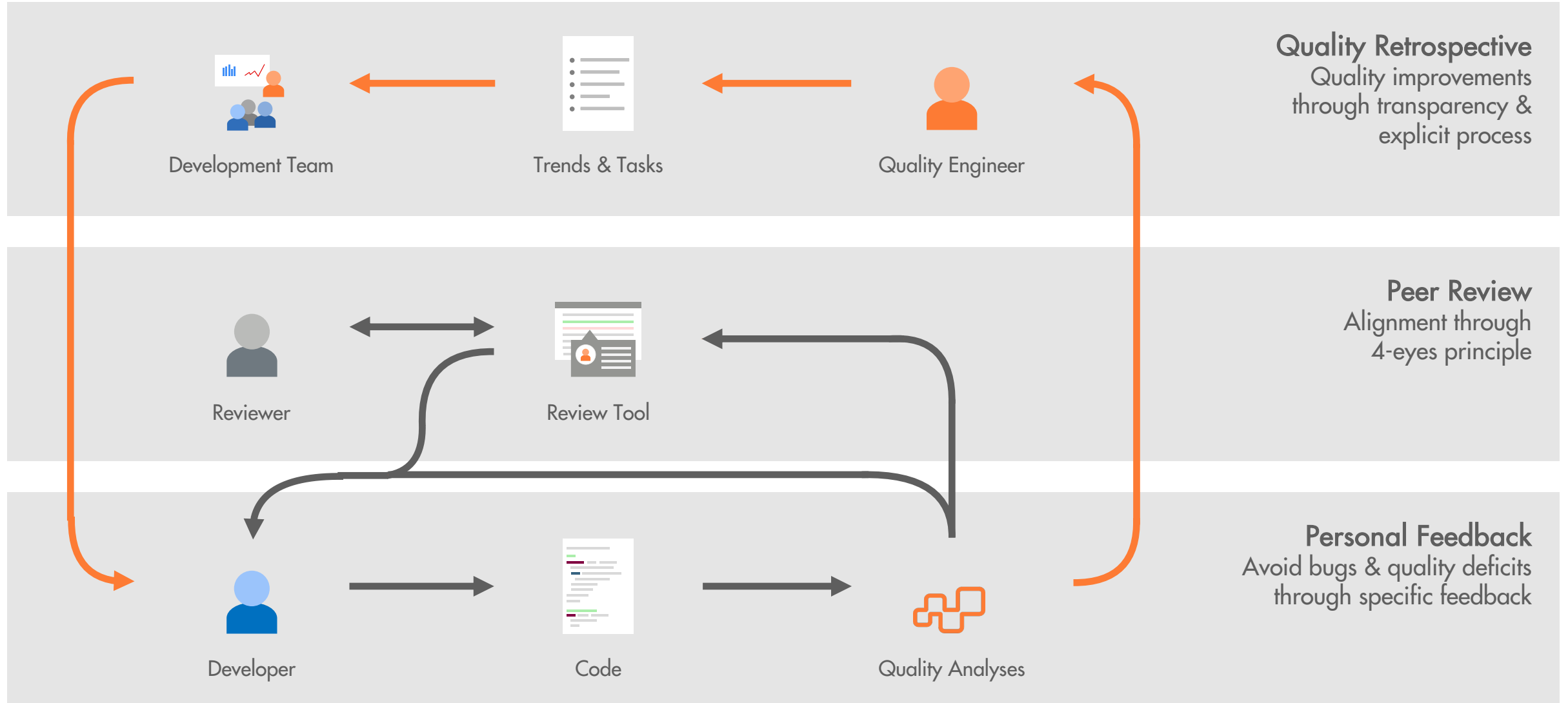
»It is essential that everyone sees the big picture, including management.«

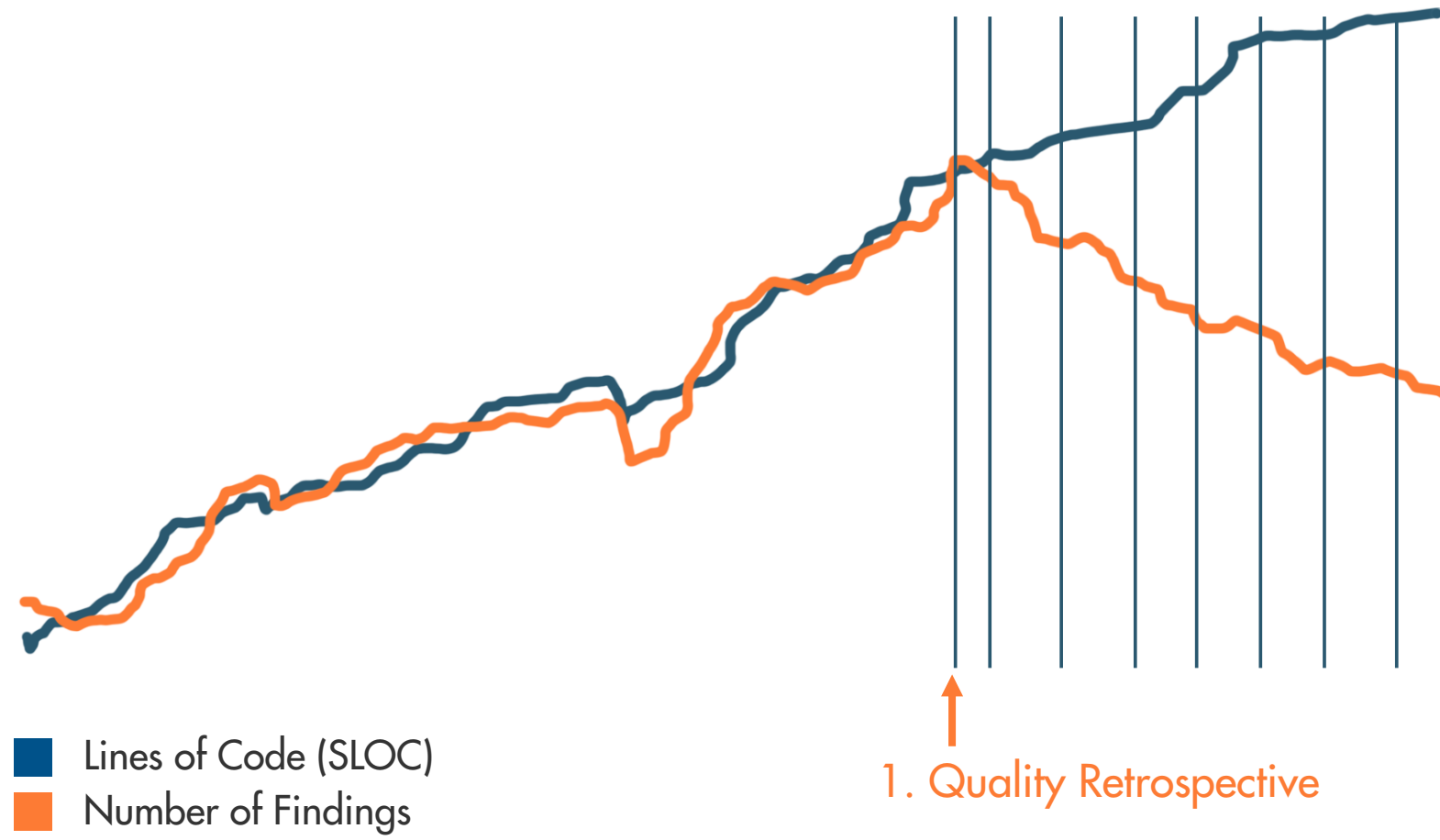


■ Lines of Code (SLOC)
■ Number of Findings





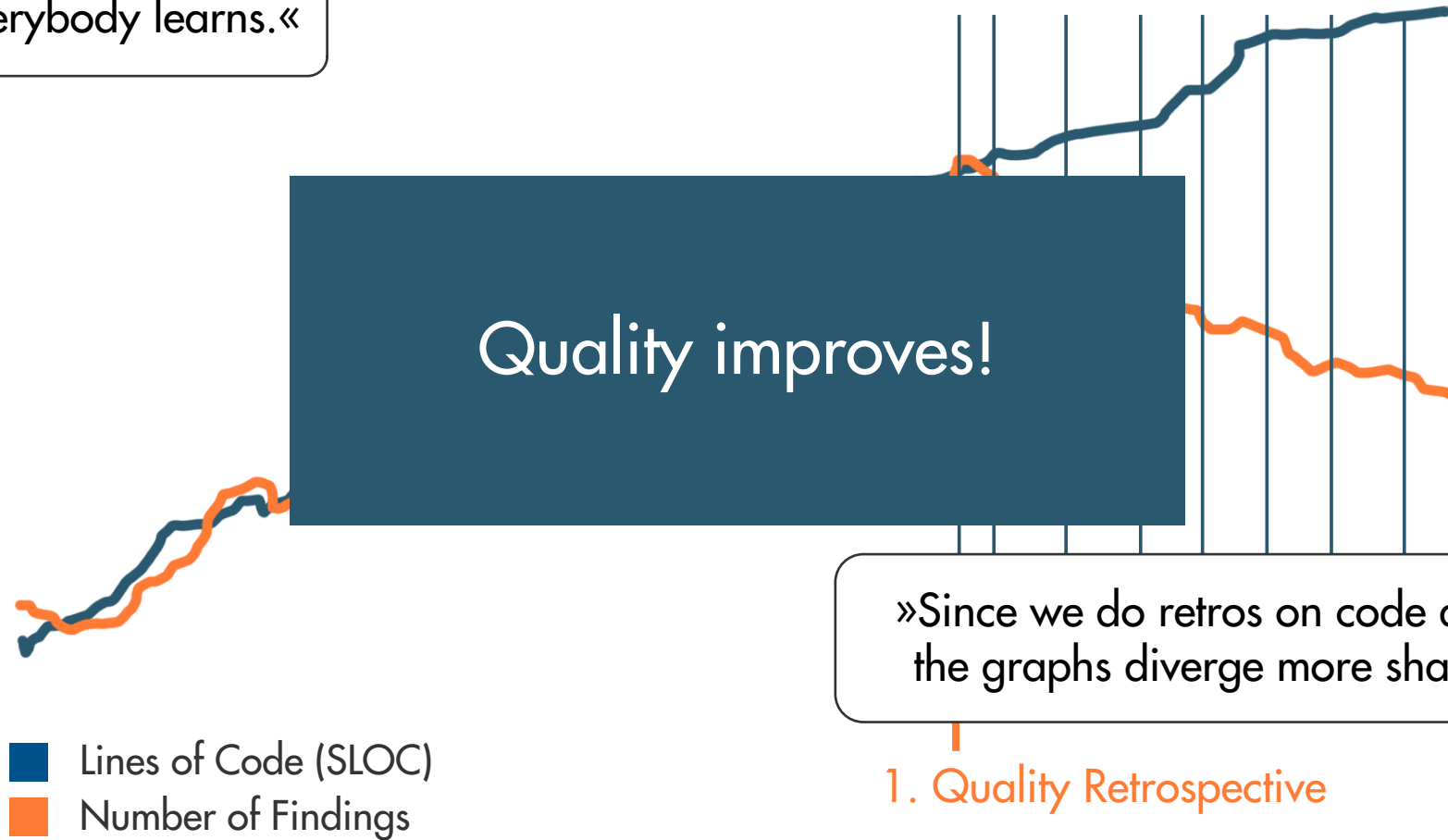




VERSICHERUNGS
KAMMER

»Everybody learns.«

Quality improves!

»Since we do retros on code quality,
the graphs diverge more sharply!«

1. Quality Retrospective



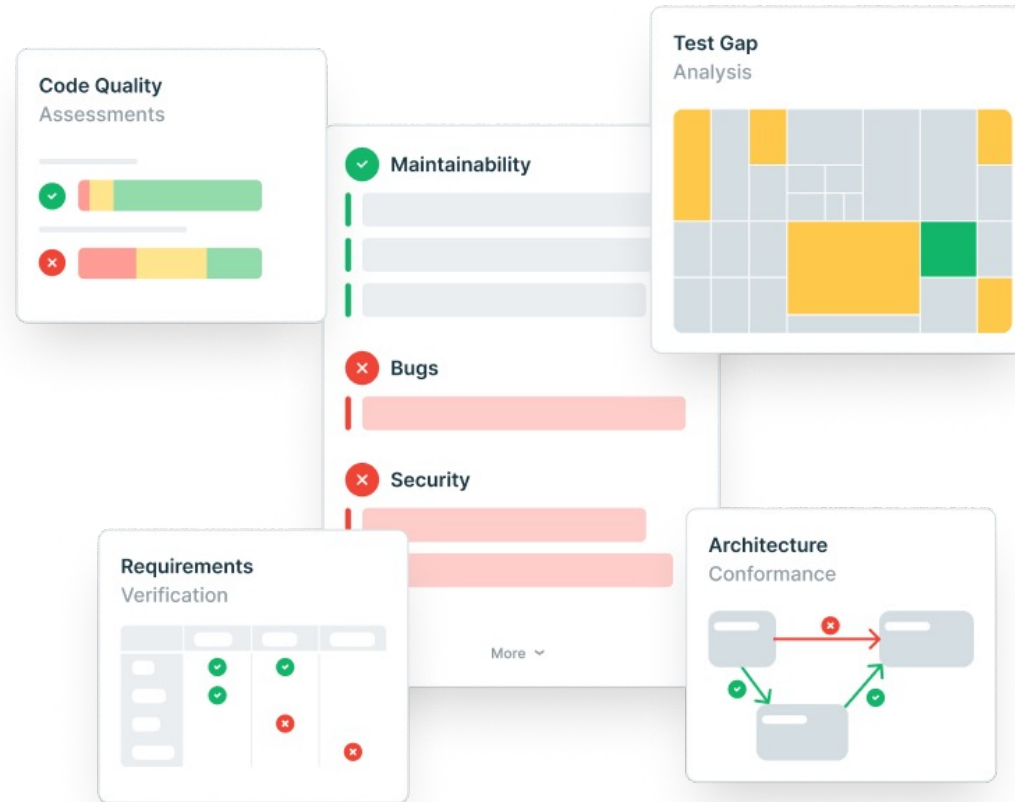
Netze BW



ProSiebenSat.1
Media SE



»We invest 20% of our time
to reduce technical debt.«



C, C#, C++, Go, Java, JavaScript/TypeScript, Python

Target Metrics



Remove critical findings



Follow the campsite rule

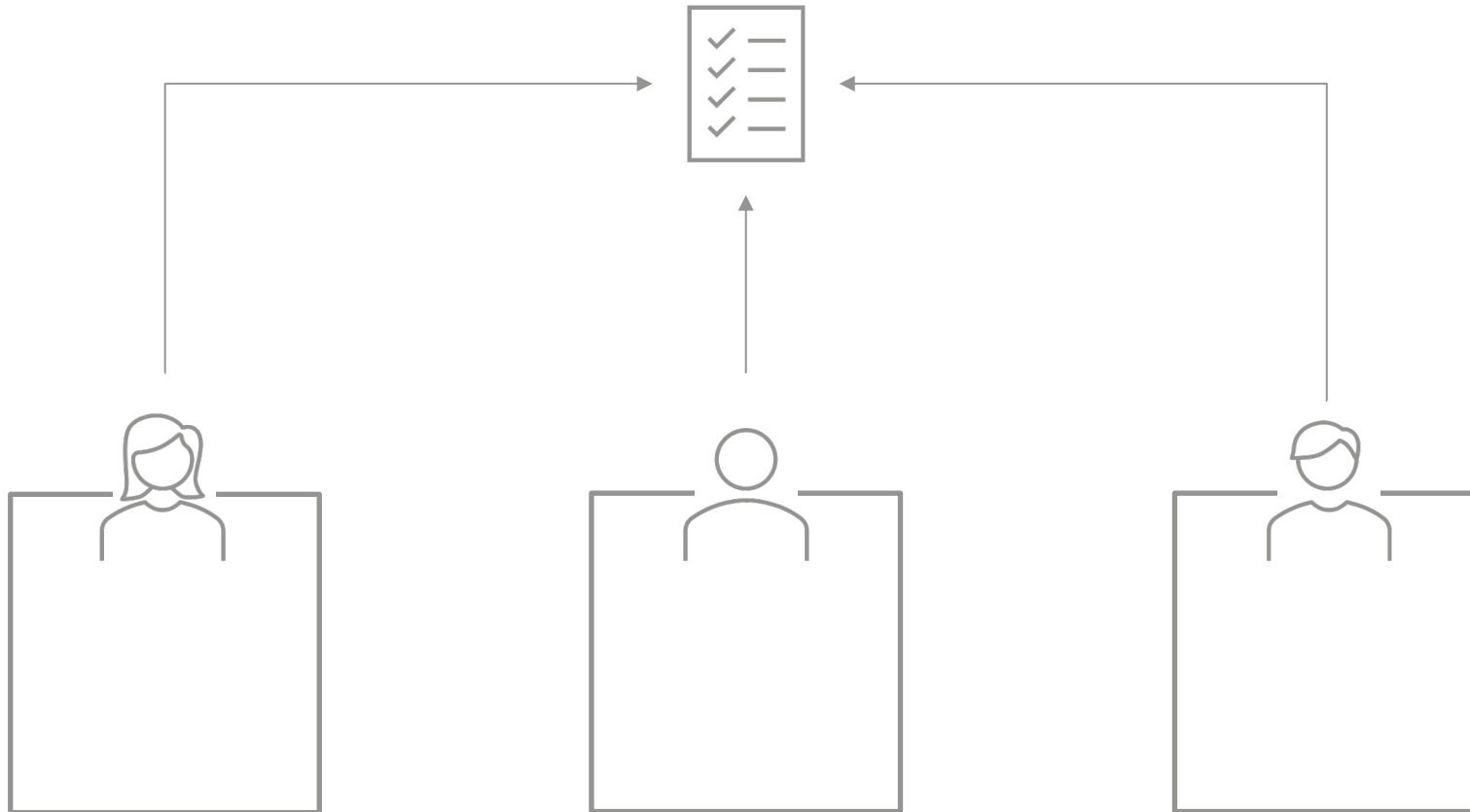


No Test Gaps

»It is fundamentally important to create awareness and communicate expectations towards development, test, management and business units.«

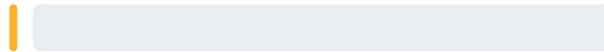


Shared
Coding Guideline

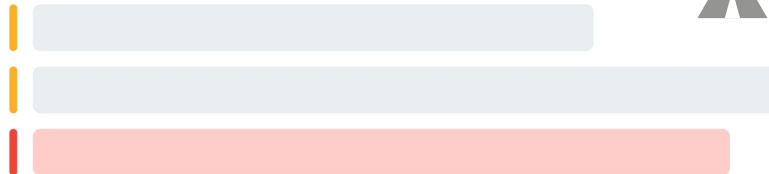




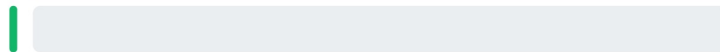
 1 New Findings

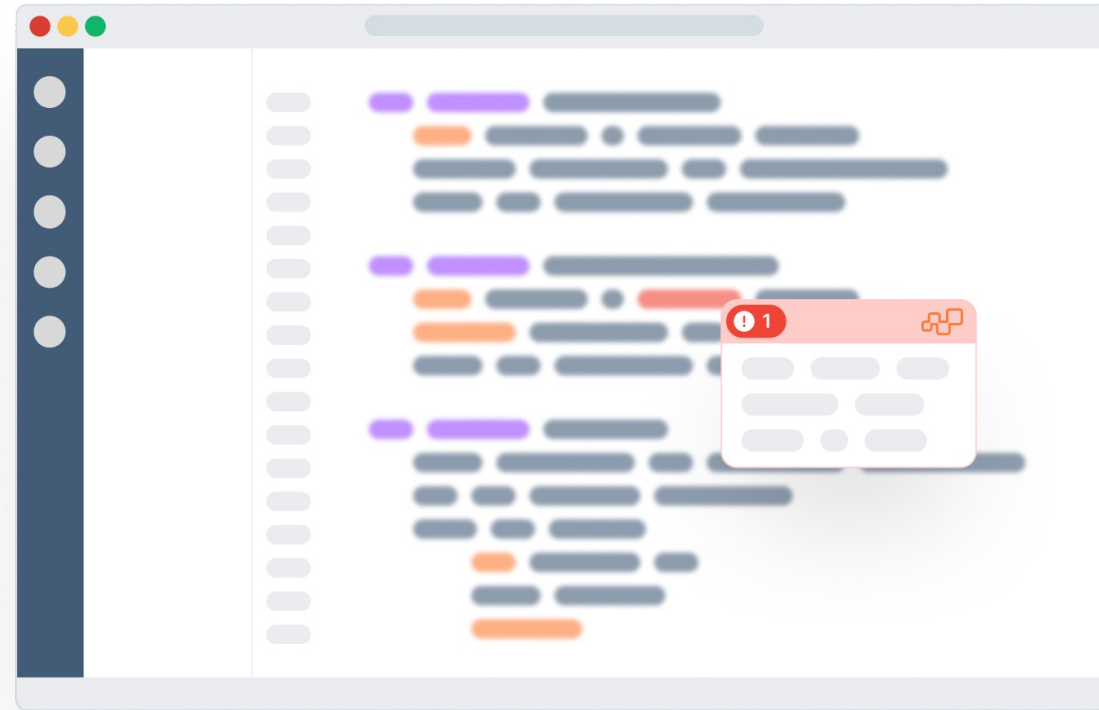


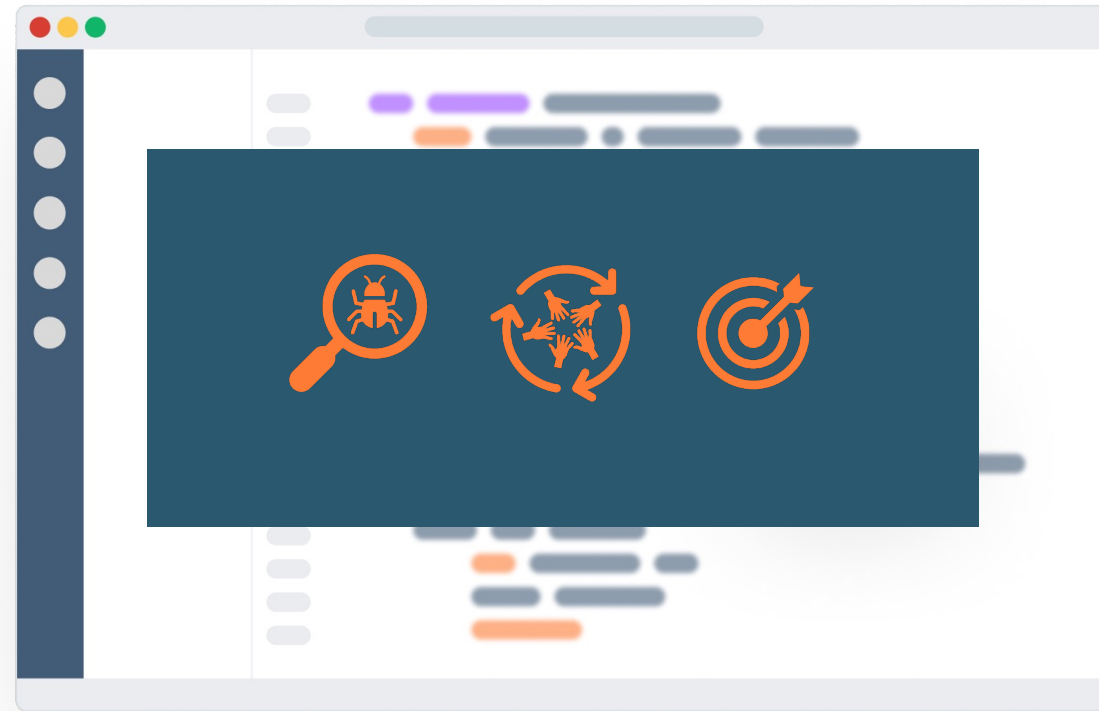
 3 Old Findings in Changed Code



 3 Resolved Findings

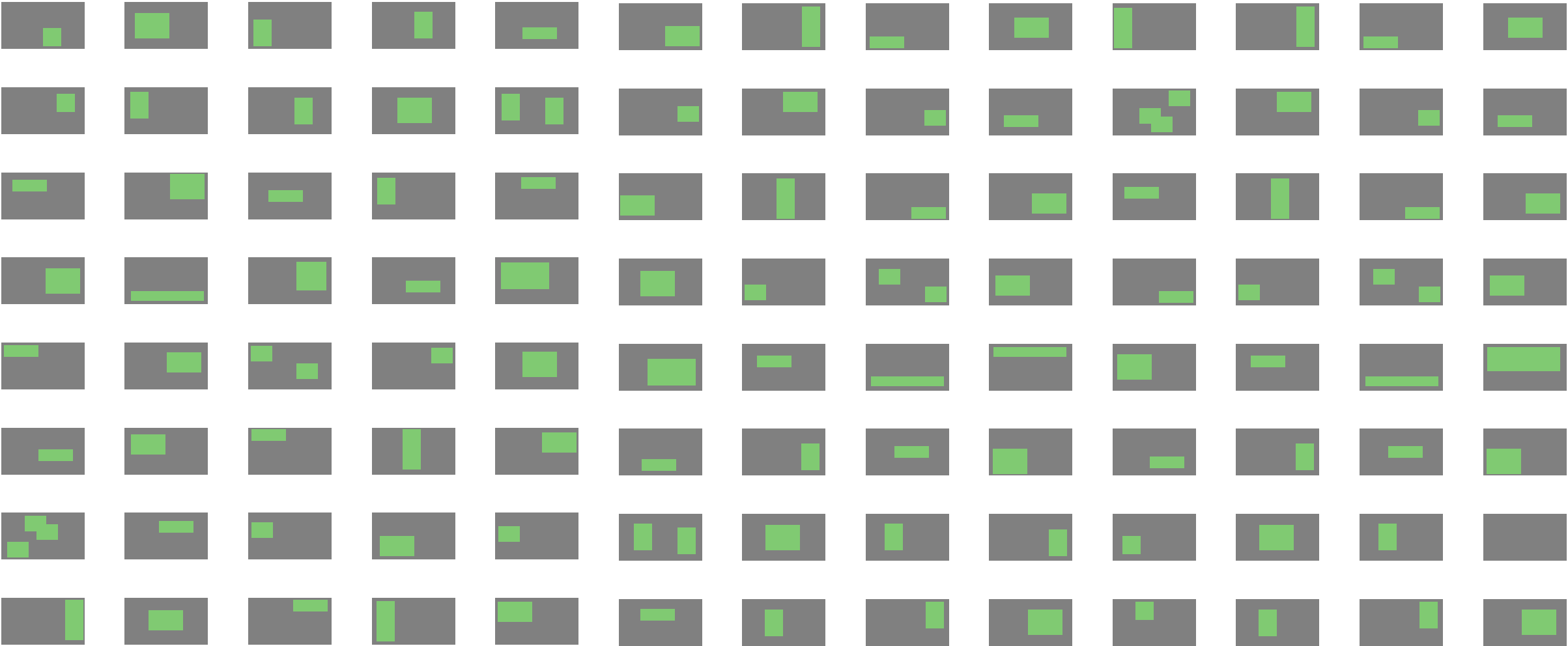








»We want test feedback from our
Continuous Integration (CI) within
10 minutes.«





 Transparency

 Alignment

 Focus





BVK

»We find 70% of all failing commits within only 5% of the test runtime!«

CI stays below 10 minutes,
despite 57% more tests.



ATOSS
Software AG

»Test selection enables us to keep our 80.000 tests under control.«



»Who quality assures
our quality assurance?«



PESWXXT-9565: Remove remaining deprecated keywords from rtl

 Open  requested to merge [PESWXXT-9565_Remove_remain...](#) into [PESWXXT-9423_new_RTL_17_0_0](#) 20 hours ago

Overview **3** Commits **4** Pipelines **5** Changes **17**

 Teamscale Findings  **3**  **3**  **1** **0 Test Gaps (0%)**

Edited 19 hours ago by Gittlab Technical User

 **0**  **0** 

 **Merged result pipeline #72791 passed**
Merged result pipeline passed for [4fb0bf9f](#) 19 hours ago

   →    

8  **Approve** Requires 1 approval from eligible users. 

 **Test summary: no changed test results, 876 total tests**

[Full report](#) 

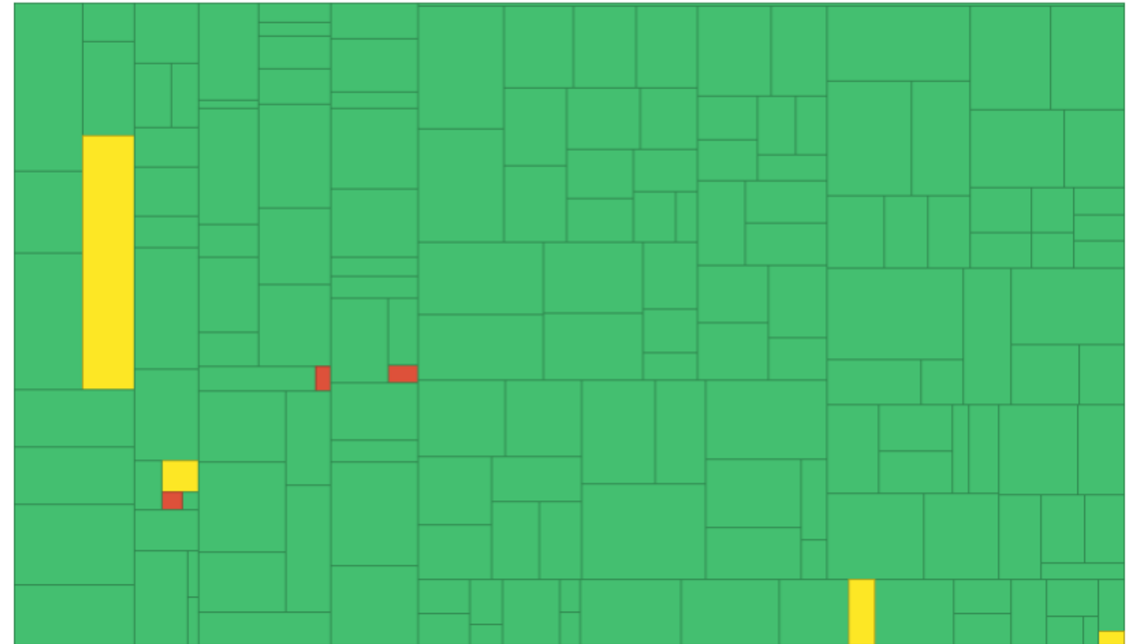
Metrics Table for [robotframework_rational_testlibrary](#)

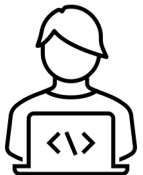
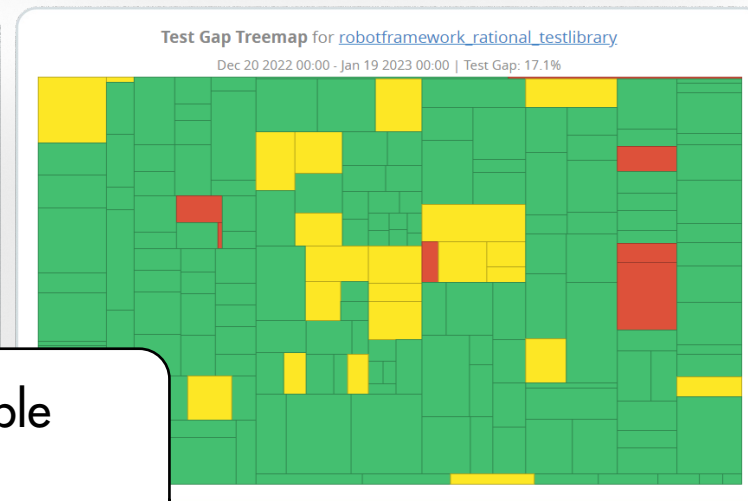
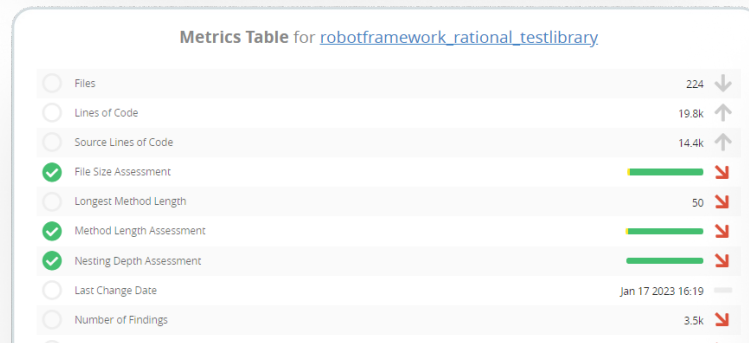
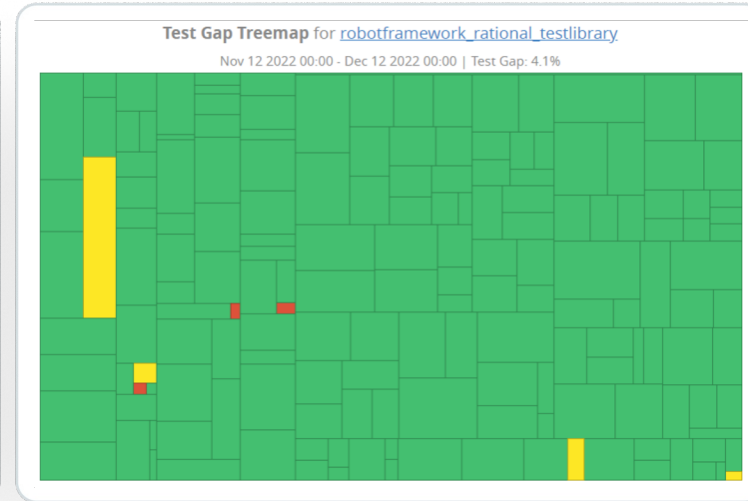
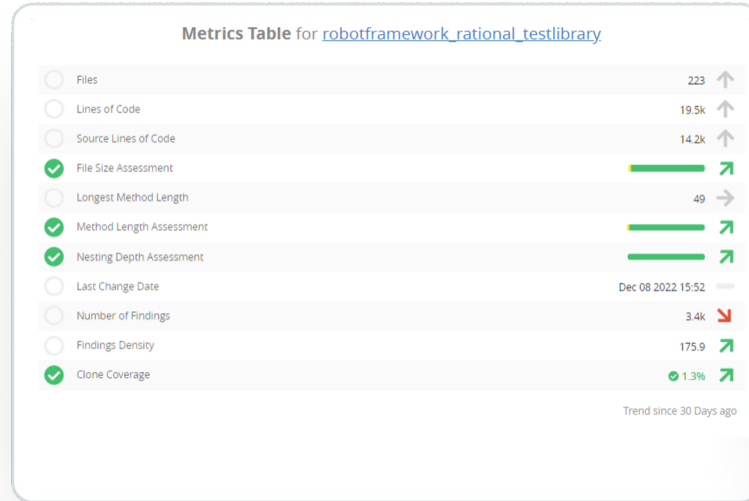
☐	Files	223	↑
☐	Lines of Code	19.5k	↑
☐	Source Lines of Code	14.2k	↑
☒	File Size Assessment		↗
☐	Longest Method Length	49	→
☒	Method Length Assessment		↗
☒	Nesting Depth Assessment		↗
☐	Last Change Date	Dec 08 2022 15:52	—
☐	Number of Findings	3.4k	↘
☐	Findings Density	175.9	↗
☒	Clone Coverage	1.3%	↗

Trend since 30 Days ago

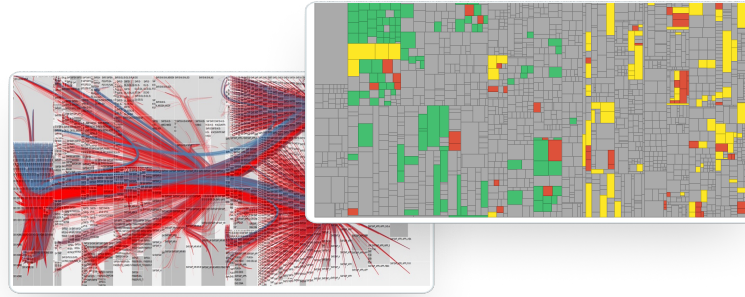
Test Gap Treemap for [robotframework_rational_testlibrary](#)

Nov 12 2022 00:00 - Dec 12 2022 00:00 | Test Gap: 4.1%





»This constant transparency leads to people being gripped by sporting ambition.«



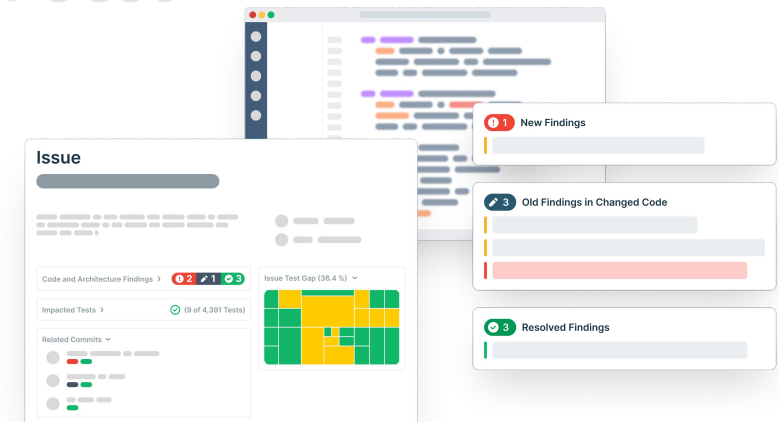
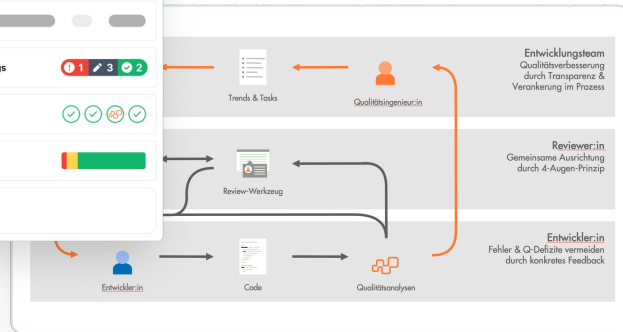
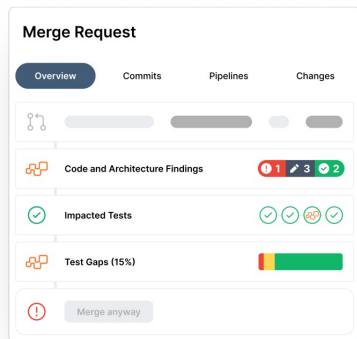
 Transparency

Deliver High-quality Software



 Alignment

 Focus



Deep Dives



tmscl.me/sit26-allianz

ATOSS

tmscl.me/sit26-atoss

BVK

tmscl.me/sit26-bvk



tmscl.me/sit26-dolby

EnBW

tmscl.me/sit26-enbw

Munich Re

tmscl.me/sit26-mr



tmscl.me/sit26-p7s1



tmscl.me/sit26-rational



tmscl.me/sit26-sew

Vestas

tmscl.me/sit26-vestas



tmscl.me/sit26-vkb



Thank you for your participation!

Statische Codeanalyse: Stolz und Vorurteil... und Zombies

Mittwoch

23. September, 2026

10:30 bis 12:00 Uhr

online & kostenlos – mit Aufzeichnung

Register now: tmscl.me/si269-si266



**Ben
Wolf**



**Sven
Amann**

Contact



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Continuous Quality in Software Engineering