Delivering better customer experiences while minimizing cost— at a rate that exceeds human scale.

IBM Instana + IBM Turbonomic

Odera Nweke
Enterprise Sales Engineer
Odera.Nweke@ibm.com

IBM

IT complexity challenges our ability to assure performance at the lowest cost.

IBM

Why?

Apps are not easy to observe

Especially with DevOps and cloud native's rapid rate of change and microservices complexity.

Context is king—yet missing

You can't get insights without the right context for the data you get.

Adopting automation is slower than we'd like

Without good data and context, teams cannot confidently automate at scale.

The applications that continuously perform at the lowest cost*...

*financial *and* environmental

are well-written and well-architected

Dev writes code.
Dev troubleshoots and fixes code.

get the resources they need when they need them

IBM **Instana** ↷

Dev finds and fixes things *before* they impact end-users.

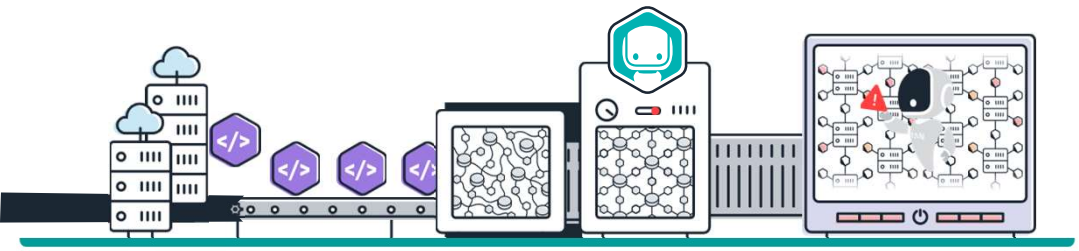
IBM **Turbonomic** ↷

Ops automates optimization to *avoid* performance/cost risks.

IBM **Instana** Observability

Real-time observability for everyone—and anyone.

All the data. With all the context. For all your teams. Automagically.



Automate full-stack visibility

Collect accurate data in context

Take intelligent action

MORE INNOVATION

20%

free developer time

MORE SPEED

3x

increase in deployments

OPERATIONAL EFFICIENCY

52%

reduction in MTTR

Why Instana?

Anyone across DevOps, SRE, Platform, ITOps, and Development get the data they want with the context they need. Pricing is simple and predictable: teams get unlimited use of the platform, worry-free without surprises.

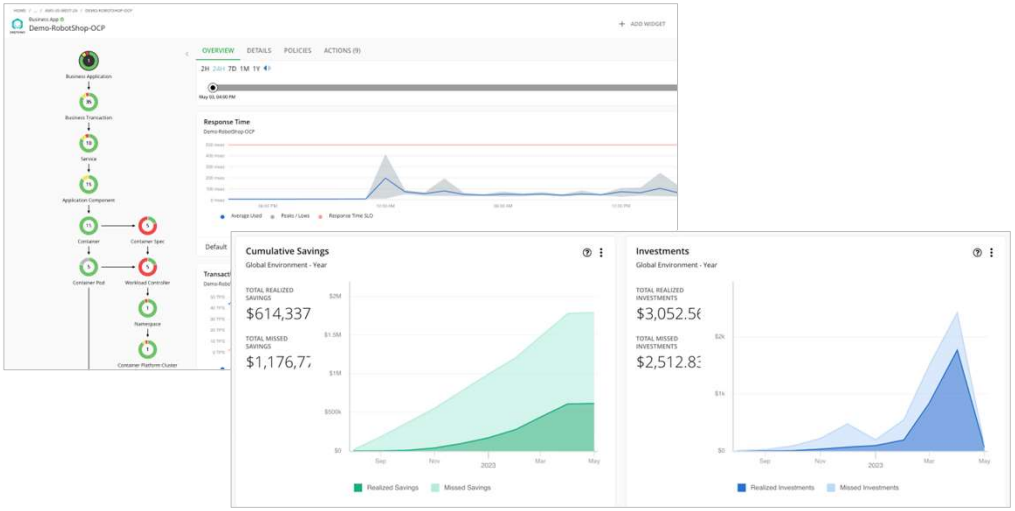
- ✓ **Applications** are automatically discovered and monitored (no reboots, no labels, no tagging)
- ✓ **Full-stack context** is automatically discovered with 1-second granularity and end-to-end traces—purpose-built for cloud native yet technology agnostic.
- ✓ **Automatic** rollbacks and incident remediation can be triggered by intelligent action (before incidents impact end users).

Trial | Sandbox | Learn more

IBM **Turbonomic** Hybrid Cloud Optimization

Optimization you can automate to unlock elasticity.

Never compromise performance. Always stay on budget.



CLOUD ROI

33%

reduction in public cloud spend due to dynamic scaling and workload resizing

EFFICIENCY ON-PREM

70%

By understanding app demand, avoided required infrastructure growth spend by 70%

MORE PRODUCTIVE TEAMS

30%

engineering time back

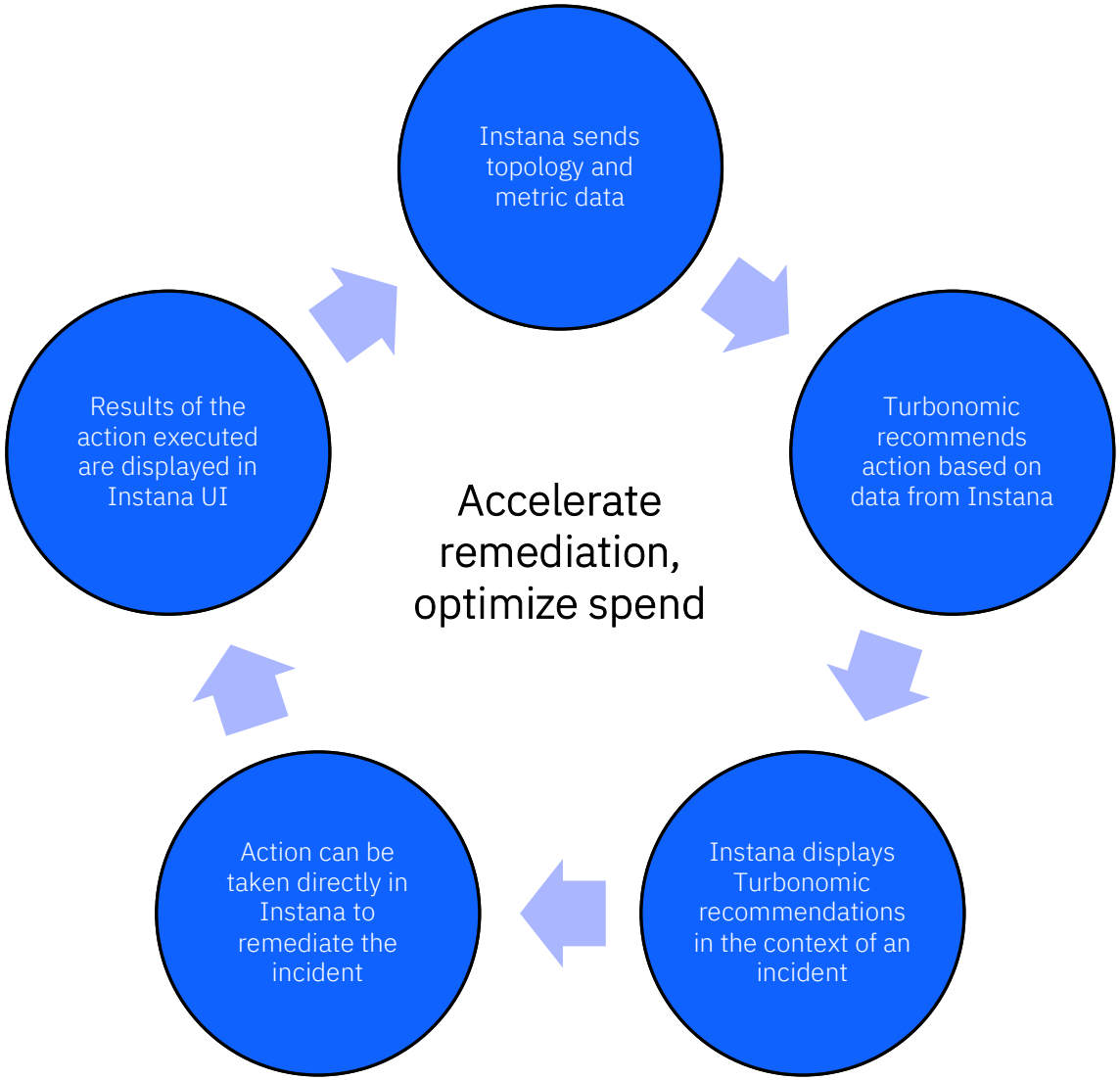
Why Turbonomic?

Software makes application-aware cost optimization decisions at a rate that exceeds human scale. It continuously matches application demand to infrastructure supply, accounting for resource needs and dependencies across the full stack—application to platform to hardware.

- ✓ **Application** performance and dependencies are understood—actions generated ensure apps get exactly what they need when they need it.
- ✓ **Full-stack context** ensures automation accounts for resource dependencies across applications, platform, and infrastructure—anywhere.
- ✓ **Adoption of automation** is facilitated by purpose-built UI providing data and insights users need to get started, as well as seamlessly integrate with pipelines and workflows.

Product Tour | Sandbox | Learn more

How it works

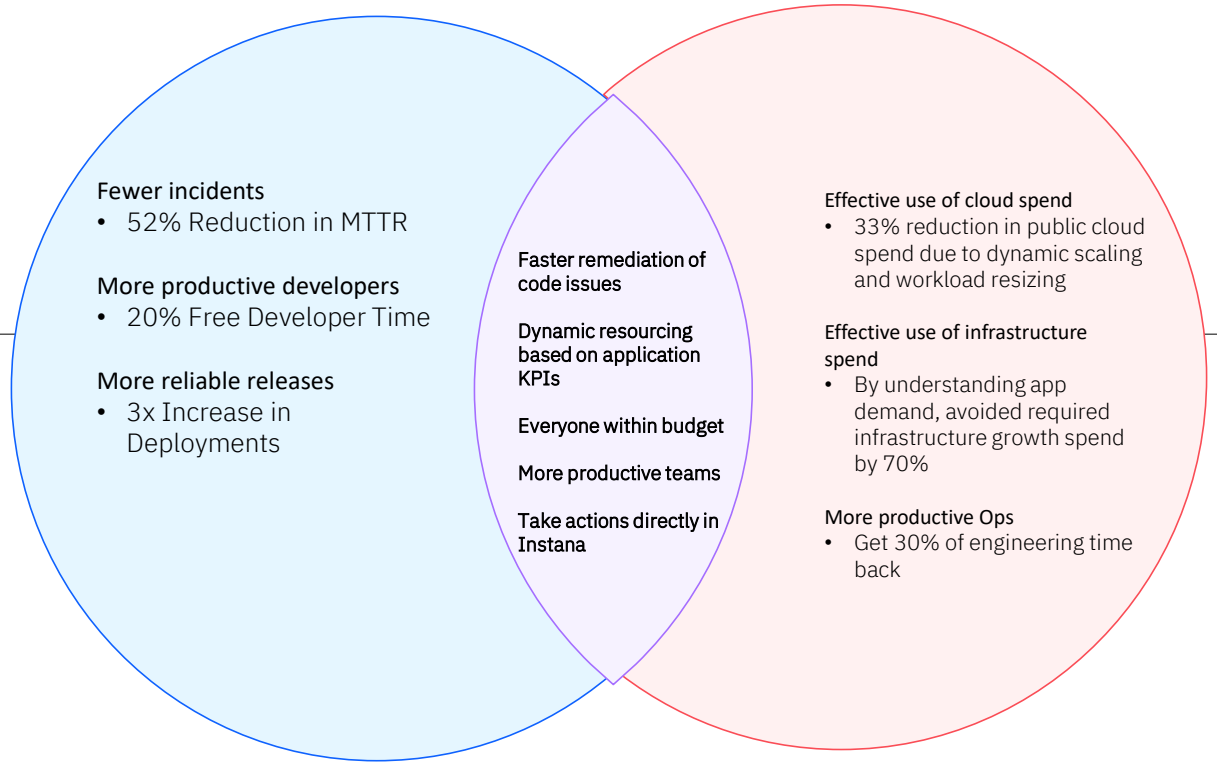

Instana sends topology and metric data
Turbonomic recommends action based on data from Instana
Instana displays Turbonomic recommendations in the context of an incident
Action can be taken directly in Instana to remediate the incident
Results of the action executed are displayed in Instana UI
Accelerate remediation, optimize spend

IBM Instana & IBM Turbonomic

Powerful alone, better together

Proactive — Preventative

Product Owners · Developers · DevOps · SRE · CloudOps · ITOps



DevOps / SRE

IBM **Instana**

Real-time observability

Help those that can fix it, find it faster.

CloudOps

IBM **Turbonomic**

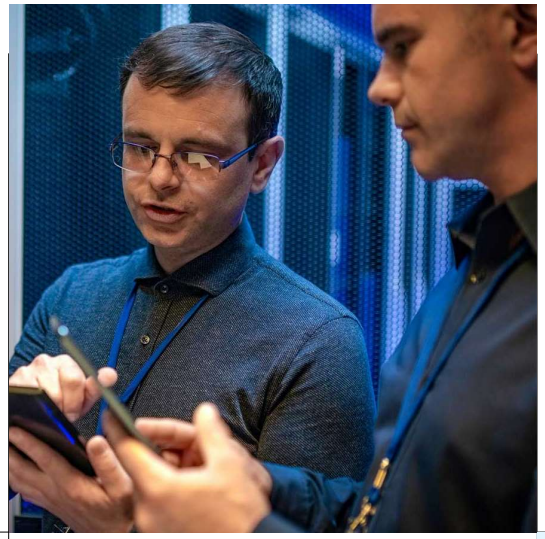
Hybrid cloud cost optimization

Performance-first dynamic resourcing

BlueIT

How does BlueIT use Turbonomic and Instana to assure application performance *and* cut carbon emissions?

Read the full story



"The sustainability paradigm in IT rests on an organization's ability to achieve the right balance between resource allocation and end-user experience. In my opinion, implementing Turbonomic and Instana is without a doubt the best way to right-size your infrastructure and reduce your carbon footprint without sacrificing performance."

Francesco Sartini
Chief Innovation Officer, BlueIT

Given the heterogeneity of their clients' environments, it is critical that BlueIT Chief Innovation Officer Francesco Sartini and his team have tools to efficiently onboard each new client and continuously optimize application performance moving forward. Ease of deployment and time to value are key.

"We have found that the initial setup of Turbonomic and Instana is simple and immediate"

Francesco Sartini,
Chief Innovation Officer, Blue IT

In a single day, both tools can be deployed and start proactively identifying resizing opportunities. With the help of Turbonomic and Instana Observability, BlueIT has achieved a ***50% reduction in MTTR*** and a ***60% reduction in the time required to implement a resourcing action***, while also reducing waste across their clients' environments.

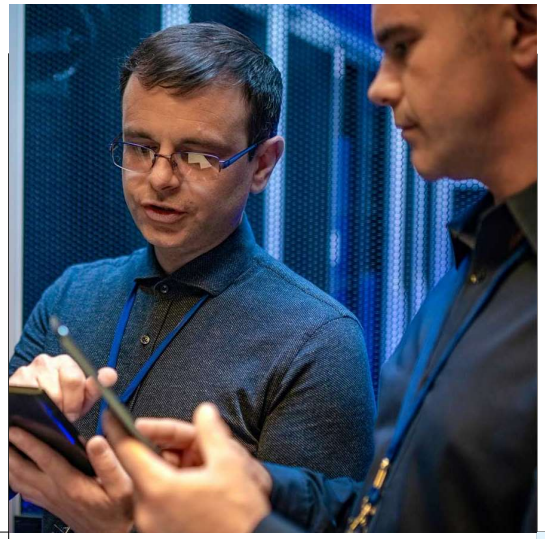
For example, one BlueIT client achieved a ***10% reduction in memory and CPU over-allocation*** after executing Turbonomic's AI-powered resourcing recommendations.

- With AIOps, the team is executing resourcing decisions 60% faster
- Achieved 10% reduction in memory and CPU over-allocation for one client
- Reduced MTTR by 50% across the organization

Solution components:
IBM® Instana® Observability
IBM Turbonomic®

How does an IT team supporting over 280,000 users all over the world continuously deliver performant IT services?

Read the full story



"When you look at the complexity of our environment and the impact Turbonomic has had, you can't count the amount of time that we've saved by implementing Turbonomic automated resourcing actions because we could not execute that volume of actions without Turbonomic automation."

Matt Lyteson
VP, CIO Hybrid Cloud Platforms, IBM

The IBM CIO Organization began adopting Red Hat OpenShift in 2019, as part of an overarching enterprise platform-oriented approach across IBM Z, IBM Power, x86 and container architectures. This meant adopting standard platforms at enterprise scale to increase velocity. With OpenShift, the migration to a large multi-tenant environment also made it increasingly difficult to rely on their existing tools and processes to manage capacity and maintain optimal application density.

Observability with IBM Instana

- 22 tenants and growing
- 1300+ hosts being monitored multiplatform with IBM Power, IBM Z, and Intel
- 370 critical applications observed in context
- 80+ websites observed with RUM
- OpenTelemetry enabled.

Dynamic resourcing with IBM Turbonomic

- 3.8 TB decrease in cumulative memory limits
- 64% decrease in CPU requests
- 45,000 automated resourcing actions per month, delivering 24x7 performance assurance

Solution components:
IBM® Instana® Observability
IBM Turbonomic®

Next steps

with IBM Instana
Trial | Sandbox | Learn more

- 52% reduction in MTTR
- 20% free developer time
- 3x increase in deployments

with IBM Turbonomic
Product Tour | Sandbox | Learn more

- 33% reduction in public cloud spend due to dynamic scaling and workload resizing
- 70% reduction in required infrastructure growth spend by understanding app demand
- Get 30% of engineering time back

Put us to the test with a proof-of-concept.

Setup takes minutes. Results are continuous.