Project Management

SCRUM, UML, Testing

Automotive | Automation
Green Energy

MathWorks Partner

Optimize your process management to:

- **improve transparency** throughout your business processes
- **promote high product reliability** for your customers
- **react quickly and flexibly** to new challenges

The Sokratel Systems Engineering Team can support you with high level expertise from **planning products from scratch** up to **implementing a strategy** to obtain the **best quality** for the customer during the product life cycle.

Agile Project Management

The well-known agile project management method **SCRUM** offers many advantages like **transparency** during all development steps, **flexibility, agility** and **team empowerment.**

After each development cycle (called sprint) product artifacts allow you to check on the progress of the product. Our **certified professional SCRUM Masters** can integrate the SCRUM process into your teams, offer support and ensure that the SCRUM process is optimally implemented to use the full potential of agile project management.

Software Architecture

High quality software architecture describes and defines the relationship between the system, its subsystems, and its environment. Changes in this system have an immediate, noticeable impact. The coordinated system operation ensures the delivery of the required performance and effectiveness. For software programs, this can be achieved by using the **Unified Modelling Language**, shortly **UML**. Sokratel is using the tool **draw.io** to create architectures of our products, we highly recommend this tool and offer you support for its correct use.

The extension **SysML** provides a large range of possibilities to graphically model the behaviour of e.g., technical systems. For model-based systems engineering, the **System Composer** by MathWorks® Simulink® is an excellent tool to create your Simulink system architecture and link it to the systems requirements.

Requirement Management/ Engineering

There are two types of requirements: **functional** and **non-functional.** Functional requirements refer to functional and technical aspects, while non-functional requirements describe the appearance or behavior of a product. During a development process, stakeholders, customers or the developers create requirements.

Good requirements contain as **little information** as possible about how they are to be implemented and should be **easy to understand, traceable, transparent,** and concise. We offer support in writing optimized requirements so that your developers quickly understand the task and can achieve an effective implementation.

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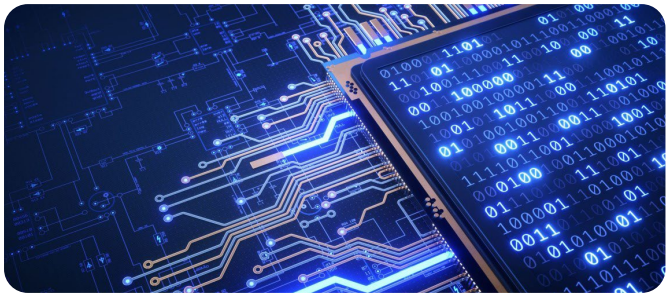

Test Management

Each software needs to be tested and a varied testing with static and dynamical tests increases the quality of the product. As an **ISTQB Certified Tester – Foundation Level (CTFL),** we have detailed knowledge about the test process and various test methods. During a software life cycle, it is mandatory to test rigorously in order to obtain a trustful and valuable product.

Important parts that are often neglected:

- **test organisation**
- **test planning and estimation**
- **test monitoring and control**
- **configuration management**
- **risk management**
- **error management**

However, test methods like **black box testing, white box testing,** and **experience-based testing** aim to detect systematically different classes of errors in a minimum amount of time and with a minimum amount of effort.

To organize your testing, the issue tracking tool **Jira** offers a plugin which is called **Xray**. It provides more functionalities for **test automation frameworks** and issue types like test plans and tests are already included.

You want to learn more?
Scan the QR-Code to explore our website or contact us!

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