

### **Enabling Business** Responsiveness with Intelligent Continuous Testing

For digital innovation, organizations must "shift left"

and test software rapidly and continuously across a complex, plethora of environments to keep pace with high-velocity DevOps pipelines. "Smarter" testing and quality strategies leveraging artificial intelligence can help increase efficiency, resilience, and business optimization. Respond to Breadth of Coverage

# **Applications**

**Demanded for High-Quality** 



Testing imperatives exist for safe, relevant, high-quality, adaptive apps to avoid reputational and



Complexity demands business alignment,

automation, and leverage of AI/ML augmentation as it evolves



Al/analytics is a top area for IT-focused spending; DX and hybrid work are boosting AI usage via automation for improved decision-making, modeling, and monitoring in dramatically changing environments

**Data optimization and software** are core areas investment:

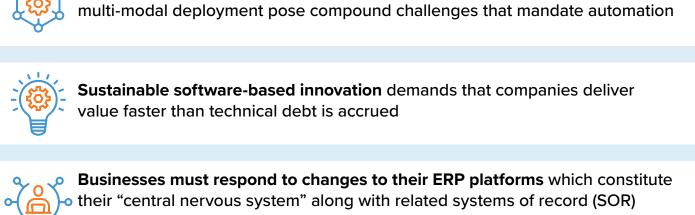
> Over 40% of full-time developers focused on AI/ML development



**Establish Performance Engineering** 

**Strategies for Governance Across** 

the Software Portfolio Multiplicity of systems and technologies across myriad platforms for





SAP-mandated shift to S/4HANA by 2027 compels timely, comprehensive quality strategy to successfully migrate while also providing business continuity



Most organizations seek tools that Most organizations are interested in support mainframe and modern being a digital solution hub or part of a



applications and see integration with

legacy applications as a top

development challenge, followed by siloed teams, limited reusability and



community that collaborates to create and share digital solutions and are

increasingly deploying those digital

solutions to off-premises cloud

infrastructure





address skills barrier with natural language processing

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Al models enable self-learning, evolving over time as additional data is gathered to augment capabilities and increase efficiency

Increase coverage rates and efficiency via computer vision and machine learning (ML) for object identification

Scale automation with AI technology to keep pace with pipeline, data and business dynamism and complexity



**60%** of developers said they had adopted AIOps practices and another 20% plan to adopt AlOps

in the next 12 months

Sources: IDC, PaasView and the Developer, May 2021 n=2500; Accelerated Application Delivery Survey, January 2022, n=200

Benefits from Comprehensive **Testing with Analytics to Adapt Dynamically** 



## **Increasing demand for efficiency** drives functional testing (FT) with emerging Al

Performance engineering (PE) and performance test (PT) enable rapid scaling

Management of tests, test environments and test data vital for visibility,

usage and analytics

with shift to Dx and remote work

coverage, governance and compliance



Manual testing efforts and lack of automation was a leading challenge cited by respondents; a majority of organizations are adopting advanced software quality strategies such as continuous testing, Al-driven test automation, model-based and scriptless testing, behavior-driven-development, communities of practice

Source: IDC, U.S. Accelerated Application Delivery Survey, January 2022, n=200

**Create Intelligent Overarching Test** 

**Strategy with Automation for** 

testing reach to non-technical business users, and enable

visible, actionable metrics

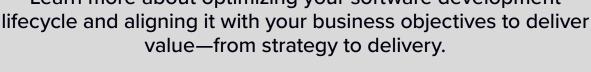


Remain relevant in Unite performance, Incorporate organizational and functional and today's economy non-functional testing through adaptive, agile process change high-quality execution with appropriate across complex with progressive quality automation ecosystem of apps and

enhancement (PE)



technologies



strategies for success

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