



# R&D DASHBOARD SUPPORT

## Background

The use of dashboards has been spreading throughout R&D organizations. Management needs the ability to step back from the details and see the bigger, complete picture. Dashboards or cockpits with the right information perform that function. From tracking project performance to the latest number of reported field defects, dashboards aim to provide a quick, comprehensive snapshot of how well an organization, business unit, or project is performing.

The challenge in dashboard design is to create an easy-to-read, informative, relevant report. It is difficult enough to construct a single chart that clearly communicates information to your executives; with a dashboard you attempt to integrate multiple sources of information such that the whole is greater than the sum of the parts.

Dashboards are not "one size fits all," and care must be given to their design. Getting too little or too much data is easy, identifying the relevant data and converting it to meaningful information for everyone is the challenge. By customizing the exact set of graphs and tables for specific groups of executives, R&D managers can ensure the dashboard is as effective as possible.

## Our offering

We help you to build a dashboard that are aligned with your specific R&D goals, derive together with you specific targets that help meeting these goals and develop KPI definitions including measurement constructs for each target. As some R&D goals and target areas are often identical to similar organizations, we are able to re-use existing KPIs, saving you time and money.

Once the definitions are baselined, their implementation should be step-wise performed, finding the right balance between ambition level and organizational readiness. Support during this implementation phase is normally beneficial to you, assuring that common pitfalls are avoided.

## For further information

Please contact us at T: +41 33 733 4682 or E: [info@se-cure.ch](mailto:info@se-cure.ch).



Typical phases for “R&D Dashboard Support”.

R&D Goals	Plan	Design	Test	Operation	Innovation
Increase post-release quality	Plan Validation Ratio				
Improve schedule adherence	Schedule Performance Index				
Improve design-to-cost adherence	Cost Performance Index				
Reduce time-to-market	Design-to-Cost Performance Index	Prevention/Appraisal Index			
Improve system architecture	Requirements Volatility Index	Re-Use Ratio			
Extend product lifecycle	Software System Complexity	System Churn Index			
Increase innovation level	Requirements-to-Test Coverage Ratio	Test Automation Ratio			
	Software Defect Density	Feature Usage Ratio			
	Product Lifecycle Ratio	Development Effort Ratio			
	Innovation Level Ratio	Research Production Index			
	Patent Success Index				

  

Targets
Improve schedule/effort/cost estimates
Detect schedule deviations early
Detect budget deviations early
Detect design-to-cost deviations early
Increase (early) defect detection
Limit scope changes
Increase level of re-use
Reduce system complexity
Limit software/hardware changes
Improve test coverage
Improve system testability
Decrease defect injection
Decrease level of non-contributing features
Increase product life expectancy
Reduce cost of non-quality
Focus on products with new features
Increase idea-to-product performance
Increase number of cash-generating patents

P: primary impact  
 +: strong impact  
 o: medium impact

Snapshot showing example of relation between goals, targets and KPIs.