

„We connect your test islands“



Services and tools for error prevention and error analysis for cost and time savings in hardware near system and IC testing

Why should you work with Viconnis?



Viconnis Test Technologie GmbH

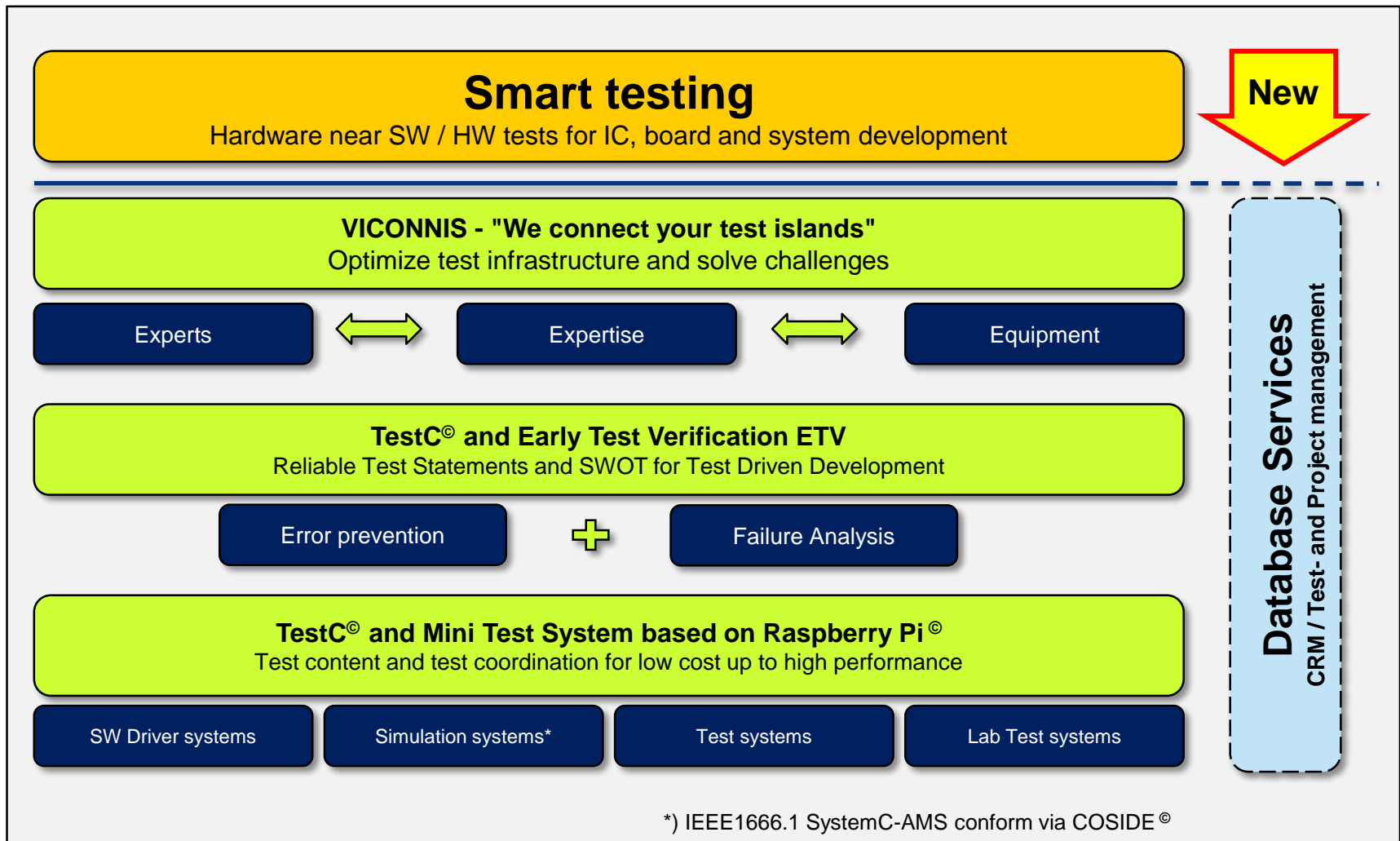
- ✔ Specialist for integrated test architecture of complex hardware & software
- ✔ 40 years of experience in the field of testing and tool development in NXP

Your benefit - today!

- ✔ Connect test Islands - testing, discipline and location across
- ✔ Feasibility study and quality optimization with existing resources
- ✔ Safe target achievement for improved approval / approval by customers
- ✔ Reduction of test time, test costs and customer returns - Time to Market
- ✔ Risk minimization through early reliable test statements and test reports



Smart Testing with Viconnis

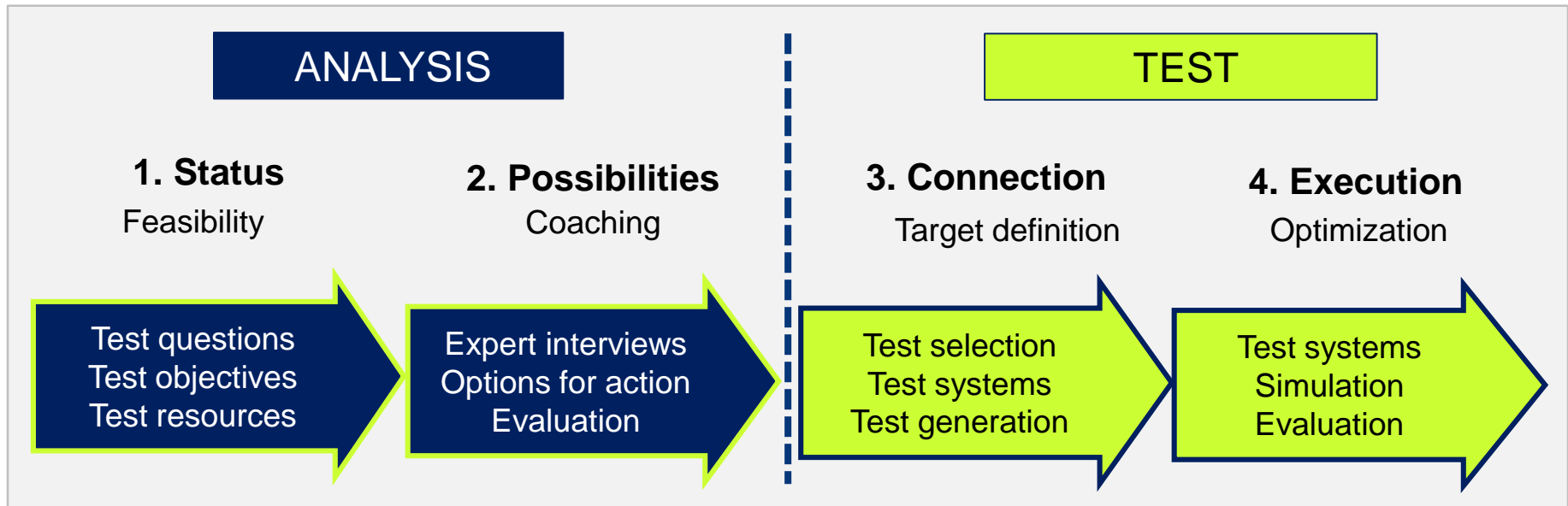




How do we work for you and with you?

Input scenarios that we find among our customers:

- Diffuse, multidimensional, multidisciplinary errors or abnormalities
- Correct individual functions or components; End product / system with errors
- Conflicting, missing or unreliable test results / test systems



Technical coaching for more options for action



Use test experience and make it usable – SWOT*

- ✔ Definition of test questions and strategic goals
- ✔ Status of existing infrastructure - test objects, systems and domains
- ✔ Expert interviews to analyze abnormalities and errors
- ✔ Identification of sources of error - results, test systems and tests
- ✔ Determination of optimization potential for project and test managers
- ✔ Development of options for test engineers and designers

*) Strengths, Weaknesses, Opportunities and Threats

TestC[©] for reliable test statements



Core features of the test software TestC[©]

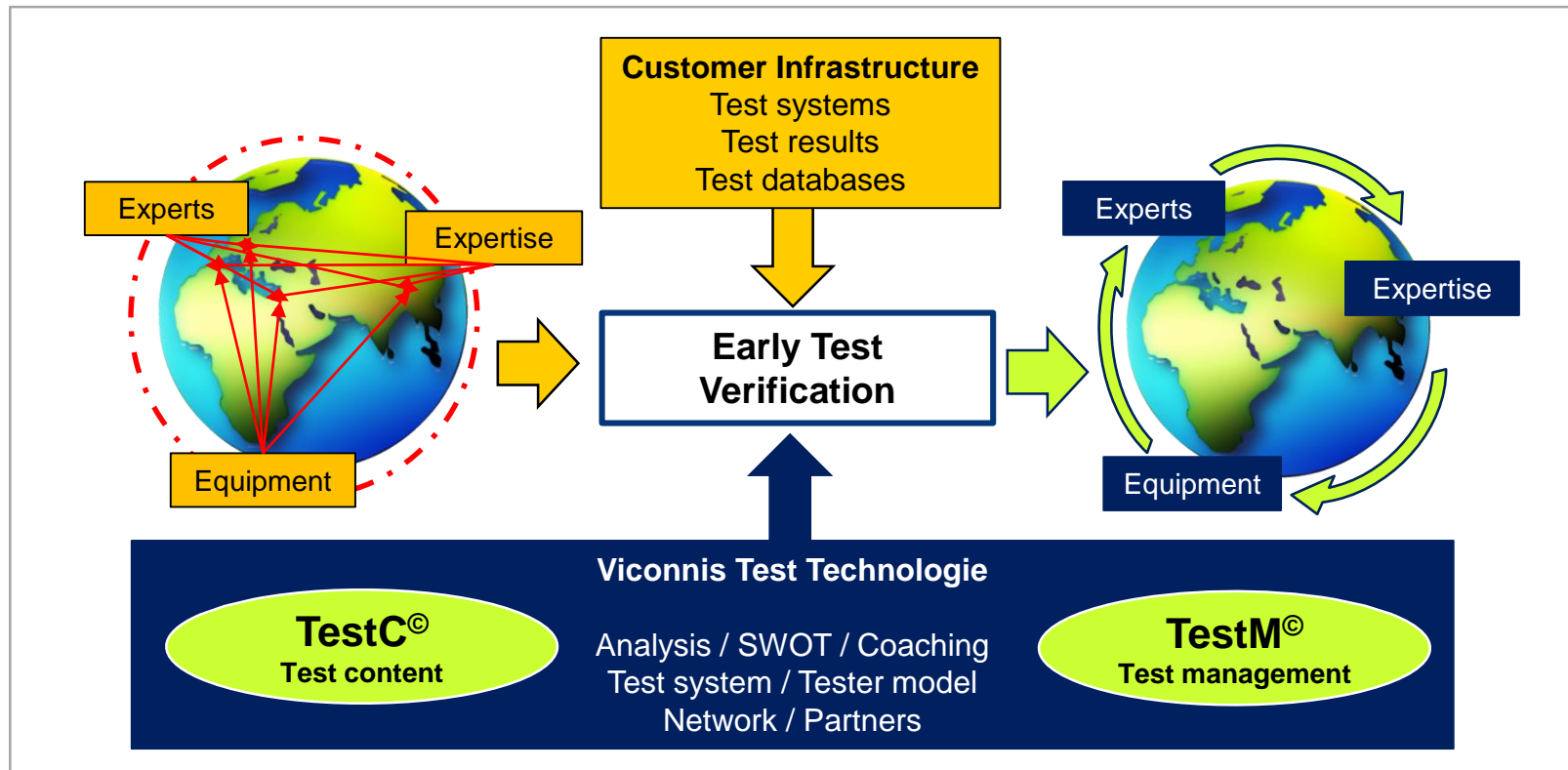
- ✔ Definition of requirements from specification, test and test systems
- ✔ Protocol based, uniquely described and transferable test content
- ✔ Modeling the real tester behavior with loadboard and IC function
- ✔ Generation of test outputs for ATE, laboratory, production test systems
- ✔ Test modeling via COSIDE * for testing in the simulation environment
- ✔ Verification of pass / fail hypotheses via individual tests for critical functions
- ✔ Comparison test in relevant test domains eg: Simulation, ATE, laboratory tester

*) IEEE1666.1 SystemC-AMS conform / Coseda

Understanding the big - making the little one reliable



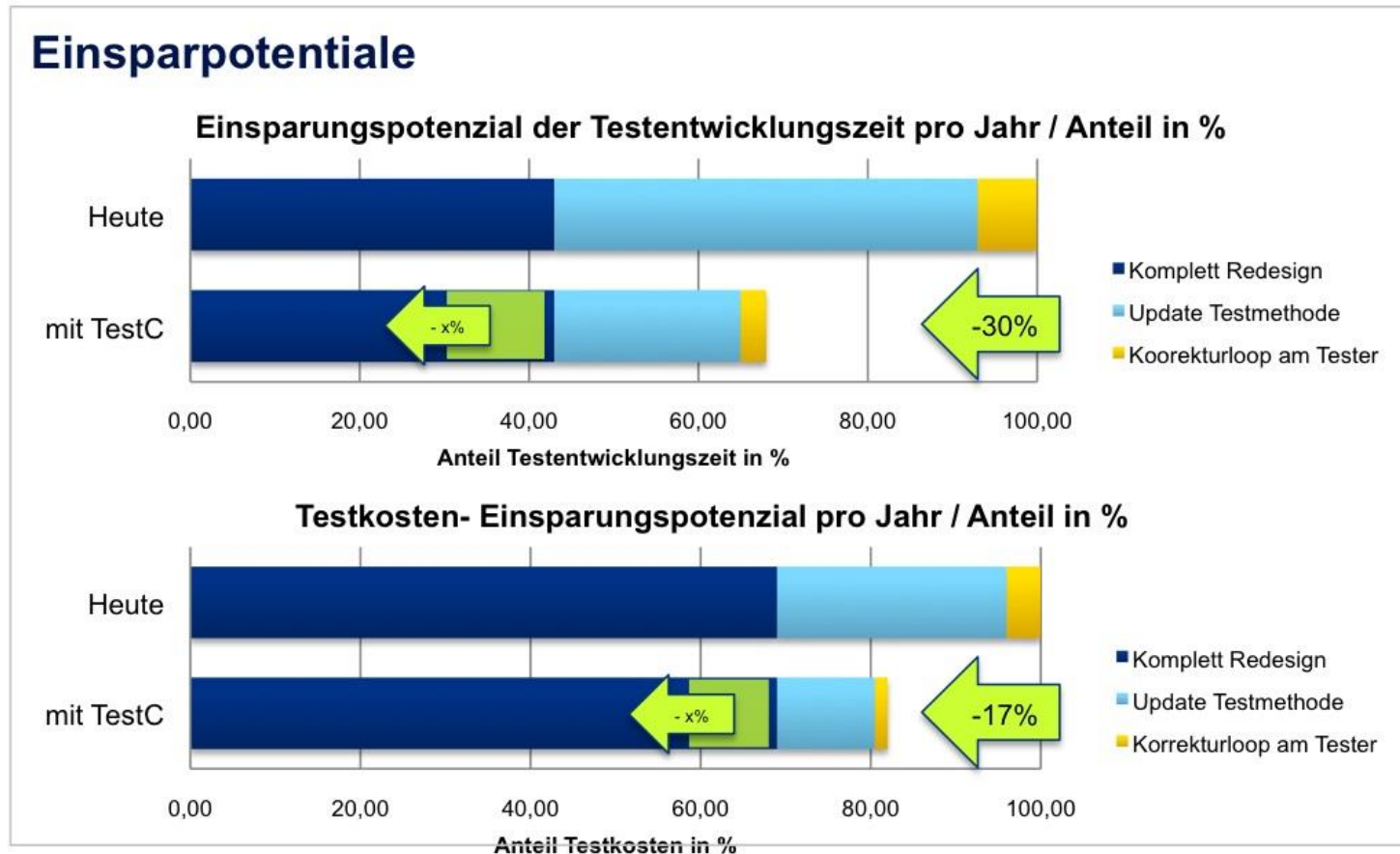
Early design and test verification for hardware-related testing of ICs / Systems



Your experts and our experience for your benefit!



Time and cost savings through networked test infrastructure





Optimized benefits through networked test infrastructure

Economically

- ✓ **Up to 60%** reduction of repetitive loops through agile test execution
- ✓ **Up to 30%** development acceleration through transferable test content
- ✓ **Up to 20%** cost reduction through reusable tests
- ✓ **Early, data-based risk assessment** through intelligent testing

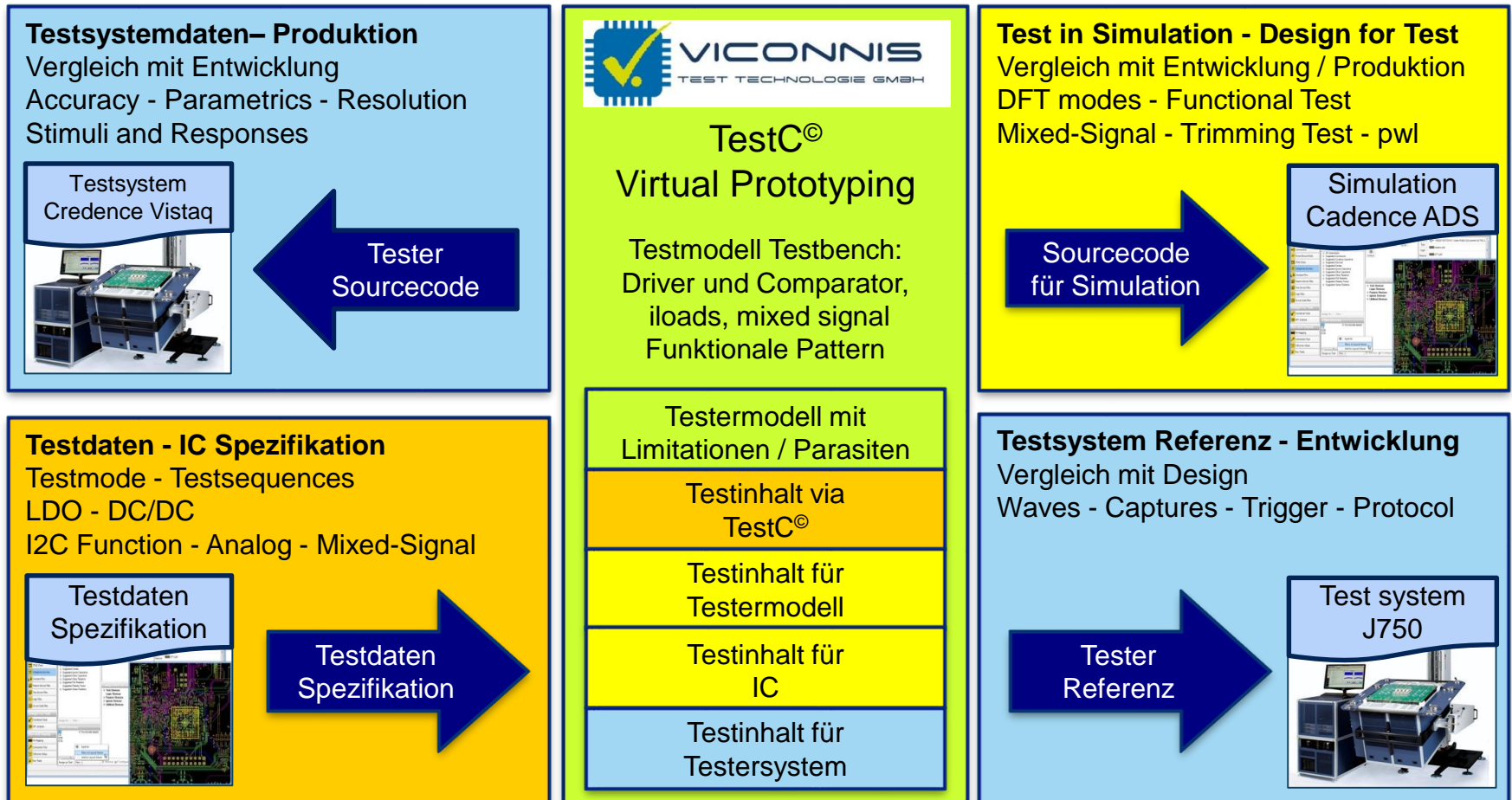
Technically

- ✓ **Error prevention and in-depth analysis** using validated individual tests
- ✓ **Reliable pass and fail statements** for critical core functions
- ✓ **Connection of test reality and simulation** by "Early Test Verification"
- ✓ **Maximum use** of existing test infrastructure, experts and equipment
- ✓ **Networked strategic test view** through common test language and models



Beispiel – IC Entwicklung mit TestC[©]

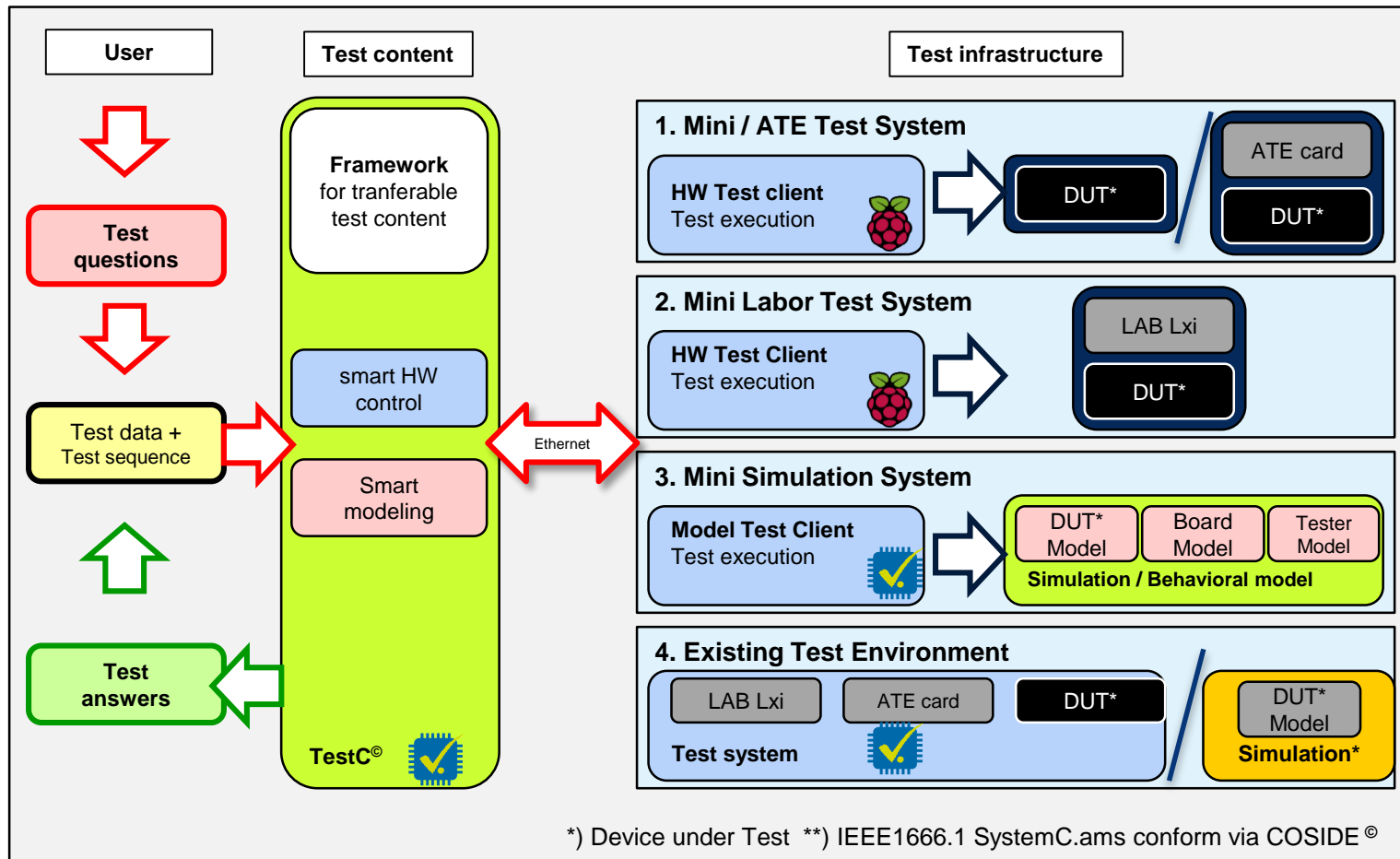
Analyse, Generierung, Simulation und Validierung



Beispiel – TestC[®] und Minitestsystem Raspberry PI[®]



Flexible, scalable and mobile testing options



Understanding the big - making the little one reliable



We have a competence network with strong partners



References





Understanding the big - making the little one reliable

For individual solutions and concrete options for action

We **work and understand ourselves as an accompanying pilot** in which your test process and your IP remain under your control.

We **support your testing process through technical coaching and through our products**, based on our more than 40 years of hands-on testing experience.

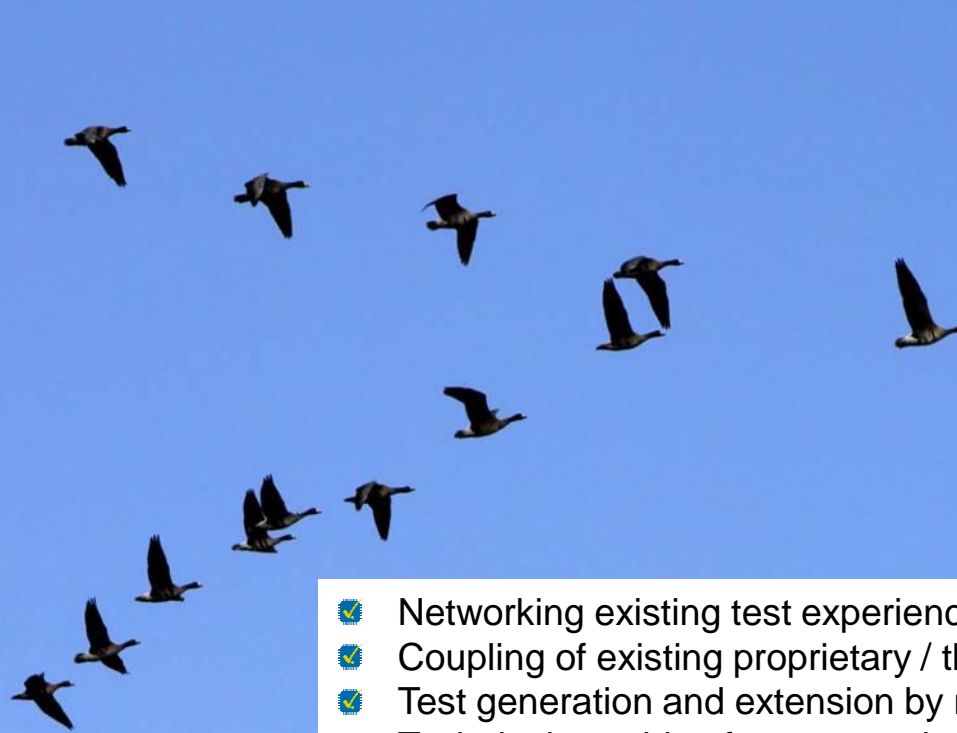
We **translate your test questions for critical test objectives together with your test experts** into relevant individual tests for the respective test domains.

We **network your existing test know-how and relevant test equipment** and make it usable for your individual test infrastructure through intelligent testing.

We **help with error prevention** in development for early, reliable and valid test statements.

Together with you, we develop test strategies for the late error analysis to confirm the delivered end user functionality.

„We connect your test islands“



- ✔ Networking existing test experience and test results
- ✔ Coupling of existing proprietary / third party test equipment
- ✔ Test generation and extension by mini-test systems
- ✔ Technical coaching for structural optimization
- ✔ Test validation and verification for strategic testing
- ✔ Database development for test, project and customer data

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