

Test Improvement 4 Automation.

Improving product quality and reducing costs are necessary. Shortening time-to-market in combination with more frequent releases are an irreversible trend. It is impossible to achieve these goals without test automation. Since true success stories are scarce, Polteq has developed TI4Automation: the approach for successful implementation and improvement of test automation based on hands-on experiences and good practices.

What is TI4Automation?

Essential characteristic of TI4Automation is the stepwise implementation and improvement of test automation, tuned to its context.

- **Define realistic goals**

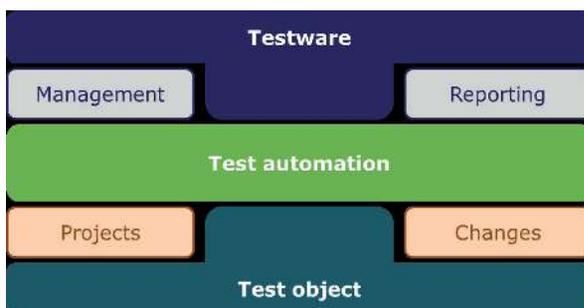
When is test automation successful? What deadlines have been set? Which resources are available?

- **Develop the business case**

To what extent does test automation contribute to achieving the defined objectives, now and in the future?

- **Analyze the context**

Test automation has to be in line with the followed test, development and maintenance approach.



Context of test automation

- **Create an architecture**

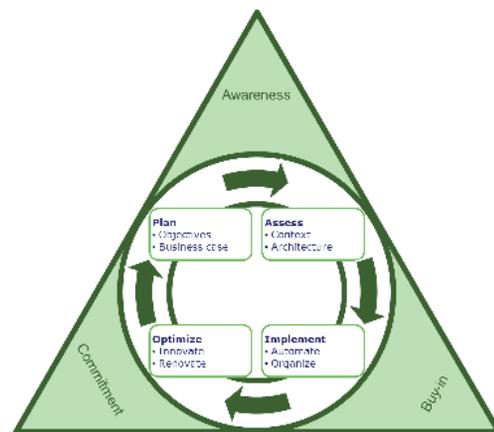
Successful test automation tightly fits in with the technical landscape. A good architecture is crucial.

- **Automate and organize**

Implementation and improvement of test automation, including tool selection, require a team with the right mix of skills and expertise.

- **Innovate and renovate**

Test automation is successful if it is sustainable. Budget and time are needed for continuous optimization.



Stepwise implementation and improvement

TI4Automation enables you to implement test automation:



Effectively and efficiently



Future-proof and sustainable, tuned to your specific context

Applying TI4Automation

In order to define the test automation solution that best fits in the context, an assessment is performed.

TI4Automation contains ten key areas, each with a number of checkpoints to define the current and the required test automation maturity per key area. The key areas together cover all essential aspects of test automation.

Once the assessment is concluded, the test automation maturity matrix gives clear and detailed insight in the current and required test automation maturity. This is the starting point for successful improvement of test automation.

Senior test automation consultants of Polteq perform a TI4Automation assessment and define the desired test automation maturity level including the necessary steps to achieve that level

Key area		Forming				Norming				Performing			
1	Automation strategy	1	2	3	4	1	2	3	4	1	2	3	4
2	Automation architecture	1	2	3	1	2	3	4	1	2	3	4	
3	Automation standards	1	2	3	1	2	3	4	1	2	3		
4	Automation scripts	1	2	3	1	2	3	4	1	2	3		
5	Team	1	2	3	1	2	3	4	1	2	3		
6	Test environments	1	2	3	4	1	2	3	4	1	2	3	4
7	Test data	1	2	3	1	2	3	4	1	2	3	4	
8	Tooling	1	2	3	4	1	2	3	4	1	2	3	
9	Tool integration	1	2	3	1	2	3	4	1	2	3		
10	Planning & estimation	1	2	3	1	2	3	4	1	2	3		
		Enable testing to achieve its goals				Integrate test automation in daily activities				Continuously improve and adapt to context			

TI4Automation® maturity matrix

How can Polteq help?

Polteq has developed TI4Automation based on:



A worldwide network of experts



Extensive experience with TPI



Hands-on test automation experience in different environments