

# Test Intelligence mit Teamscale live am Beispiel

Dr. Elmar Jürgens  
Jakob Rott

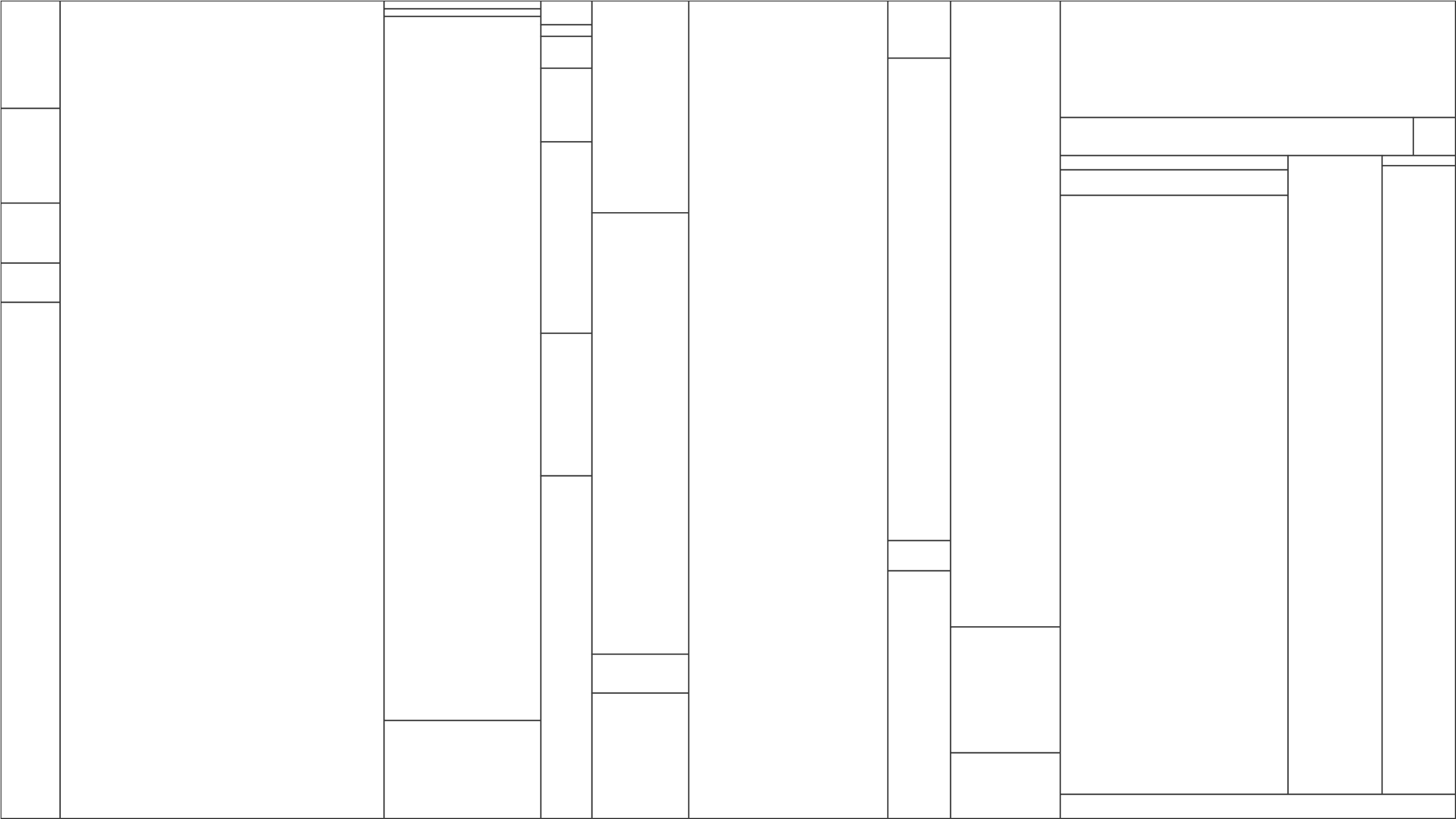


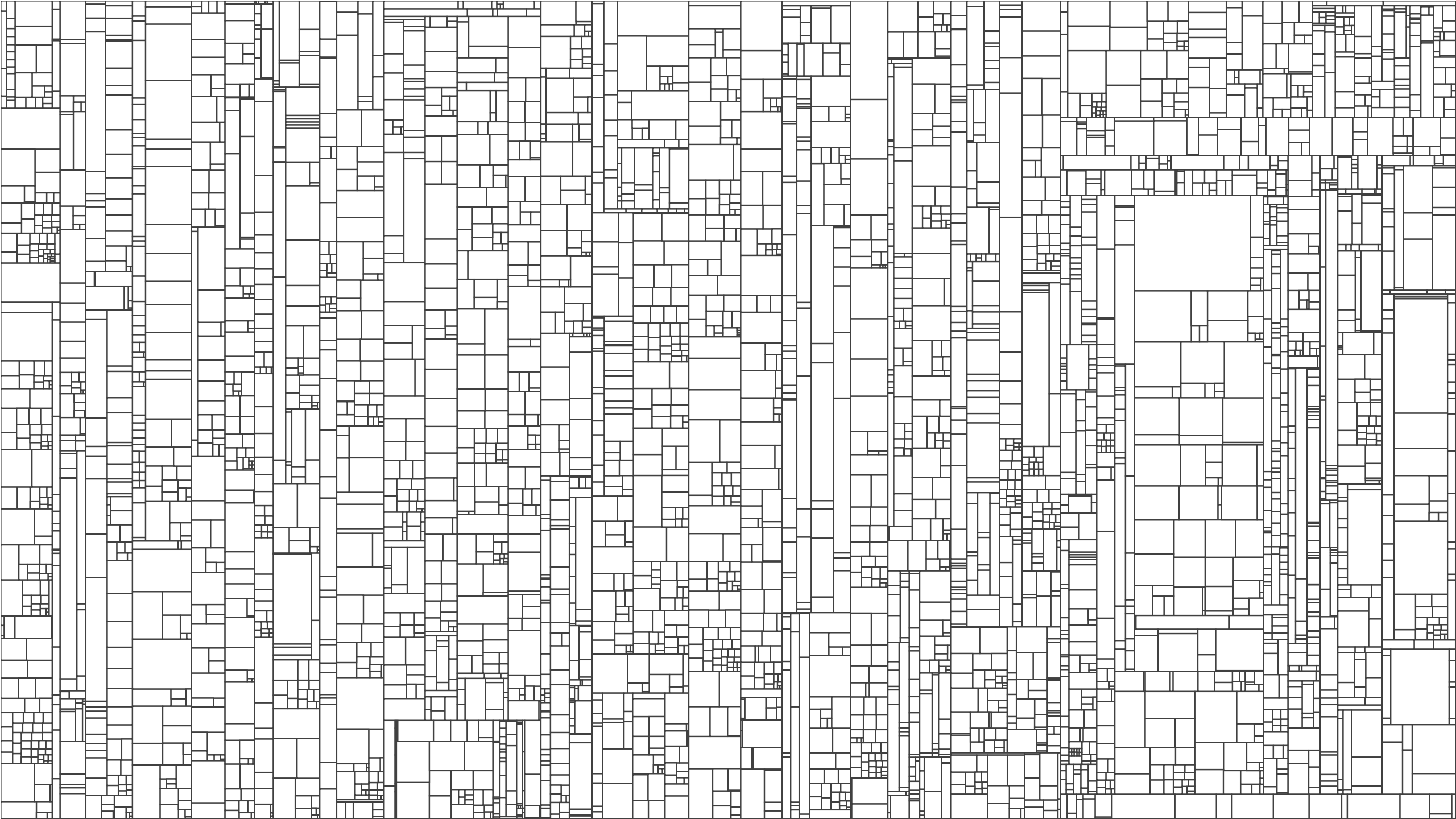
**Mehr  
Effektivität  
&  
Effizienz**

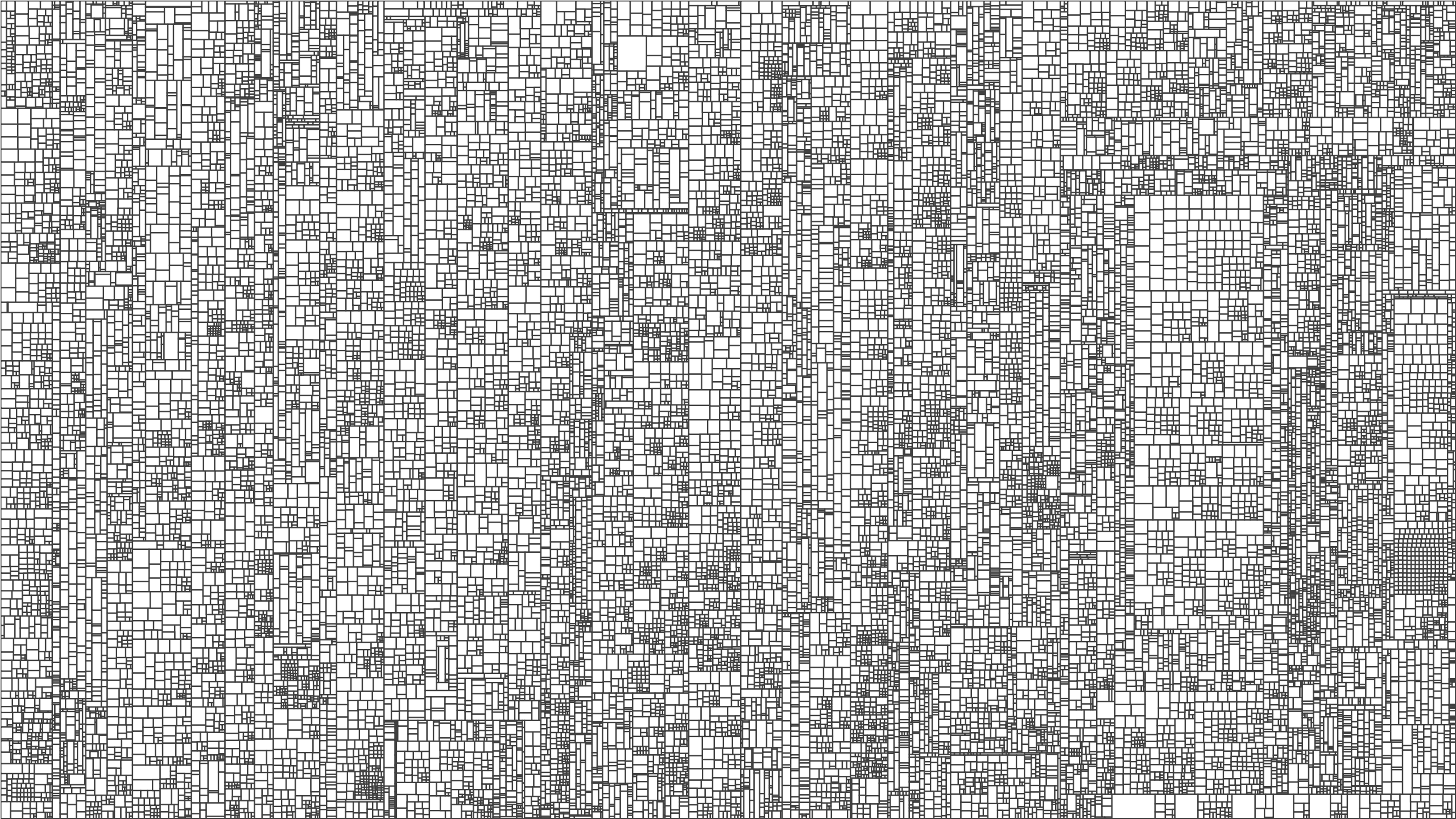


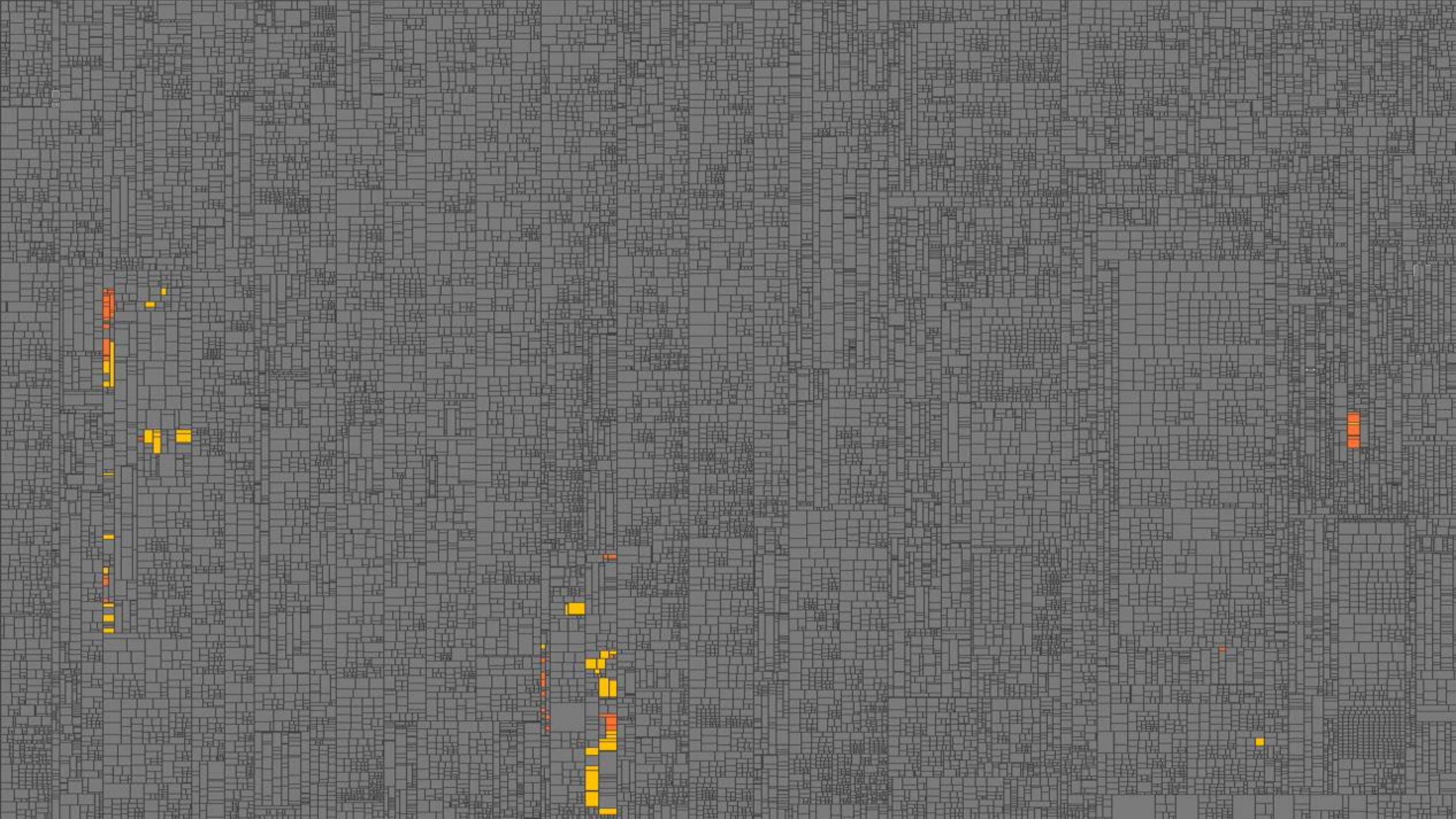
Mehr  
Effektivität  
&  
Effizienz



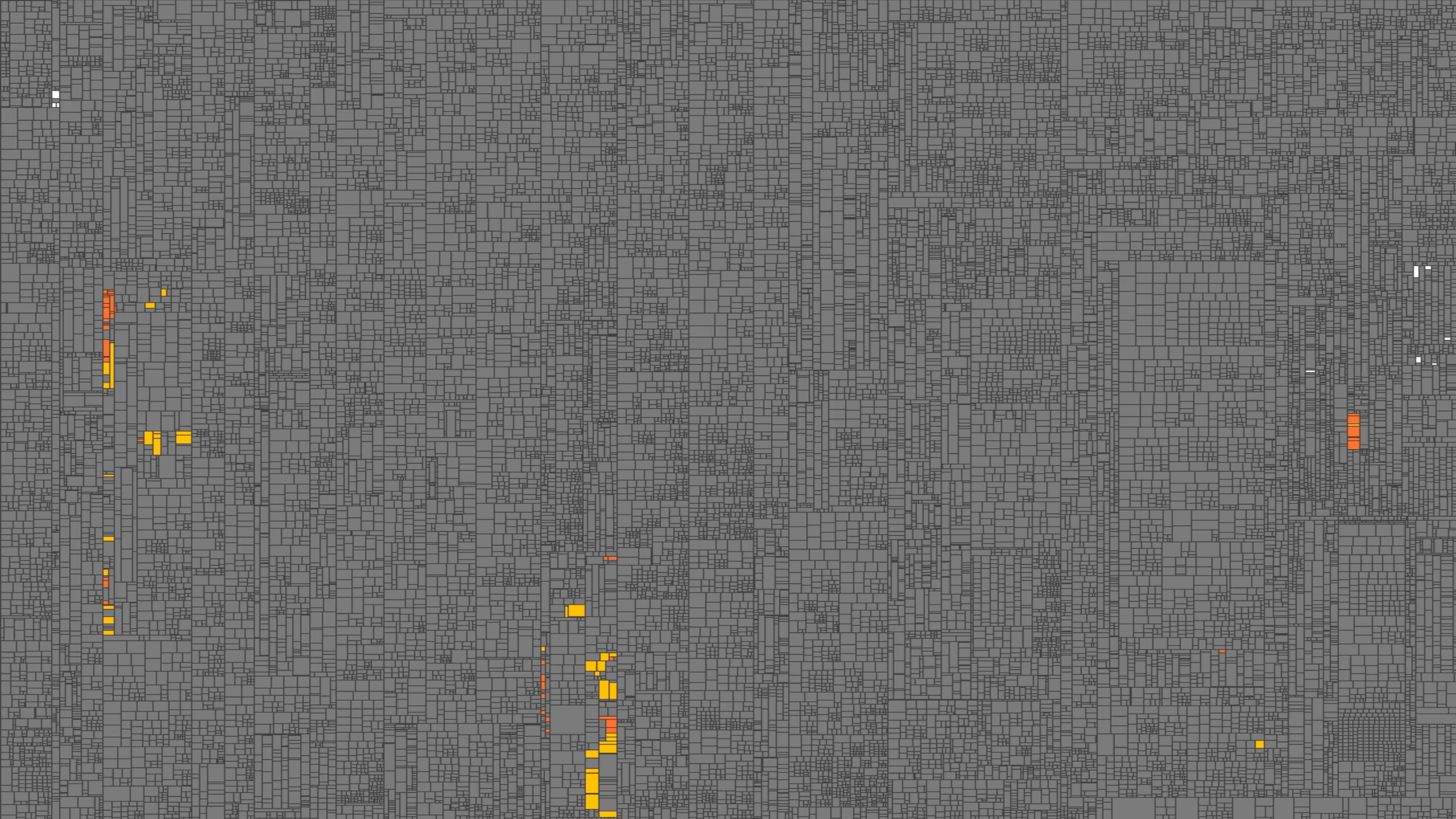


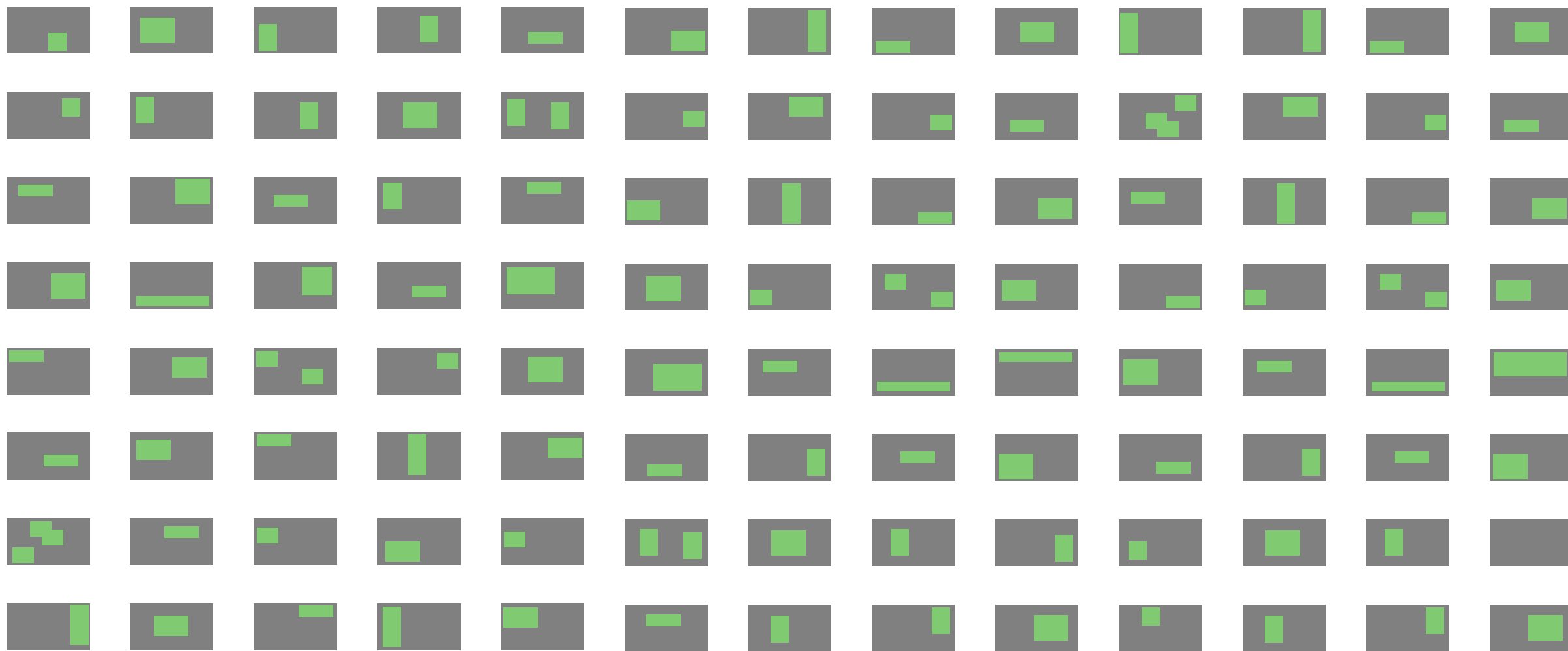








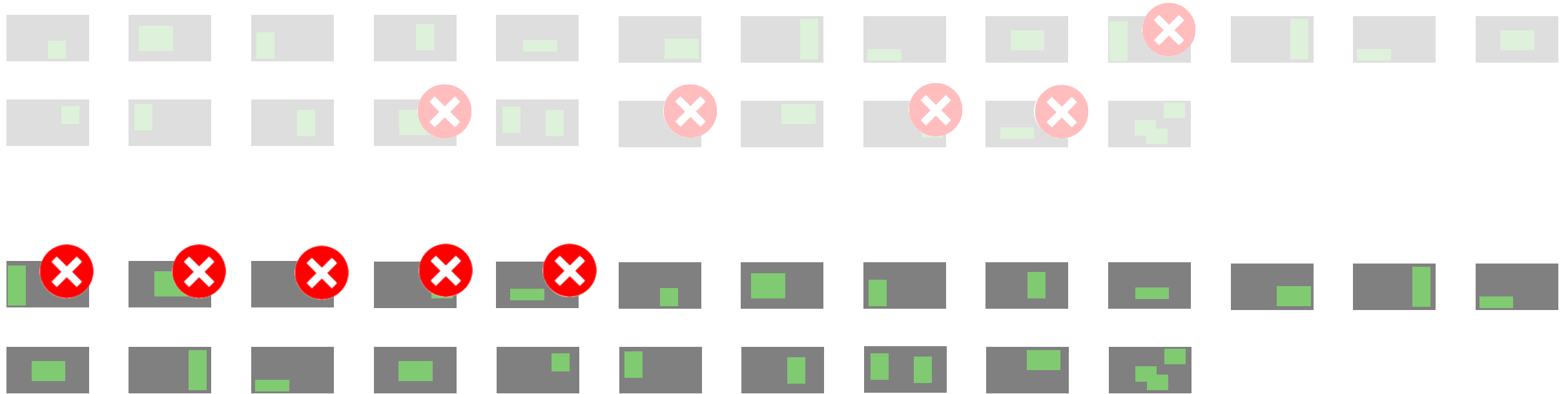




# Schritt 1: Selektion betroffener Testfälle

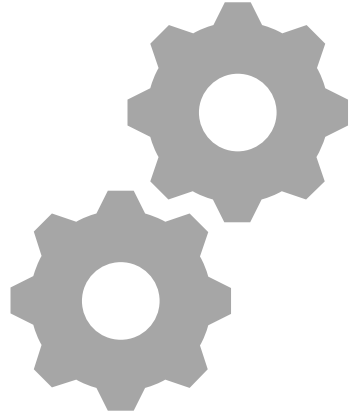


## Schritt 2: Priorisierung selektierter Testfälle



# Schritt 2: Priorisierung selektierter Testfälle



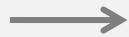


# Test-Impact Analyse

## Initiale Aufzeichnung aller Tests



Ausführung  
aller Tests



Coverage & Laufzeit  
für alle Tests

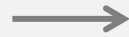


## Test-Impact-Analyse

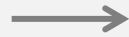
## CI Pipeline



VCS

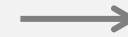


Codeänderung



- Test-Selektion
- Test-Priorisierung

Test-Impact-Analyse



Änderungsrelevante und  
sortierte Testfälle









**Mehr**  
**Effektivität**  
**&**  
**Effizienz**

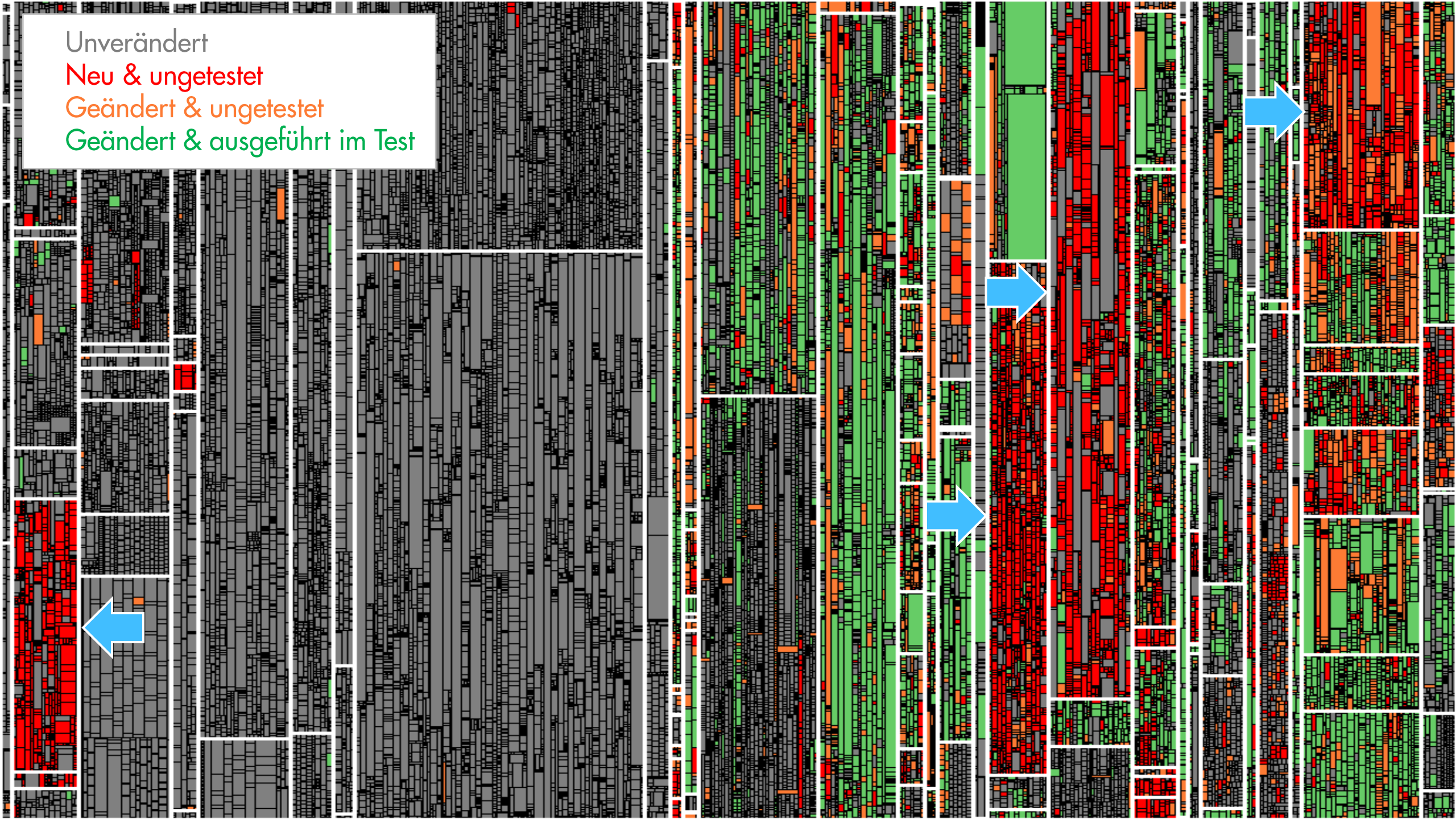


















Unverändert

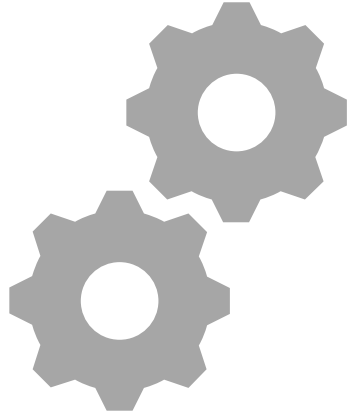
Neu & ungetestet

Geändert & ungetestet

Geändert & ausgeführt im Test



Issue # ▾	Subject			Test Gap
<a href="#">🔗 TS-10549</a>	Undo/Redo for web-based architecture editor	Done		0% 
<a href="#">🔗 TS-10784</a>	Fix long method finding in TaintAnalysisRunner	Done		0% 
<a href="#">🔗 TS-10923</a>	Implement metric 'Nesting Depth' for Simulink	Done		29% 
<a href="#">🔗 TS-11364</a>	External findings are not registered during first upload	Done		14% 
<a href="#">🔗 TS-11942</a>	Manual test coverage upload during development	Done		43% 
<a href="#">🔗 TS-12050</a>	Tool for transferring findings blacklists and tasks	Done		50% 
<a href="#">🔗 TS-12262</a>	Cannot set or alter alias without reanalysis	Done		0% 
<a href="#">🔗 TS-13151</a>	Fetch parent relationship of TFS work items	Done		0% 



# Test-Gap Analyse

**Mehr**  
**Effektivität**  
**&**  
**Effizienz**





# Change-Driven Testing

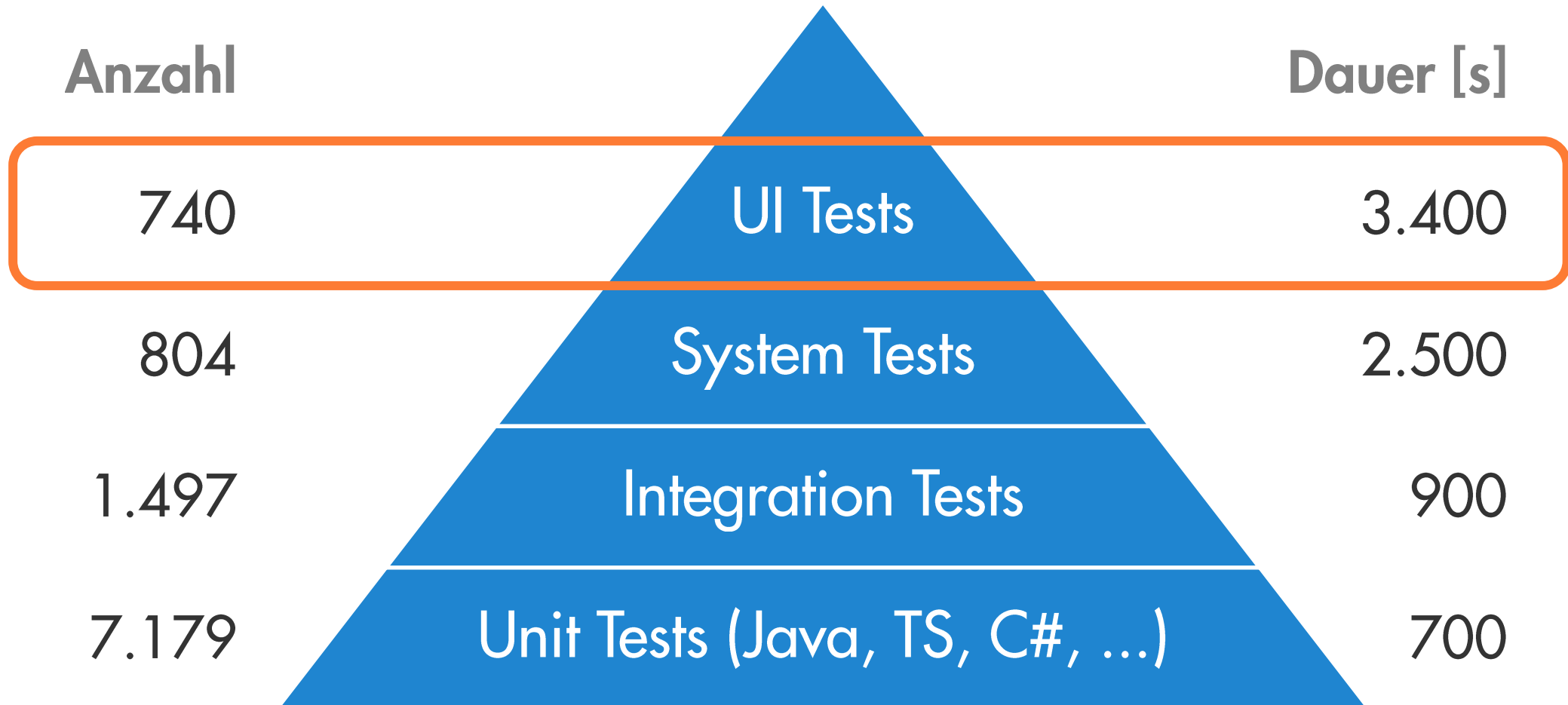
# Demo



[www.teamscale.com](http://www.teamscale.com)





















# Wie wir Teamscale testen



























# External Credentials

[+ New External Credentials](#)

System Type	Account Name	Actions	Projects
 Git	ABAP Repositories (file:///work-dir/sap.abap.system/)	 	
 Git	CQSE abapGit (https://github.com/cqse/abap-dev.git)	 	
 Multiple Systems	CQSE-JIRA (https://jira.cqse.eu/)	 	<a href="#">abap-cqi and 2 more</a>
 GitHub	Github Public (https://github.com/)	 	<a href="#">python-client and 3 more</a>
 Git	Github SSH (git@github.com:cqse/teamscale-profiler-dotnet.git)	 	
 Multiple Systems	Gitlab (https://git.cqse.eu/cqse/teamscale.git)	 	<a href="#">cqse-all-qc</a>

# External Credentials

[+ New External Credentials](#)

System Type	Account Name	Actions	Projects
 Git	ABAP Repositories (file:///work-dir/sap.abap.system/)	  	
 Git	CQSE abapGit (https://github.com/cqse/abap-dev.git)	  	
 Multiple Systems	CQSE-JIRA (https://jira.cqse.eu/)	  	<a href="#">abap-cqi and 2 more</a>
 GitHub	Github Public (https://github.com/)	  	<a href="#">python-client and 3 more</a>
 Git	Github SSH (git@github.com:cqse/teamscale-profiler-dotnet.git)	  	
 Multiple Systems	Gitlab (https://git.cqse.eu/cqse/teamscale.git)	  	<a href="#">cqse-all-qc</a>



Teamscale / TS-15717

# Enable deleting account credentials

- Edit
- Comment
- Assign
- More ▾
- Back to New

## Details

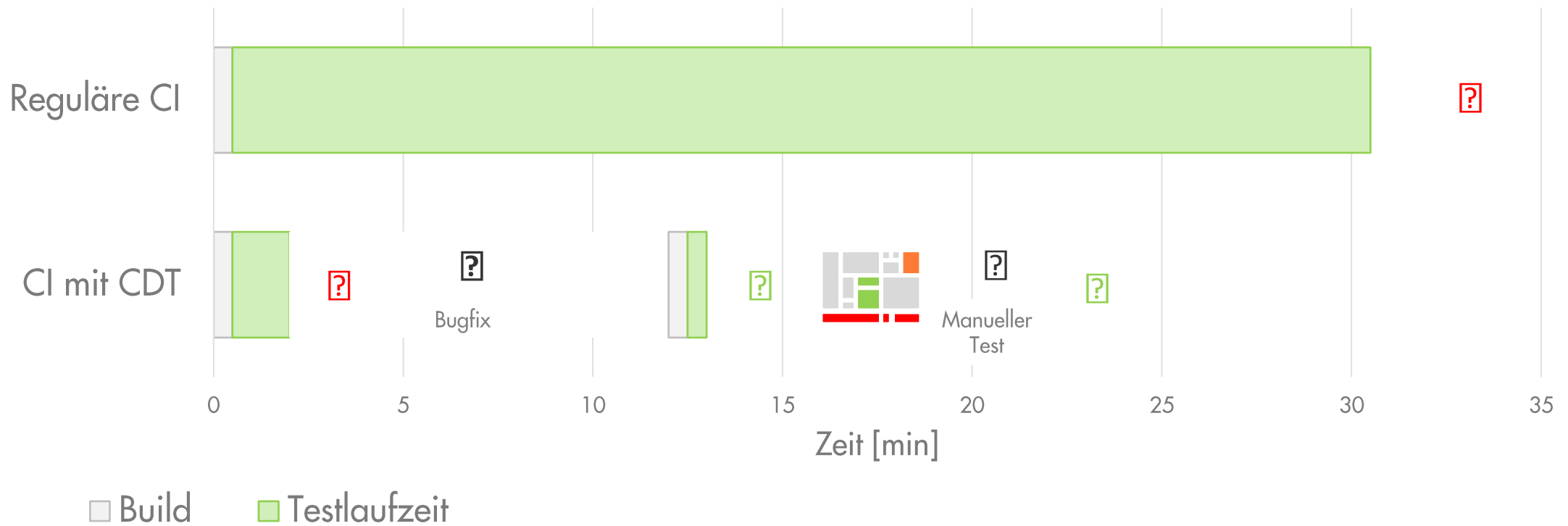
Type:	<span>+</span> Feature	Status:	<span>DONE</span> (View Workflow)
Priority:	<span>↓</span> Normal	Resolution:	Green
Component/s:	<a href="#">Web Interface</a>	Fix Version/s:	<a href="#">Teamscale 4.6</a>
Labels:	<a href="#">accounts</a> <a href="#">administration</a> <a href="#">easy</a> <a href="#">students</a>		
Merge Request:	<a href="https://git.cqse.eu/cqse/teamscale/merge_requests/3679">https://git.cqse.eu/cqse/teamscale/merge_requests/3679</a>		
Customer:	[REDACTED]		
PDash Task:	#4887		
Change Log:	Account credentials show a list of their assigned projects		

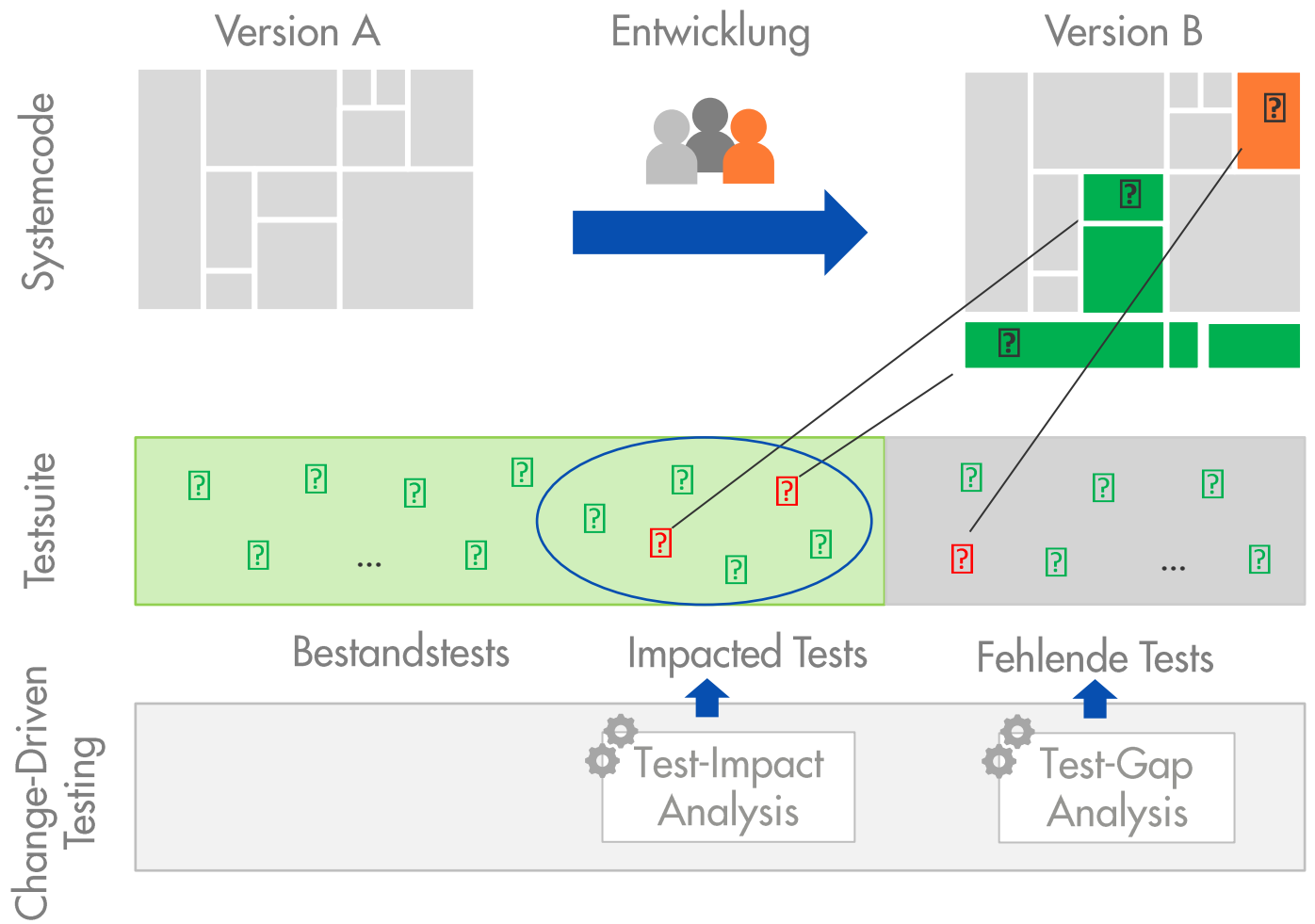
## Description

It would be useful for an admin to know which TS projects are configured to use a particular credential. Especially to locate unused credentials that can be deleted. This could be shown as a short list next to the credential name, similar to how we do this for the analysis profiles.

**Demo**

# Zusammenfassung





Version A

Entwicklung

Version B

Systemcode

Testsuite

Change-Driven  
Testing

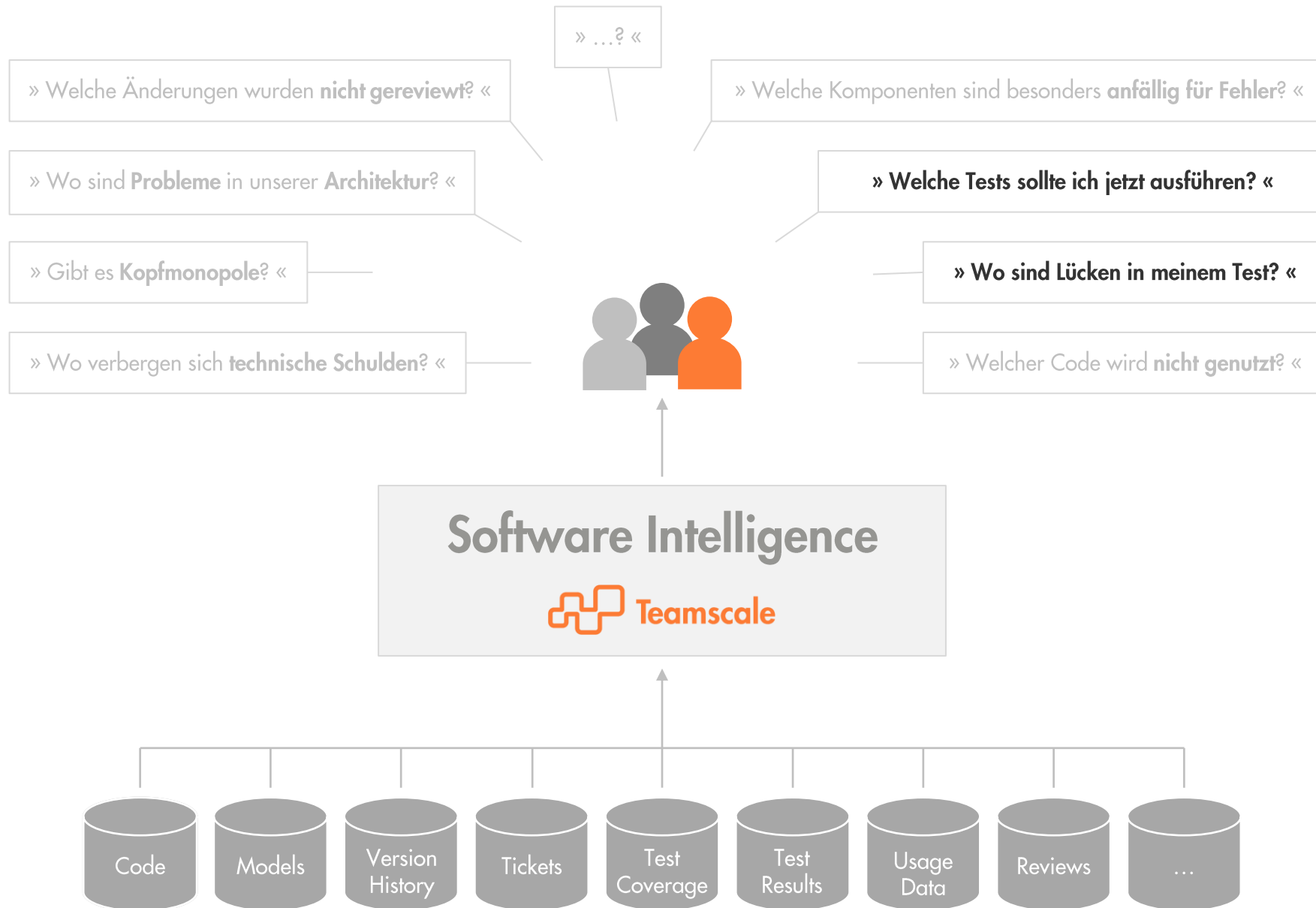
Bestandstests

Impacted Tests

Fehlende Tests

Test-Impact  
Analysis

Test-Gap  
Analysis





## Test-Gap-Analyse

Ungetestete Änderungen im Quelltext aufdecken



15. Februar

10:30-12:00 Uhr

[cqse.eu/tga-232-oopd](https://cqse.eu/tga-232-oopd)



25. April

10:30-12:00 Uhr

[cqse.eu/tga-234-oopd](https://cqse.eu/tga-234-oopd)



## Schnelles Feedback trotz langsamer Tests

Testselektion für historisch gewachsene Test-Suites



15. März

10:30-12:00 Uhr

[cqse.eu/ts-233-oopd](https://cqse.eu/ts-233-oopd)



14. Juni

10:30-12:00 Uhr

[cqse.eu/ts-236-oopd](https://cqse.eu/ts-236-oopd)



# Kontakt – Wir freuen uns auf Fragen 😊



Dr. Elmar Jürgens · [juergens@cqse.eu](mailto:juergens@cqse.eu) · +49 179 675 3863

Jakob Rott · [rott@cqse.eu](mailto:rott@cqse.eu) · +49 172 186 0190

CQSE GmbH  
Centa-Hafenbrädl-Str 59  
81249 München  
[www.cqse.eu](http://www.cqse.eu)