APPLAUSE 20 State of 24 Digital Quality in Europe

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Executive summary

As the world leader in testing and digital quality, Applause has a distinct perspective. Members of our team are intimately involved in testing and test strategy for global technology leaders and innovators. The State of Digital Quality Report draws on some of our learnings to help guide organisations in their efforts to improve overall digital quality while speeding releases and boosting efficiency.

For the third year, Applause analyse trends in software development, testing and quality assurance to benchmark the state of digital quality. In addition to mining our crowdtesting platform data, we also surveyed the community and our enterprise customers to better understand how development organisations fit into the digital quality continuum.

Last year, we introduced frameworks to help organisations assess their progress toward achieving comprehensive digital quality, including the core capabilities, practices and processes they should adopt. The frameworks cover functional testing,

accessibility and inclusive design, payments, localisation - and now, user experience (UX) and artificial intelligence (AI).

These frameworks provide a means for organisations and teams to benchmark their current capabilities and map out a plan for improvement. While certain teams have achieved excellence in some areas, only a select few have established cultures where quality is thoroughly embedded into the organisation's DNA across every aspect of their digital experiences. It's a tough goal to achieve and even more difficult to maintain — every release comes with new code to test, documentation to write, test cases to update and execute, and decisions to make. It's a constantly moving target. And, it's a goal the teams at Applause - and most end users – believe is worth pursuing.

Highlights from this year's report

- → Measuring success is still a challenge. European organisations rely on a variety of measurements and KPIs to assess digital quality across multiple dimensions, with customer-centric measures the most common indicators of success. Despite reliance on multiple KPIs, many teams still have an incomplete picture of how well they're performing.
- Process and documentation are often overlooked to meet tight deadlines. Fewer than one-third of respondents in Europe reported that their organisation has comprehensive documentation for test cases and test plans. Though most teams rocginse the fundamental value of clearly defined test methodologies, accurate documentation, and testing and feedback throughout the software development lifecycle (SDLC), these strategic imperatives are often sacrificed in favour of speed.
- Despite being a priority, digital accessibility resources are lacking. Our 2024 accessibility and inclusive design survey revealed that, though 26% of European respondents

- rated accessibility as a top priority for their organisation, 29% do not involve people with disabilities (PWD) directly in the design or testing process. Furthermore, 46% of respondents said they have limited or no in-house resources for accessibility testing — a fact that seems at odds with an issue considered a top priority.
- → High-quality user experiences make or break Gen Al. While generative AI (Gen AI) holds the potential for hyperpersonalisation in the future, at present, the best way for organisations to make customers feel rocginsed and appreciated is to focus on UX, delivering experiences that account for preferences across different markets and demographics. Our AI survey found that 27% of Gen AI users have swapped one service for another due to UX and performance issues. The ruthless pursuit of opportunities to delight and relentless commitment to rooting out flaws, friction and bias are the only ways to stand out in markets where everyone is fighting for wallet share.

Methodology

We analyse results from a representative sample of closed test cycles executed in 2023. A test cycle is how Applause defines each unique set of tests: a client sends us testing parameters — builds, scope, coverage, etc. — and we create a test cycle that includes the specific test cases and scenarios to be tested. In addition, we conducted several surveys of the uTest community and Applause customers throughout the year to identify trends in development, testing and consumer preferences across different types of digital experiences.

The data includes various industries, testing categories and regions spanning more than 748,000 test runs, tens of thousands of devices, and thousands of device/OS/browser combinations. Testing included websites, IoT devices, mobile web and mobile apps in real-world scenarios.

Mobile

Mobile makes	79
Mobile models	1,266
Mobile OSes	12
Mobile OS versions	385
Mobile web browsers	37
Mobile carriers	225

Other devices

Set-top/streaming devices	160
Gaming consoles	34
Smart TVs	1,450
TV providers	63
ISPs	59
Smart home devices	29

Desktop

Desktop web browsers	27
Desktop OSes	7
Desktop OS versions	207

Payment methods

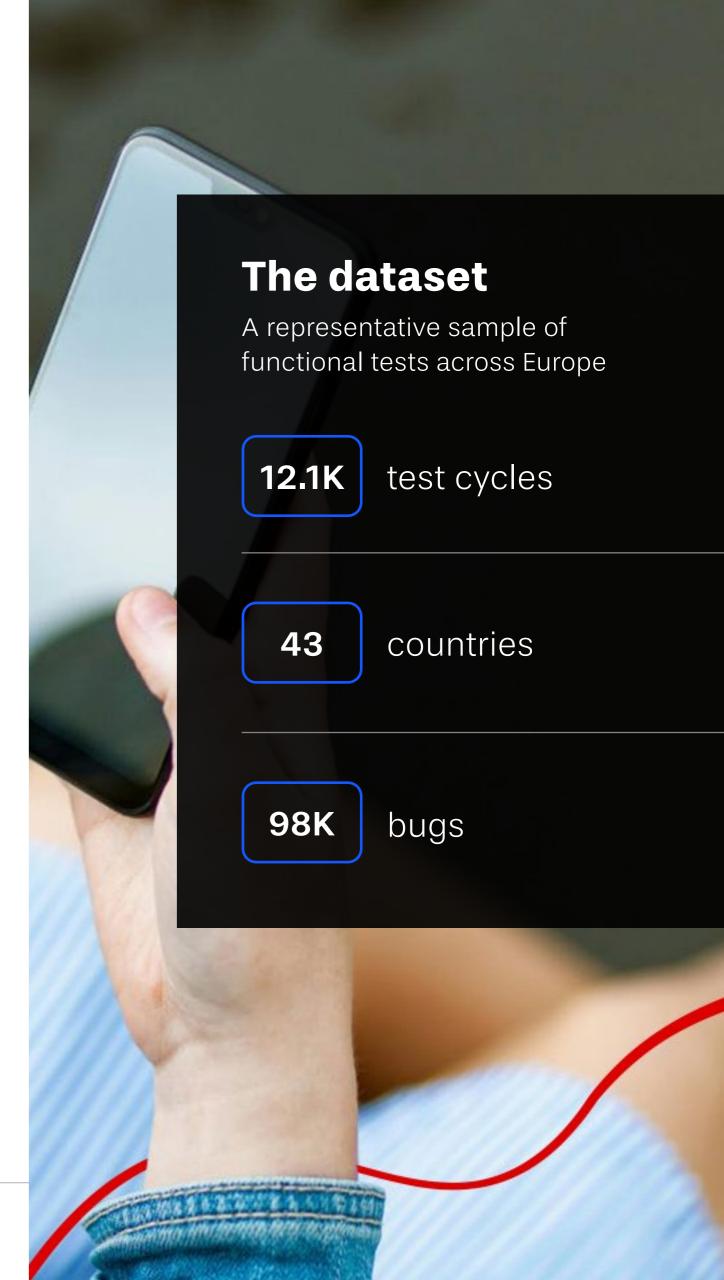
Credit/debit cards	763
E-wallets	43
Mobile wallets	68
Alternate payments	64

Functional testing

Last year, Applause testers executed nearly three-quarters of a million test cases worldwide. Though about 80% of them passed, the remaining 20% of failed test cases reflected defects across all levels of severity and scope, from reputation-destroying disasters to minor usability challenges. This rate, fairly average across industries, is typically accepted as a good rate. It leaves room to improve on each release and test cycle due to changes in the feature base and code being introduced. No one expects perfection – yet teams continue to seek out and address issues that seriously detract from the user experience.

Often, organisations are so focused on releasing quickly that they don't take time to set themselves up for long-term success. Keeping code clean, writing good test cases, documenting test run results and leveraging data to focus efforts allows development and QA teams to become both more effective and efficient. These tasks also lay the groundwork so they can scale with minimal growing pains.

Ideally, digital quality focuses less on finding defects and more on creating systems and processes at all stages of development that prevent them from occurring in the first place. All frameworks assume that many/most of the elements from the corresponding stage of the functional testing framework are in place.



Functional testing framework

Digital quality emergence:

Lack of consistent systems, processes and documentation — while individuals may have their own methods and documentation, the organisation has no consistent methodology or approach to quality.

Examples of testing activities and processes:

- → Dogfooding
- Conducting reactive testing after development
- → Running tests without documenting test cases or test run results; or documenting poorly – defects may not be reproducible based on bug reports
- → Running test cases inconsistently
- Skipping test case documentation or writing test cases in ways that make them difficult to follow or reproduce
- Practising some exploratory testing
- Using disparate environments for development, testing and production

Digital quality essentials:

Early stages of defining and documenting processes and procedures; establishing some consistency and structure around test efforts. Teams may have their own unique processes, but efforts may still be siloed.

Examples of testing activities and processes:

- Documenting test cases for feature-based tests
- → Ensuring test cases are written clearly
- → Defining a device coverage matrix
- Maintaining a known issues/bug backlog list
- → Testing releases pre-production
- Conducting unit, smoke and regression testing for major app components or workflows
- Performing exploratory testing for new features/app changes
- → Recording test run results
- → Automating frequently executed/rarely changed tests

Digital quality expansion:

Clear processes and a broad range of testing types in place. Some reporting is in place. Focus is on coverage, scalability and efficiency across the organisation.

Examples of testing activities and processes:

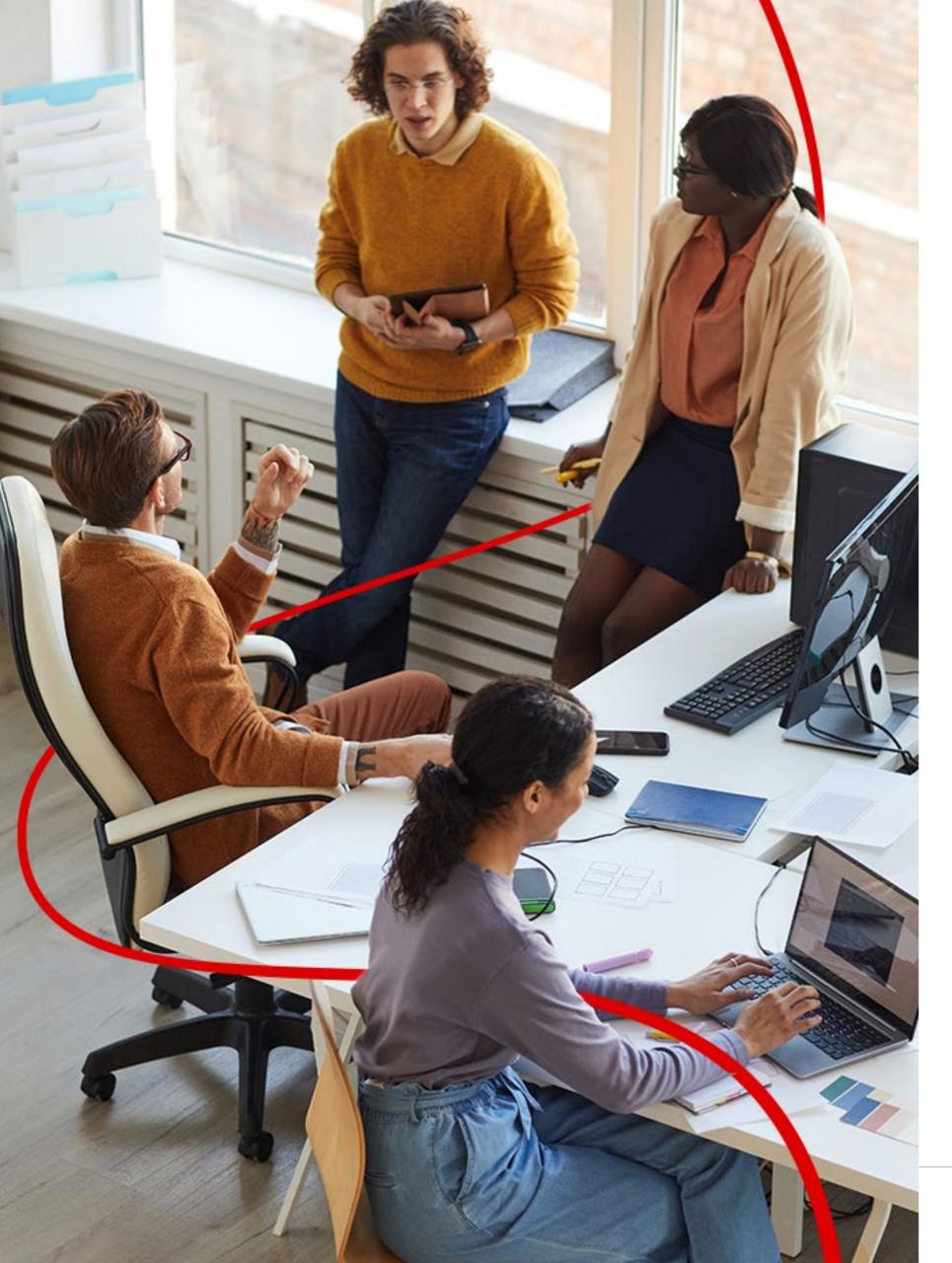
- → Maintaining a defined device coverage matrix based on data about website/app usage
- Conducting regression testing for all workflows
- Testing user acceptance and UX for new features/app changes
- → Leveraging test automation for repetitive tests; reviewing and updating automation scripts regularly
- → Documenting test cases/suites for all features
- Measuring quality KPIs with data and reporting

Digital quality excellence:

Quality is embedded in the company's DNA and built into all products and experiences from end to end.

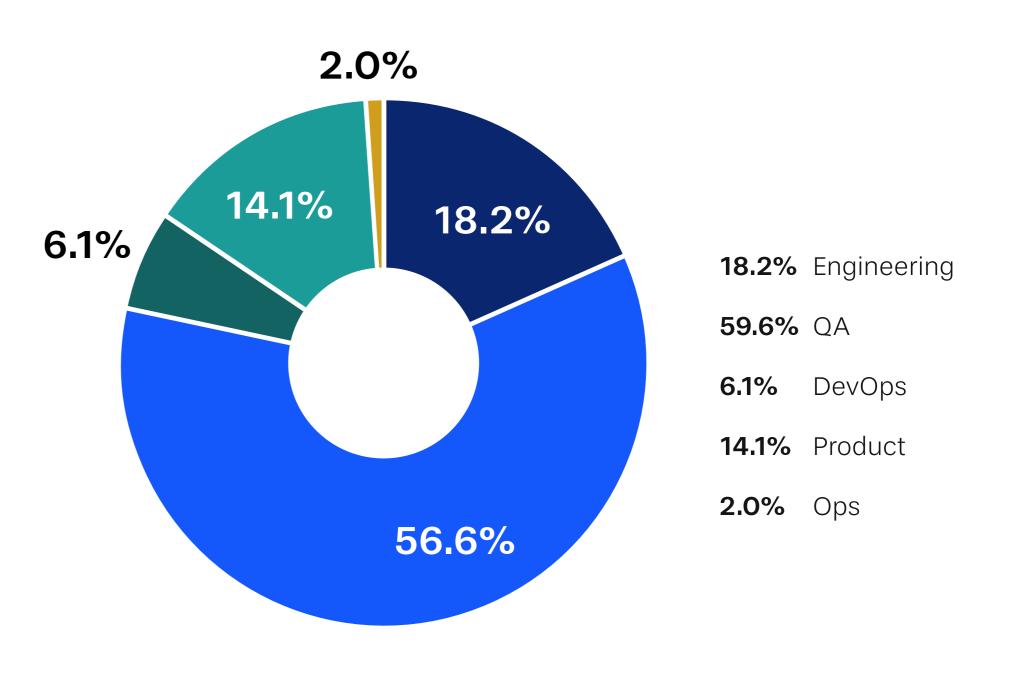
Examples of testing activities and processes:

- → Testing throughout the SDLC, in-sprint and in staging/pre-production
- Incorporating the voice of the customer into product design and development
- Delivering exceptional UX across all touchpoints
- Maintaining a strong test case management process
- Automating all repetitive tests that humans can't do better
- Reviewing and refining testing processes regularly
- → Proactively balancing testing across manual functional, exploratory and automated testing; documenting when to use each test type
- → Exploring new testing processes to maintain high levels of quality, efficiency and coverage
- → Driving innovation throughout the SDLC
- Using reports to analyse trends and identify areas for improvement



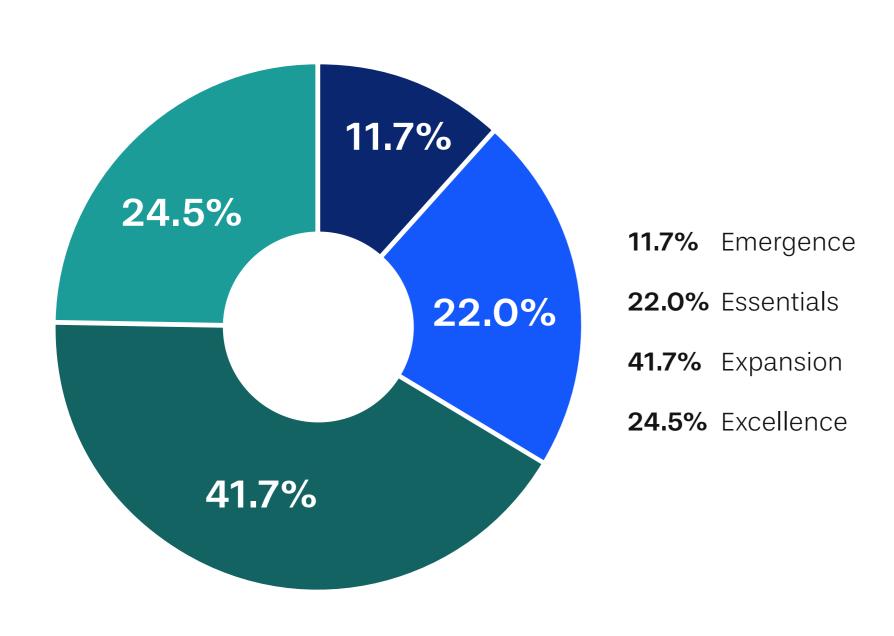
To determine where most organisations fit into the framework, Applause surveyed software development and quality professionals across Europe. Here are some of the findings.

Roles n=893



How would you rank your organisation's structure and consistency when it comes to digital quality?



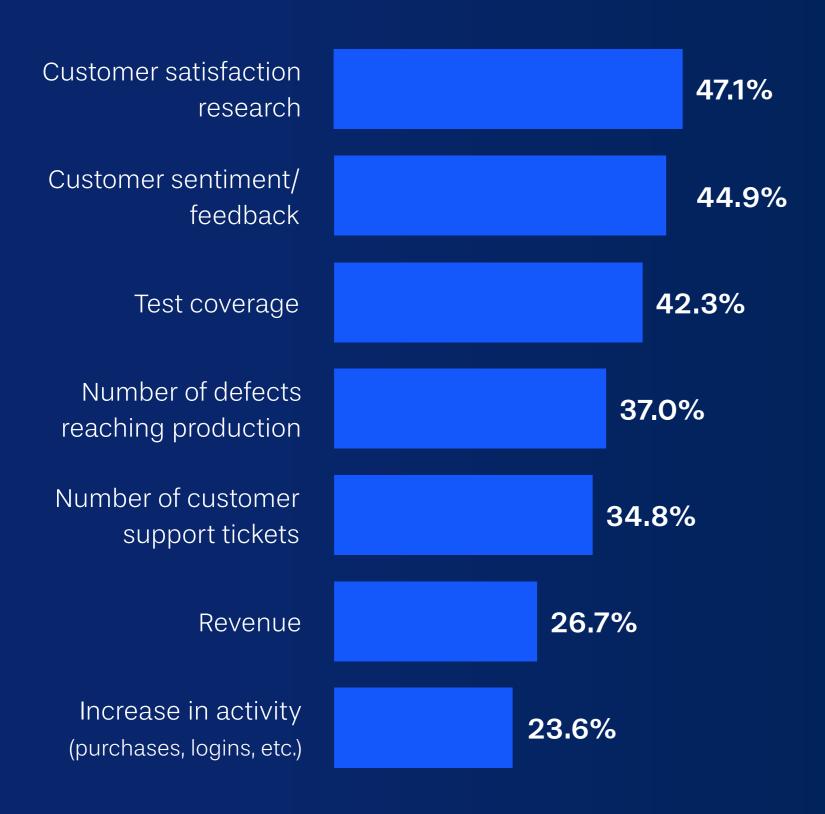


While 24.5% of respondents in Europe stated that their organisation has comprehensive end-to-end testing processes and documentation that are used consistently across the organisation for all products, 11.7% are still in the earliest stages of establishing a digital quality program. The largest pool of respondents – 41.7% – have some clear testing processes, documentation and reporting in place that they're working to scale across the organisation, while the remainder have some building blocks in place, but are still solidifying other essential elements of a quality program.

Digital quality is more than just ticking a box or conducting certain activities. So how do different groups define quality and monitor their progress? Organisations are using a combination of metrics to assess digital quality.

Most common quality indicators

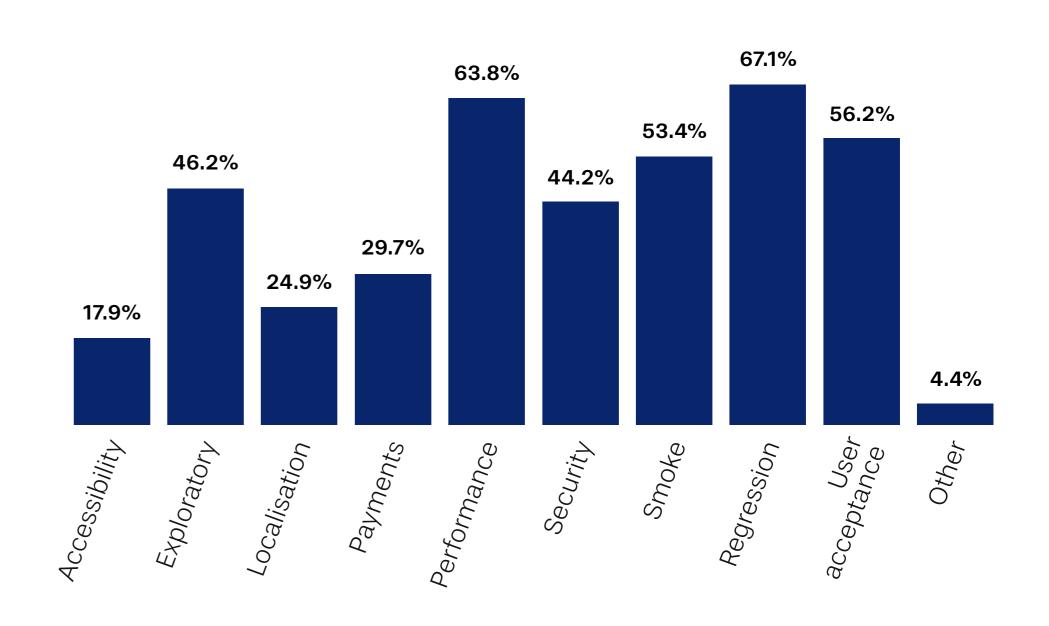
n=888

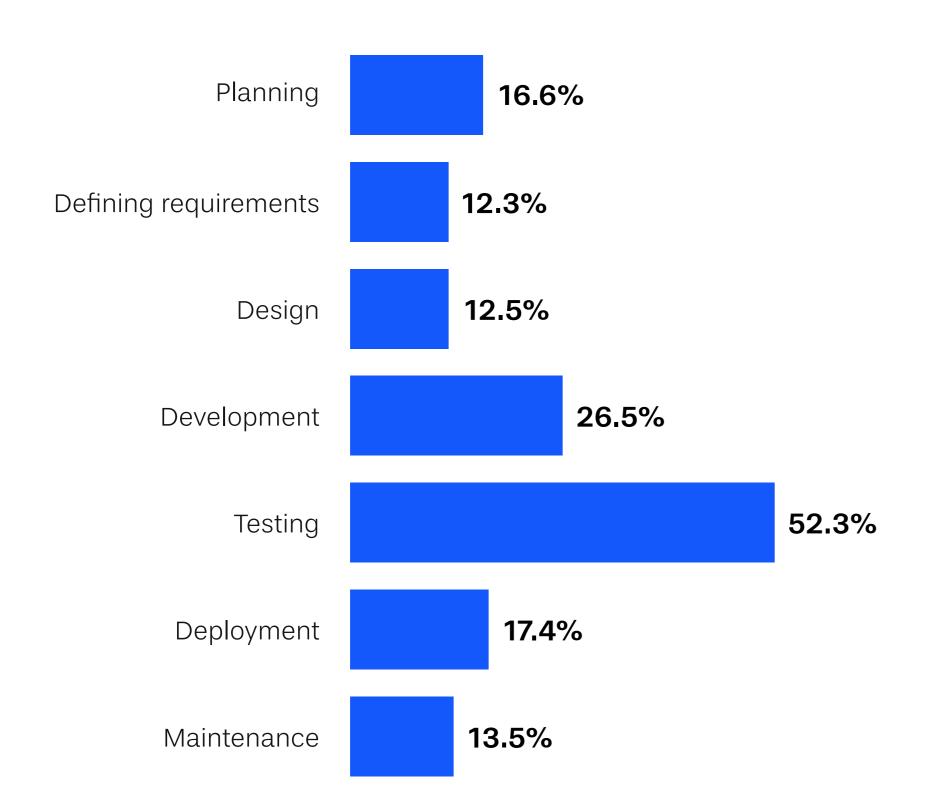


Most organisations are conducting a variety of different types of tests as well. Although most European organisations focus predominantly on functional testing, we see a number of companies increasing their investment in non-functional testing to become more competitive.

Types of tests organisations are conducting

n=872





While testing throughout the SDLC is a best practice, many European organisations aren't doing so. In this year's survey, 36.8% reported that their organisation only conducts tests during the testing phase of the SDLC; another 6.7% only test during deployment.

When asked what types of testing and quality control procedures teams conduct during development, respondents reported using a variety of different approaches. The most common activities:

61.0%	59.0
Integration testing	Unit test

0% 55.0% Checking for bugs sting in staging

Exploratory testing

Nearly 60% of the Europe-based teams that conduct exploratory testing incorporate it into every release, and a similar number said they explore whenever they've changed a feature or workflow.

Having testers spend a little time exploring aspects of the application that have changed offers an easy way to uncover flaws before customers encounter them during their typical use patterns. Focused exploratory testing, especially in the hands of creative testers, can quickly uncover issues and ensure better releases.

How often do you conduct exploratory testing?

n = 381

60.9%

Every release

53.0%

Whenever we change a feature or workflow

47.2%

Whenever we launch a new feature

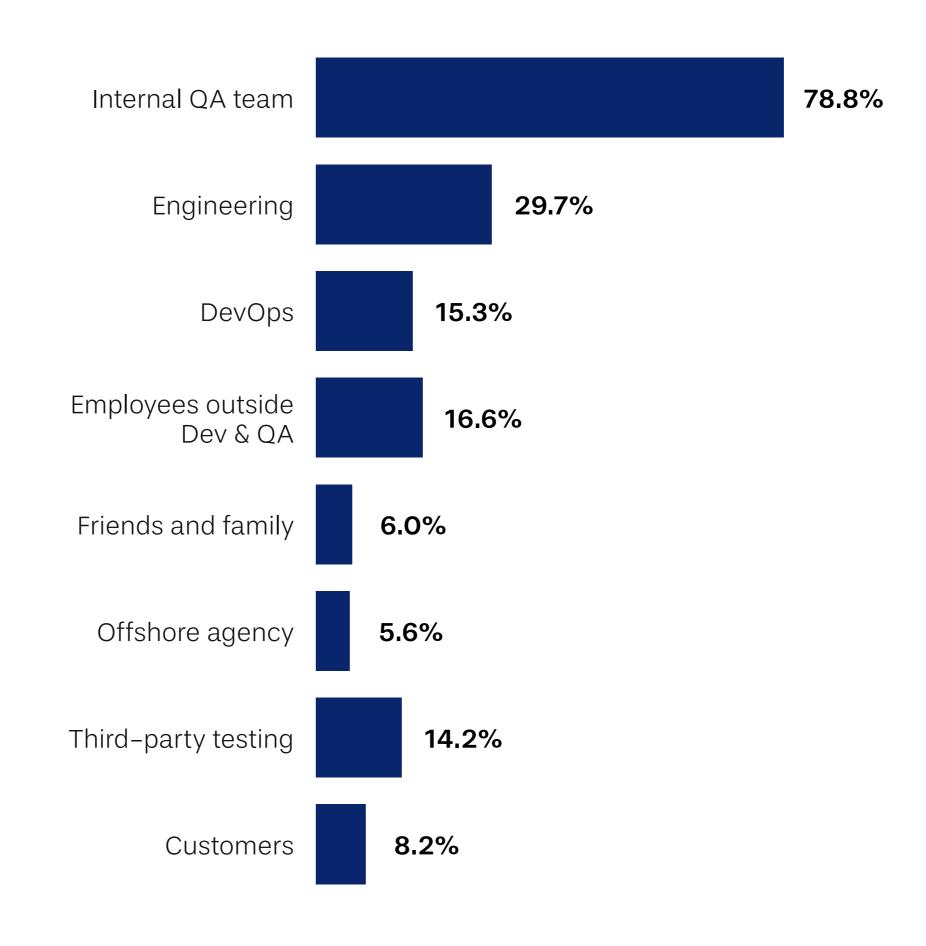
How do you define exploratory testing?

- 66 Simultaneous learning, test design, and execution. It focuses on discovery and relies on the guidance of the individual tester to uncover defects that are not easily covered in the scope of other tests."
- 66 Exploratory testing is an informal testing approach where testers dynamically explore the software, design and execute test cases on the fly, and adapt their testing based on immediate feedback. It emphasises learning about the system, uncovering defects, and refining test scenarios as the testing process unfolds."
- 66 Flexible tests where the skills and experience of the testers are of utmost importance. These tests allow us to find defects that were not initially considered."

Who carries out testing for your organisation?

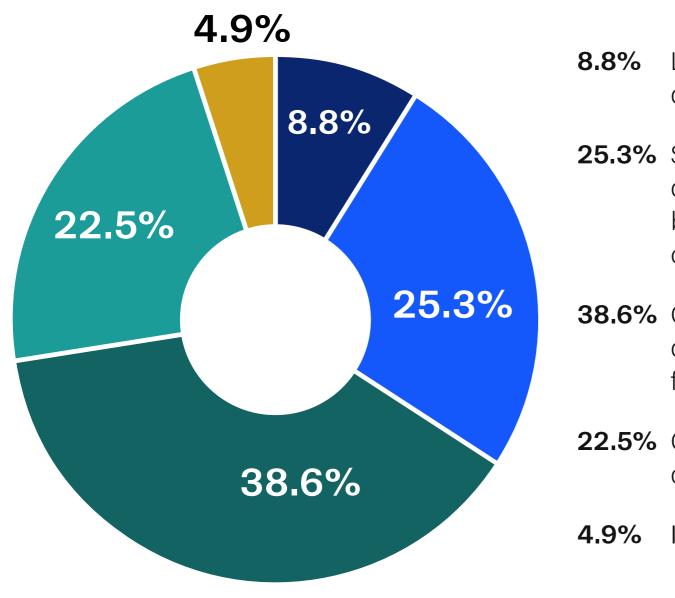
Most European organisations reported that a QA team conducts testing (78.8%), with 38.1% of respondents stating that QA members are the only ones involved in testing. Typically, multiple groups provide testing at some point, with 29.7% stating engineering staff performs tests and 15.3% including DevOps.

No matter who performs testing, ensure that staff members have the opportunity to test different portions of the app or conduct varied types of tests to maintain a fresh perspective and reduce the possibility of blind spots or tester fatigue.

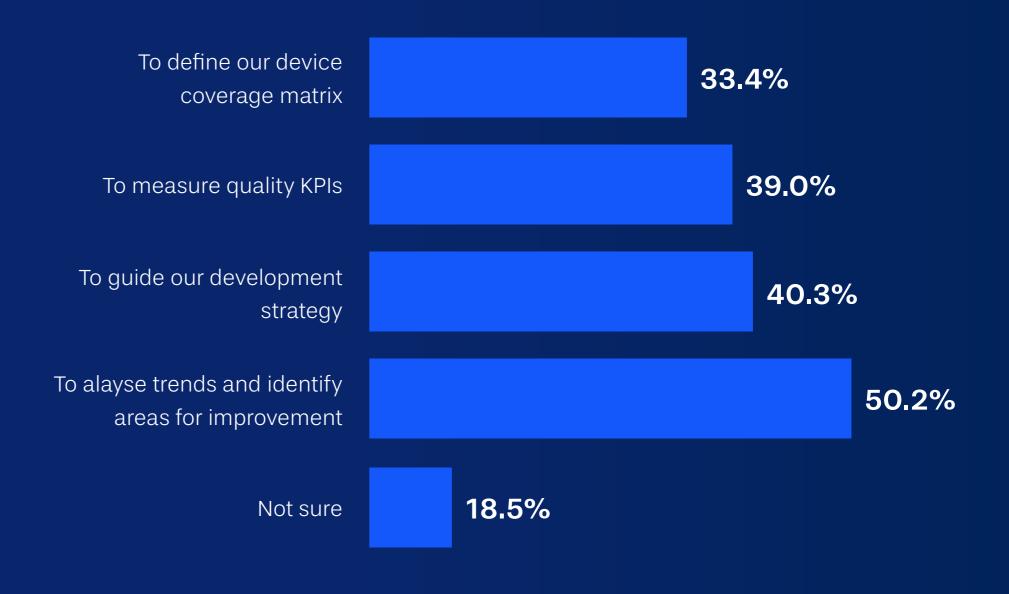


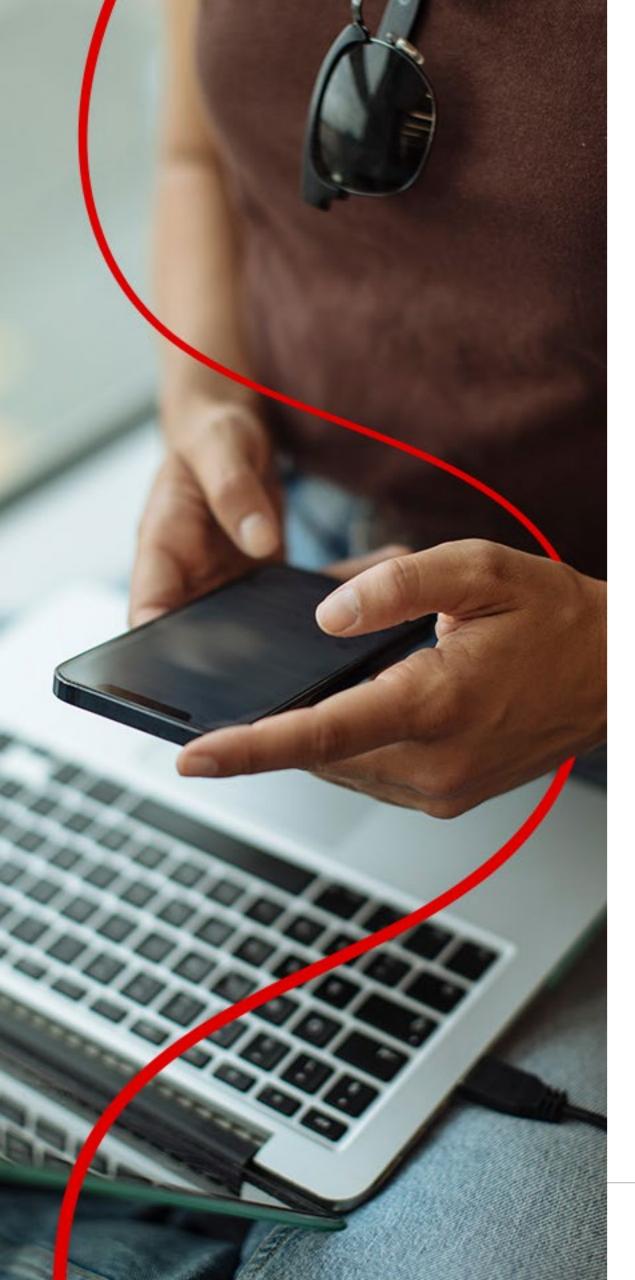
How is your team using test reporting and metrics?

n=880



- **8.8%** Little to no documentation
- 25.3% Some documentation, but not comprehensive
- **38.6%** Clear documentation for most features
- **22.5%** Comprehensive documentation
- **4.9%** I'm not sure





Functional testing recommendations

Embrace change as part of the process of continuous improvement. While consistency is part of quality, so is adaptability. Regularly revisit each process to review why it is in place, whether it is still necessary, and whether there's a better way to meet the same goal. Adjust how the organisation performs certain tasks as needed to make better use of available resources, eliminate inefficiency and reduce gaps in coverage.

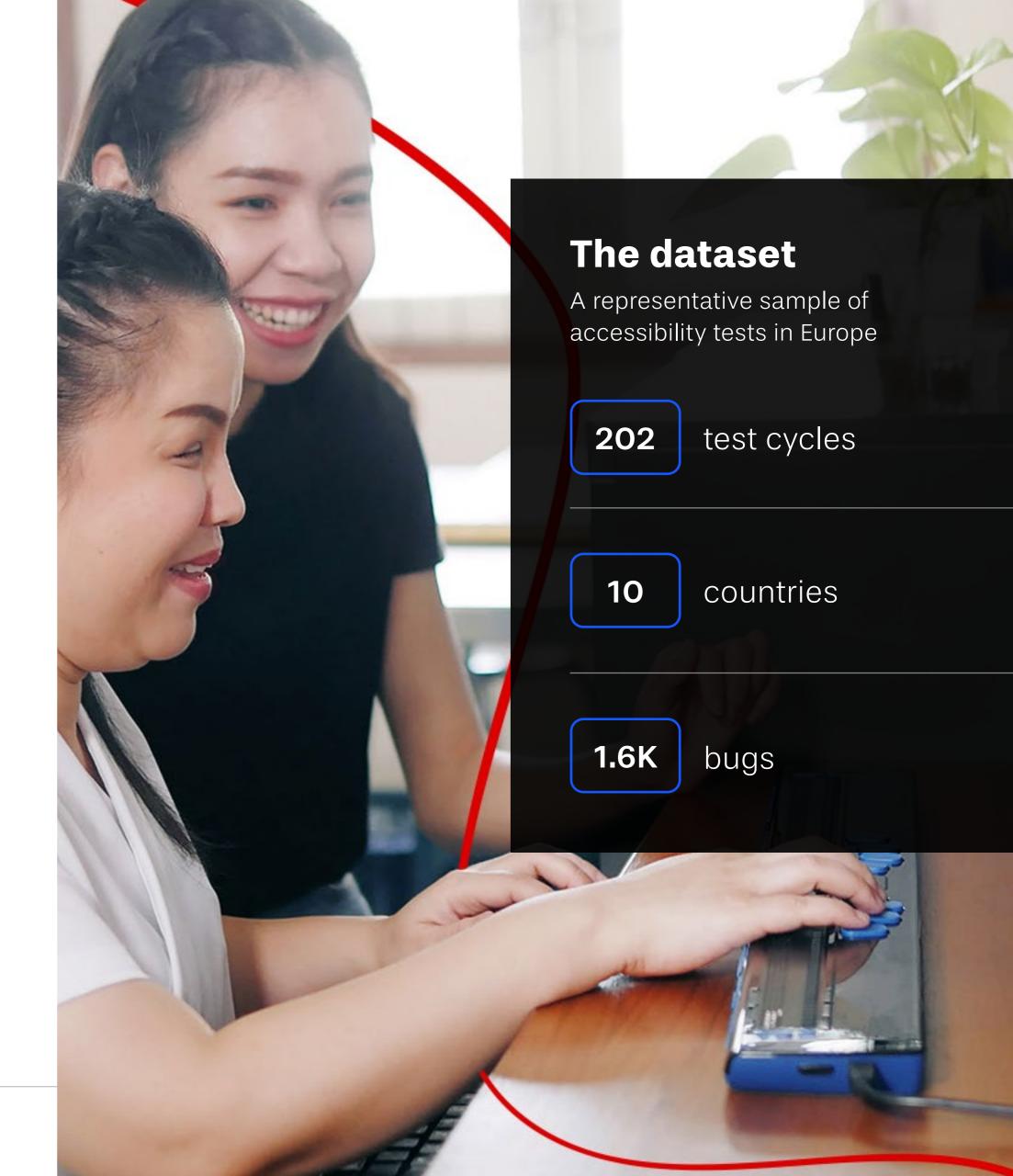
Conduct testing and collect feedback throughout design, development and deployment. The earlier in the process you start, the easier it is to adjust, adapt and evolve, which saves both time and money. Those critical resources offer a competitive advantage as businesses work to release better and faster while maximising profits.

Focus on building repeatable, scalable systems and processes as the foundation for great digital quality. When everyone involved in development and testing is clear on roles, responsibilities, requirements and testing procedures, it's easier to identify and fill — gaps. Let data be your guide. Use existing reports to determine which areas require most attention so you can improve coverage, consistency and code across the organisation.

Accessibility and inclusive design

While accessibility typically starts with conformance and compliance, once organisations embrace empathy-based design and development, the user experience improves dramatically. Our customers who have adapted to focus on inclusive design report that this shift left creates a cycle of ongoing innovation that benefits all users, not just PWD.

With the EU Accessibility Act (EAA) coming into effect in June 2025, global organisations have heightened their focus on accessible and inclusive designs, raising the bar for all application developers and technology teams.



Accessibility framework

Digital quality emergence:

Limited understanding of applicable laws and regulatory requirements.

Lack of formal systems, processes and documentation, no consistent methodology or approach to accessibility or inclusivity.

Examples of testing activities and processes:

- → Identifying some accessibility issues; resolving or remediating high-priority A11y issues that are identified
- → Assessing conformance to WCAG and/ or locally applicable regulations once or infrequently
- → Emphasising risk mitigation; making changes in response to customer complaints or threats of legal action
- → Relying solely on automated tools

Digital quality essentials:

Early stages of defining and documenting processes and procedures; establishing some consistency and structure around accessibility.

Examples of testing activities, resources and processes:

- Designating an owner of the accessibility program and identifying organisational champions
- → Performing periodic assessments and automated checks to ensure conformance to WCAG and compliance with locally applicable regulations
- Offering training on accessibility best practices and inclusive design
- → Providing developers and/or product owners access to people with disabilities (PWD) for initial product feedback
- → Conducting design reviews and in-sprint testing to identify problems earlier in the SDLC
- → Engaging PWD to perform usability tests and provide feedback

Digital quality expansion:

The organisation has a clear process for ensuring that accessibility is in place and uses various testing types. Some reporting is in place. Focus on coverage, scalability and efficiency across the organisation.

Examples of testing activities, resources and processes:

- Documenting best practices and checking them during development
- Maintaining a knowledge base and offering training on best practices
- → Holding empathy-based design and development workshops with PWD
- → Incorporating input from PWD into the design & development process; benchmarking to understand the validity of customer criticisms around accessibility and usability
- Prioritising accessibility and inclusivity in the organisation's design/UI kit
- Providing attestation (VPATS)

Digital quality excellence:

The organisation prioritises inclusivity at all levels; testing and feedback from PWD occur throughout the SDLC.

Examples of testing activities, inclusive design resources and processes:

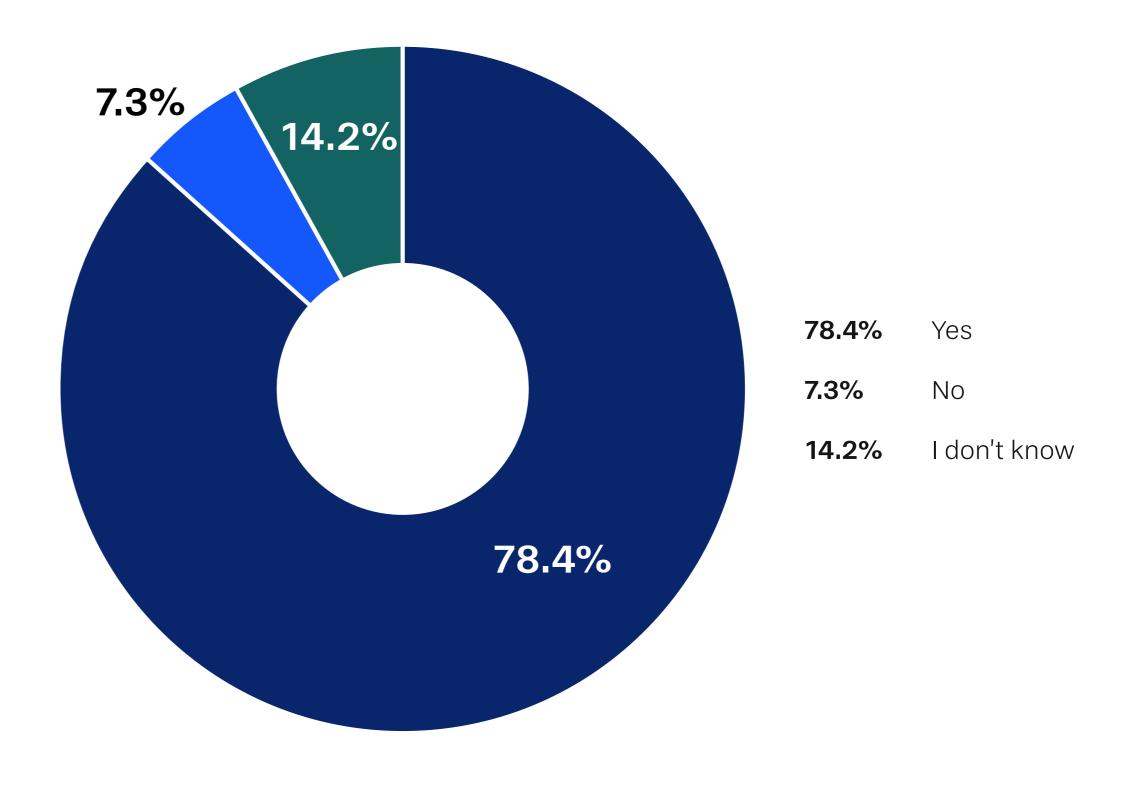
- Creating a Center of Excellence with guidance on design and development of best practices
- Requiring ongoing, mandatory training on accessibility and inclusive design best practices
- → Following inclusive hiring practices to develop a diverse workforce
- Going beyond attestation to demonstrate thought leadership in inclusive design and product development
- Incorporating accessibility into the company's contracting and procurement process
- Using analytics to drive priorities and continuous improvement

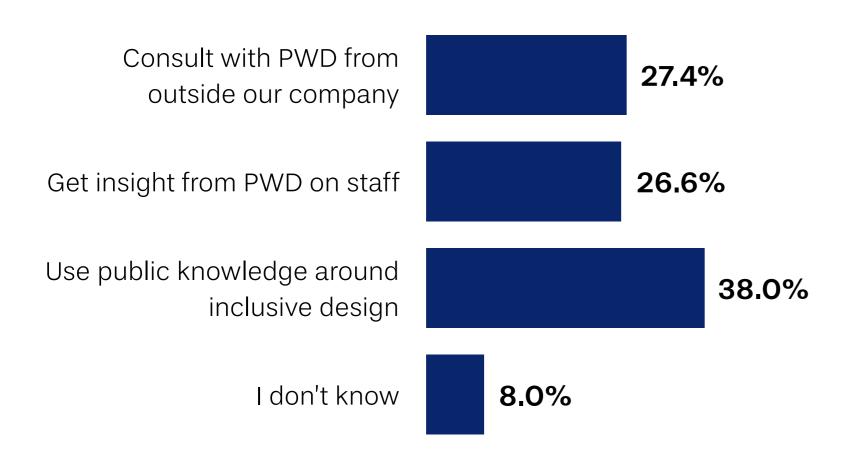
Where organisations fall on the spectrum

In our survey focused on accessibility and inclusive design, 42% of more than 3,000 respondents indicated that accessibility is a top priority for their organisation and 76.8% indicated there is a group or person responsible for ensuring products are accessible.

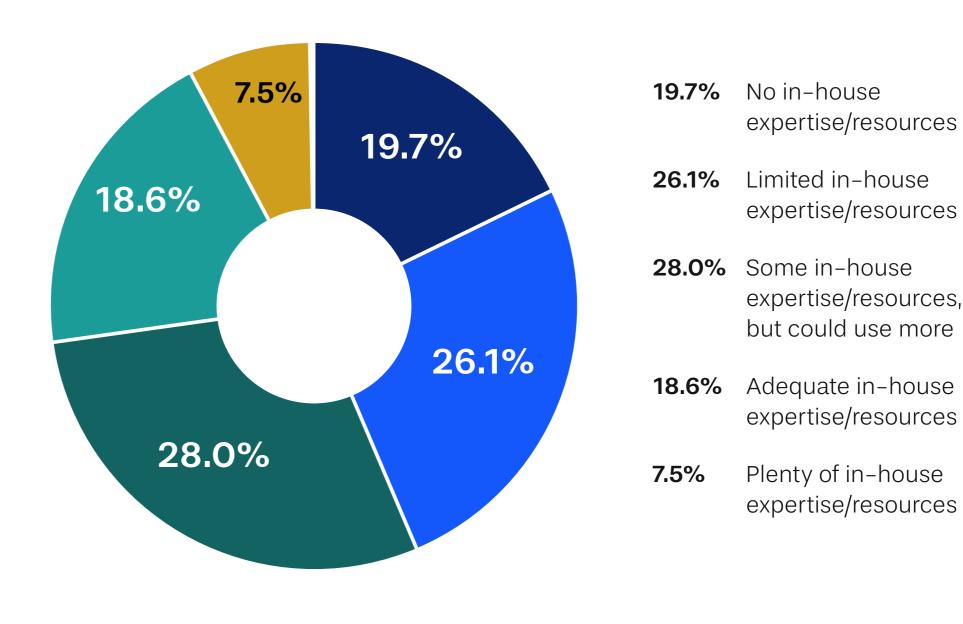
In Europe these figures were much lower. Just 26% of the 371 European respondents rated accessibility a top priority and 59% indicated there is a group or person responsible for ensuring their organisation's products are accessible.

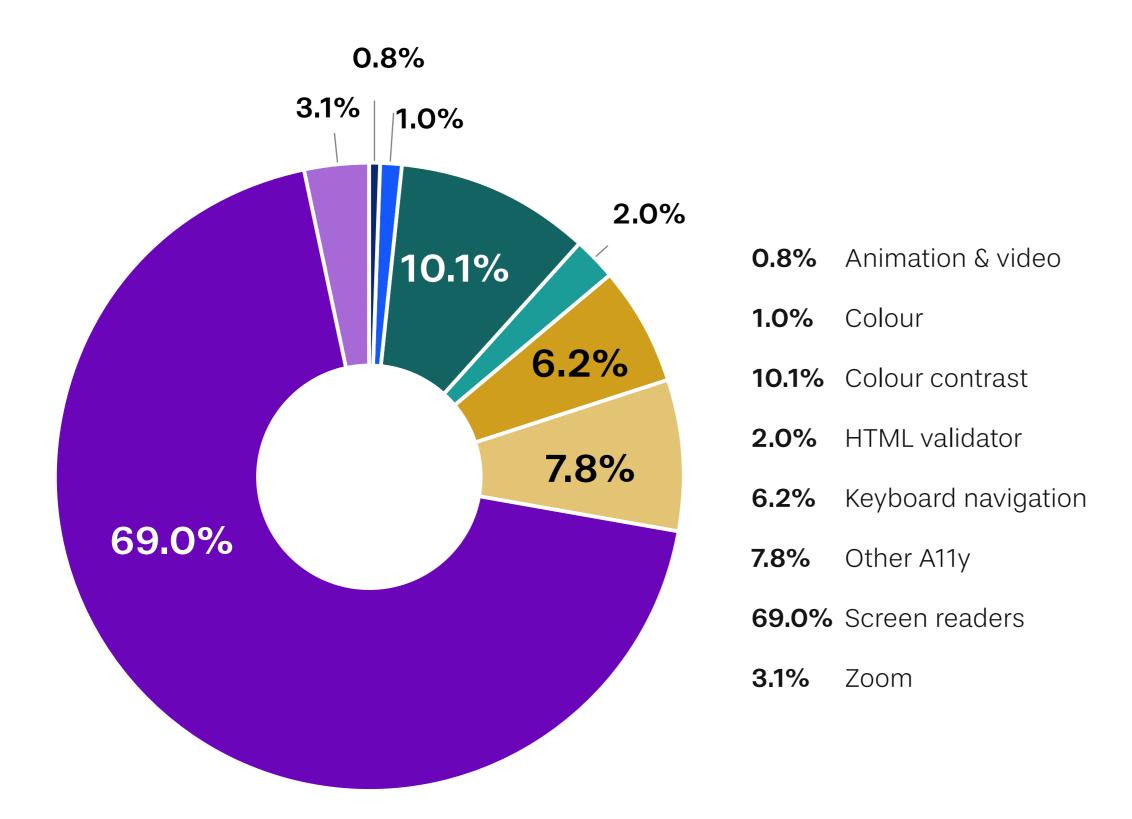
Does the team or expert responsible for accessibility in your organisation employ inclusive design principles?





While most respondents in Europe reported their organisation captures input from PWD at some point in the design and development process, 38% stated that their organisations rely solely on publicly available knowledge around inclusive design and have no direct interaction with PWD. Despite increasing understanding of digital accessibility and a desire to do better, many organisations still lack adequate resources.





For the third year in a row, screen reader errors are the most common accessibility issue, by a large margin. There seems to be a knowledge gap in how to consistently create code that works well with screen readers.

There's another gap in preparing to comply with the EAA. When surveyed less than 15 months before the deadline, more than a third of respondents in Europe said they had not begun to prepare, and another 35.4% indicated that they were behind schedule.

Is your company preparing for the EAA ahead of the June 2025 compliance deadline?

n=209

36.8%

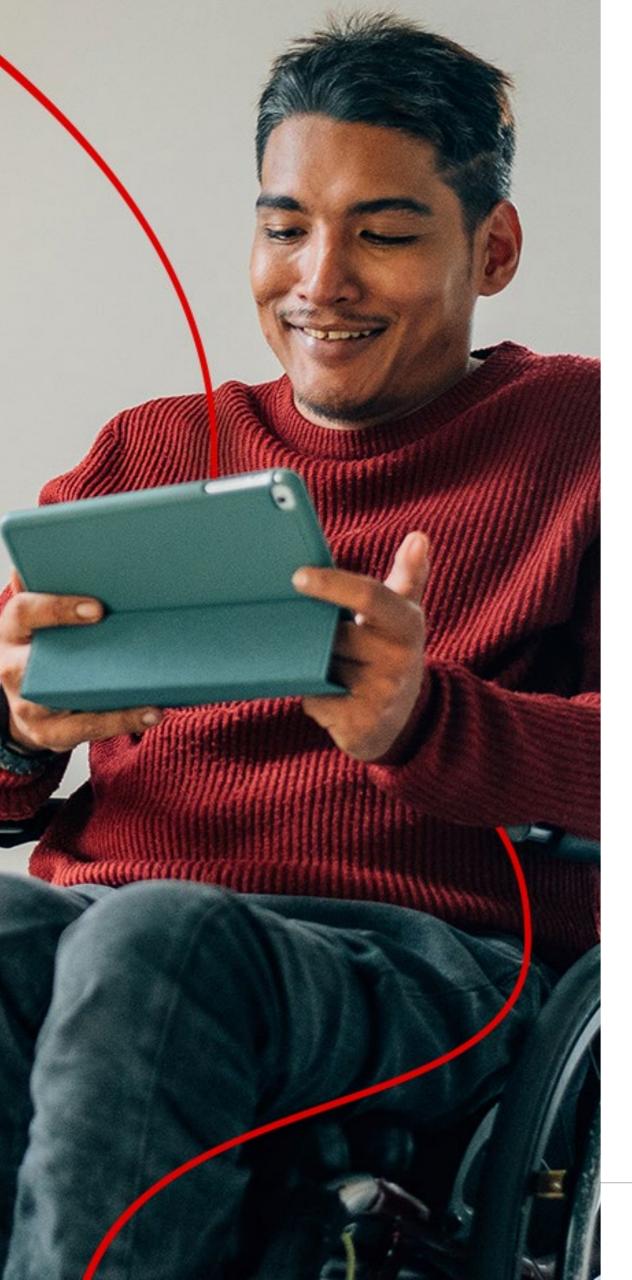
Yes – we are on schedule

35.4%

Somewhat – we are a bit behind schedule

37.8%

No – we have not started



Accessibility and inclusive design recommendations

Start with the foundations that shape your websites and apps: your design system/ Ul kit. Focusing on the elements that are most commonly used across your apps and websites delivers an immediate boost to usability and inclusivity. If the design system lacks built-in accessibility, that cascades across all the forms, templates and pages that incorporate those elements. Starting with the design system and UI kit helps scale accessibility from the earliest stages of design and development.

Include PWD and their insights from the earliest stages of design and development to ensure the best user experience possible. Make sure that your staff understands how your apps and sites work with different adaptive technologies for users with different disabilities, and how those may combine to create a variety of different disability profiles. For example, how does the experience for blind users change when they also have mobility limitations or hearing loss? Build partnerships and empathy with PWD to create better user experiences for everyone.

Make sure your organisation has adequate expertise and resources. While most organisations have a team or person responsible for digital accessibility, inclusivity and conformance must scale across all products and websites. Invest in ongoing training and testing for accessibility and inclusivity to reduce risk and ensure the organisation is prepared to conform to WCAG standards and comply with applicable laws, like the EAA.

UX testing

It's not enough for websites and apps to function: they must do so in ways that users expect and enjoy. Attracting and retaining customers is hard enough without having to recapture those who have been driven off by poor user experiences. Despite the ever–increasing amount of data organisations have at their fingertips, they often fail to address customer concerns or perform root cause analysis on common points of abandonment. With so many users willing to abandon an app at the first sign of friction, it's imperative for teams to have a strategy for delivering the best possible UX for the largest possible pool of users.

As organisations look to speed deployment, automate more and capitalise on Al's potential, they must remember that human feedback still plays a crucial role throughout the development process. From generative and exploratory research at the earliest stages of design to ongoing evaluative studies that drive product iteration, organisations must capture insight on the real user experience and identify ways to improve.



UX testing framework

Digital quality emergence:

Lack of formal systems, processes and documentation, no consistent methodology or approach to UX testing.

Examples of testing activities and processes:

- Dogfooding; testing with friends and family
- Guerilla usability testing
- → Reading customer reviews
- → Collecting user feedback (e.g., intercept surveys, etc.), without analysing or synthesising the data

Digital quality essentials:

Early stages of defining and documenting processes and procedures; establishing some consistency and structure around UX testing.

Examples of testing activities and processes:

- → Regularly reviewing data from intercept surveys or similar sources
- Conducting annual heuristic (expert) evaluations
- → Identifying 1-2 key user groups based off of initial trends noticed in data
- → Conducting user research without a clearly established plan to act upon the findings
- → Conducting 1-2 light usability evaluations each year

Digital quality expansion:

The organisation has a clear process in place to assess the most common customer journeys, including digital, physical and hybrid interactions. Some reporting is in place. Focus on coverage, scalability and efficiency across the organisation.

Examples of testing activities and processes:

- Gathering data in a variety of ways to create user personas and archetypes
- Regularly conducting a variety of UX studies at various points in the development lifecycle
- Conducting iterative usability testing to ensure any changes lead to stronger user experience
- Establishing strong relationships with key stakeholders to take action on UX study findings

Digital quality excellence:

The organisation thoroughly tests all customer journeys. Detailed reporting is in place. Teams relentlessly seek out and eliminate friction and understand the variations in preferences across markets.

Examples of testing activities and processes:

- Regularly using personas throughout the design process
- Conducting generative research before creating products or designs
- Conducting iterative testing across all platforms, devices and designs
- Employing both qualitative and quantitative methodologies to uncover what is happening, why is it happening, and how the design should be improved
- Building tight partnerships across the product, design, development and research teams

Case Study

Scoring better with users

Like many of its contemporaries, the Austrian social gaming company Funstage used to rely on qualitative user surveys to gather UX feedback. Beyond giving a vague idea of user sentiment, this did little to answer business-critical questions, like why users always dropped out of a game at a specific point.

Today, through detailed documentation in the form of user videos and written analysis, Applause helps Funstage see exactly where users encounter issues. And, instead of sorting through thousands of survey responses, Funstage counts on Applause's UX expert to filter and prioritise user feedback and provide actionable recommendations.



Localisation and payments are increasingly becoming part of the UX equation, yet fewer than 40% of our global survey respondents reported that they typically test these elements. Without attention to these crucial aspects of the customer journey, brands leave revenue on the table.

What types of tests does your organisation conduct?

n=872

23.2%

24.9%

29.7%

Customer journey testing

Localisation testing

Payments

56.2%

62.7%

User acceptance testing

User experience



UX recommendations

Collaborate on the best ways to act on insights and user feedback. Bring designers, developers and UX researchers together regularly to review UX test results and user feedback as a team, then brainstorm and implement improvements. Taking an interdisciplinary approach to evaluating and acting on feedback allows for teams to better understand priorities and to work together to come up with ways to enhance UX.

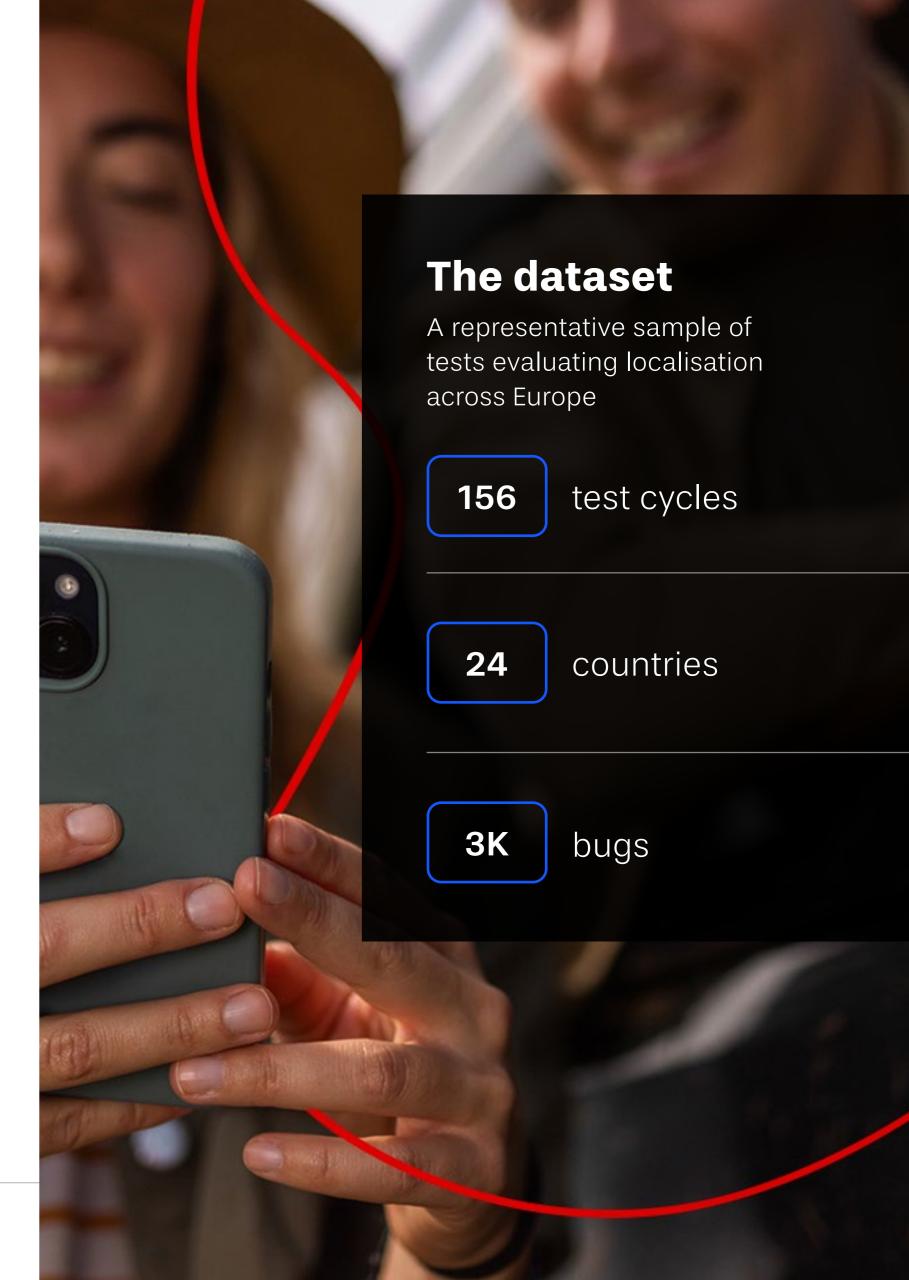
Create detailed user personas and use them for scenario-based testing. Develop detailed user personas representing different types of users or customers, based on data collected in generative and evaluative research studies — make sure the personas accurately reflect your users and their needs. Use these personas to guide UX testing and ensure your digital experiences meet the needs of various groups. Test specific tasks and workflows within the software from the perspectives of those personas to understand their unique wants and needs.

Implement continuous feedback mechanisms. Integrate in-app tools that allow users to provide real-time feedback directly within the software. Conduct regular user studies to gather ongoing feedback about the user experience and identify areas for improvement. Incorporate both quantitative and qualitative data, and measure changes over time.

Localisation testing

Accurate localisation can help attract and keep customers. While many users are willing to try apps in languages other than their native one, they expect accurate translations and culturally relevant offerings. In a survey of more than 985 European consumers, 21% of respondents reported that they would never use an app in a foreign language or only do so if absolutely necessary.

Another 41% stated they do not mind using foreign-language apps as long as the content provides value. While 81% of respondents said they had used a foreign-language app within the last year, users will abandon apps that don't live up to expectations: 48% reported that they have abandoned an app or website due to poor translations or inaccurate localisation.



Localisation testing framework

Digital quality emergence:

Lack of formal systems, processes and documentation; no consistent methodology or approach to translation or localisation.

Examples of testing and processes:

→ Translating some high-priority content without validating that translations are contextually correct

Digital quality essentials:

Early stages of defining and documenting processes and procedures; establishing some consistency and structure around localisation.

Examples of testing activities and processes:

- → Ensuring all content that should be localised is accurately translated
- Verifying that all currencies, dates, symbols and measurements are converted to the appropriate units and formats
- > Validating that forms work correctly
- Localising content for the business's top markets

Digital quality expansion:

The organisation has a clear process for ensuring accurate localisation and uses various testing types to validate. Some reporting is in place. Focus on coverage, scalability and efficiency.

Examples of testing activities and processes:

- Using native speakers in market to validate translations and idioms
- → Ensuring that visual elements fit translations
- Validating that imagery and colours are culturally appropriate
- Assessing workflows to ensure they align with expected processes
- Putting a process in place to resolve conflicts and update assets
- Conducting pre-production validation for strings
- Documenting preferred translations for key words and phrases in a glossary
- Using a minimum of double-blind support to validate translations, not including the content creator
- Localising applications for all markets where the business operates

Digital quality excellence:

Awareness of cultural differences and commitment to respecting the norms in different markets serves as a competitive differentiator.

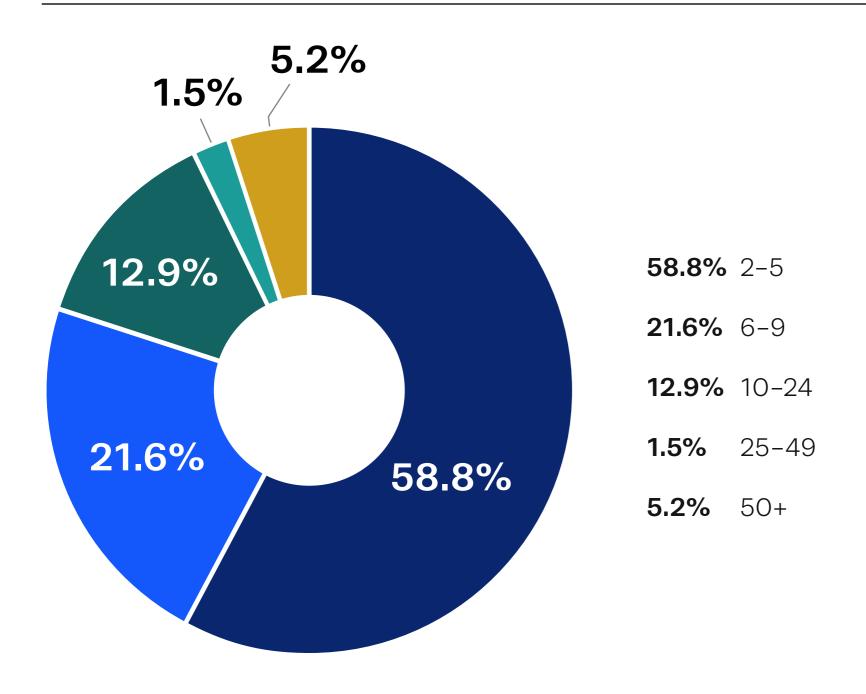
Examples of testing activities and processes:

- Leveraging cultural values and norms to create relevant product features and offerings
- → Differentiating between distinct dialects, such as Portuguese vs. Brazilian Portuguese
- Providing a channel for customers to report any issues
- → Having a process to manage issues
- Assessing how customer journeys vary across markets
- → Factoring in accessibility concerns, such as whether screen readers work for right-to-left languages
- Demonstrating geopolitical awareness in sensitive areas; correcting errors that can damage earnings or reputation
- → Committing to localisation in native languages; factoring in regional dialects and differences to develop a solution that works for all stakeholders

In a survey of more than 1,900 software development, product and QA professionals, 64% indicated that their apps and websites are available in multiple languages, including 74% of the 414 European respondents.

In how many different languages is your application available?

n=194



More than half of those in Europe who make apps available in multiple languages do all the development in-house.

Do you develop localised sites/apps in-house?

n=194

56.1%

Yes, we develop all of our localised sites/apps in-house

20.6%

We develop some in-house and outsource some, depending on the language

11.8%

No, we outsource development for all localised sites/apps

11.3%

I don't know



How do you validate that applications are properly localised?

n=193

36.2%

We use automated internationalisation (i18n) testing tools

54.9%

We have developers and QA staff who are native speakers for each language

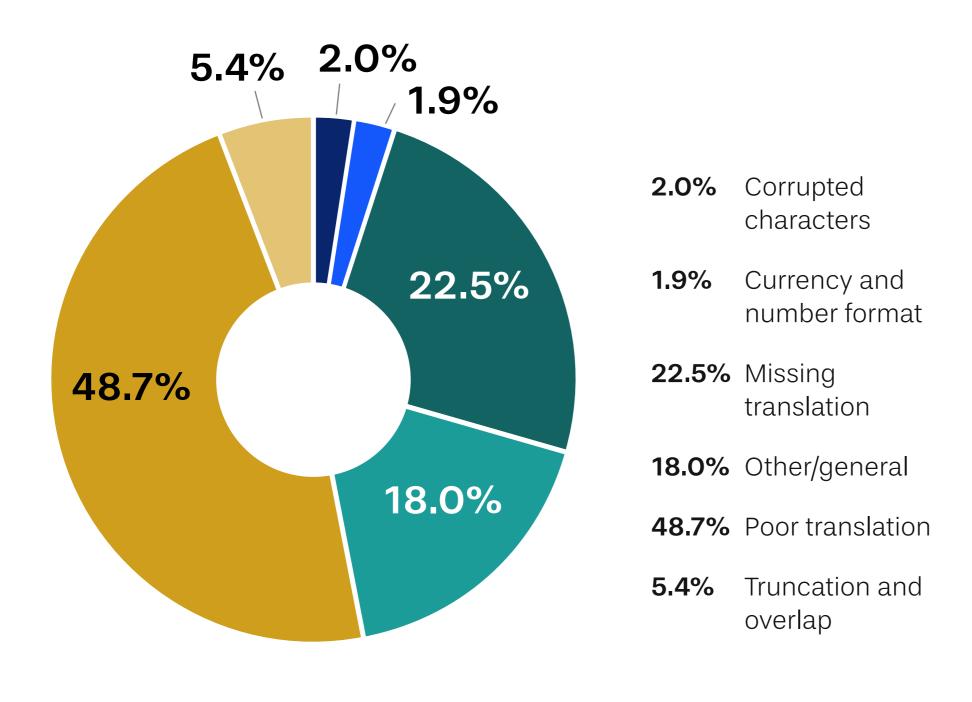
25.3%

We hire a translation agency

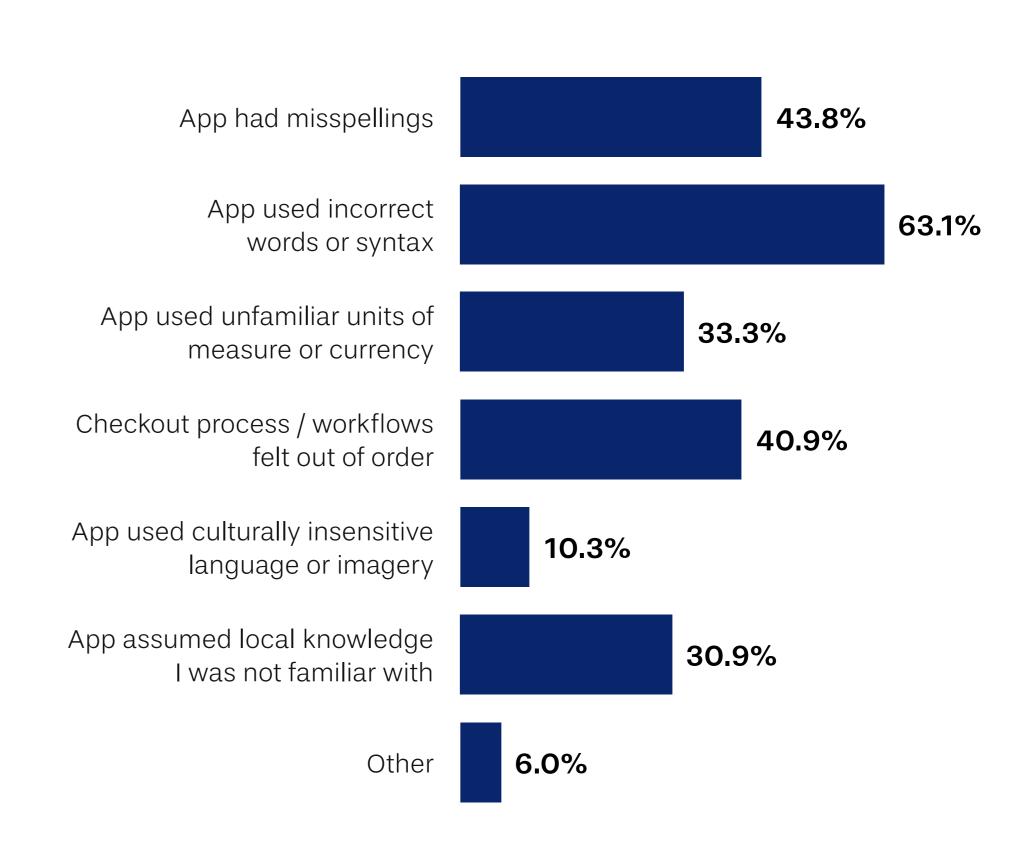
21.2%

We beta test with in-market customers

To maintain accuracy and consistency, 53% of European respondents report that their organisation maintains a glossary of preferred translations for key words and phrases used in their apps. In addition, 53% of 259 European respondents reported that they adjust their apps' customer journeys and checkout flows to align with expectations in different countries and cultures.



Consumers in Europe who had abandoned apps or websites due to poor translation and localisation described the issues that led them to give up on the experience.



Case Study

Winning love at first sight

When a company wanted to roll out its dating app in new countries, its small internal QA team needed to understand user expectations and ensure culturally appropriate experiences in the new markets.

Applause community members from each of the four target countries provided feedback on the onboarding process and offered unique culturallybased insights and recommendations, such as not asking about religious preference in Turkey.

As a result, the company was able to avoid errors that would have been immediate turn-offs for its new customers and win them over to the app.



Localisation testing recommendations

Take the time to translate, then validate spelling and syntax.

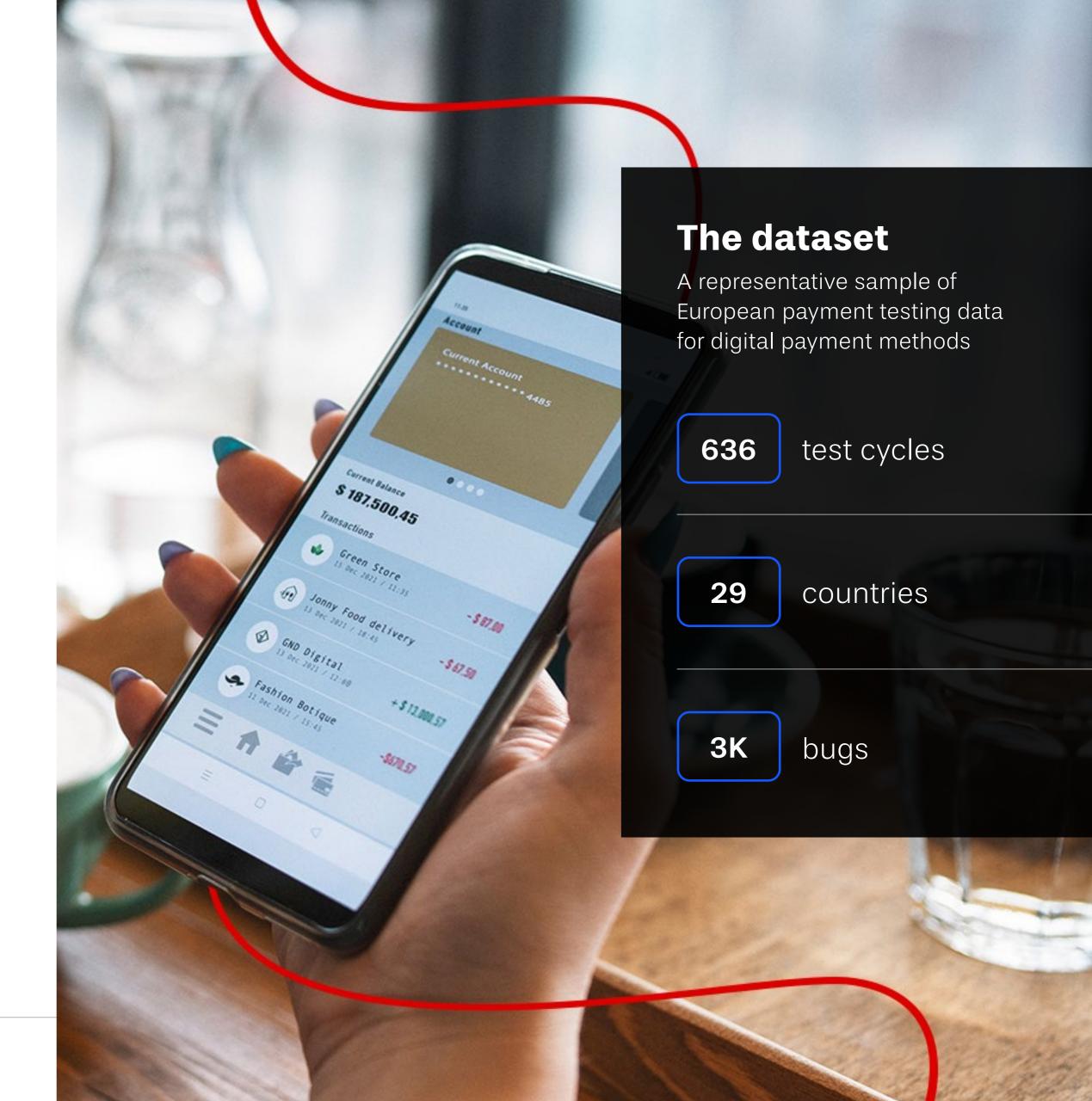
The most common localisation defects Applause testers uncovered were poor translations, followed by missing ones. Attention to these details is crucial to establish trust with customers in different markets and to create seamless user experiences.

Learn what the locals expect and adjust your customer journeys accordingly. With a third of consumers reporting they abandoned an app because a sign-up process or checkout flow felt out of order, it's important to align with the expectations in different markets. There's no substitute for feedback from local, in-market participants that match your customer profiles.

Payment testing

While it seems like payment testing would build a case for itself — if you can't accept payments, you can't make money — it's often overlooked. And, even organisations that validate functionality for payments often only partially test various payment instruments or other types of transactions.

Finding and fixing a single critical payment blocker before it reaches production can have a significant impact on the bottom line. Taking the time to thoroughly test payment workflows and instruments pays off.



Payment testing framework

Digital quality emergence:

Lack of formal systems, processes and documentation, no consistent methodology or approach to payment testing.

Examples of testing activities and processes:

- > Testing with dummy cards and accounts
- Dogfooding; testing with friends and family

Digital quality essentials:

Early stages of defining and documenting processes and procedures; establishing some consistency and structure around payment testing.

Examples of testing activities and processes:

- Validating that transactions work using live payment instruments: testing both purchases and returns
- → Defining a payment instrument coverage matrix, including at least the 5-10 most popular payment instruments in market
- → Testing when changing payment gateways; validating code for new gateways or payment processors
- → Verifying code for launches in new countries

Digital quality expansion:

The organisation has a clear process in place to ensure the full range of payment activities work properly and uses various testing types to assess functionality and UX. Some reporting is in place. Focus on coverage, scalability and efficiency across the organisation.

Examples of testing activities and processes:

- Creating a payment instrument coverage matrix based on data about website/app usage, local user preferences
- Validating new payment methods prior to launch
- Collecting and acting on UX feedback
- → Conducting payment instrument regression testing for all features, including product returns and customer service interactions
- Testing payments using specific devices, banks and BIN combinations
- → Sharing card statements upon request

Digital quality excellence:

The organisation continuously and comprehensively tests end-to-end payment workflows and UX, including a wide variety of payment instruments, and understands the variations in preferred payment instruments and workflows across markets.

Examples of testing activities and processes:

- Conducting ongoing testing for loyalty programs, promotional offers, and options like BNPL
- → Testing negative/unavailable payment instruments (soft or hard decline, blocked, expired)
- Performing wallet cycling testing with multiple payments in different balance states
- → Live testing one-of-a-kind payments which require holder presence (PIX, Blink, Bancontact, iDEAL)
- Verifying purchase states live directly with the bank for card issuers, card networks and fintechs
- Verifying purchase results live directly with the bank for merchants

60.1%

18.7%

21.2%

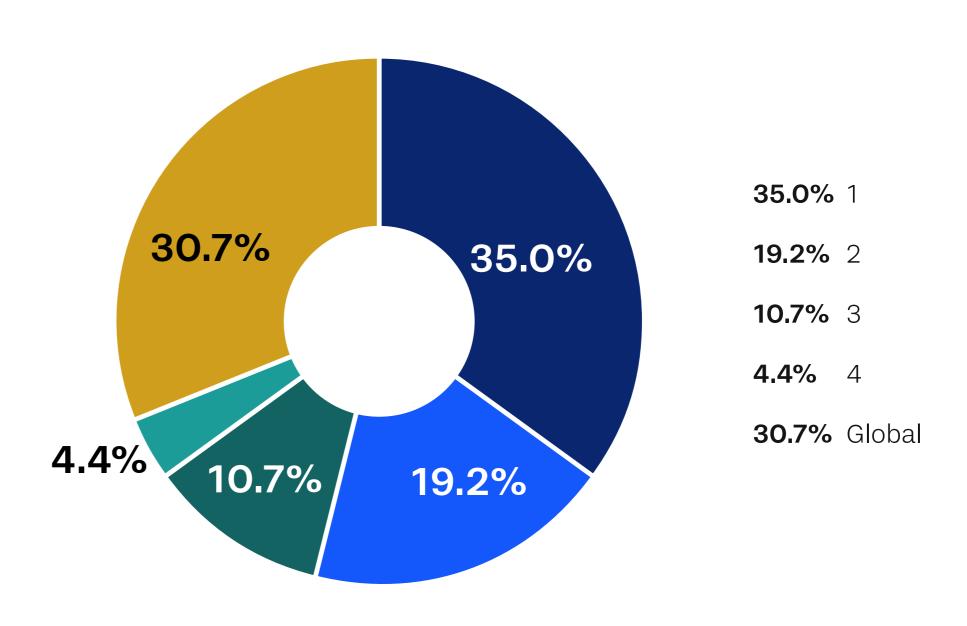
1-9 countries

10-49 countries

50+ countries

For organisations to succeed, they need to be able to capture payments. Digital payments are becoming the norm. No longer reserved for websites or apps, digital payments are increasingly making their ways into storefronts, restaurants and other physical environments. As companies roll out new payment options, whether it's QR codes on restaurant bills or launching an app in a new region, testing is essential.

Regions: Asia Pacific (Asia, Australia and Oceania), Europe, Middle East & Africa, North America, and South America, Central America, Caribbean



Case Study

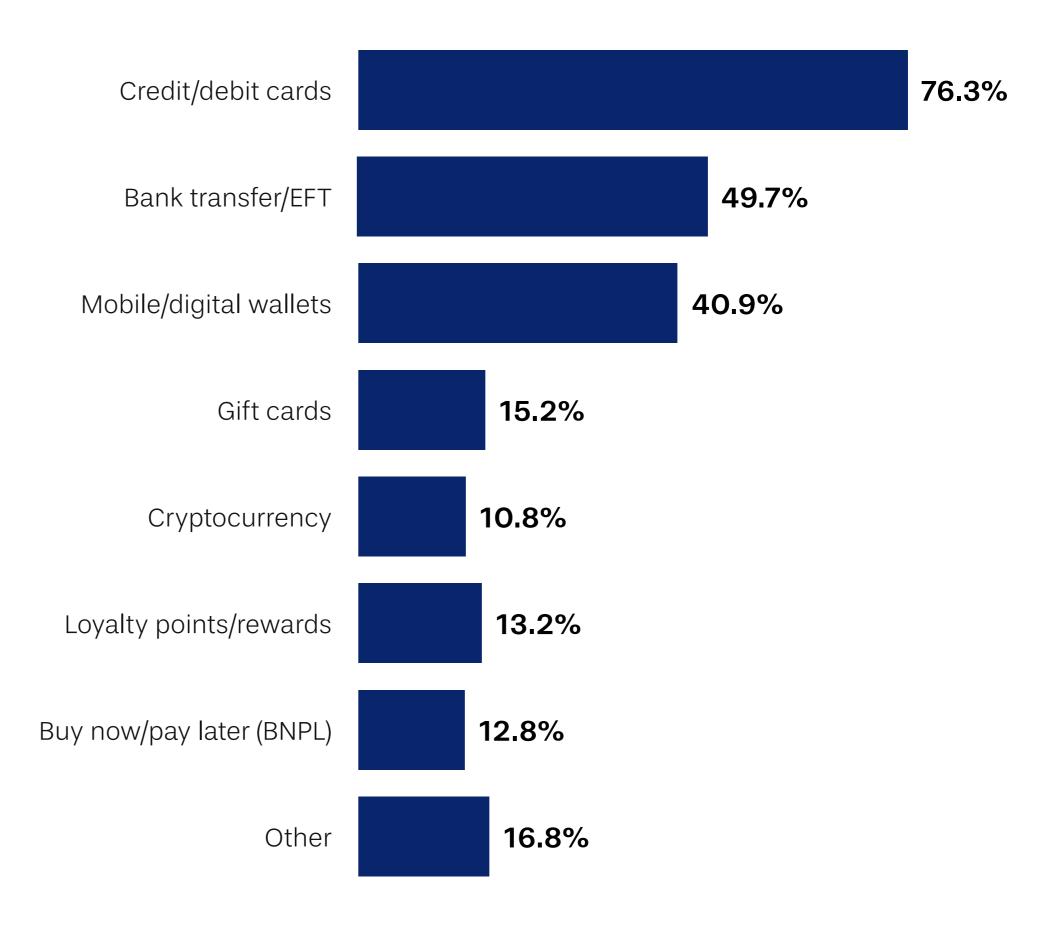
Protecting sales with payment testing

One global athletics brand worked with Applause to test payments across 58 countries. Testers identified 12 payment bugs with an estimated value of \$1.1M per critical blocker. The company avoided \$13.3M in lost revenue by addressing just those 12 defects.



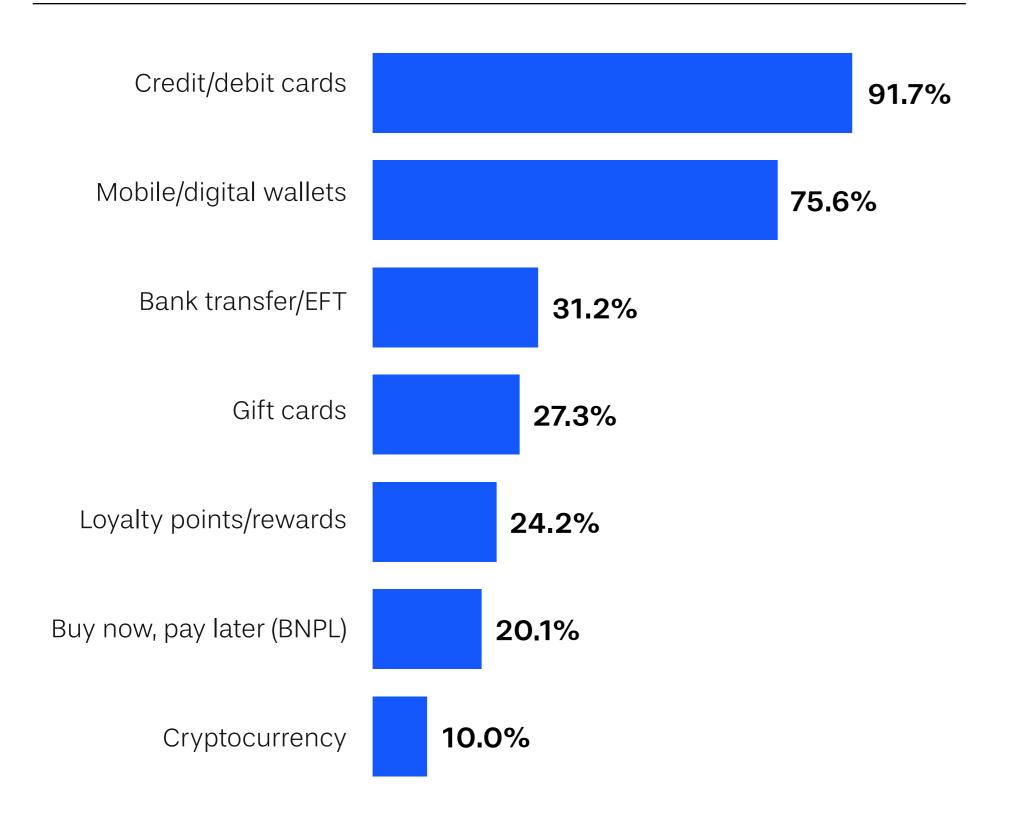
Which payment options are available through your app?

n = 249



Which of these payment methods do you use online? Choose all that apply.

n=294



In Applause's consumer survey, 37% of European respondents said they were extremely likely to abandon a purchase if a website or app did not accept their preferred payment method. Another 41% said they were somewhat likely to abandon; only 2% said they were extremely unlikely to do so. Yet, only 52% of the European software development and QA professionals surveyed reported that customer preference influences the payment methods their organisations accept.



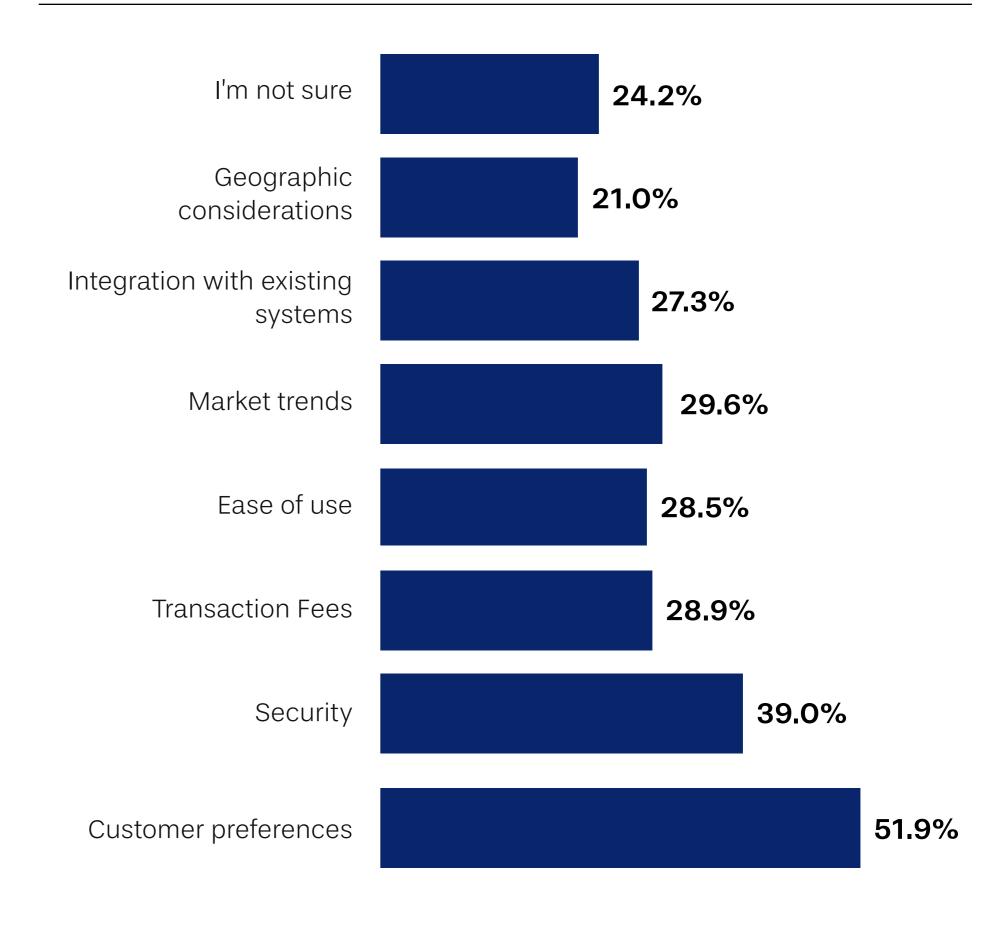
52% of the European respondents said they were extremely likely to abandon a purchase if a website or app did not accept their preferred payment method

Only 37% of the respondents reported that their organisation has a documented payment instrument testing matrix — 27% stated they do not have one and the remaining 37% were unsure. When it comes to testing with live payment instruments, 45% reported that their organisation does so; 22% stated they do not and the remainder were uncertain.

Many organisations do not assess all parts of the payment process, though most validate purchase functionality. It's clear that this testing gap is creating problems for users: 35% of European consumers in our survey reported that they had encountered an issue that impacted their ability to pay within the last three months.

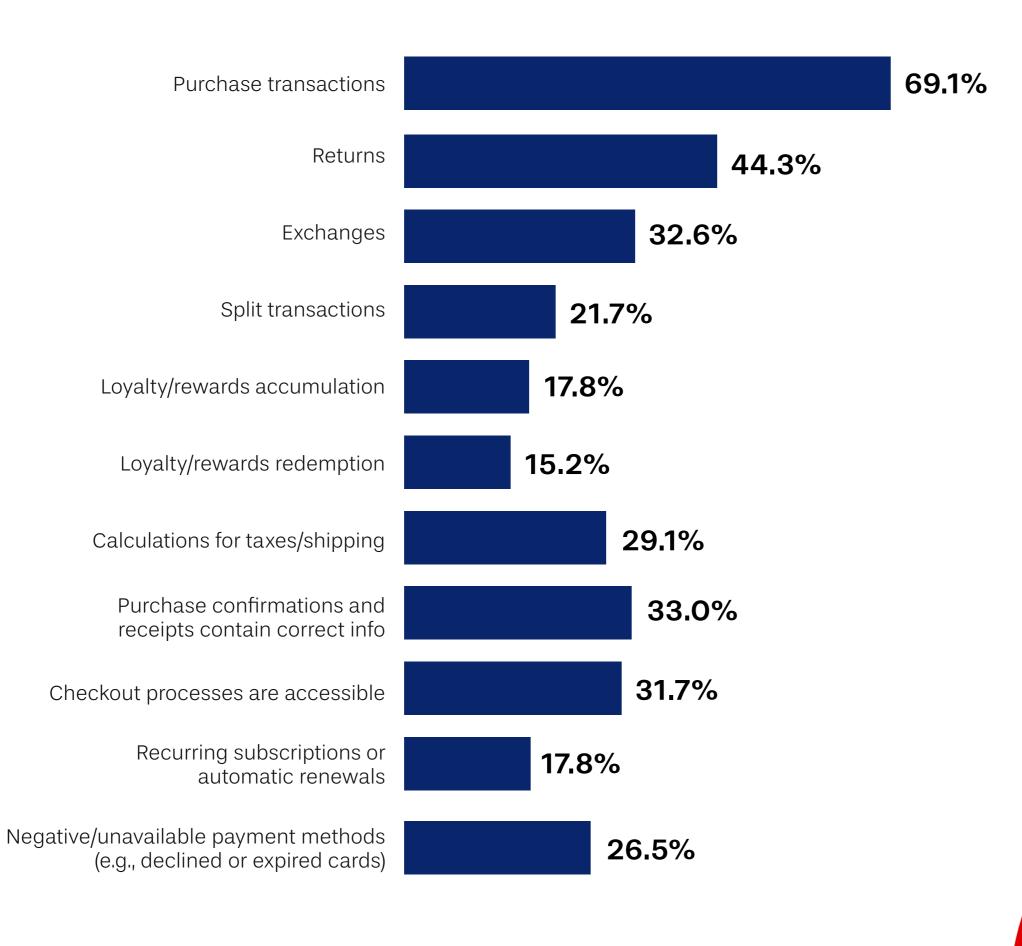
How does your organisation determine what payment methods to accept? Choose all that apply.

n=256

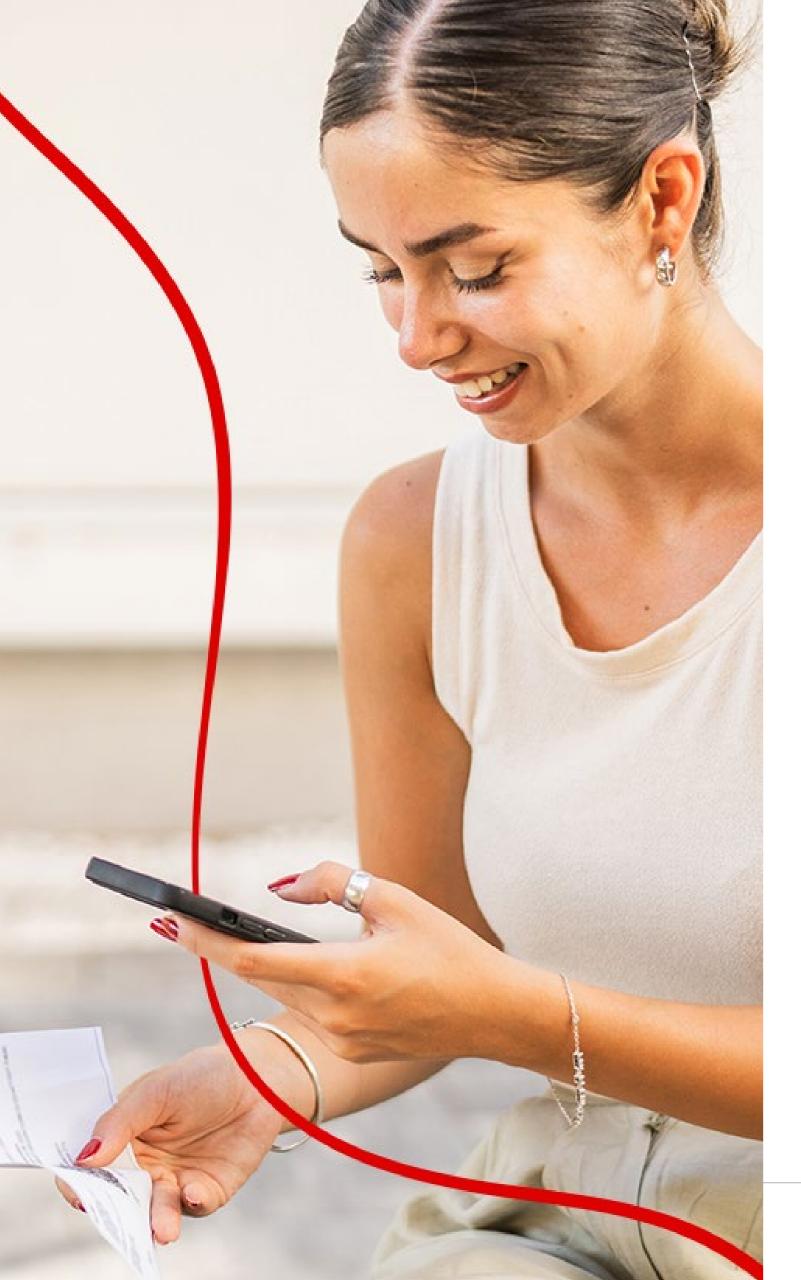


Which elements of the payment process does your organisation test or evaluate? Choose all that apply.

n=230



Failure to test processes like rewards accumulation or redemption can be costly - in both financial terms and customer satisfaction. The same holds true for validating postage and tax calculations: too much and you'll anger customers, too little and you cut into profits and potentially accrue penalties. Even something as simple as validating the way a transaction shows up on a statement can have an impact – a customer who doesn't recognise a charge due to an unfamiliar vendor name may dispute it with their bank or credit card provider, or cancel a subscription moving forward.



Payment testing recommendations

Test all aspects of the payment process, not just purchases. End-toend payment testing across all parts of the transaction is the only way to detect issues that can eat away at margins. Returns, exchanges, recurring subscriptions and renewals, autotransfers, loyalty programs: test all the different ways funds and credit change hands. It's the only way to ensure every transaction succeeds, every time.

Test a broad range of payment instruments across different devices to uncover functional flaws that block payments. Whether it's the inability to accept a specific payment method or a visual error that fails to display a card entry form on certain devices, preventing these errors from reaching customers is crucial.

Collect customer feedback on their preferred payment methods in different markets. With more than three-quarters of consumers likely to abandon a purchase if a website or app doesn't accept their preferred payment method, it's imperative to provide the options customers want, especially as providers change and new payment methods enter the scene. Preferred payment methods can vary widely from one country to another, so make sure you understand local preferences.

Al training and testing

The meteoric rise of AI – and generative AI in particular – poses new opportunities and complexities for consumers and organisations alike. As the number of users and use cases increases, so does the need for thorough testing and risk mitigation. While consumer adoption has soared and businesses are looking to capitalise on AI's potential to increase efficiency, many people remain sceptical about the technology, raising concerns about inaccuracy, bias, safety, security and other risk factors.

To reduce risk and develop AI apps that users trust – and that comply with ever-evolving legislation – organisations must adopt a rigorous testing strategy and demonstrate transparency around data collection and model decisions.



Al testing framework

Digital quality emergence:

Lack of formal systems, processes and documentation, no consistent methodology or approach to testing Al.

Examples of testing activities and processes:

- Dogfooding; testing with friends and family
- Performing basic data quality checks to ensure training data is clean and accurate
- Conducting simple tests to identify any glaring bias or fairness issues in the model

Digital quality essentials:

Early stages of defining and documenting processes and procedures; establishing some consistency and structure around testing Al.

Examples of testing activities and processes:

- → Assessing bias and fairness across multiple dimensions, including different demographic and contextual factors
- → Defining and monitoring critical KPIs for the application to measure model performance
- Maintaining documentation and version control: keeping detailed records of data sources, model parameters, and configuration settings to ensure reproducibility and traceability
- → Executing basic error analysis and troubleshooting

Digital quality expansion:

The organisation has a clear process in place to ensure the full range of AI interactions work properly and uses various testing types to assess functionality and UX. Some reporting is in place. Focus on coverage, scalability and efficiency across the organisation.

Examples of testing activities and processes:

- Systematically collecting and acting on UX feedback to improve the user experience
- Conducting regular data validation to ensure ongoing data integrity and quality
- → Testing for model explainability and transparency to ensure the model's decisions can be understood and justified
- Using data from KPIs to improve the application's performance over time, iteratively enhancing accuracy and efficiency based on KPIs

Digital quality excellence:

The organisation thoroughly tests end-toend workflows and UX for AI experiences, including a wide variety of inputs and prompts, and understands the variations in preferences across markets.

Examples of testing activities and processes:

- Conducting comprehensive end-to-end testing from data ingestion to final output to ensure consistency and accuracy
- Performing advanced, ongoing red teaming exercises to proactively identify and mitigate vulnerabilities
- → Ensuring rigorous, comprehensive data validation to maintain high standards of quality and reliability, including regular audits and compliance checks
- Maintaining extensive testing documentation and sharing knowledge and learnings internally
- Continuing to retrain models over time, updating them using live data
- → Executing real-time monitoring to detect and correct anomalies as they arise

In 2024, Applause conducted a global survey on generative Al use: 6,361 consumers, software developers and QA professionals participated in the survey, revealing that while user satisfaction is increasing, opportunities for improvement still exist.

More than 2,900 respondents indicated they use at least one Gen AI chatbot daily, including 997 in Europe. In addition, 37.5% of respondents both globally and in Europe reported that they use different chatbots for different tasks. While 26.5% globally stated that they have swapped one service for another, typically due to performance issues, this was lower in Europe where only 18% had done so.

For most users, chatbots replace existing search engines and research tools — 91% of respondents have used chatbots to conduct research, and 33% of those respondents use Gen AI for research daily. For 81% of survey participants, chatbots have replaced search engines for queries; 32% of those use chatbots for search daily. Other popular use cases include language

translation, creative writing and drafting emails, proposals or similar business communications.

Though the number of users who have encountered responses that are biassed, offensive or contain hallucinations has grown slightly over last year, more survey respondents reported that Gen AI understood their prompts than last year.

The most common Gen AI UX errors in Europe

n=762

55.1%

Gave a general answer that did not provide enough detail

35.8%

Generated obviously wrong answers

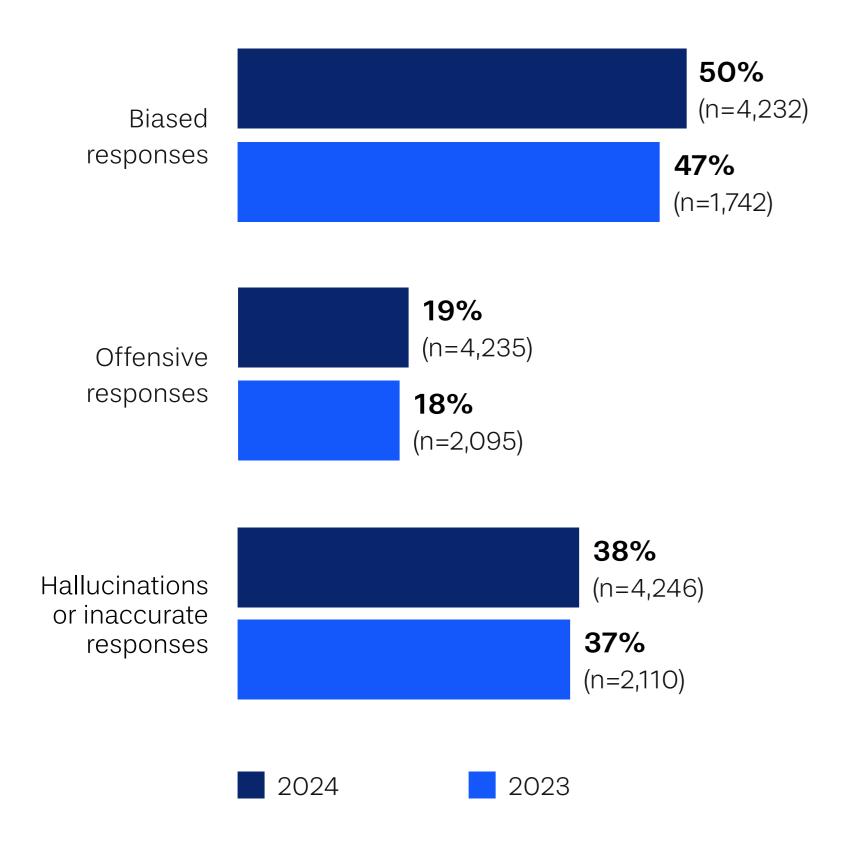
51.8%

Gave a convincing but slightly incorrect answer

32.9%

Gave a convincing but slightly incorrect answer:

Have you experienced any of the following when using generative AI?



Gen Al is changing software development and testing

Gen AI has myriad use cases in the software development and testing process. We asked survey respondents who indicated they are using chatbots to write or debug code, build test cases, or for test reporting to expand on how they are using chatbots for testing.

Top use cases for Gen AI in testing

n=195

62.1%

Test case generation

48.2%

Text generation for test data

41.0%

Test reporting

Case Study

Harnessing human feedback with prompt response grading

A leading financial services firm sought to enhance its AI chatbot, built on an opensource large language model and trained on proprietary data. It worked with Applause to fine-tune the chatbot's responses and align them with user needs through reinforcement learning from human feedback (RLHF).

A diverse testing team evaluated thousands of chatbot responses weekly, grading accuracy and flagging content such as bias, toxicity and inaccuracies. This enabled the company to identify and fix specific weaknesses in the model, significantly reducing safety concerns and improving user satisfaction.

Al testing recommendations

Use red teaming to identify vulnerabilities and mitigate risk.

Assemble testing teams that include diverse perspectives and deep domain expertise to reduce the risk of bias and inaccuracy. Effective red teaming can also improve UX and scale testing by providing both depth and breadth.

Integrate human feedback throughout the AI model development lifecycle. Nuanced human feedback is essential while training models and in evaluating model behaviour. Human oversight is also required to ensure AI responses meet user expectations and adhere to legal, regulatory and ethical requirements. A programmatic approach to capturing and responding to ongoing and iterative human feedback allows organisations to fine-tune models to improve quality and mitigate risks.

Collect diverse training data that covers real-world use scenarios.

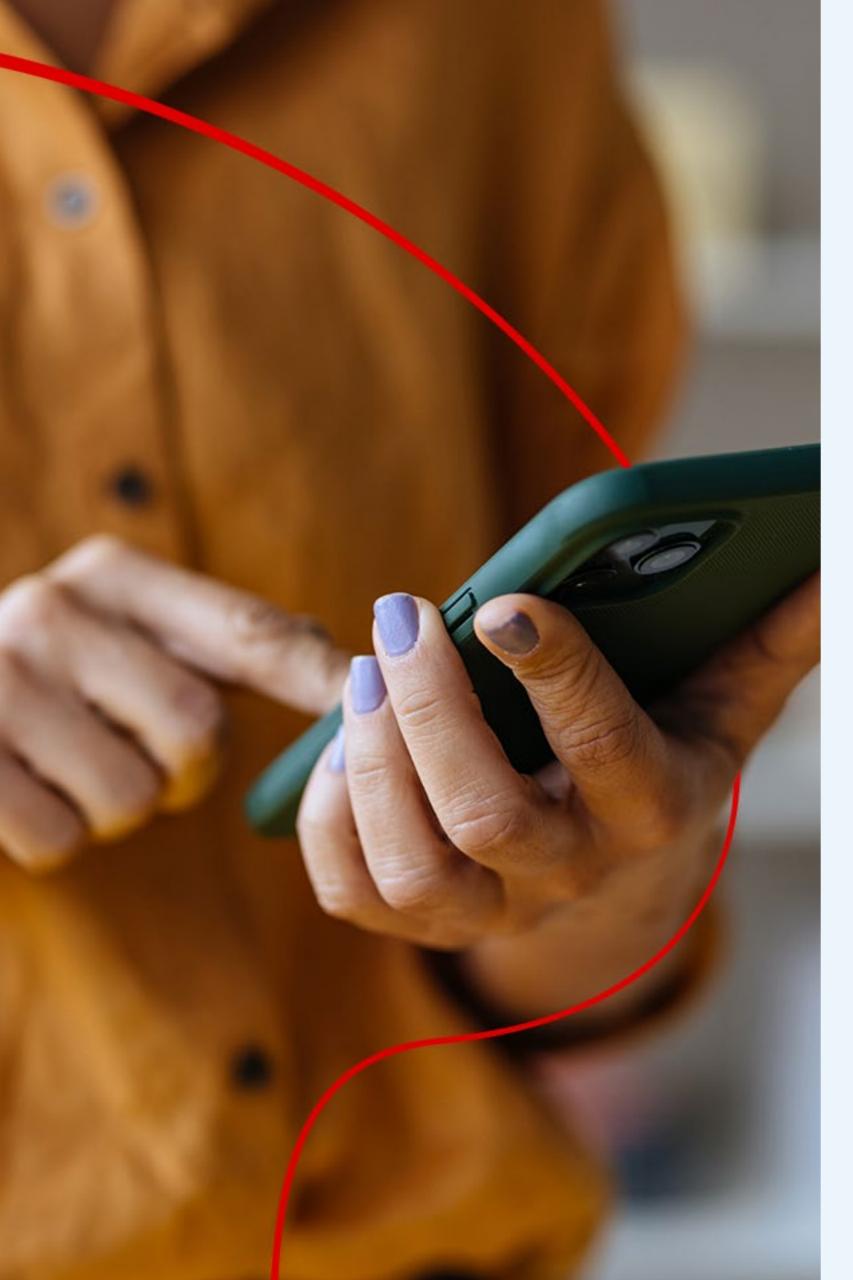
To reduce the risk of bias, inaccuracy or poor user experience, it's crucial to start with high-quality data that's fit for purpose. Off-theshelf datasets from a data warehouse can offer a starting point, but can't provide the specific details and level of nuance that AI requires.

What's next in digital quality

Whether your organisation has well-established quality systems or you're just starting out, we hope you'll find insights in this report that help you improve and innovate. Use this report to identify your organisation's current capabilities and gaps, and leverage your internal data to pinpoint which areas of focus will yield the greatest boosts to quality.

As AI adoption takes off, users develop higher expectations for apps across industries, and since technologies constantly evolve, it's critical to invest in the activities and infrastructure that allow your organisation to maintain quality at speed and scale.





What does digital quality mean to you?

Where does your organisation fall on the various frameworks? Which trends are you monitoring most closely? What are your secret weapons for creating apps users can't live without? We'd love to learn more about how you define, measure and pursue exceptional digital quality.

View additional materials at **StateOfDigitalQuality.com**.

Contact us at **feedback@stateofdigitalquality.com**.

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About Applause

Applause is the world leader in digital quality – built by innovators, powered by people and dedicated to the comprehensive digital testing and feedback needs of our global enterprise customers. Our fully managed solutions harness a powerful combination of community-based testing and advanced technology to ensure organisations can move quickly to release apps, devices and experiences that are consistently functional, intuitive and inclusive in any market. Our experts steward you through the entire testing process, from strategy to execution, seamlessly supplementing your existing resources. We deliver actionable, real-time insights early in the development process that ensure projects adhere to roadmaps and launch successfully, driving customer retention and revenue. We're proud to be an essential partner to the most innovative names in the digital economy, as we work to ensure technology works for everyone, everywhere. Learn more: **applause.com**

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