nagarro

Agile Testing Services

Building quality continuously

Agile QA is tricky...

So little time.

So many changes with each sprint.

So much can go wrong.

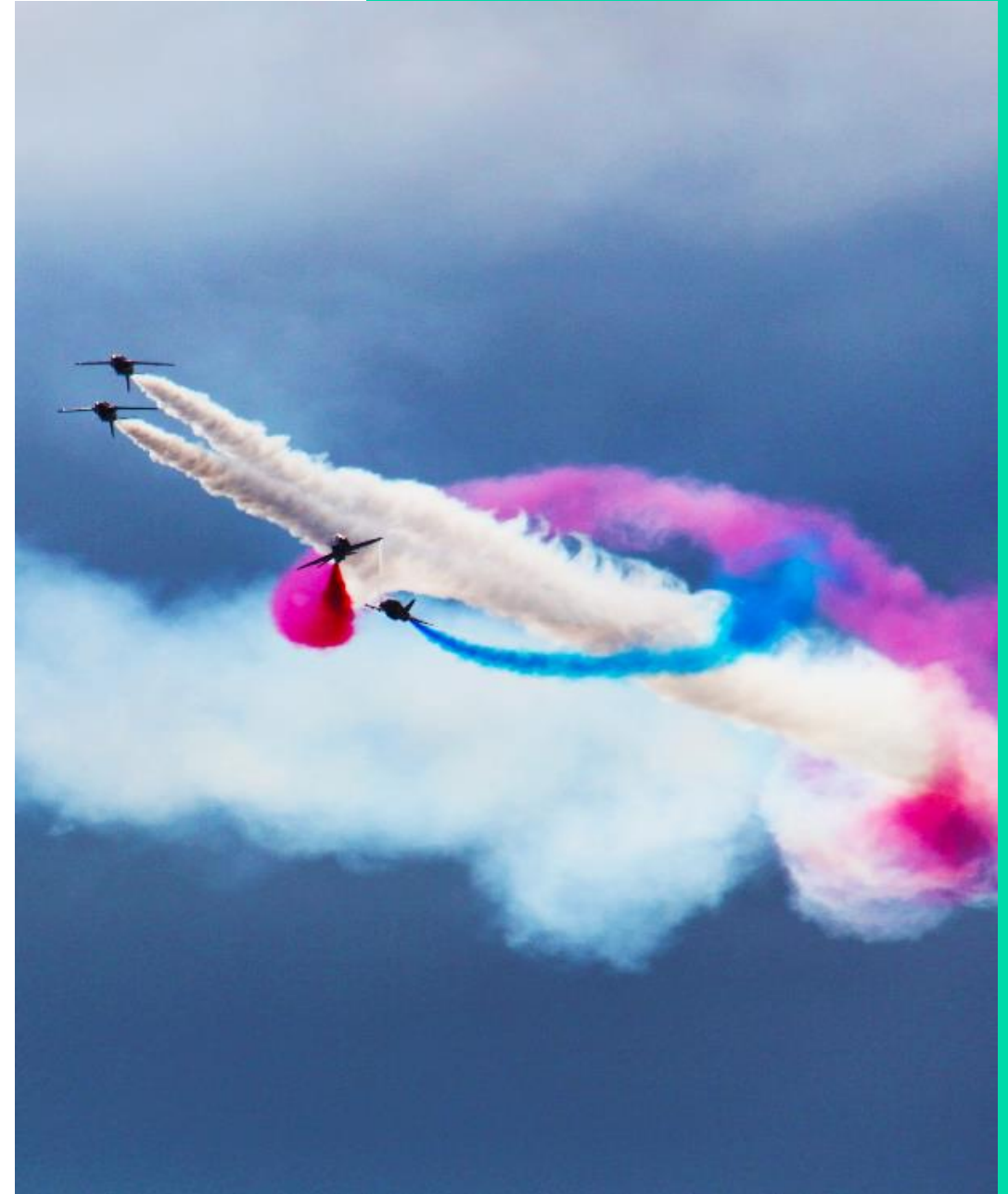67% of business leaders say the future of their business depends on the quality of their software[1]

94% executives feel increased pressure to release new software faster[2]
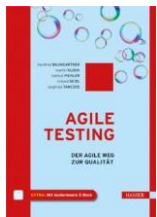
25% of application-development and operation costs could be saved by leveraging automation[3]

1. "Surviving Disruption, Leading Change: Winning in the Application Economy", 2015.

2. 2014 Vanson Bourne study commissioned by CA.

3. "DevOps and the Cost of Downtime" – IDC 2014.

Accelerated Quality & Test-Engineering (AQT)

Sail through the fast-changing business needs and build quality at each step.

700+ well-qualified and experienced global QA engineers for agile testing

- 50+ certified scum masters empowering an agile mindset in testing
- 300+ automation and performance experts enabling regression testing in agile test projects
- 15+ ISTQB trainers

We are the top experts.

- QA experts with experience from many industries and in a variety of testing tools
- R&D in Test & Test Automation including several experts, who are speakers, trainers & authors of books, articles, and blogs
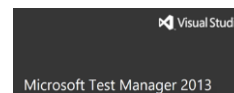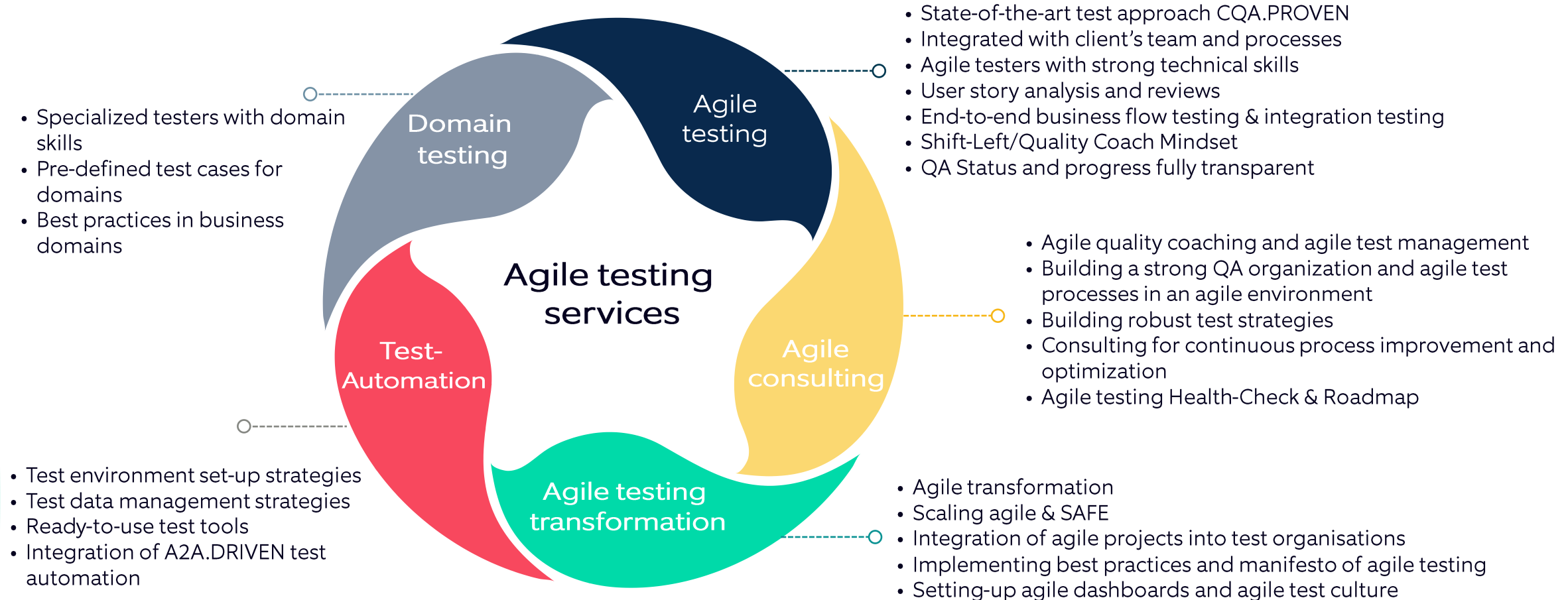
We are using advanced approaches & technologies.

- CQA.PROVEN, a robust, standardized, and well-defined continuous quality approach for agile testing
- A2A Advanced Automation Approach and A2A-TAF a leading-edge tool independent automation framework (without license fees); both proven in many projects
- Customizable & ready-to-implement test suites
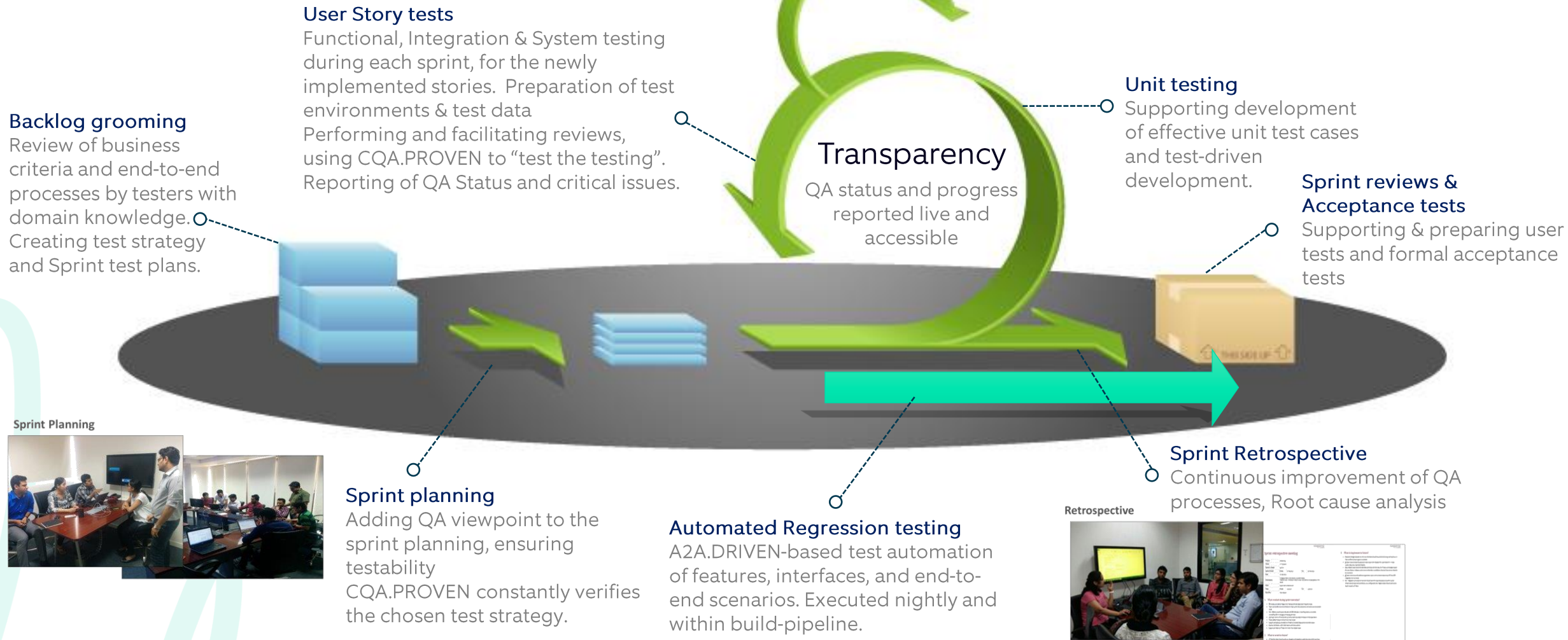
Agile testing services

Sail through fast changing business needs and build quality at each step.

Agile testing services

Agile testing
- State-of-the-art test approach CQA.PROVEN
- Integrated with client's team and processes
- Agile testers with strong technical skills
- User story analysis and reviews
- End-to-end business flow testing & integration testing
- Shift-Left/Quality Coach Mindset
- QA Status and progress fully transparent

Domain testing
- Specialized testers with domain skills
- Pre-defined test cases for domains
- Best practices in business domains

Agile consulting
- Agile quality coaching and agile test management
- Building a strong QA organization and agile test processes in an agile environment
- Building robust test strategies
- Consulting for continuous process improvement and optimization
- Agile testing Health-Check & Roadmap

Test-Automation
- Test environment set-up strategies
- Test data management strategies
- Ready-to-use test tools
- Integration of A2A.DRIVEN test automation

Agile testing transformation
- Agile transformation
- Scaling agile & SAFE
- Integration of agile projects into test organisations
- Implementing best practices and manifesto of agile testing
- Setting-up agile dashboards and agile test culture

JIRA   ZEPHYR Real-Time Test Management   Xray for JIRA   Visual Studio Microsoft Test Manager 2013   ALM Suite ALM Octane Application Lifecycle Management   TFS

Agile **Testing**

Testing activities in CQA.PROVEN

Daily scrum calls
Acting as Quality
Coaches, transparent
view of
quality & progress

Daily Scrum Calls

User Story tests
Functional, Integration & System testing
during each sprint, for the newly
implemented stories. Preparation of test
environments & test data
Performing and facilitating reviews,
using CQA.PROVEN to "test the testing".
Reporting of QA Status and critical issues.

Unit testing
Supporting development
of effective unit test cases
and test-driven
development.

Backlog grooming
Review of business
criteria and end-to-end
processes by testers with
domain knowledge.
Creating test strategy
and Sprint test plans.

Transparency
QA status and progress
reported live and
accessible

**Sprint reviews &
Acceptance tests**
Supporting & preparing user
tests and formal acceptance
tests

Sprint Planning

Sprint planning
Adding QA viewpoint to the
sprint planning, ensuring
testability
CQA.PROVEN constantly verifies
the chosen test strategy.

Automated Regression testing
A2A.DRIVEN-based test automation
of features, interfaces, and end-to-
end scenarios. Executed nightly and
within build-pipeline.

Sprint Retrospective
Continuous improvement of QA
processes, Root cause analysis

Retrospective

Agile Testing

Success factors with CQA.PROVEN

Testers are part of the team	• Agile testers are cathedral builders not stone cutters. • Testers help the scrum team to take collective ownership of QA.
Agile testing mindset	• Testers drop the "Quality Police" mindset. • Testers are Agile Quality Coaches & promote Shift Left philosophy. • The focus is on team goals & customer value.
Foundation of critical practices	• There is session-based testing and agile test environments. • Testers with technical skills are also testing APIs and databases.
Automation	• There are automated tests wherever practical. • Rapid feedback helps build quality.
Collaboration	• Collaborate with customers • Collaborate within the team • Collaborate with DevOps
Look at the big picture	• There is balance against developer focus on technical implementation. • Domain knowledge allows end-to-end process testing.
Continuous improvement	• Team retrospectives • Testing the Testing with CQA.PROVEN

Case Studies

Quality Assurance for an Omni-Channel Transport Ticket Shop

For the largest railway organization in Austria

One of the largest IT programs in recent Austrian history. We automated more than 5.000 test cases to ensure quality at every step of the way.
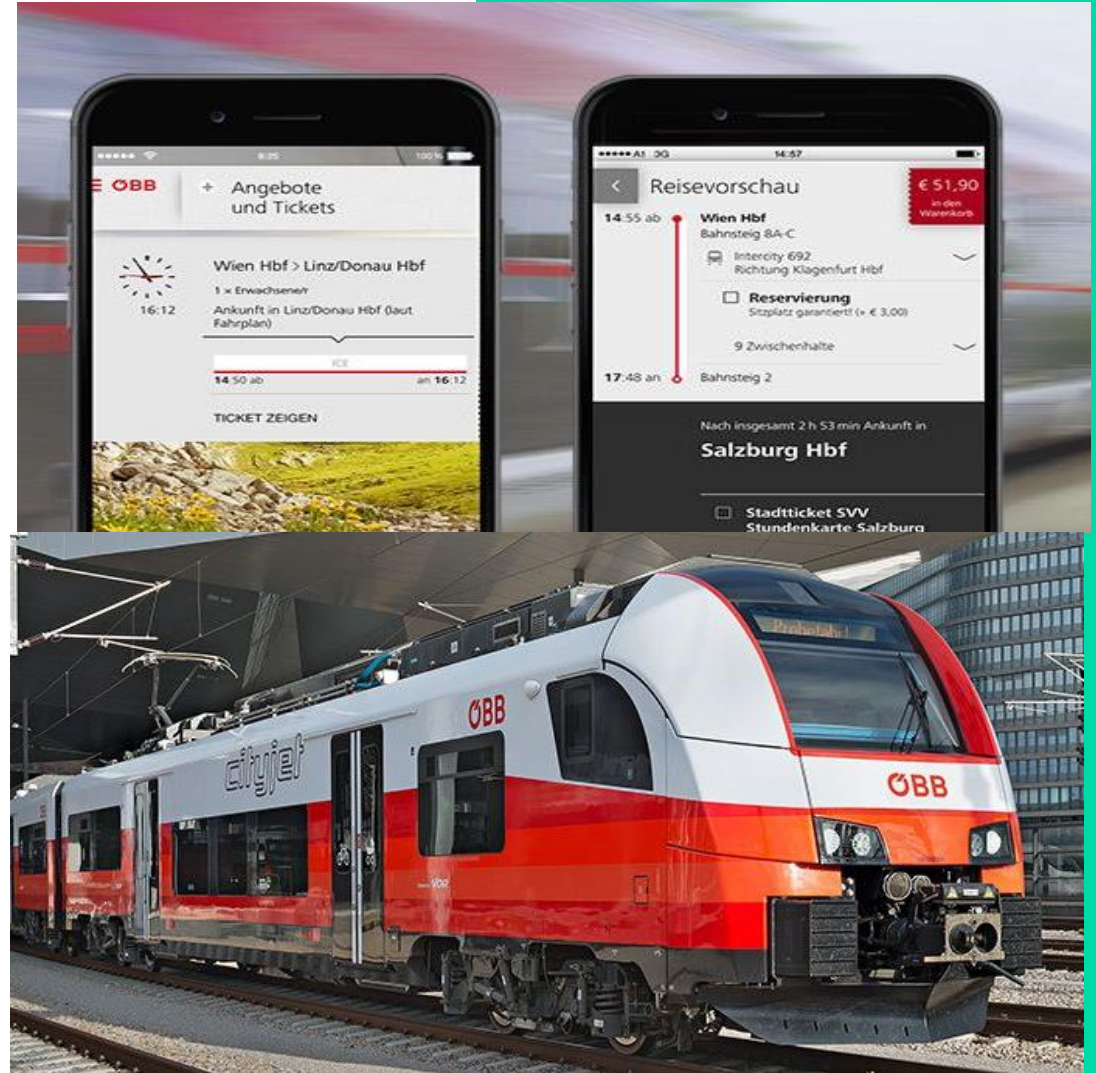
CHALLENGE:

The large scope, complex mathematical systems, wide variety of products and channels made this project a significant challenge for the whole organization.

SOLUTION:

We established an effective test organization within the large program, including manual and automated tests for all channels, including Agile Quality Coaches for all teams.

BENEFIT:

Thousands of automated test cases run each day, to enable the manual testers to ensure the new features are delivered in the expected quality.

Consulting and setting-up an agile QA organization

For one of the largest logistics group in Europe

Consulting and setting-up an agile QA organization, augmenting the speed and time to market.

CHALLENGE:

Setting-up the entire QA organization and be part of its management & operation, set-up QA best practices, team structure, test automation, governance, and the agile way of working.

SOLUTION:

Within 2 years, we set up an efficient QA organization of 15 experts, executing more than 10 projects in parallel with transparency in quality through a fully automated reporting dashboard.

BENEFIT:

Reduced the release cycles from half yearly to monthly and implemented agile way of working across teams.

We help our customers minimize business risks and enhance test transparency.

- CQA.PROVEN: Our framework for high quality agile testing

- Extensive experience, domain knowledge and pool of experts
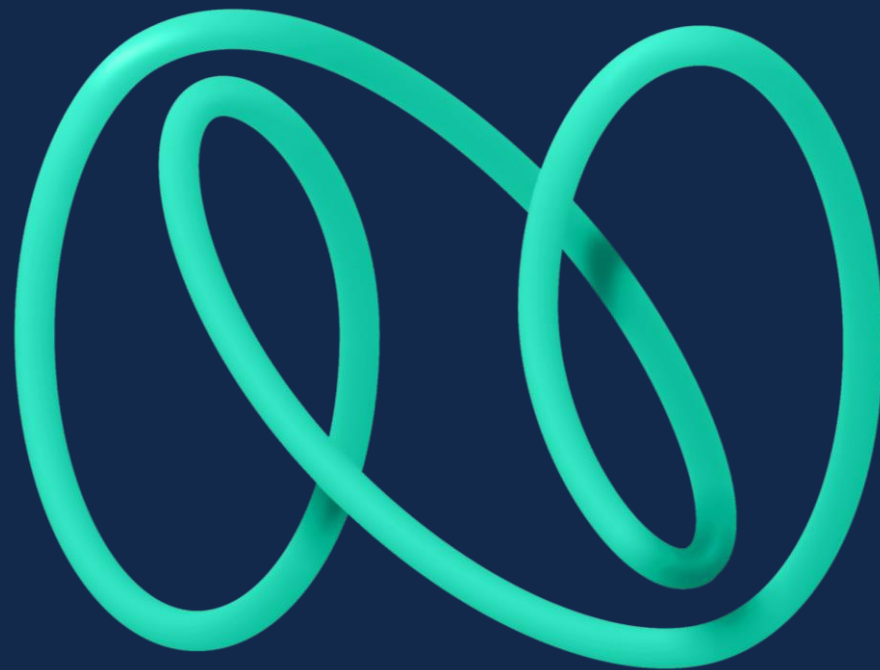
- Agile test accelerators

Imagine what we can do together

We are excited for our next conversation

nagarro.com

Let's co-create *quality*