



AI-driven architectural modernization

Modernize the architecture of Java and .NET applications up to **15x faster**

Companies are sitting on a growing backlog of complex, monolithic applications that are difficult, risky, and expensive to refactor.

Yet most modernization efforts focus on code upgrades or lift-and-shift migrations without addressing the root of the problem: **the application’s architecture.**

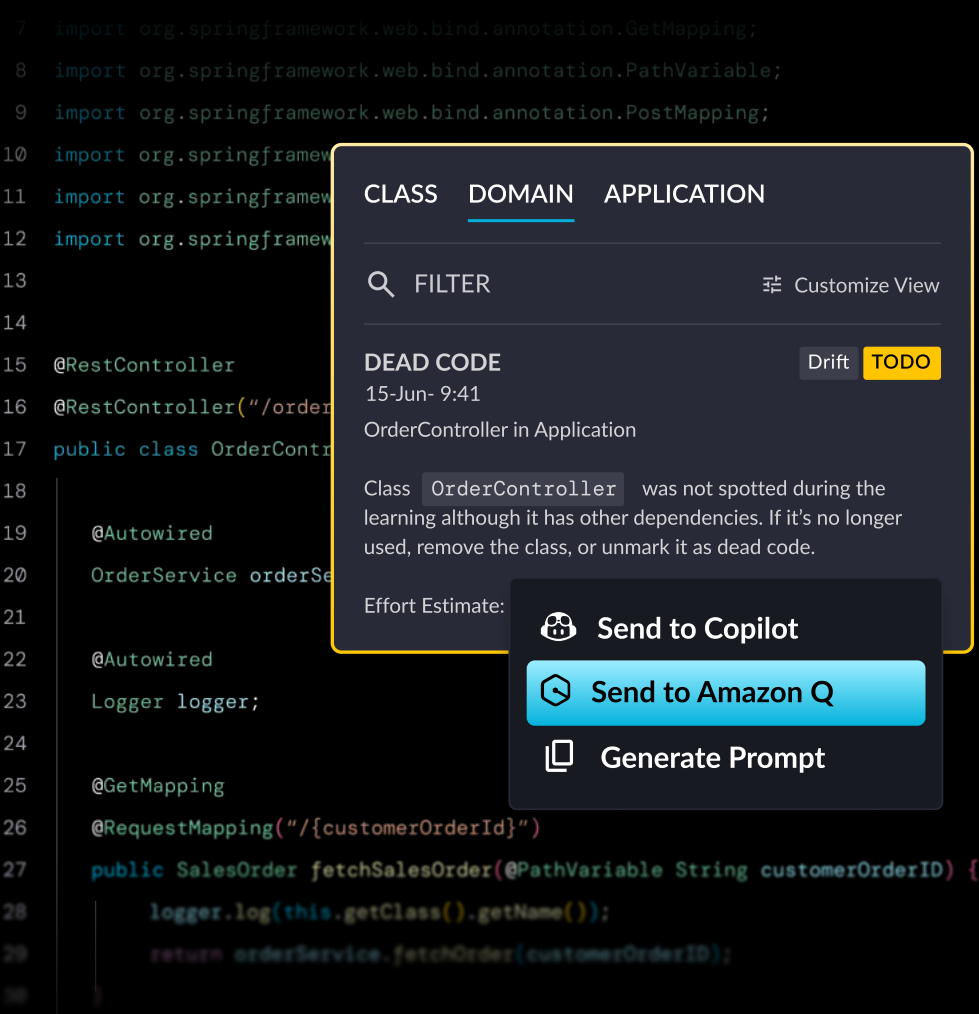
Faster modernization starts with the architecture

vFunction delivers **AI-powered architectural modernization** that works seamlessly with GenAI code assistants like **Amazon Q Developer** and **GitHub Copilot** to transform Java and .NET monoliths into modular, scalable, microservices-based applications —up to **15x faster** than traditional methods.

How vFunction works

While other tools generate code for greenfield projects, **vFunction cuts through the complexity of brownfield applications.** To continuously modernize applications, vFunction:

- Combines static and dynamic analysis with data science to uncover architectural technical debt
- Provides relevant context to code assistants for automated refactoring
- Breaks monoliths into scalable cloud-ready services for faster transformation.



Key benefits

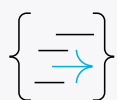
- ✓ **Accelerates modernization**
Refactors complex Java and .NET applications into modular, cloud-ready services
- ✓ **Visualizes architecture and enables DDD**
Uses patented static and dynamic analysis, combined with data science to enable domain driven design and uncover architectural technical debt.
- ✓ **Guides and automates refactoring**
Architectural intelligence powers GenAI workflows that help code assistants fix technical debt and break down monoliths into modular components.
- ✓ **Streamlines service transformation**
Extracts services with speed and accuracy, generating APIs, and supporting framework upgrades made for the cloud.
- ✓ **Enables continuous modernization**
Integrates with your SDLC to detect, monitor, and remediate architectural drift—keeping systems resilient, scalable, and aligned release after release.

Fully funded application modernization

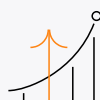
Modernizing complex applications doesn't have to be a budget blocker. vFunction partners with leading cloud providers through a range of programs—including Proof of Concept (POC) funding and modernization acceleration programs to reduce risk and accelerate cloud native adoption.

Through programs like the [AWS ISV Workload Migration Program](#), qualified organizations can receive fully funded vFunction licenses to jumpstart stalled migrations and transform Java and .NET monoliths into modular services on cloud platforms like AWS Lambda, EKS, ECS with Fargate, and beyond.

vFunction also works closely with other leading cloud providers to support application modernization across a variety of environments.



Unblock stalled
migrations



Accelerate adoption of
advanced cloud services



Modernize faster with no
upfront license cost



Microsoft Azure

Google Cloud

ORACLE
Cloud Infrastructure

From complexity to innovation



“Without vFunction, we never would have been able to manually tackle the issue of circular dependencies in our monolithic system.

Martin Lavigne
R&D Lead, Trend Micro®



15x

faster full application
modernization

[Global financial leader](#)

3x

increase in release
frequency

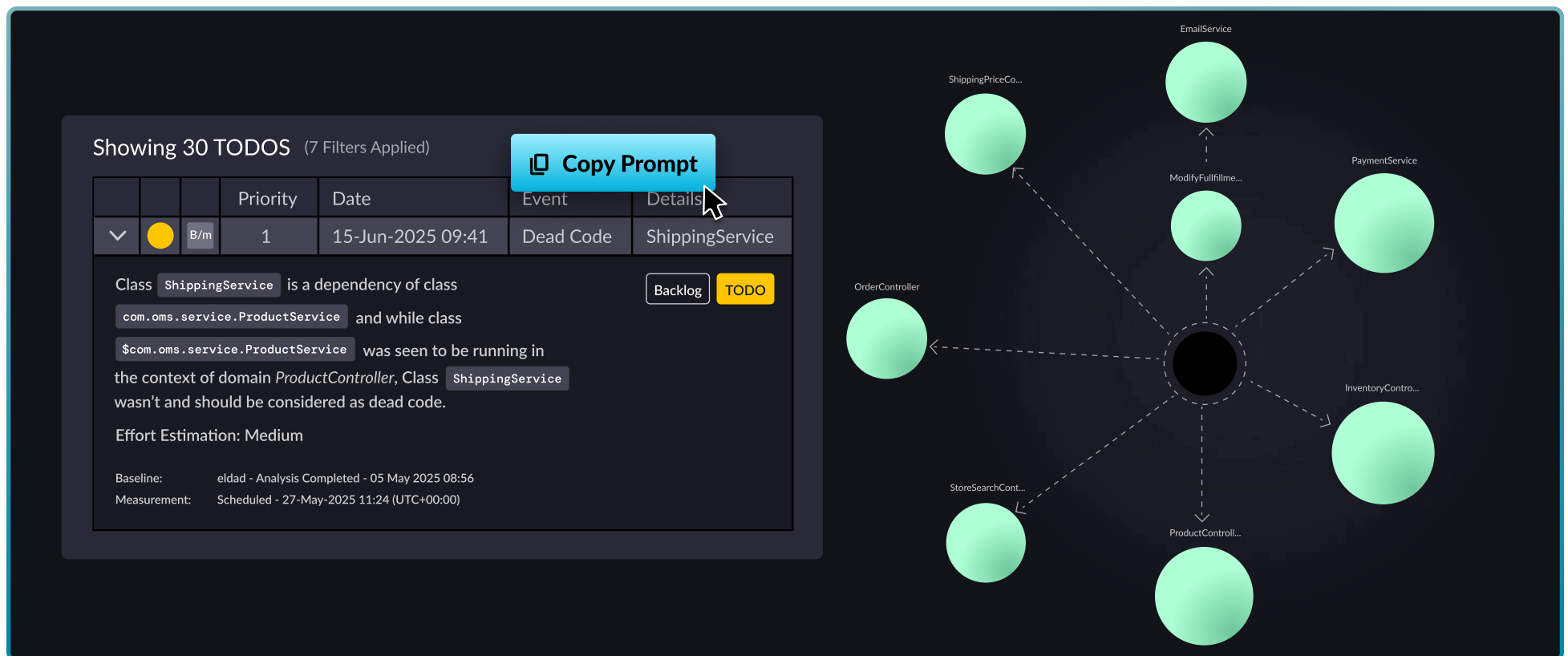
[Intesa Sanpaolo](#)

90%

decrease in
deployment time

[Trend Micro](#)





Visualize, modernize, and govern, all in one platform

vFunction not only accelerates the modernization of complex Java and .NET applications—it also ensures those modernized services stay healthy and manageable over time. By leveraging OpenTelemetry tracing and supporting a variety of languages and technology stacks, vFunction provides deep architectural insight across distributed systems. After breaking monoliths into modular components, it enables ongoing governance to prevent sprawl, enforce service boundaries, and monitor architectural drift. This end-to-end approach helps teams build scalable, resilient systems and keep them that way.

Ready to tackle complexity and scale modernization?
Visit [vFunction.com](https://vfunction.com) to get started.

Get Started

Trusted by:

INTESA  SANPAOLO

TURO

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About vFunction

vFunction is the pioneer of AI-driven architectural observability and modernization, working seamlessly with code assistants to transform Java and .NET monoliths into modular, microservices-based applications—up to 15x faster than traditional approaches. Global system integrators and top cloud providers partner with vFunction to help leading companies like Intesa Sanpaolo and Trend Micro discover their architecture and transform applications—accelerating innovation and amplifying business impact. vFunction is headquartered in Menlo Park, CA, with offices in Israel, London and Austin, TX. To learn more, visit www.vfunction.com. To learn more, visit www.vfunction.com.

