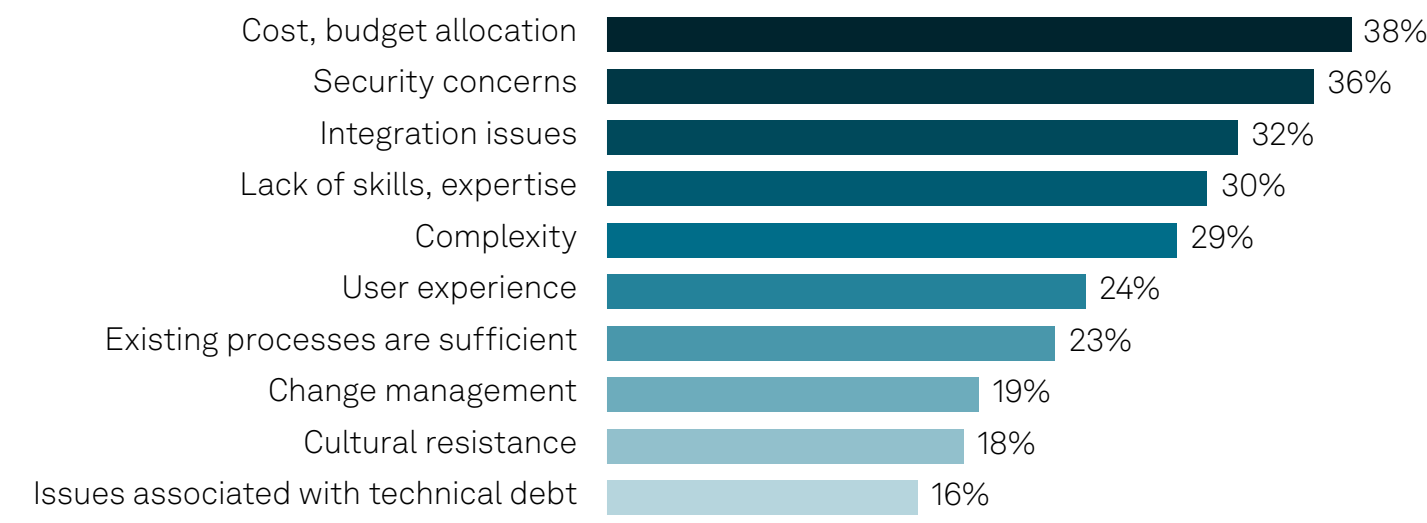


The promise of platform engineering:

Overcoming hurdles and preparing for what's next

Platform engineering holds the promise of speed, efficiency, innovation and business benefits, but not before significant hurdles are overcome

Common challenges encountered or expected in adopting platform engineering



Q. What challenges, if any, do you expect (or you have encountered) in adopting platform engineering? (Select top 3).
Base: Respondents whose organizations have platform engineering initiatives (n=261).
Source: 451 Research's Voice of the Enterprise: Cloud Native, Platform Engineering 2024.

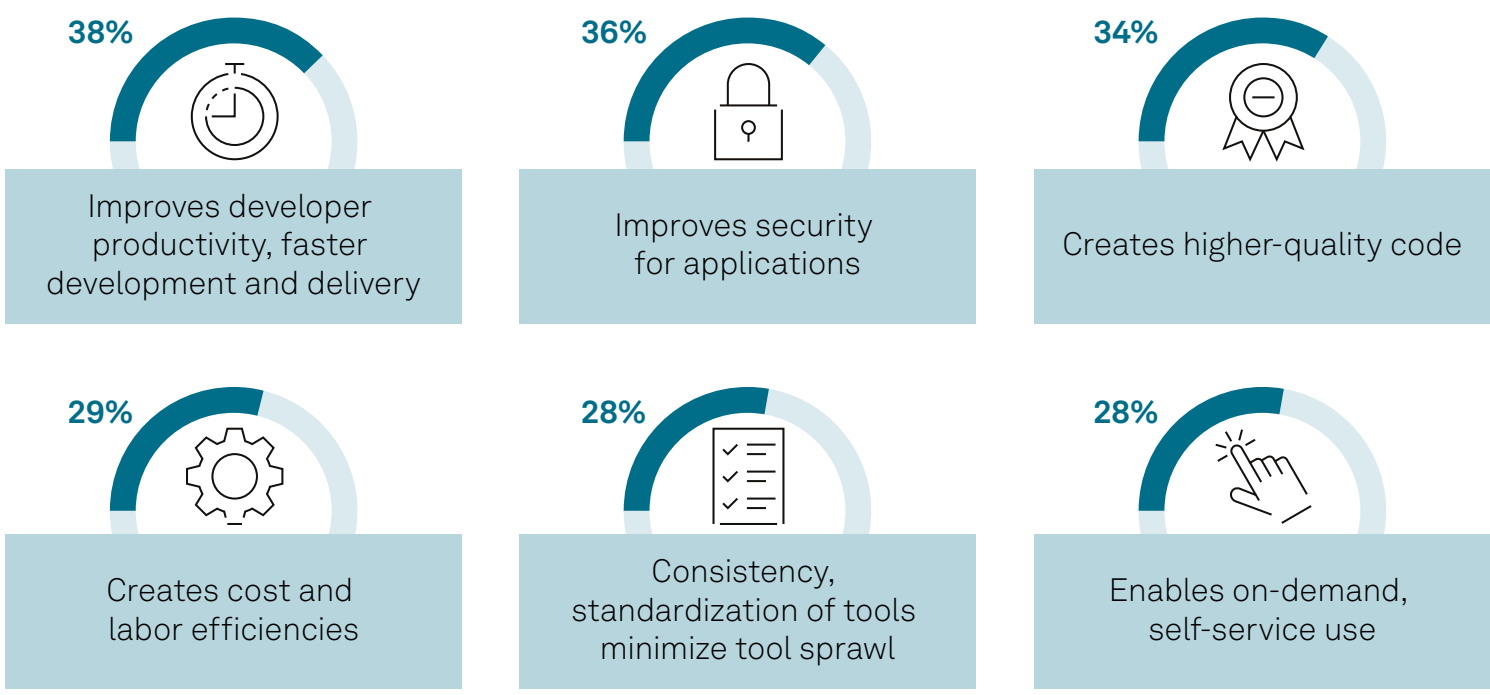


Consistent, centralized platforms with *built-in governance and security* functions can help enterprise teams effectively address these key platform engineering challenges



With challenges addressed, platform engineering promises better developer productivity, speed, security and quality

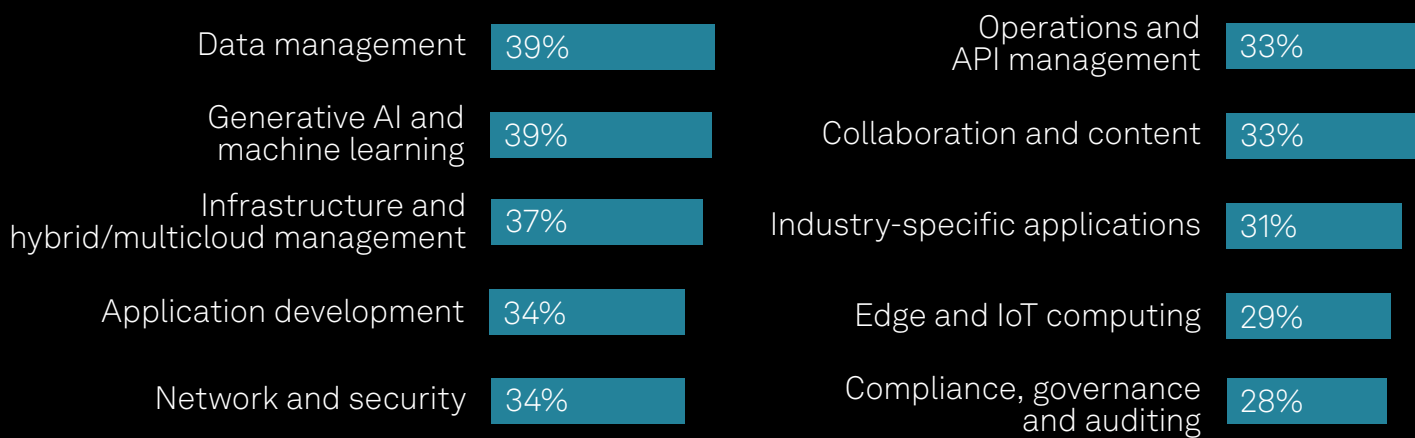
Primary benefits of platform engineering



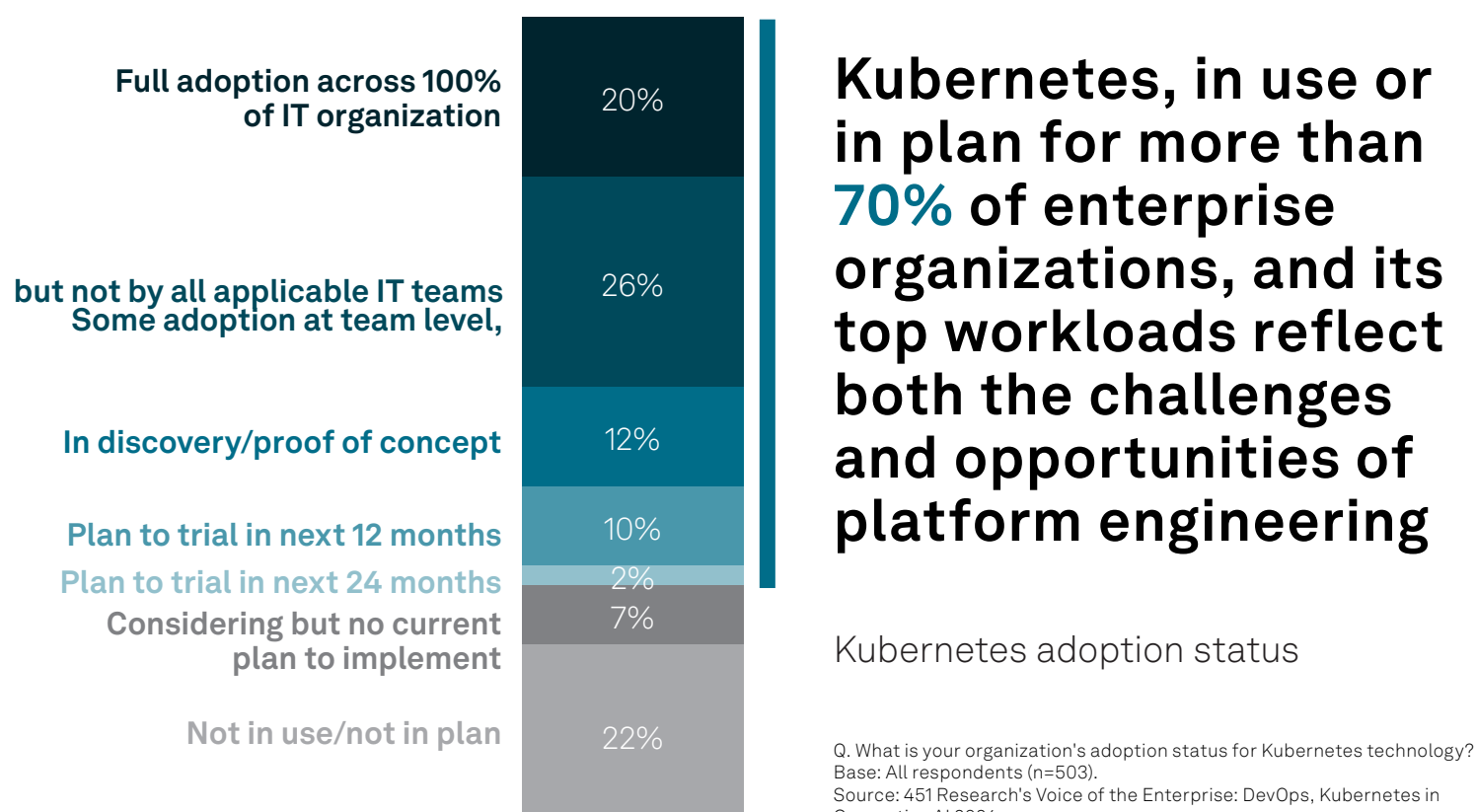
Q. What do you see as the primary benefits of platform engineering? (Select top 3).
Base: Respondents whose organizations have platform engineering initiatives (n=261).
Source: 451 Research's Voice of the Enterprise: Cloud Native, Platform Engineering 2024.

Kubernetes and its critical workloads represent the cutting edge of platform engineering

Areas where Kubernetes is used as a workload platform




Q. In which of the following areas does your organization currently use Kubernetes as a workloads platform? Please select all that apply.
Base: Organizations where Kubernetes is in use or POC (n=290).
Source: 451 Research's Voice of the Enterprise: DevOps, Kubernetes in Generative AI 2024.



Key takeaway:

Platform engineering is a strategic imperative to unlock superior developer productivity and quality while mitigating high-level challenges like cost and security.



The heavy reliance on Kubernetes for new, modern workloads like generative AI shows enterprises are adopting centralized platforms to overcome operational hurdles and best position themselves as technology evolves.



VMware Cloud Foundation delivers a single platform to run virtual machines alongside containers and Kubernetes clusters using a unified declarative API. By simplifying deployment, consolidating core infrastructure components, and enabling secure operations, VMware Cloud Foundation reduces complexity and total cost of ownership while delivering consistent, high-performance outcomes across environments. Modernize with confidence on the platform engineered for today's workloads and tomorrow's innovations. For more information about vSphere Kubernetes Service, please visit the [product page](#).