Brochure

The Avanade Modern Engineering Platform

Modernize your applications for agility, speed and innovation

"Avanade has accelerated our ability to deploy new features and new requirements...far faster than we could ever do."

-Source: IDC White Paper Sponsored by Avanade, "Using Avanade's Managed Services to Unlock Business Value," Doc #41895316, April 2017

Executive Summary

Application modernization is crucial to your success as a digital business. You need to modernize your old apps and create new ones for cloud-first efficiencies and economics—and optimize those apps to take maximum advantage of the internet of things, artificial intelligence, cognitive services and more. You can do all this with Avanade, which uses its Modern Engineering Platform to integrate DevOps, agile application development and managed services to help you achieve greater benefits by modernizing your applications.

Get maximum benefit from a fusion of Microsoft and Avanade

The Modern Engineering Platform is a fusion of the Microsoft technology ecosystem, including Azure, with Avanade's global subject matter expertise. It minimizes the investment your company needs to make to benefit quickly from DevOps and agile. Avanade expert engineers use the platform to build, test and deploy software with high agility, more quality, less risk, frequent innovation and deep insights.

Modern Software Engineering: The right solution. Right now.

The right solution. Right now. Recent global research sponsored by Avanade showed that 89% of senior IT decision makers agree that modern software engineering will be key in addressing the emerging requirements of the digital business. IT decision makers surveyed by Avanade in 2017 overwhelmingly cited the importance of modern software engineering to their companies. Most already use modern

Obstacles to in-house modern software engineering adoption

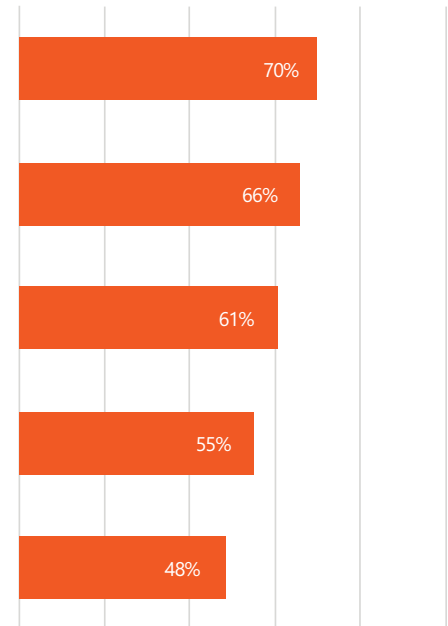| Obstacle	Percentage
Finding the investment to acquire the infrastructure automation, service analytics and service management technologies required to create a modern software engineering platform	70%
Having the skills sets available to practice a DevOps delivery and operating model	66%
Re-aligning internal IT teams to practice DevOps	61%
Having the skills sets available to practice agile development	55%
Finding the people to implement and operate a modern software engineering platform	48%

"What do you consider to be the biggest obstacles to your organization adopting modern software engineering practices in-house?", combination of responses ranked first, second and third, asked to all respondents (800).
Source: IT modernization: critical to digital transformation. Avanade, March 2017

software engineering techniques such as DevOps teams, agile application development or a cloud-first approach.

And little wonder. They expect their ROI from modern software engineering to come in the form of faster response times and time to market, maximum change with minimal risk and disruption, freedom from vendor lock-in, improved overall performance, efficient processes and continuous delivery. The bottom line: Modern software engineering delivers a strategic advantage that today's businesses need to get ahead and stay ahead in their increasingly competitive markets.
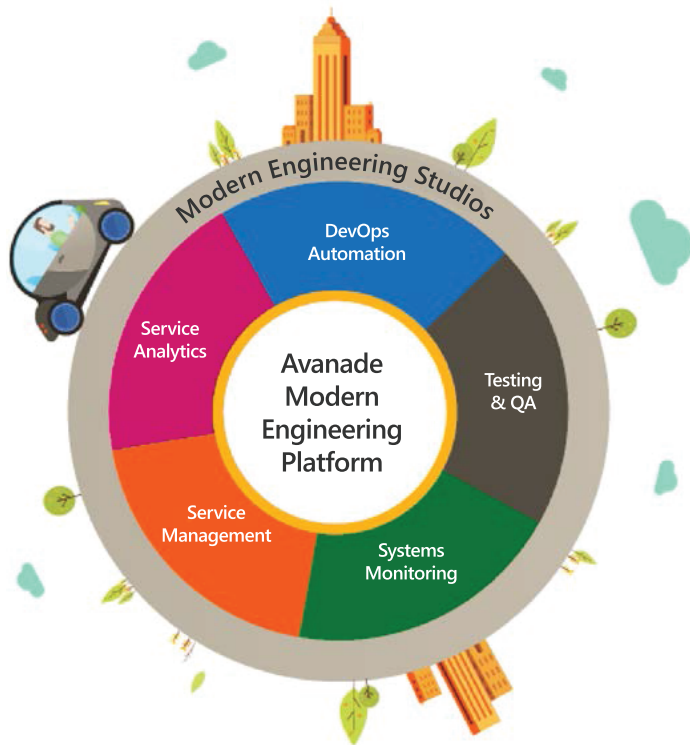
So why isn't everyone doing it?

Still, many IT decision makers we surveyed are uncomfortable with modern software engineering—which helps explain

why many companies slow-walk their application modernizations. Less than a third say they are experts in any of the modern software engineering techniques they use. Most struggle to find the funds to adopt these techniques at a time when their IT budgets are growing only slightly, if at all.

To mitigate their gaps in expertise and investment, global IT decision makers who use or plan to use modern software engineering are turning to service providers in areas such as DevOps automation, testing and quality assurance automation, continuous delivery and agile application development. But not all service providers are alike. The Avanade Modern Engineering Platform is a comprehensive approach for modern software engineering, which delivers proven results.

Inside the Modern Engineering Platform

The platform is based on five expertise areas: DevOps Automation, Testing and Quality Assurance, Systems Monitoring, Service Management and Service Analytics. Here's a closer look:

Modern Engineering Studios

- DevOps Automation
- Service Analytics
- Testing & QA
- Service Management
- Systems Monitoring

Avanade Modern Engineering Platform

Here's how the Modern Engineering Platform benefits businesses today.

- Companies cut the time to deploy a Sitecore instance by 75% with DevOps Automation.

- A UK utility company automates 75% of cases for a first release and cuts resources for manual testing in half with Testing and QA.

- A public health service monitors over 1 million mailboxes and 350,000 Skype for Business accounts with Systems Monitoring.

- An integrated energy company cuts downtime incidents in half—and the time to resolve remaining incidents by 60% with Service Management.

- A global technology company cuts the mean time to resolve incidents by 50% with Service Analytics.

DevOps Automation
DevOps Automation consists of an industrialized, automated, standard and reusable set of assets that accelerates innovation and enables development teams to continuously and automatically deploy releases at higher quality.

Testing and Quality Assurance (QA)
A mature and agile DevOps approach cannot exist without automated testing and QA, further helping to ensure the continuous delivery of quality software. The platform enables one-click provisioning of virtualized test environments and test data solutions, and sets up automated workflows to ensure high-quality code at check-in.

Systems Monitoring
A quick response can make all the difference in application performance. Proactive monitoring is crucial to boosting reliability, increasing uptime and reducing both degradation and the frequency and duration of incidents. The platform includes system monitoring tools for both the environment and its applications, to ensure that IT can deliver these benefits.

Service Management
The Service Management component of the platform is fully integrated with the platform's other components, to help respond to issues faster, resolving them before they can become larger problems.

Real-time service management reporting generates intuitive dashboards that also drive fast responses.

Service Analytics
Service Analytics tools include Azure Machine Learning and Cognitive Services such as natural-language recognition. They can help maximize the automated and predictive capabilities of Service Management while reducing support costs.

How to get started

Are you ready for modern software engineering? To find out, schedule an Avanade Modern Engineering Assessment.

Our strategists engage with your key IT organization stakeholders using interviews, surveys and workshops to assess your process maturity and deliver improvement recommendations, an implementation roadmap and execution rollout plan. We identify ways for you to achieve higher agility, automation and innovation at speed.

To find out more about Avanade's experience with modern software engineering and the Avanade Modern Engineering Platform, please visit https://www.avanade.com/en/technologies/ modern-software-engineering and https://www.avanade.com/en/technologies/agile

About Avanade
Avanade is the leading provider of innovative digital and cloud-enabling services, business solutions and design-led experiences, delivered through the power of people and the Microsoft ecosystem. Majority owned by Accenture, Avanade was founded in 2000 by Accenture LLP and Microsoft Corporation and has 30,000 professionals in 24 countries. Visit us at www.avanade.com

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