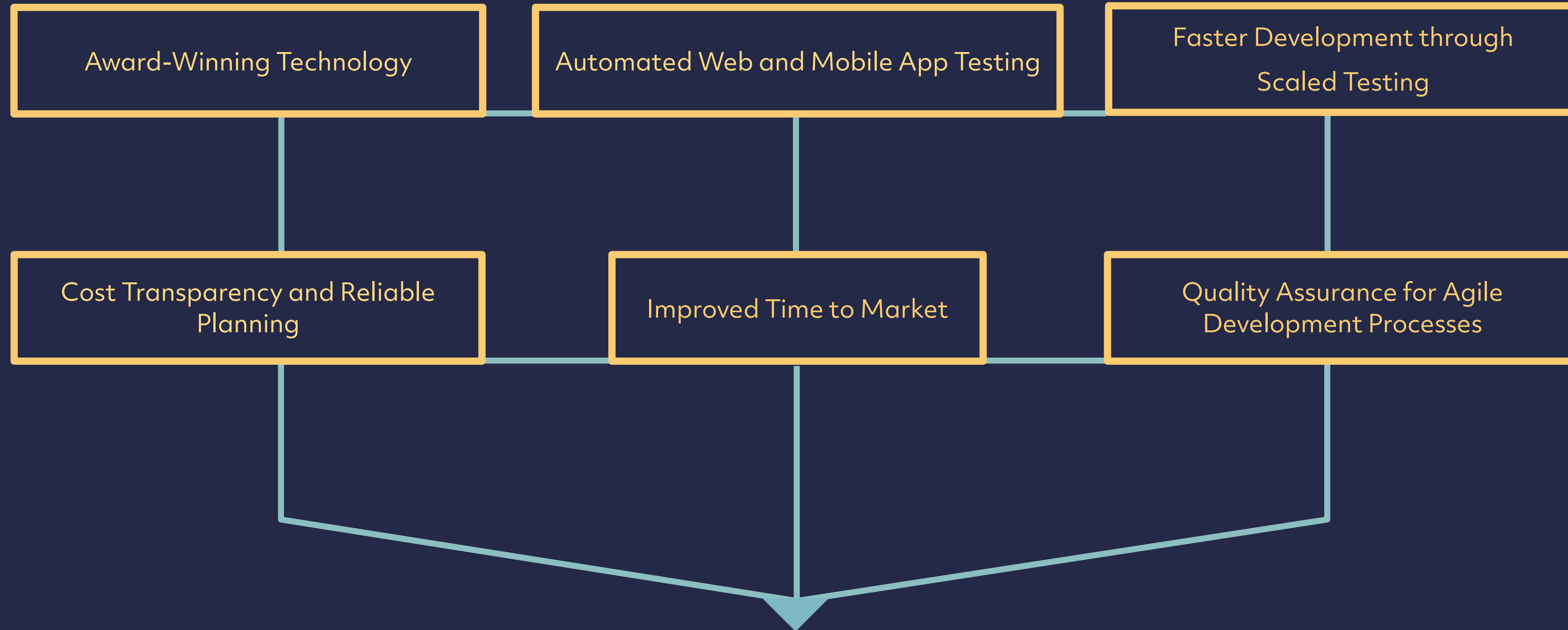




Enterprise

Test Infrastructure and Automated Testing



webmate - Intelligent Cloud Testing Solutions



- University Spin-Off founded in 2013
- Multi-Award-Winning Tech Company
- Main Focus: Automated Web and Mobile App Testing
- > 25 Employees working in Saarbrücken (DE)
- Development of **webmate**





R+V

Allianz 

COSMOS DIREKT 

 **ATRUVIA**

DOUGLAS

TeamBank

T...Systems

Cornelsen

TechniSat

The webmate Platform

MANUAL AND AUTOMATED TESTING

Supports both classic acceptance testing and modern agile approaches with CI/CD pipelines

ENTERPRISE INTEGRATION

Customized network and tool integrations, project structure designed for large teams

TEST ANALYTICS AND MANAGEMENT

Detailed analysis of test results, bugs, errors, and resolved issues



CLOUD-BASED AND ON-PREMISE TESTING INFRASTRUCTURE

Desktop and real mobile devices - at the touch of a button

LOW-CODE SOLUTIONS

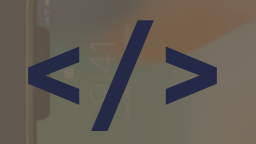
Less coding, more test coverage

AUTOMATED REGRESSION TESTING

Compare your applications to a set of defined metrics of a reference version



Cloud-Based and On-Premise Testing Infrastructure



Your mobile apps and websites need to work properly on more and more devices and browser versions.

Your customers use a wide variety of computers and mobile devices to learn about your products, carry out orders or manage their accounts.

How do you cover all these scenarios when testing?

95 % Market coverage in Europe ~ **386** Device models

Source: <https://www.scientiamobile.com/device-fragmentation-growing-20-per-year/>





Need a diverse, flexible and cost-efficient test infrastructure - all with little effort?

- Maintaining your own mobile device and VM farm is **extremely costly** and diverts attention from the core business.
- There is **no standardized process in data centres** concerning mobile hardware and macs: its operation is often „unofficial“.
- Using physical devices is costly and arduous - and not only while **working remotely** (loan, return, reservation, etc.).
- Providing central, local mobile devices for automated testing is technically challenging.

Permanent cost for providing
30 mobile devices + 20 virtual machines
for manual and automated testing

~5 FTE*
+ Hardware Costs

* Full-Time Employees; according to own estimate



Reliable Cloud-Based Test Infrastructure with webmate

- Large variety of real mobile devices
- Private Cloud provisioned for exclusive usage
- Public Cloud including a **large variety of devices**
- Windows and Mac operating systems with a variety of browsers
- Fully integrated in **manual and automated testing processes (CI/CD)**
- **Hosted and operated in Germany**
- On-Premise operation possible



The screenshot displays the webmate interface with a navigation bar at the top containing 'WEBMATE PRESENTATION', 'ADMINISTRATION', and 'DOCS'. Below the navigation bar, a sidebar on the left contains icons for home, grid, settings, desktop, and search. The main content area is titled 'Choose a device to deploy into slot *Public 1*:' and features a grid of 15 device cards. Each card includes a device image, the model name, the Apple logo and version number, the browser version (1.21.0), and the device year (14 or 15). The devices shown are: Apple iPhone XS (14.8), Apple iPhone XS (14.3), Apple iPhone XR (14.4), Apple iPhone X GSM (14.6), Apple iPhone X GSM (14.0.1), Apple iPhone SE 2nd... (15.1), Apple iPhone SE 2nd... (14.7.1), Apple iPhone 8 Plus (14.0.1), Apple iPhone 8 Plus (14.6), Apple iPhone 13 Mini (15.1.1), Apple iPhone 13 (15.2), Apple iPhone 13 (15.1.1), Apple iPhone 12 Pro (15.2.1), Apple iPhone 12 Mini (15.3.1), and Apple iPhone 12 Mini (15.2.1).



Manual and Automated Testing



Automated Testing

- Forms the basis of agile development
- Quick feedback
- Improves DevOps performance
- Identifies regressions effortlessly
- Enforces quality software design



- Validation of automated tests
- Still relevant regarding **non-functional aspects** (layout, performance, user experience, accessibility)
- Analysis and retesting of bugs

Manual Testing



End-to-End-Tests for a Responsive Checkout

With E2E tests in webmate, you can automatically run the complete purchase process from login to your webshop to payment to after-sales service **cross-device** and in **different resolutions**.



Detect functional errors while still in development and ensure a trouble-free user experience for your customers.



webmate Automated Testing

1 Use your existing pipelines and tests

2 Combine the webmate test infrastructure with its services - with little effort

3 Benefit from...

CI/CD

Test Frameworks

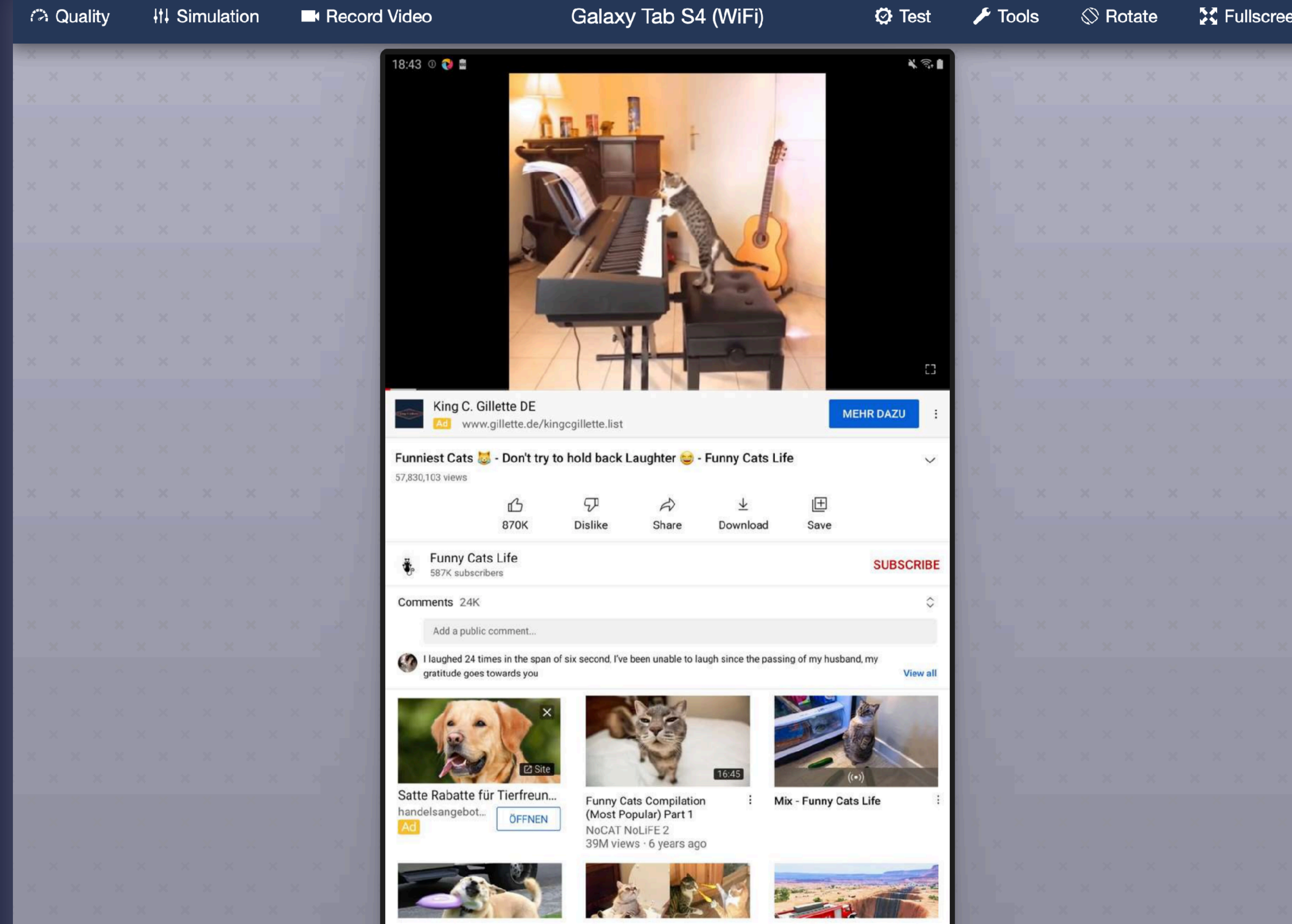


Cloud-Based Infrastructure	Stable Test Execution	Faster Test Execution
Automated Regression Testing	Analysis of Past Test Session	Visual Testing
Special Types of Testing	Email Testing	Integrations



webmate Manual Testing

- Remote controlling test infrastructure (desktop + mobile) from browsers
- Gesture recognition (e.g. rotating and swiping)
- Simulation of camera photos, GPS, network conditions, and biometry
- Access to internal testing systems
- Test process protocol in webmate (video, bugs, emails, etc.)





Low-Code Testing Solutions





„All I wanted was a boiled egg.“

One does not write a letter in Java.

One does not edit a photo using a script.

But one needs a developer for a simple test?

Test Automation Engineers
are rare and expensive.

Every Automated Test is an
investment.

Regarding specific testing
goals, generic approaches
are often inefficient.

Low-Code Tests are specific solutions
for specific testing problems.





Test Web Analytics Automatically

Detect errors in your Web Analytics implementation automatically.

Analytics solutions are the foundation of modern marketing and sales pipelines as the success of many companies strongly depend on its quality.

Quality assurance is often based on handwork and is not reproducible.

Automate your web analytics testing and ensure its functionality with webmate.

The screenshot shows a dashboard for a web analytics testing tool. At the top, it indicates a failed test run on 2021-12-11 at 14:02, with a duration of 8 minutes. The browser used is Chrome. The test results show 48 defects, with 28 being 'DuplicateTrackingPixel'. Below this, there is a list of test cases:

- Click on link showing 'Trusted Enterprise' - FAILED
- Click on link showing 'Risikolebensversicherung' - FAILED
- Click on link showing 'Alle Beiträge' - FAILED
- Click on link showing 'Magazin' - PASSED

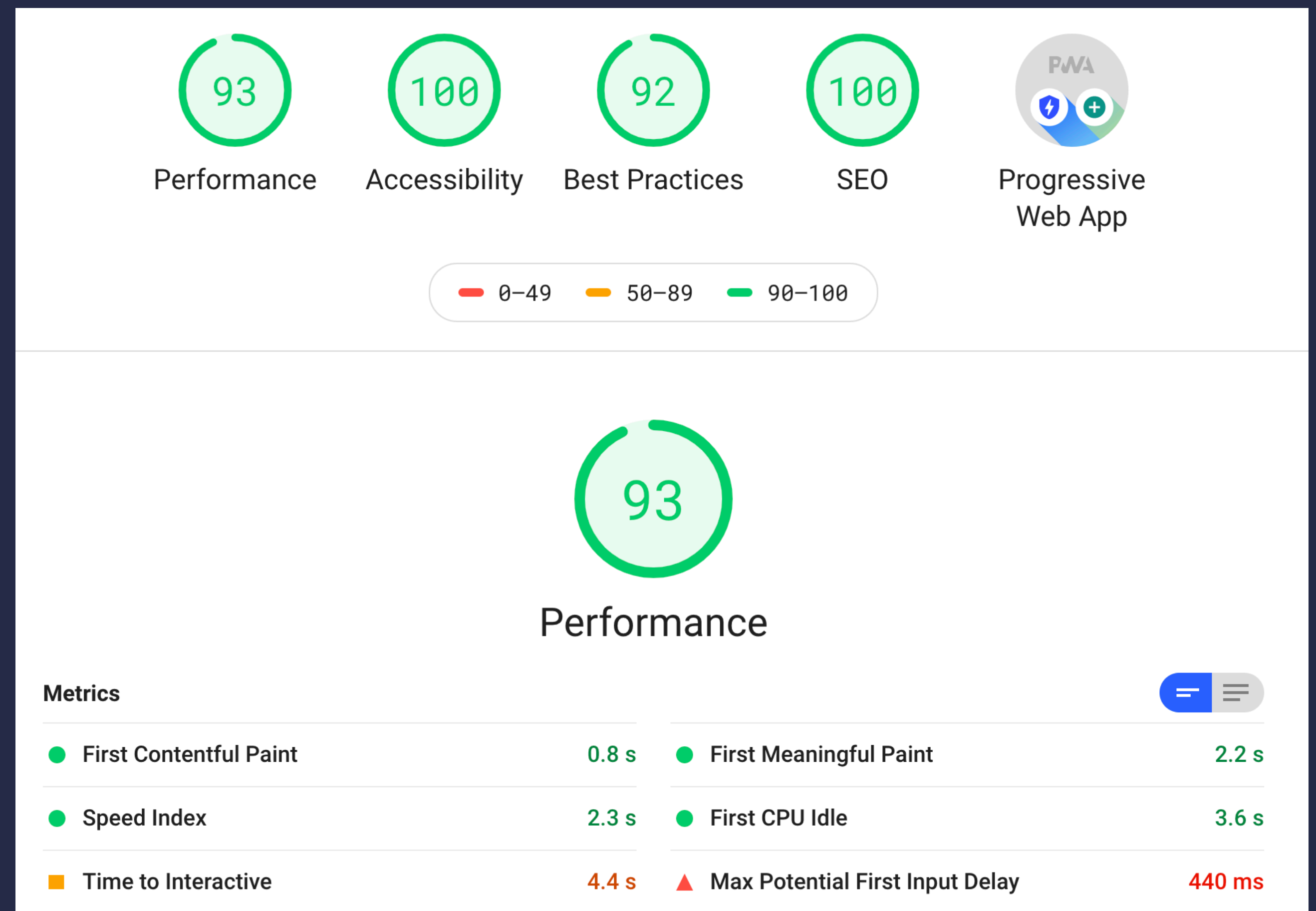
On the right side of the screenshot, there is a promotional banner for 'WENN'S M' with a '15 € Amazon.de Gutschein' (15 € Amazon.de Voucher) valid until 31.01.



Early Identification of Performance Issues

Check **non-functional** requirements of your webshop automatically.

By integrating **Google Lighthouse** into webmate, you can easily have **performance indicators** or **accessibility** criteria checked against your requirements.





Visual Regression and Cross-Browser Testing

Default Expedition Comparison Test

Expedition Comparison **FAILED** 2021-06-11 09:02 Duration: 2 minutes

50 Defects ▶ 8 LAYOUTCOMPARISON AdditionalElement + 5 LAYOUTCOMPARISON IncorrectDimensions + 7 LAYOUTCOMPARISON IncorrectPosition + 25 LAYOUTCOMPARISON MissingElement + 5 LAYOUTCOMPARISON PropertyMismatch

Zuverlässige Testinfrastruktur aus der Cloud

FRAMEWORKS

Unique XPath: /html/body[1]/div[2]/div[1]/div[2]/div[2]/img[1]
Difference Details: The element deviates from the reference position and size (x, y, w, h) by (31, 38, 72, 70)
Full XPath: /html/body[1]/div[2]/div[1]/div[2]/div[2]/img[1]

38 Differences ▲

- 8 Additional Element: ▼
- 5 Incorrect Dimensions: ▲
 - /html/body[1]/div[2]/div[1]/div[2]...
 - //*[@id="testimonial-slider"]/div...
 - //*[@id="stayconnect1"]
 - //*[@id="contact-box"]/div[1]
 - //*[@id="contact-box"]/div[1]/di...

Visual **layout** testing in webmate automatically checks whether an error has crept into the layout of a web application or app.

You can compare it against a **reference version** or against one or more **reference browsers** to identify cross-browser problems.

Automated detection of **layout differences** and **regressions** for webshops.

Let test automation guide you on your journey to agility. We enable your agile teams.

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Test Consulting and Test Manufactory





Contact us and schedule a demo!



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