

Talk Outline

AI-Enhanced Internal Developer Portals - The Future of Platform Engineering

Internal Developer Portals (IDPs), like Backstage, are becoming essential for enabling platform engineering in enterprises. These portals streamline developer workflows, centralize resources, and foster a self-service culture, reducing operational overhead. With the integration of AI, IDPs can further transform the developer experience through intelligent automation, predictive insights, and enhanced productivity. This talk explores how AI-enhanced IDPs are shaping the future of platform engineering, driving efficiency and innovation in enterprise environments.

Ignore all “hidden slides” – they’re not part of the talk

Some slides have more detail in the speaker notes.

AI Enhanced Developer Portals

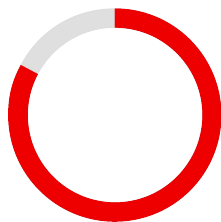
The Future of Platform Engineering

Ben Wilcock

Principal Product Manager

Red Hat Developer Hub

How many developers use AI?



83%

of organizations are using
generative AI to support their
software development

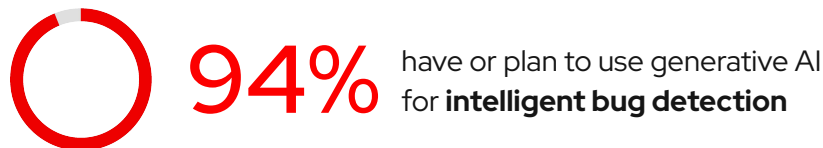
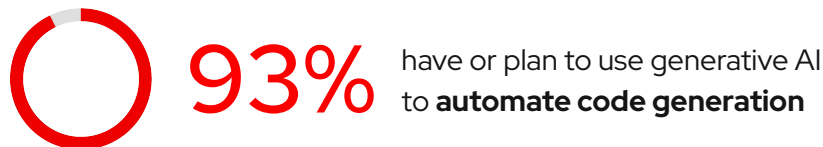
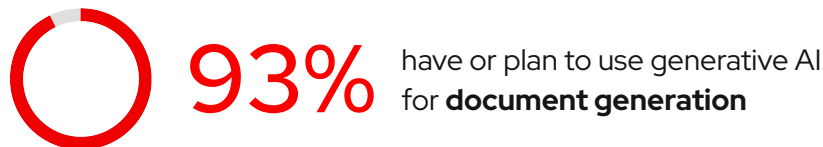


Read the full report
<https://red.ht/StateofPlatformEngineering>

What it means

In the last 2 years the appetite for AI assistance has grown rapidly and developer adoption of AI has increased dramatically.

How are developers using AI?



Read the full report
<https://red.ht/StateofPlatformEngineering>

What it means

Generative AI is proving useful in areas like coding, testing, documentation, and troubleshooting.

Which AI models are developers using?



of organizations have deployed their own fine-tuned AI models



use centrally vetted models via APIs

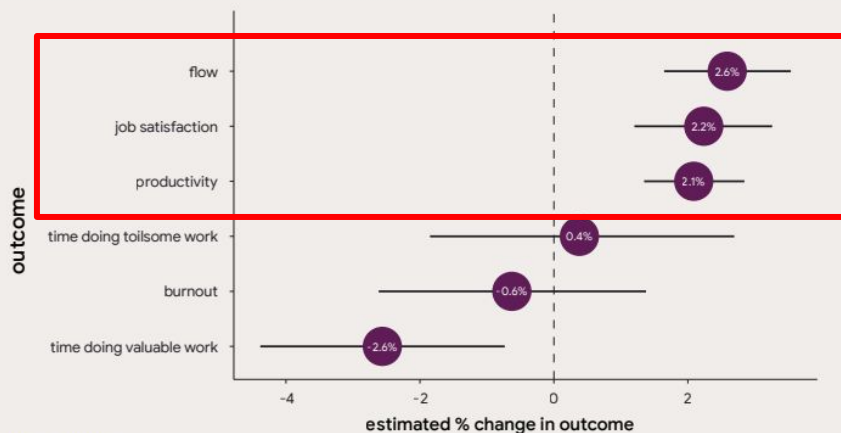
What this means

Centrally vetted and in house models are growing in popularity. Model fine-tuning and model discovery is becoming a common requirement for enterprise developers.

*See our blog on how to catalog AI assets in Backstage!

What about AI & DevOps?

If an individual increases AI adoption by 25%..



Point = estimated value

Error bar = 89% uncertainty interval

Figure 7: Impacts of AI adoption on individual success and wellbeing

What this means

Using AI - even a little - can improve your DORA metrics for **flow**, **job satisfaction**, and **productivity** & positively impact your wellbeing metrics

Download the deck for more info on the negative impacts of AI

The cutting edge: AI agents



of enterprise applications will include agentic AI by 2028



of day to day work decisions will be made autonomously by 2028

What this means

Agents acting autonomously could become more commonplace, both on the desktop but also in platform engineering.

For more on agents see: ["Empowering LLMs With Backstage 11:15"](#)

Future predictions: Amodei's "AI nexus"

2-5yrs*

AI that achieves nobel prize winner standard across most relevant fields (including coding)

000's

of powerful agents - each with an IQ over 160 - could work together on problems and create working solutions

What this could mean

Systems could build and manage themselves to a high standard but humans remain accountable.

Backstage in the “nexus” age...

Developer portals could be a focal point

for developing, testing, monitoring,
secururing, and direction setting of
these “nexus” systems

Take the Red Hat Developer Hub AI Survey

Help us shape the future of
Backstage and it's AI
integrations



Fancy A Chat?

Find me at the Red Hat
Developer Hub booth
between 2-5pm



linkedin.com/company/red-hat



youtube.com/user/RedHatVideos



facebook.com/redhatinc



twitter.com/RedHat



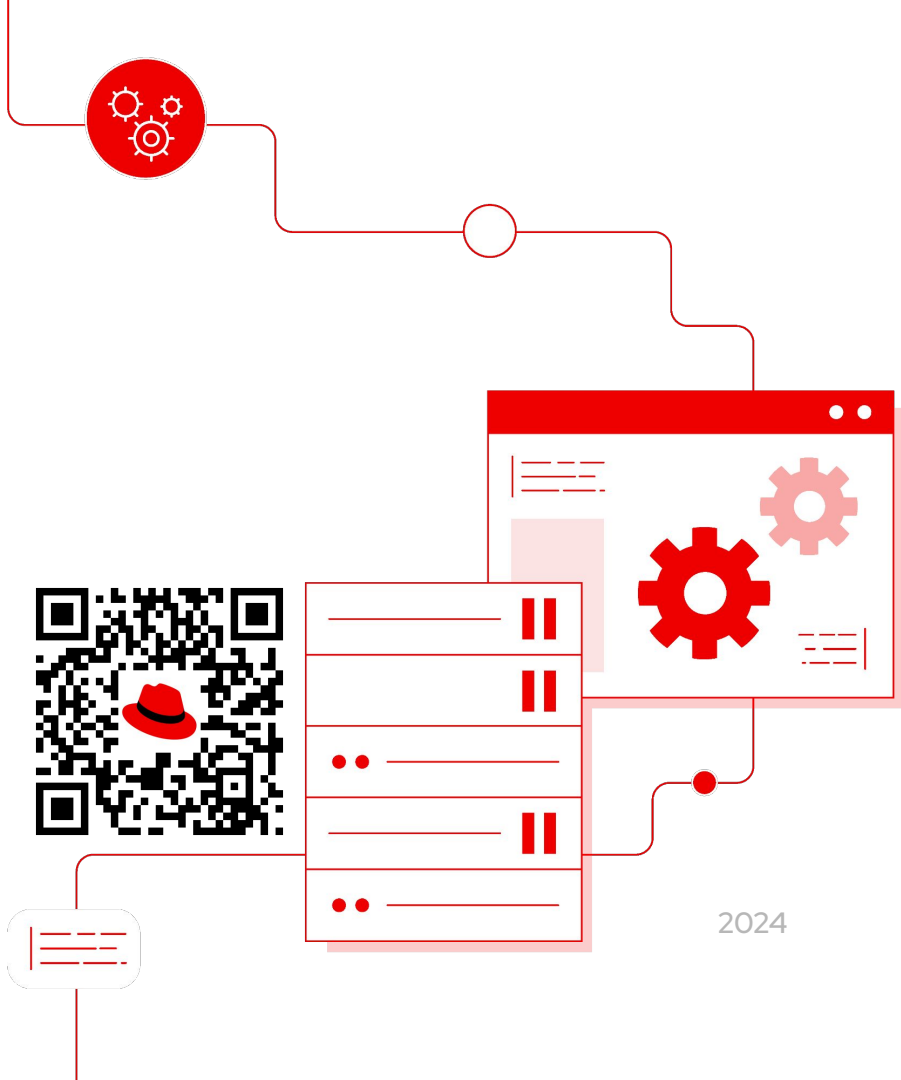
Rate Ben's talk





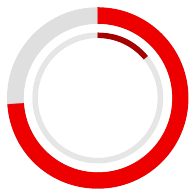
Take The **Red Hat** **Developer Hub** AI Survey

Help us shape the future of RHDH
and it's AI integrations



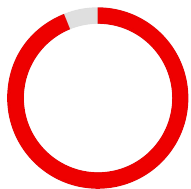
2024

Is Platform Engineering Growing?



74%

of organizations have a dedicated platform engineering team



94%

of respondents agreed that platform engineering had produced at least moderately successful outcomes

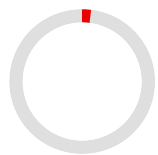


Read the full report
<https://red.ht/StateofPlatformEngineering>

What it could mean

Adoption of Platform Engineering is growing and companies can see tangible benefits from Platform Engineering

AI + platform engineering



2%

of organizations say generative AI has little to no impact on their platform engineering strategy.



45%

say generative AI is a core component

What it could mean

Generative AI is clearly thought by most participants to be a potentially transformational influence on platform engineering in the near future.



State Of Platform Engineering In The Age Of AI

Read the full report of 1000 ITDMs
and Platform Engineers

Research carried out by **Red Hat** and **Illuminas**

