



Connect

From Sprawl to

Strategic:

The Rise of Platform as a Product

Jonny Williams - Chief Digital Adviser for UK



Do **more** with **less**

Do **more** with less

revenue

secure

resilient

valuable

efficient

effective

flow

Do more with **less**

revenue	cost
secure	risk
resilient	time
valuable	people
efficient	complexity
effective	stress
flow	tickets



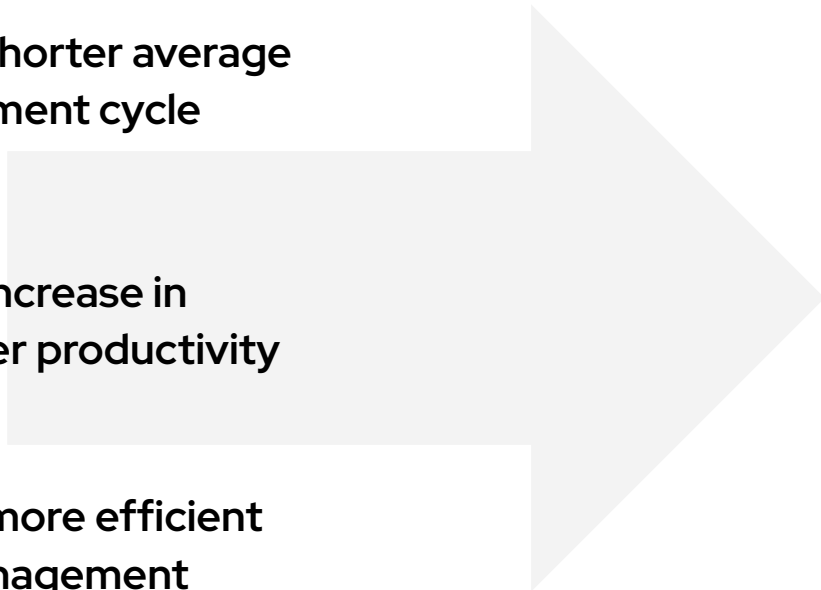
70% shorter average
development cycle



20% increase in
developer productivity



50% more efficient
infra management






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**More value
more often**
468% ROI over 3 years

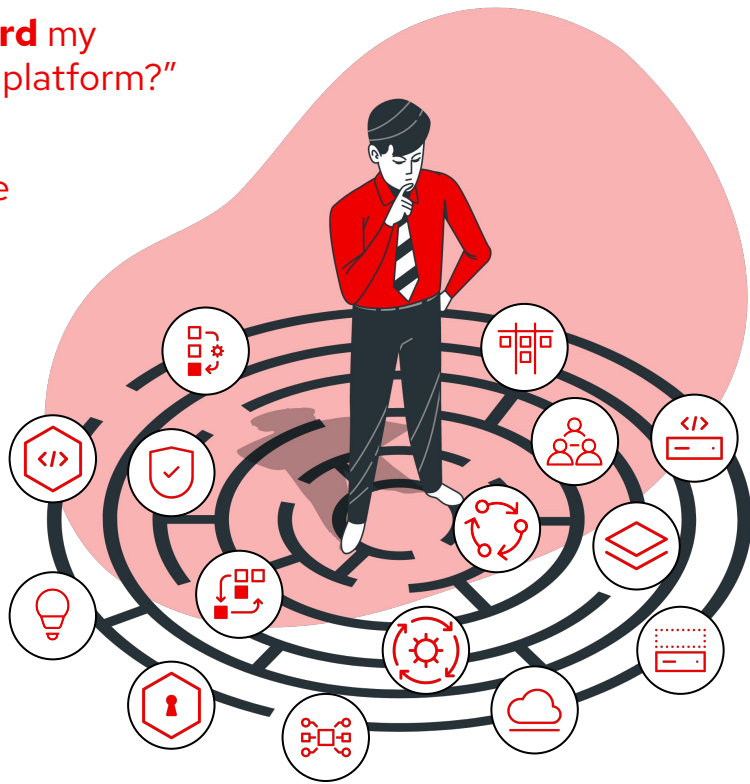


"How do I **onboard** my **application** onto this platform?"

"How do I get my code **deployed** quickly?"

"What **tools** and **processes** do I use to validate my code?"

"How do I get rapid **feedback** about my application?"

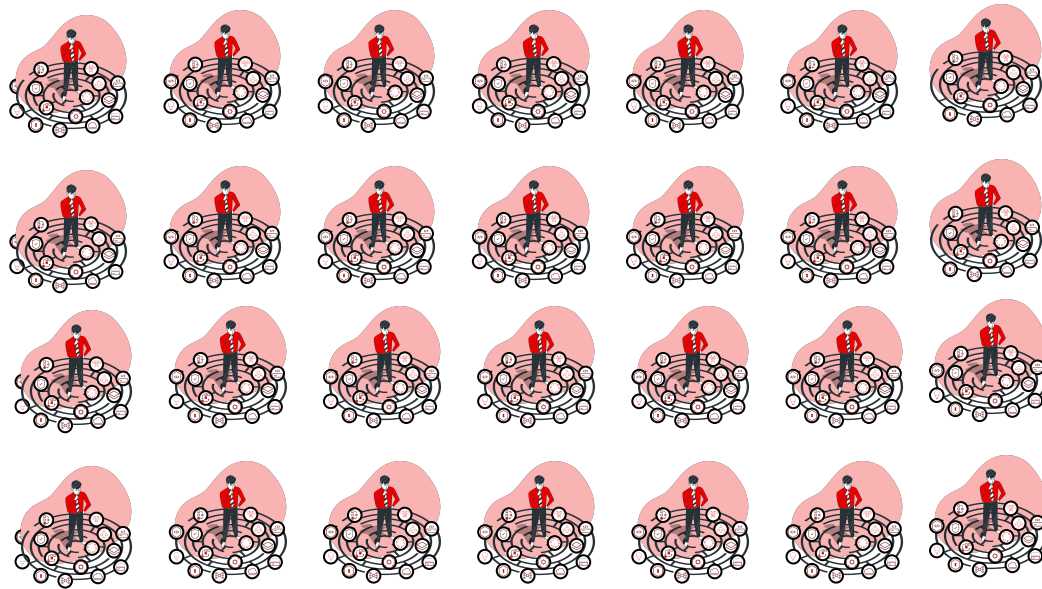
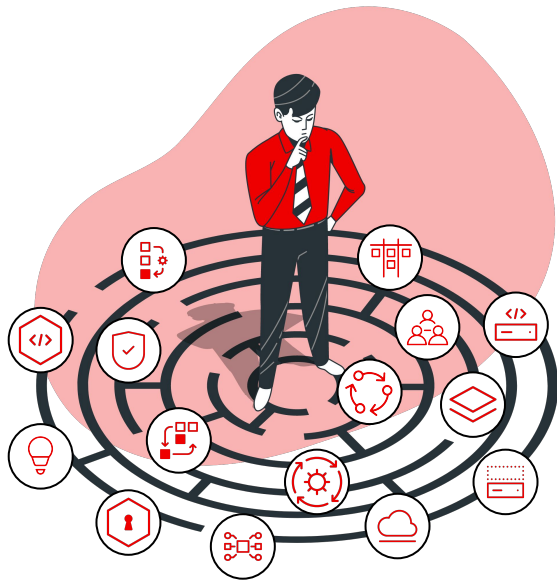


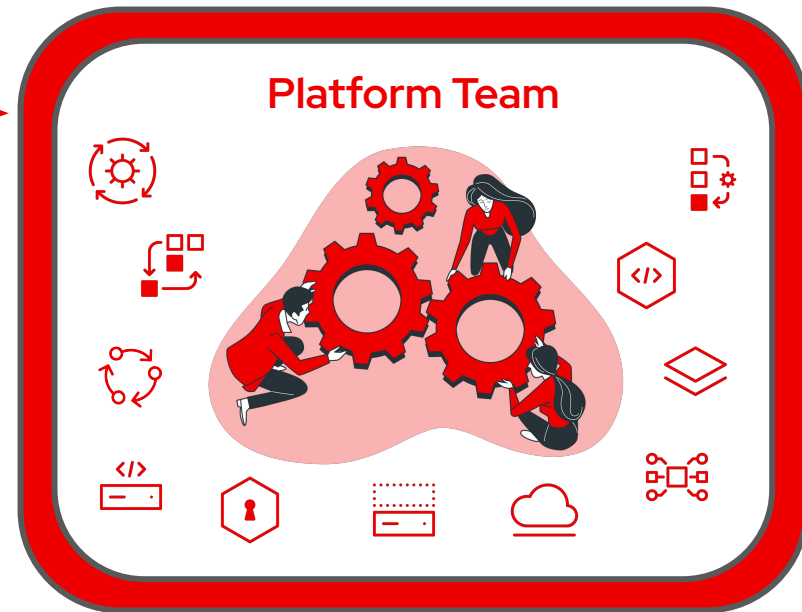
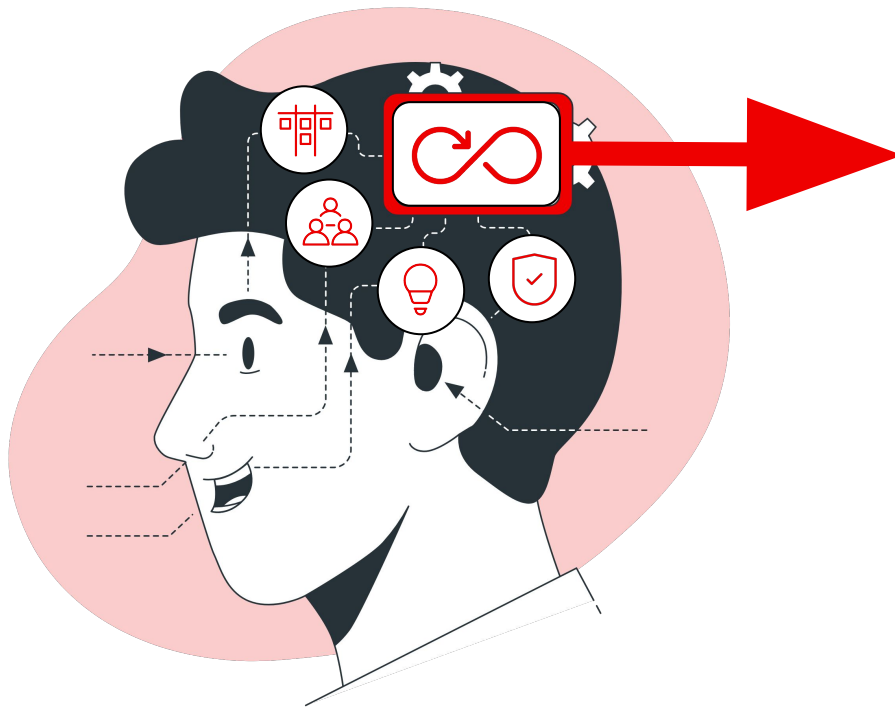
"How can I **modernise** my application?"

"How do I know my code is **secure** and **compliant**?"

"How do I know what **software libraries** are safe to use?"

"How do I request **new features** for the platform?"





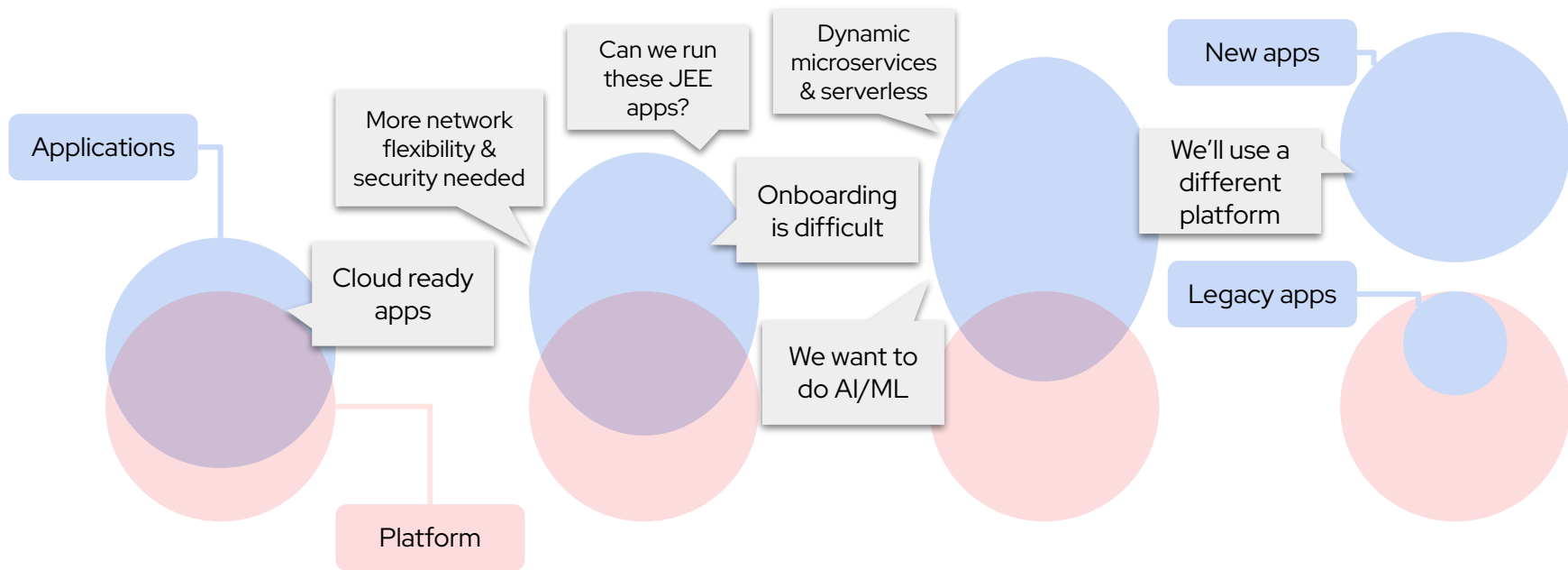
“Platform engineering is the discipline of building and operating self-service internal developer platforms for development, build, and delivery of software systems.”

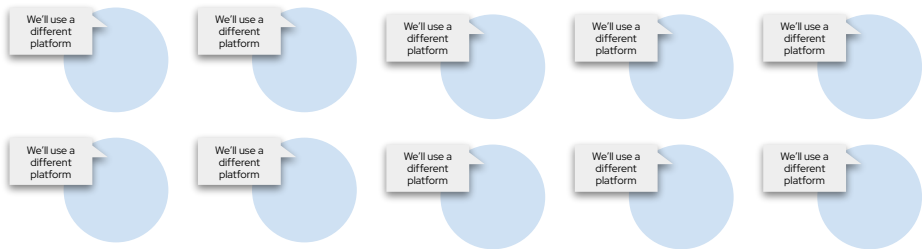
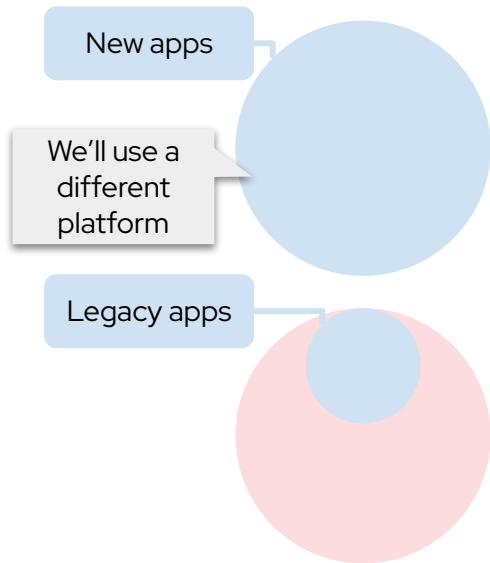
Gartner®

“Platform engineering is the discipline
of building and operating self-service
internal developer platforms for
development, build, and delivery of
software systems.”

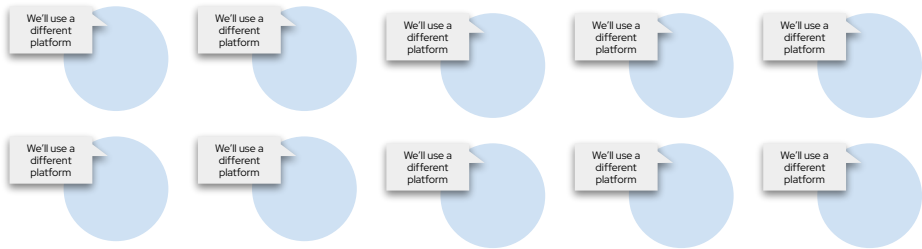
It's **not** about building a platform
It's about making value delivery **easier**

Gartner®





"We'll **all** use different platforms"



Traditional delivery



Maintaining a stable state



Requirements defined up front



Problems are remediated as a response



Requests are handled via tickets



Slow to adapt to changing needs

Platform as a Product



Continuous improvement



Continuous review of business and user needs



Problems are pre-emptively engineered out



Requests are managed automatically and on-demand



Greater agility and incremental improvement aligned with user needs

Hype Cycle for Platform Engineering, 2024



Plateau will be reached: ○ <2 yrs. ● 2-5 yrs. ● 5-10 yrs. ▲ >10 yrs. ✗ Obsolete before plateau

As of June 2024



"By 2026, 80% of software engineering organizations will establish platform teams ... A dedicated **product team** creates and maintains the engineering platform."

- Gartner



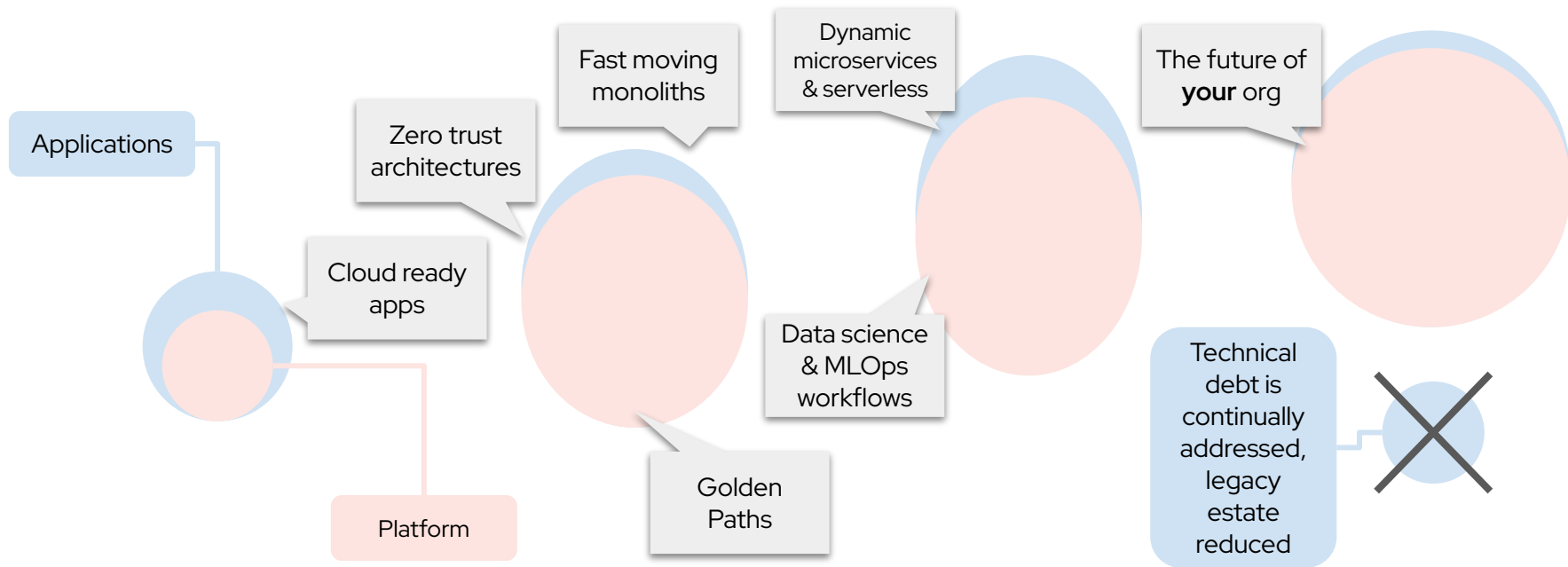
"We keep getting good feedback from teams **applying product management** to internal platforms. ... We continue to see this technique as key to building internal platforms."

- Thoughtworks




"The paradigm shifts with Internal Developer Platforms. ... The platform team should view the internal developer **platform as a product** and look at developers as their customer."

- AWS






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20% increase in
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50% more efficient
infra management



**More value
more often**
468% ROI over 3 years



Where do we go from here?



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Join us for a free workshop where we collaboratively explore your business goals to understand how you can maximise the value of Open Source technology.



2. Platform Capability Workshop

Take a deep dive into the technology that is enabling 64% of the top twenty five FTSE Global 500 companies to innovate and deliver value.



Let's chat: jonnywilliams@redhat.com



Connect

Thank you



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Platformation:

Delivering transformational
value at scale with AI Platforms

Jonny Williams
Chief Digital Adviser for UK Public Sector





Ready?

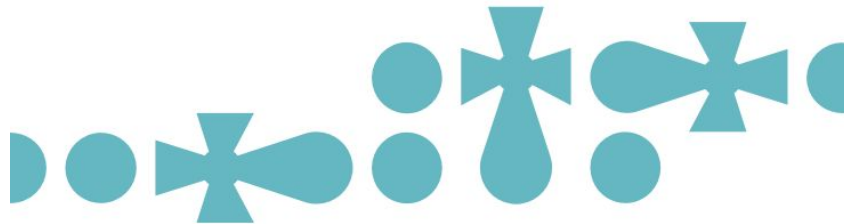
National AI Strategy

AI Action Plan

A blueprint for modern digital government

A long-term vision for digital
public services, a six-point plan
for reform, and the role of the
new digital centre of government

January 2025



“We need [to] build the **underlying infrastructure** that makes it easy for teams across the whole public sector to work together.”

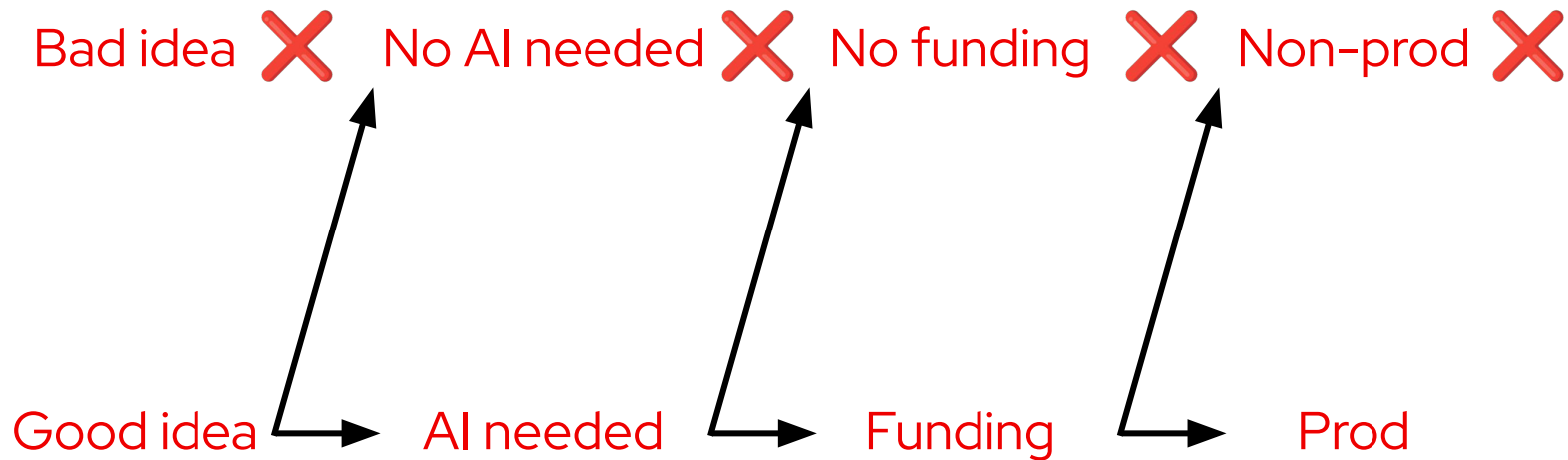
A young man with light brown hair, wearing a dark grey button-down shirt, is standing in a long, brightly lit school hallway. He is focused on drawing a complex network diagram on a large chalkboard. The diagram consists of numerous small circles (nodes) connected by thin white lines (edges), forming a branching, tree-like structure. The hallway has a polished floor that reflects the overhead fluorescent lights. In the background, two other people are walking away from the camera, and a red fire alarm pull station is visible on the wall. The overall atmosphere is one of quiet concentration and intellectual pursuit.

Think big

More than **80%** of
AI projects **fail**

A close-up shot of a man with dark hair, wearing a dark suit, screaming with his mouth wide open and eyes wide. He is looking towards the left. In the background, another man in a suit is partially visible. The scene is dimly lit, with some light sources visible in the background.

Freaking out



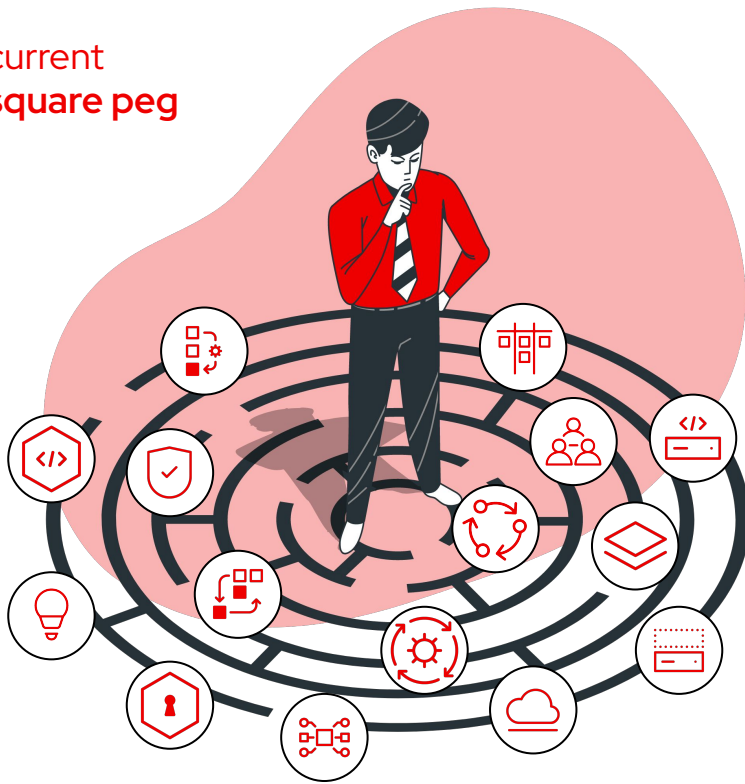
A close-up shot of a man with dark, curly hair and a brown jacket, sitting in the driver's seat of a car. He is looking directly at the camera with a serious expression. In the foreground, a chipmunk is perched on the dashboard, looking towards the camera. The background shows a blurred view of trees and a road through the car window.

This feels familiar

"Implementing AI in our current infrastructure is like fitting a **square peg** in a round hole."

"We need to leverage AI for innovation, but without **compromising** data privacy."

"Ensuring AI compliance and ethics is going to be a **regulatory minefield**."



"Adopting AI is a strategic priority, but we don't have **transparency** of our processes."

"AI isn't just expensive, it's like buying a **Rolls-Royce** to drive to the shops."

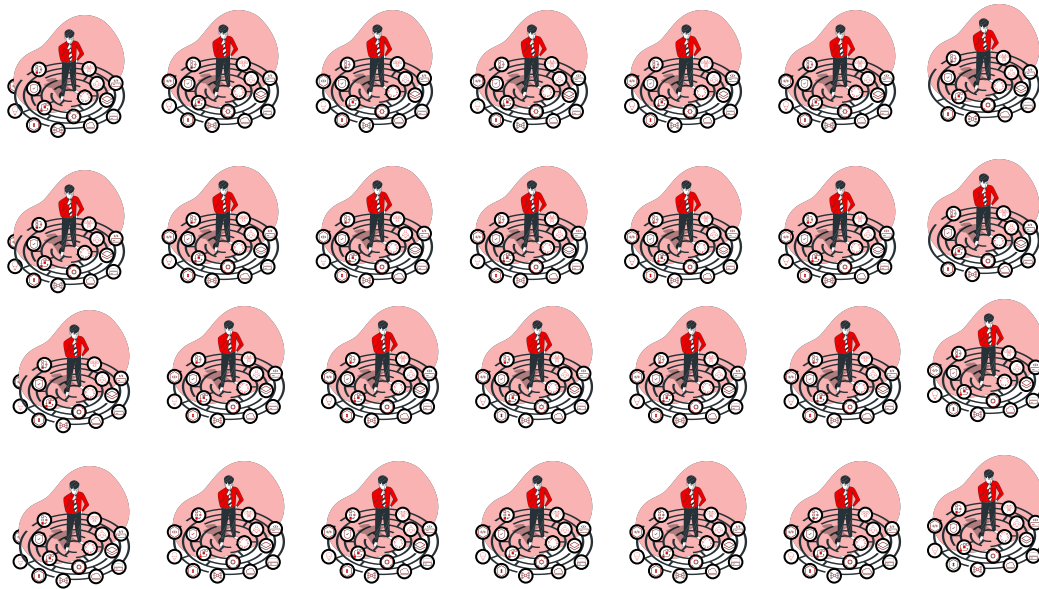
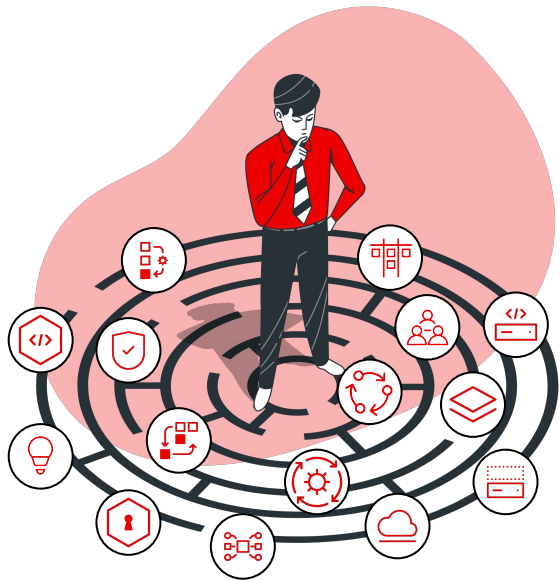
"Embracing AI is crucial, yet we need to ensure it **amplifies** human expertise, not replaces it."

Think bigger



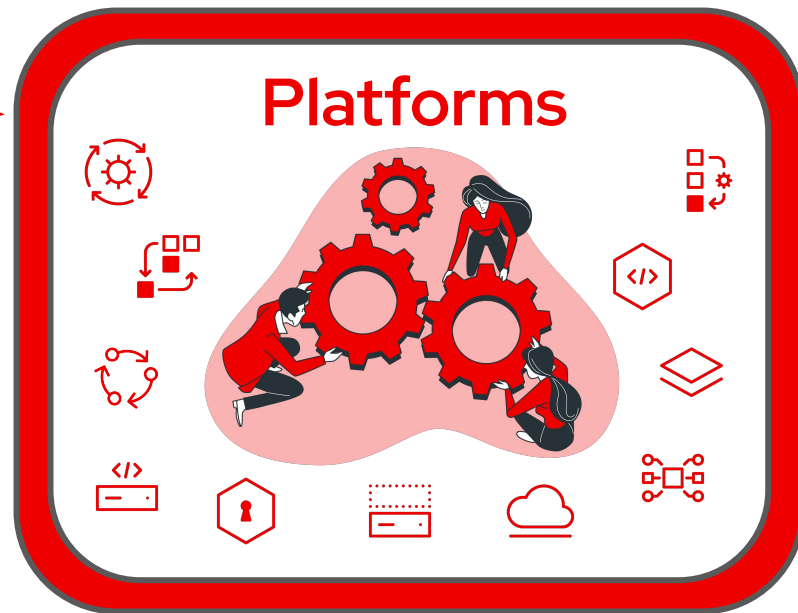
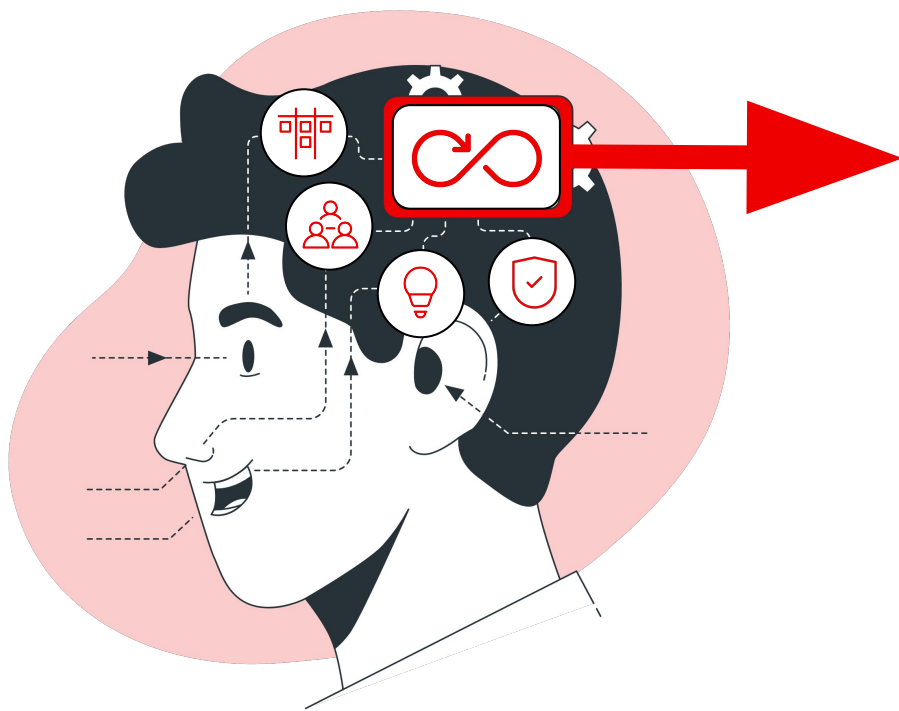
467

“There are currently 24 ministerial departments, 20 non-ministerial departments, and 423 agencies and other public bodies, for a total of **467 departments.**”



A close-up shot of two Ewok characters from the Star Wars franchise. The Ewok on the left is wearing a small, colorful hat and has its mouth open in a wide, toothy grin. The Ewok on the right is wearing white 3D glasses and is eating popcorn from a white bowl. The background is a solid red color.

Big problem



“[Our] Automation Platform allows us to **abstract a lot of complexity** away from our users and empower them with self-service, so they’re **no longer reliant** on our technical teams.”

Department for Work & Pensions

A close-up photograph of a man's face, heavily covered in snow. His hair is dark and matted with snow, and his eyes are looking directly at the camera with a serious expression. He is wearing a dark, patterned jacket, also covered in snow. The background is a blurred, snowy landscape.

Chill out

“Platform engineering is the discipline of building and operating self-service internal developer platforms for **development, build, and delivery** of software systems.”

Gartner®

It's **not** about building a platform
It's about making value delivery **easier**

A still from the movie 'Speed' showing Keanu Reeves and Megie MacKay in the front of a bus. Keanu is leaning forward, looking out the window with a concerned expression. Megie is at the steering wheel, also looking forward with a focused expression. The interior of the bus is visible, including overhead storage bins and a fire extinguisher.

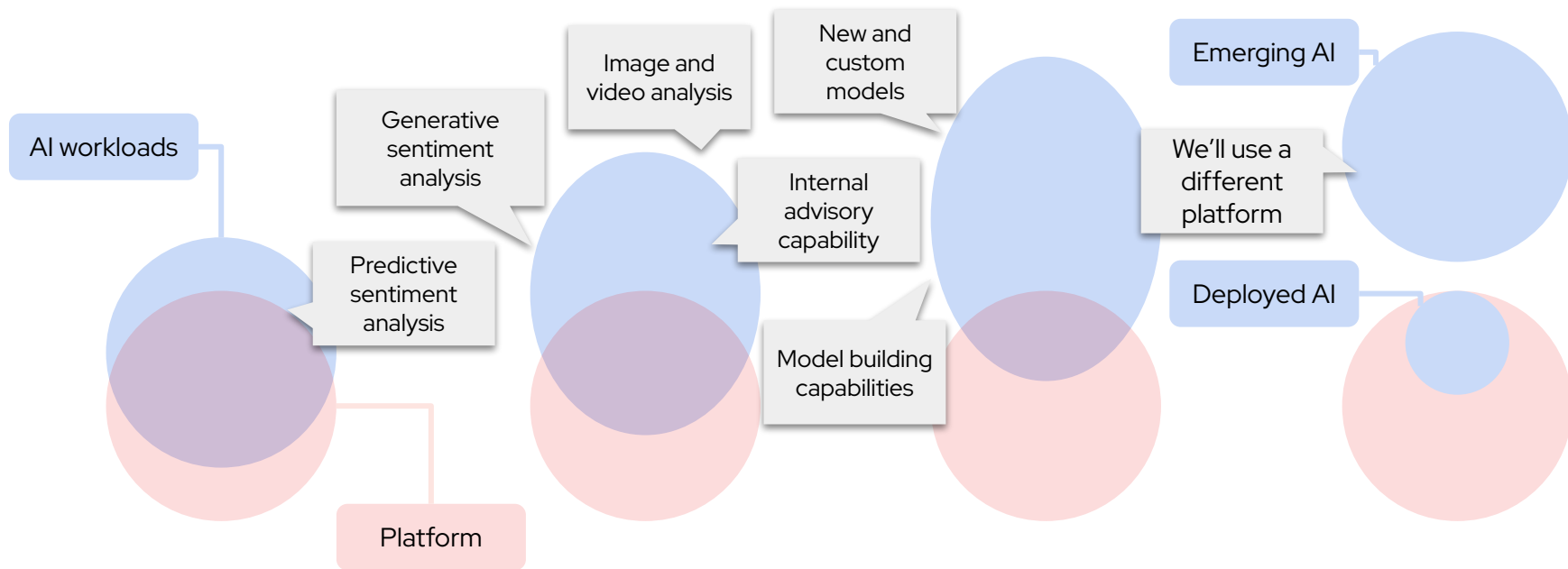
Accelerate

“Every AI application requires a **database**, a Kubernetes **cluster**, and a **model** on an AI accelerator.”

Satya Nadella, CEO Microsoft

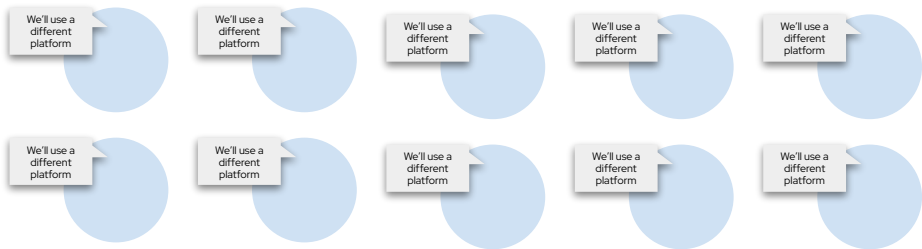
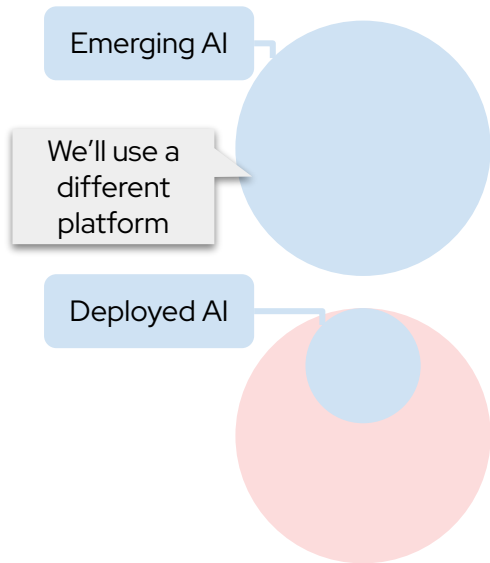


How?

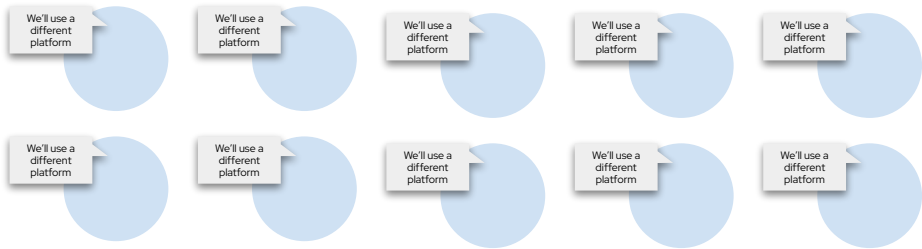


Platform drift





"We'll **all** use different platforms"





Messy

£450,000,000

“In December 2023, the Home Office awarded market leader AWS a **£450 million contract** for cloud services over three years.”



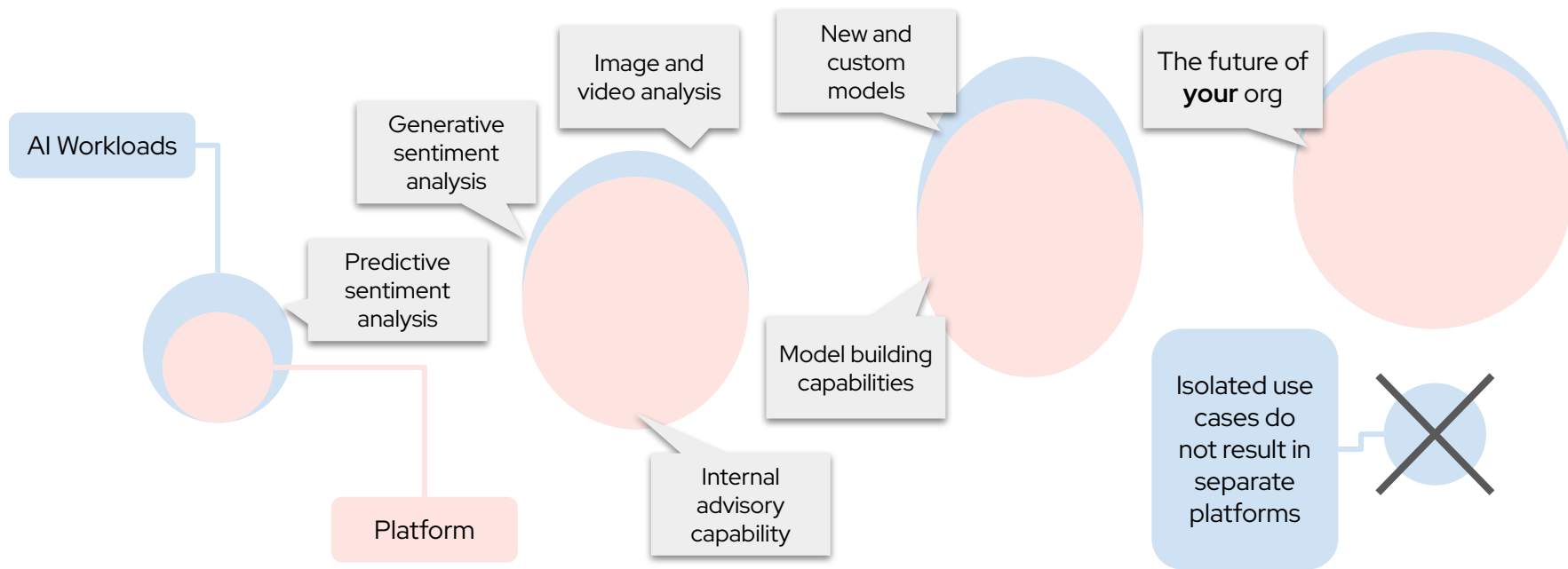
Big money

2000

“Since launching in 2012 [GOV.UK] has replaced **nearly 2,000** government websites with just one [as of 2018].”


A woman with long, wavy blonde hair is looking back over her right shoulder towards the camera. She has a slight smile and is wearing a dark jacket. The background is blurred, showing what appears to be a car interior or a similar setting with some lights. The word "Alternative" is written in a large, white, sans-serif font across the middle of the image.

Alternative



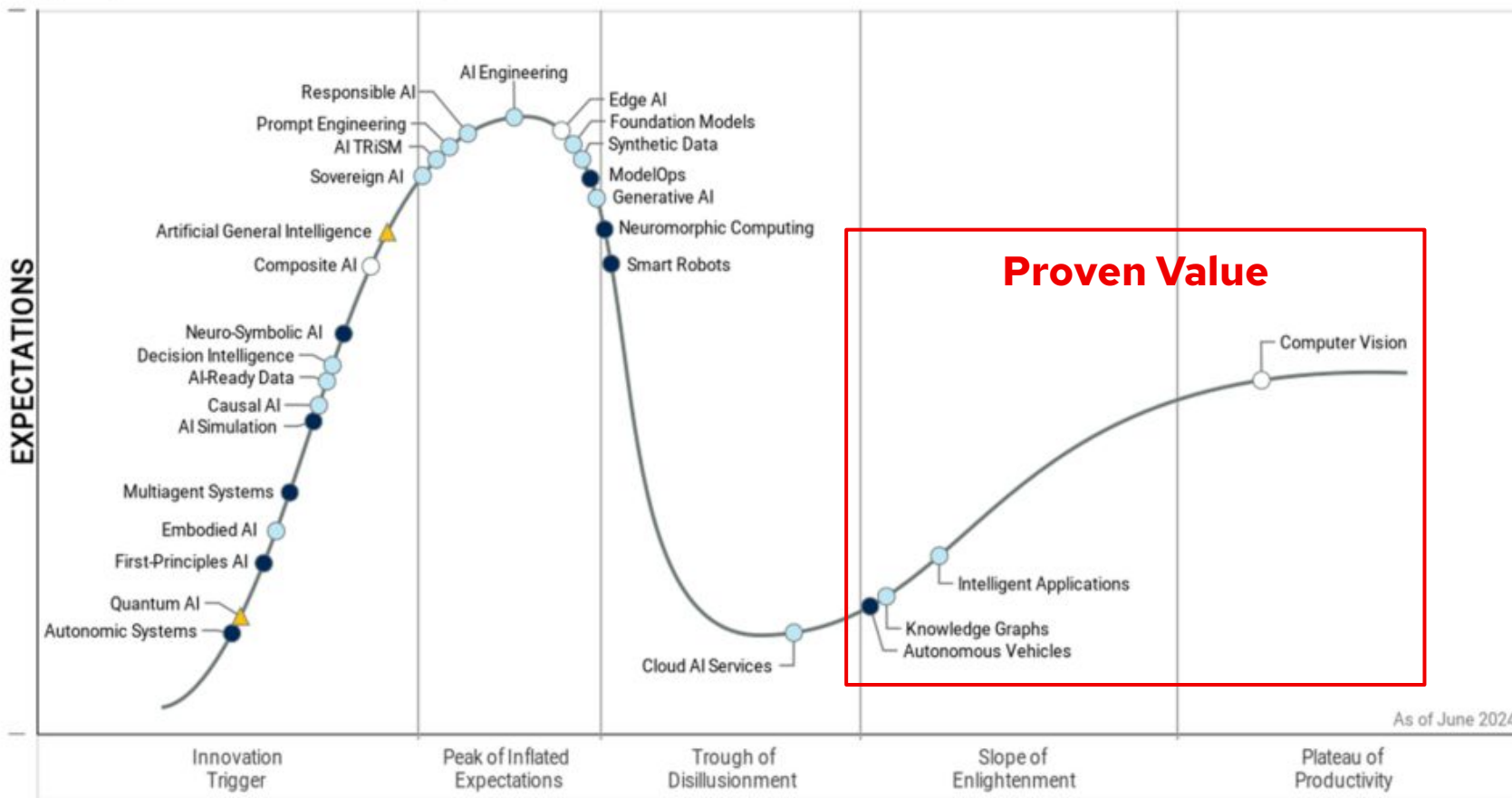
“[D2S] paves the way for [workloads] to be delivered on a **centralised deployment platform** at the scale and speed needed to securely get the latest **technological innovations** into the hands of those that need them most.”

Ministry of Defence



Future ready

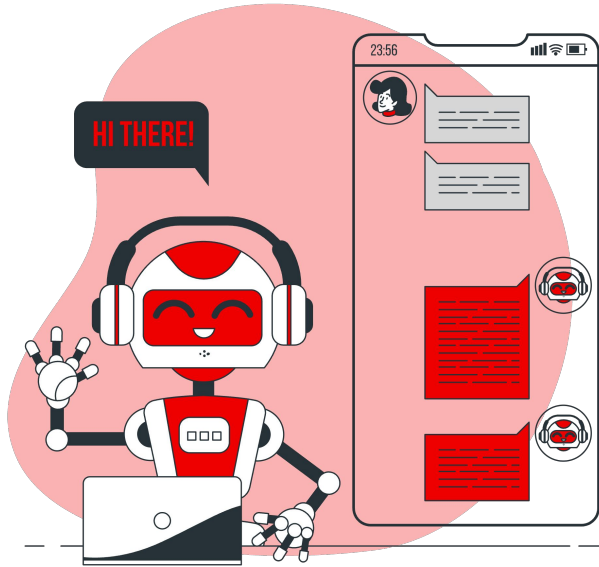
Hype Cycle for Artificial Intelligence, 2024



As of June 2024

A scene from the movie 'Jerry Maguire' featuring Tom Cruise as Jerry Maguire. He is sitting at a desk in a cluttered office, talking on a mobile phone with a shocked or intense expression. The desk is covered with papers, a coffee cup, and various office supplies. In the background, there is a large window overlooking a city skyline with several skyscrapers. The office is filled with various items, including framed pictures, a football, and a printer.

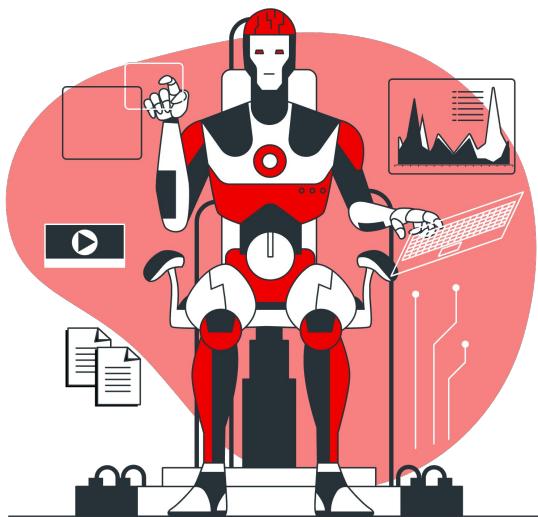
Show me the value



Implement a secure
multi-cloud, multi-model
"Trusted Advisor" that can
provide tailored insights to
senior officials within a
walled garden.



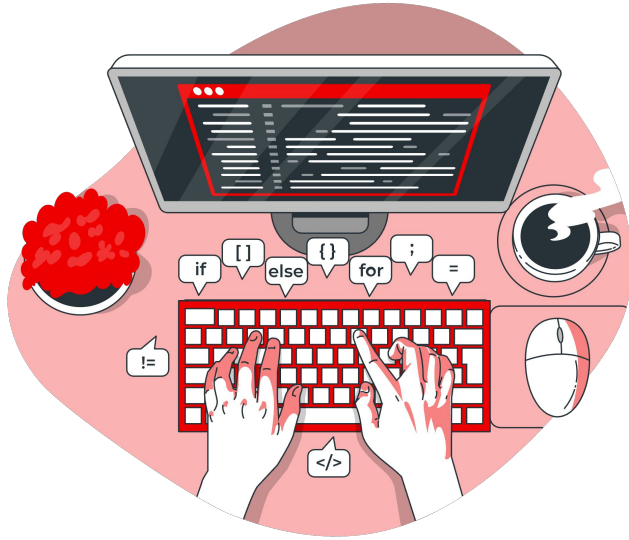
Guidance



Deploy a **domain-specific** quantised AI model, with indemnified IP, that only knows **what you need** it to know, helping you to reduce risk and cost.



Knowledge



Implement an AI platform engineering tool, fine-tuned on **your codebase**, reducing the manual overhead of operations.

Hybrid teams



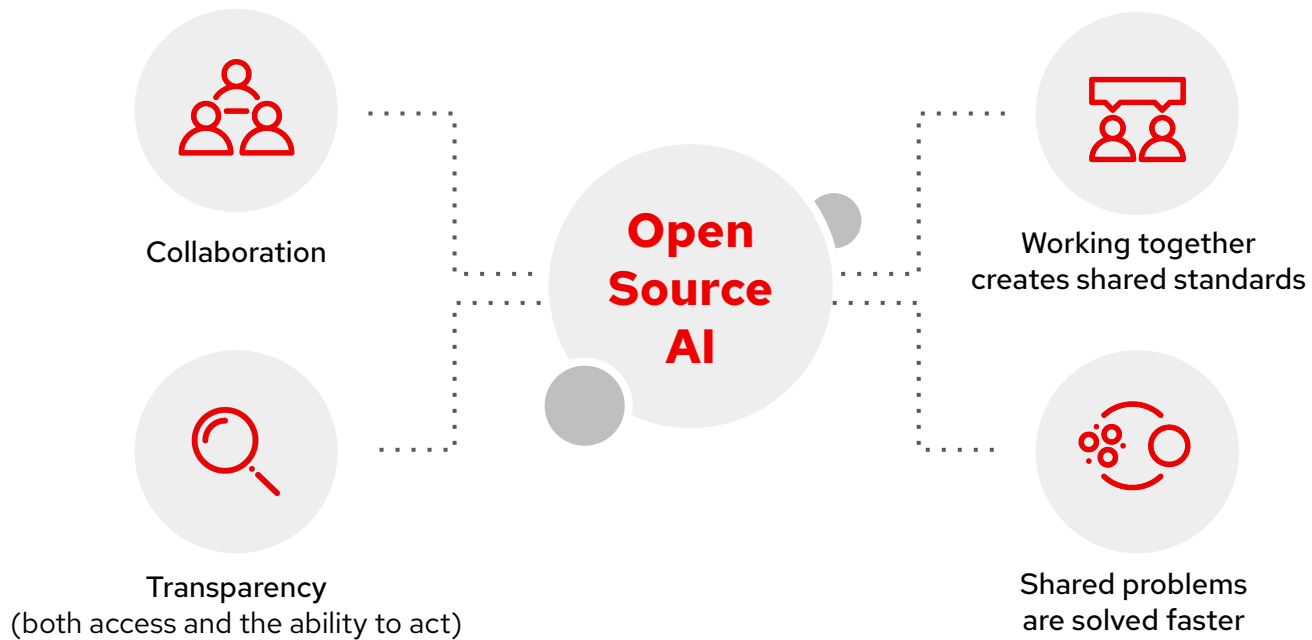


InstructLab

What if everyone in your
organisation could
contribute to AI?



Nurture



A fashion photograph featuring a young man with dark, spiky hair and light blue eyes. He is wearing a brown headband with a white geometric pattern and a black sweater with white geometric patterns. He is looking directly at the camera with a serious expression. In the background, there are other people, including a man in a white tank top and another in a dark jacket, but they are out of focus. The word "Models" is overlaid in white text in the center of the image.

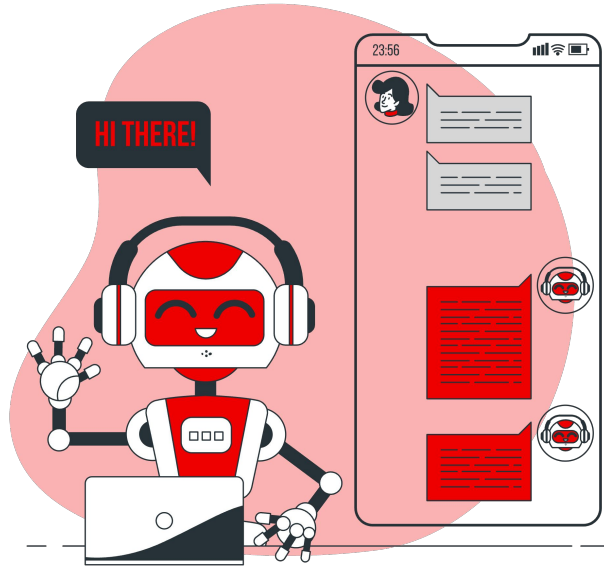
Models

Cost Efficient: *Orders of magnitude better cost performance*

Smaller open models delivering better performance at a fraction of the price...

Granite 7B + InstructLab	Performance	Cost
vs. ChatGPT 4 Turbo Use case: financial planning	↑ 4%	↓ 98%
vs. Llama 3 70B Use case: accounting	↑ 6%	↓ 75%

...running on the most economic AI stack

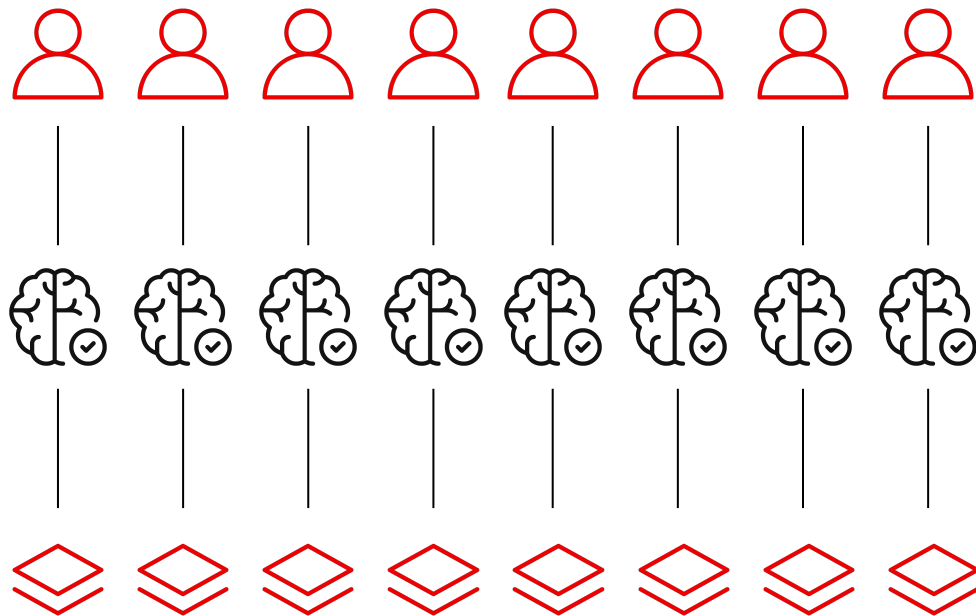


x 467

A close-up of a man's face, likely from a movie, with various mathematical symbols and formulas overlaid. The symbols include Greek letters like Σ , Ψ , γ , and η , as well as mathematical expressions like $2^R 1_L$, $\sqrt{\frac{4K(1+K)}{A_{ps} + \eta}}$, and κ^2 . The background is blurred with bokeh lights.

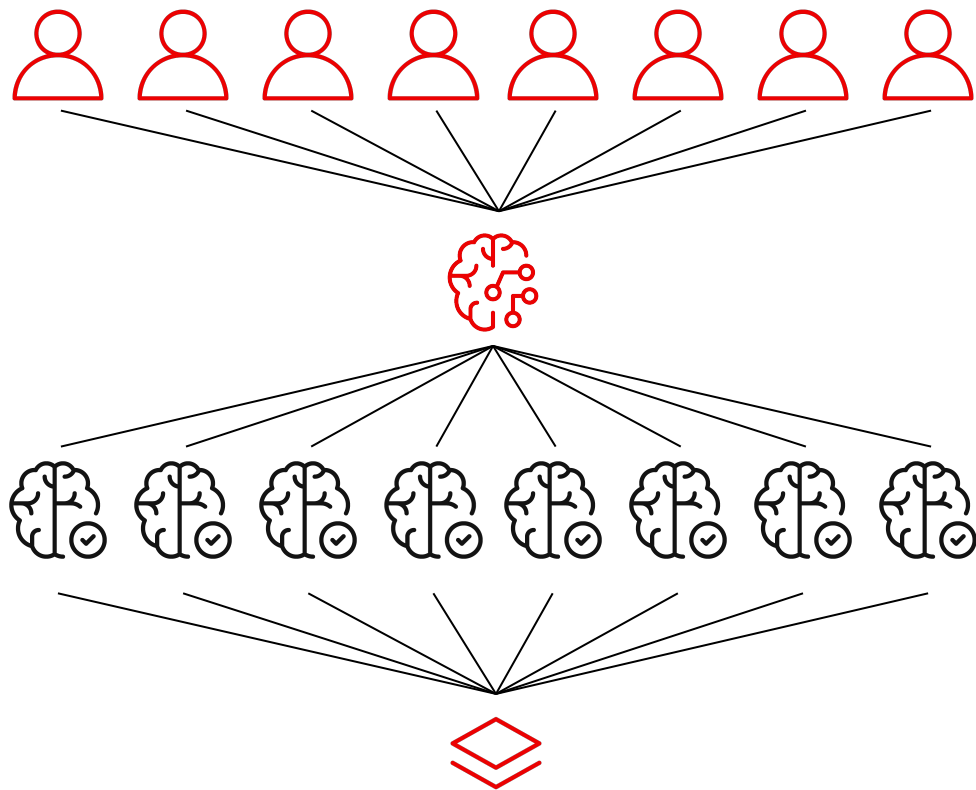
Big numbers

$$2^R 1_L \left(\sqrt{\frac{4K(1+K)}{A_{ps} + \eta}} \right)^2 + \kappa^2 \text{ and } \varphi' =$$





Service



It's **not** about building a platform
It's about making value delivery **easier**

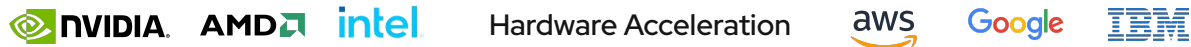


Today

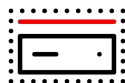
Train anywhere. Run everywhere.



Trusted, Consistent, and Comprehensive foundation



Physical



Virtual



Private Cloud



Public Cloud



Edge



So what?

The path to AI success

Leverage **hybrid-cloud solutions** to retain flexibility

Learn from **the success of others** such as MoD D2S

Use **open source** for better performance at lower cost

Apply **Platform Engineering** to reduce drift and sprawl

Demand a **consistent AI foundation** across your org

“Make sure **you own** your AI.”

Mitko Vasilev, CTO

A man with a beard, shirtless and wearing dark shorts, is kneeling on a sandy ground in a tropical environment. He is looking towards the camera while holding a small object in his hands. To his left is a large white Wilson volleyball with the brand name 'Wilson' and 'A3' visible. The background is filled with lush greenery, including palm trees and other tropical plants. The word 'Connect' is overlaid in white text in the center of the image.

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Let's chat: jonnywilliams@redhat.com



Thank you

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