

# Platform Engineering untold truths

Is it just an infrastructure matter?



# Who am I?

Developer Relations Engineer @



@castograziano



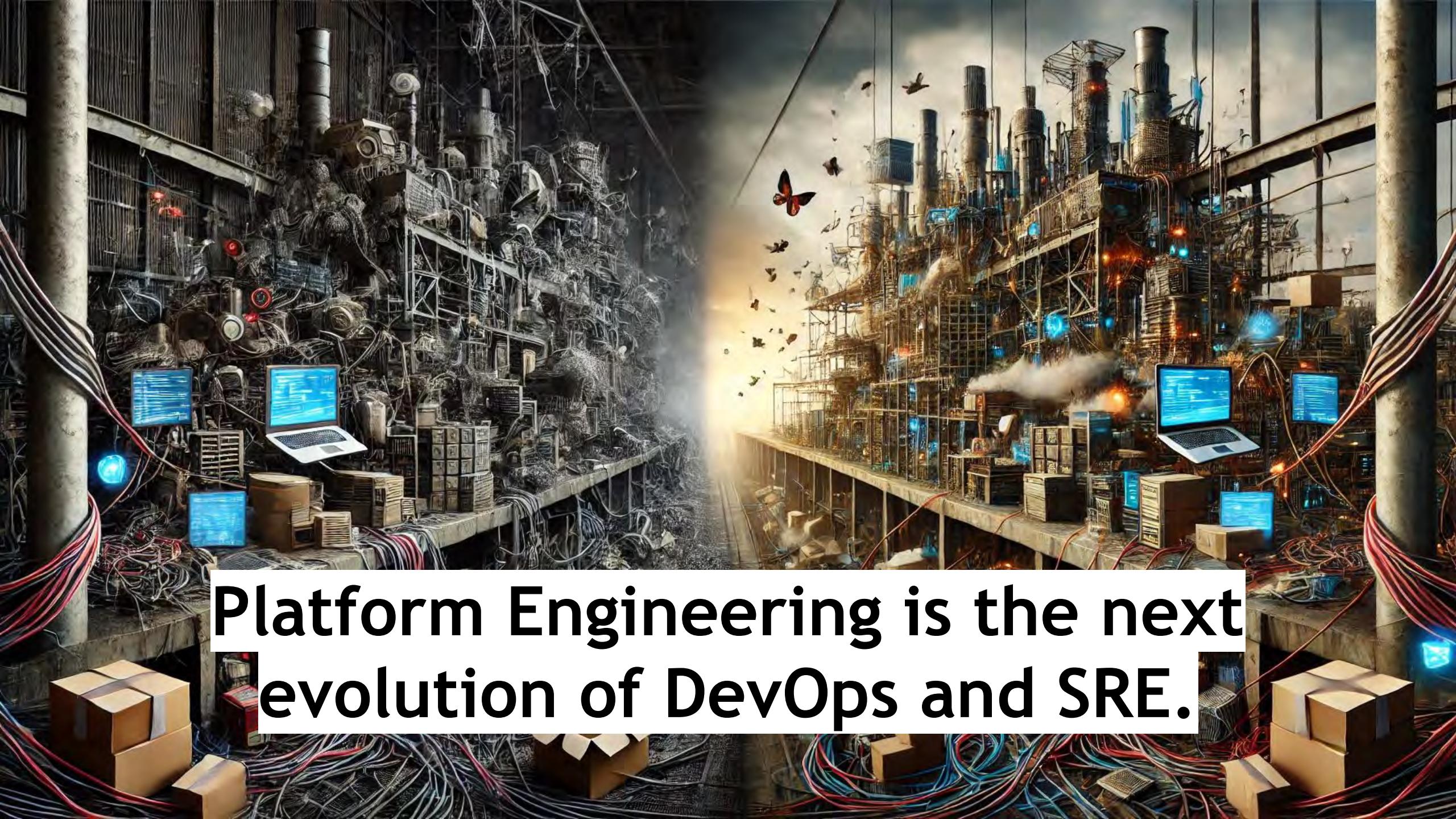
@graz-dev



mia-platform.eu/blog/



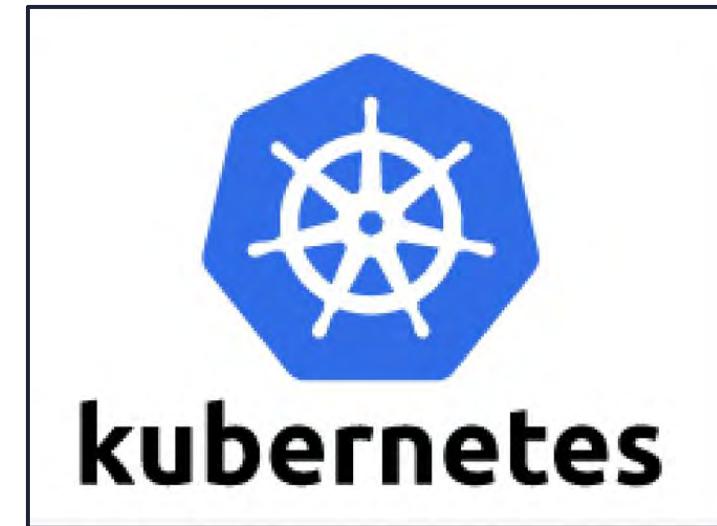
castograziano.com



**Platform Engineering is the next  
evolution of DevOps and SRE.**



Managing runtimes is just the top of an iceberg.



The CNCF Landscape grows exponentially in the last few years counting hundreds of tools and repositories.



Tools becomes an obstacle instead of an innovation enabler.

You build it, you run it.

Managing runtimes is just the tip of an iceberg.

Instead of an



kubernetes

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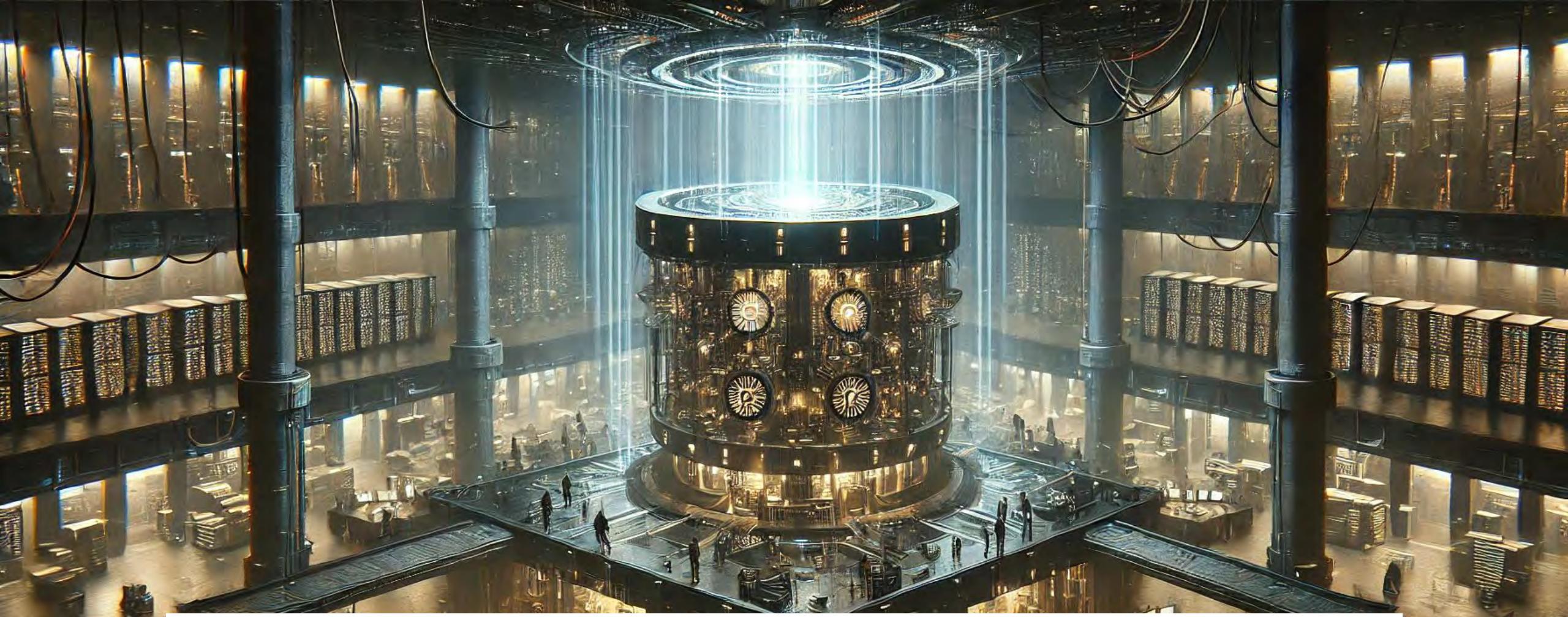


Cognitive Load is a serious thing!

Platform engineering shifts the burden from consumers, who are often forced to use platforms that don't meet their needs.

Instead, the platform owner and platform team must deliver a compelling platform that reduces cognitive load and improves flow.

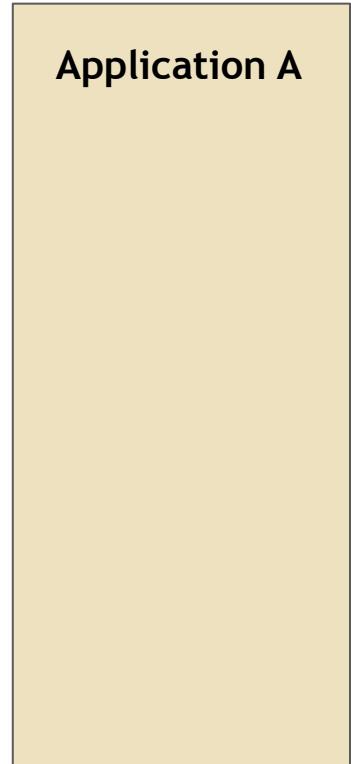
All hands on deck: a story of Platform Engineering - Gartner.



The IDP is the heart of any Platform  
Engineering journey.



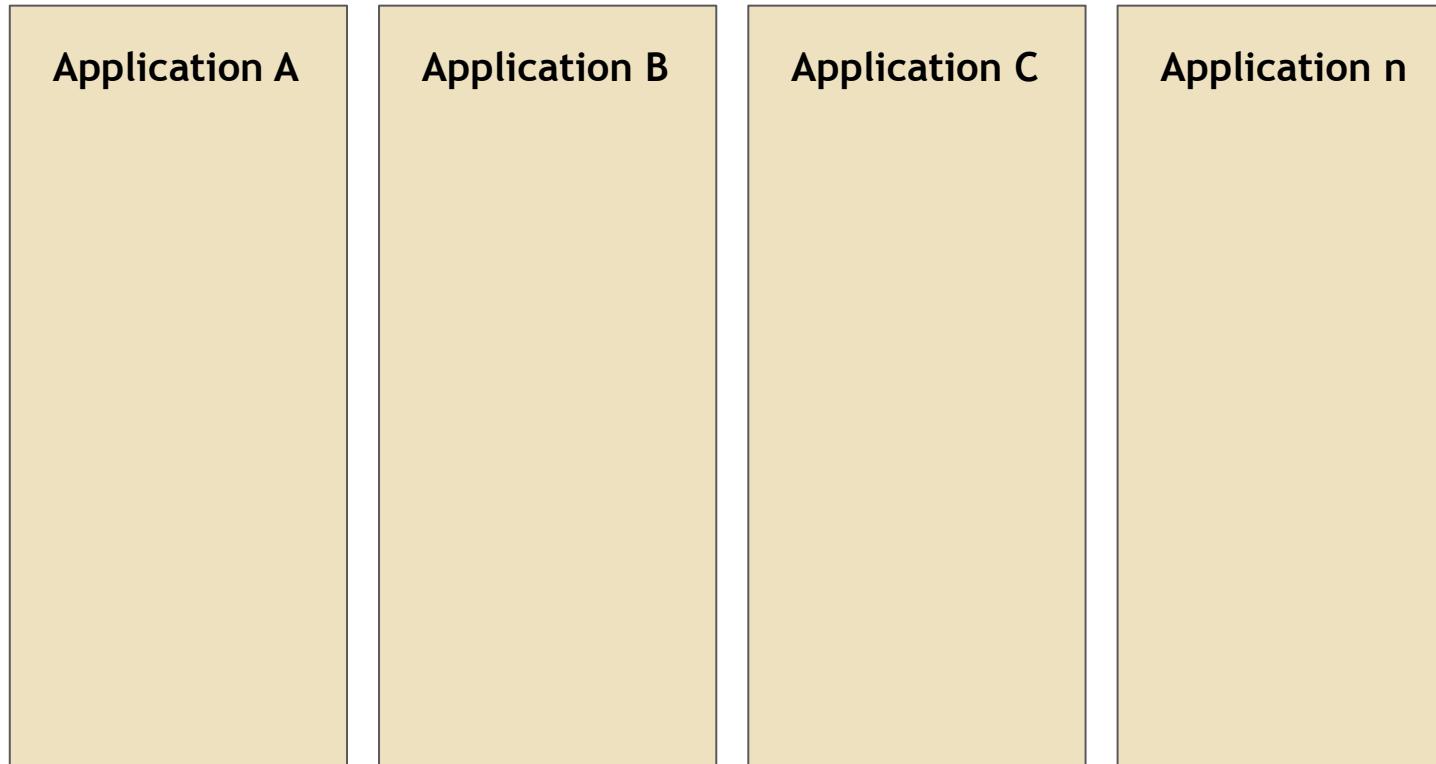
# Understanding Platforms



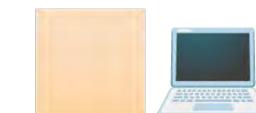
Development  
Teams



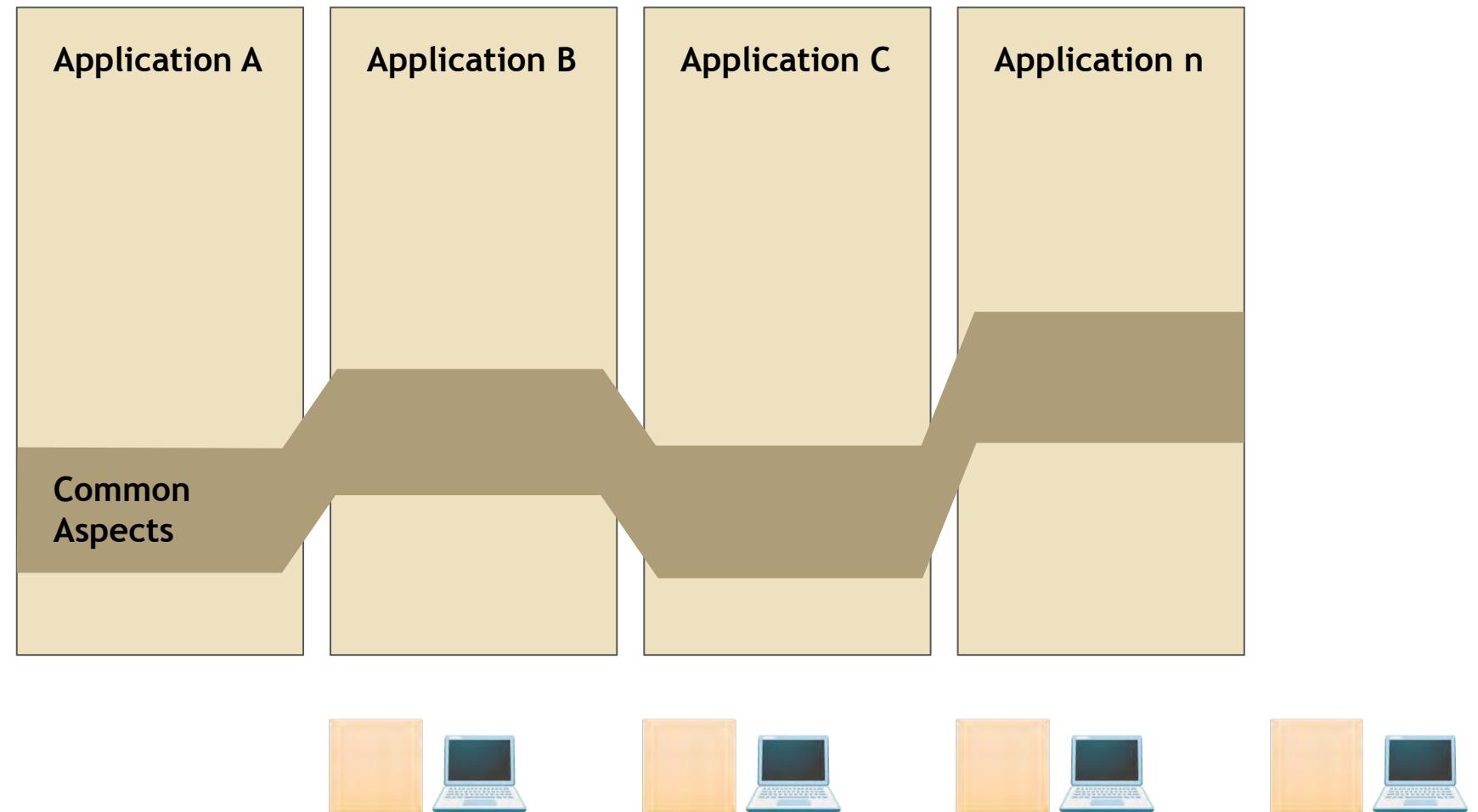
# Understanding Platforms



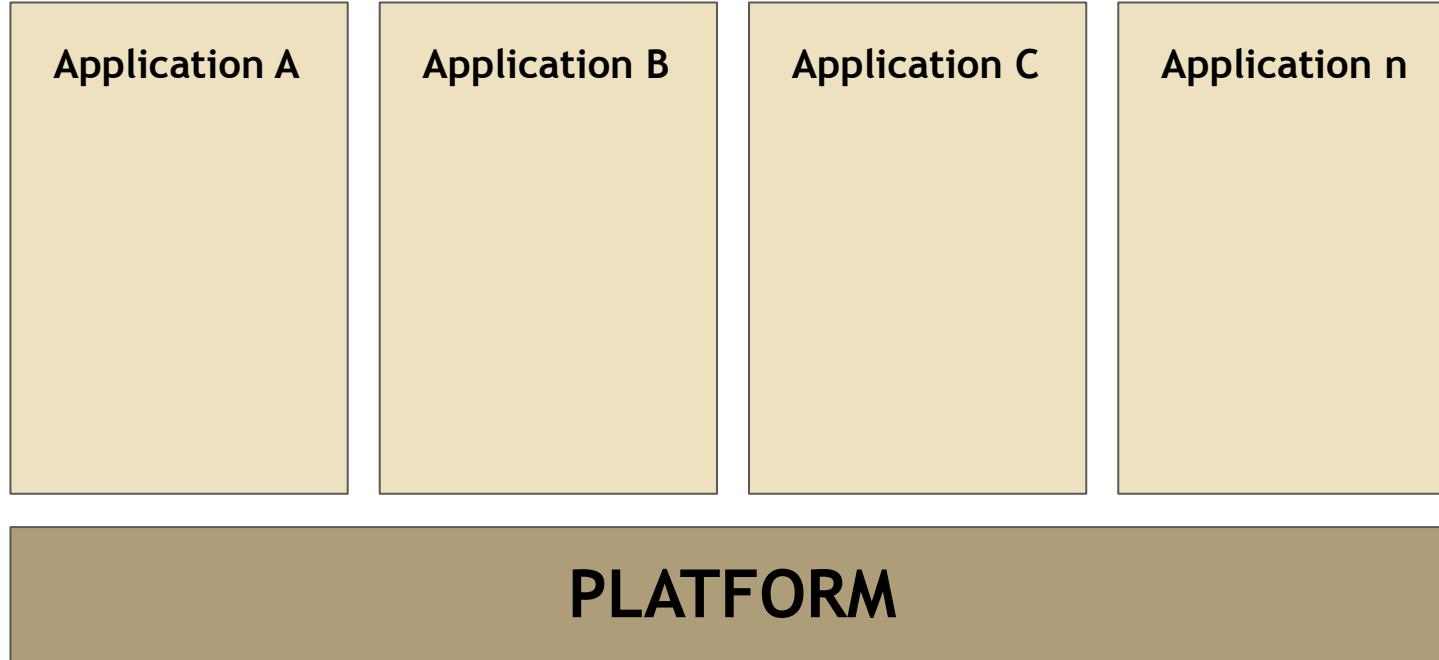
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Teams



# Understanding Platforms



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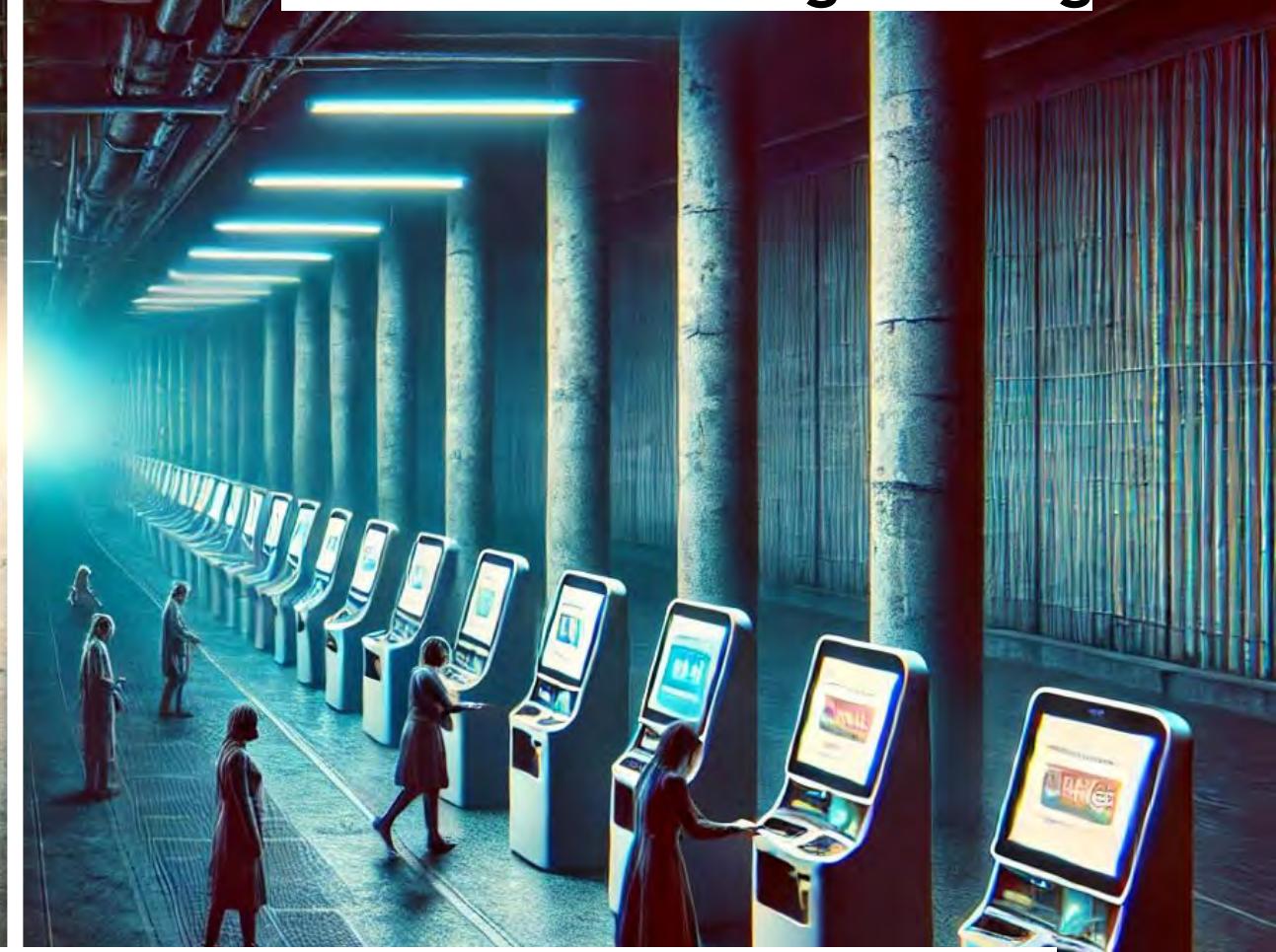
A common place where people share value.

Applications share a set of capabilities and processes: software life cycle, teams rules, infrastructure, toolchains, services, configuration and more...

Without Platform Engineering

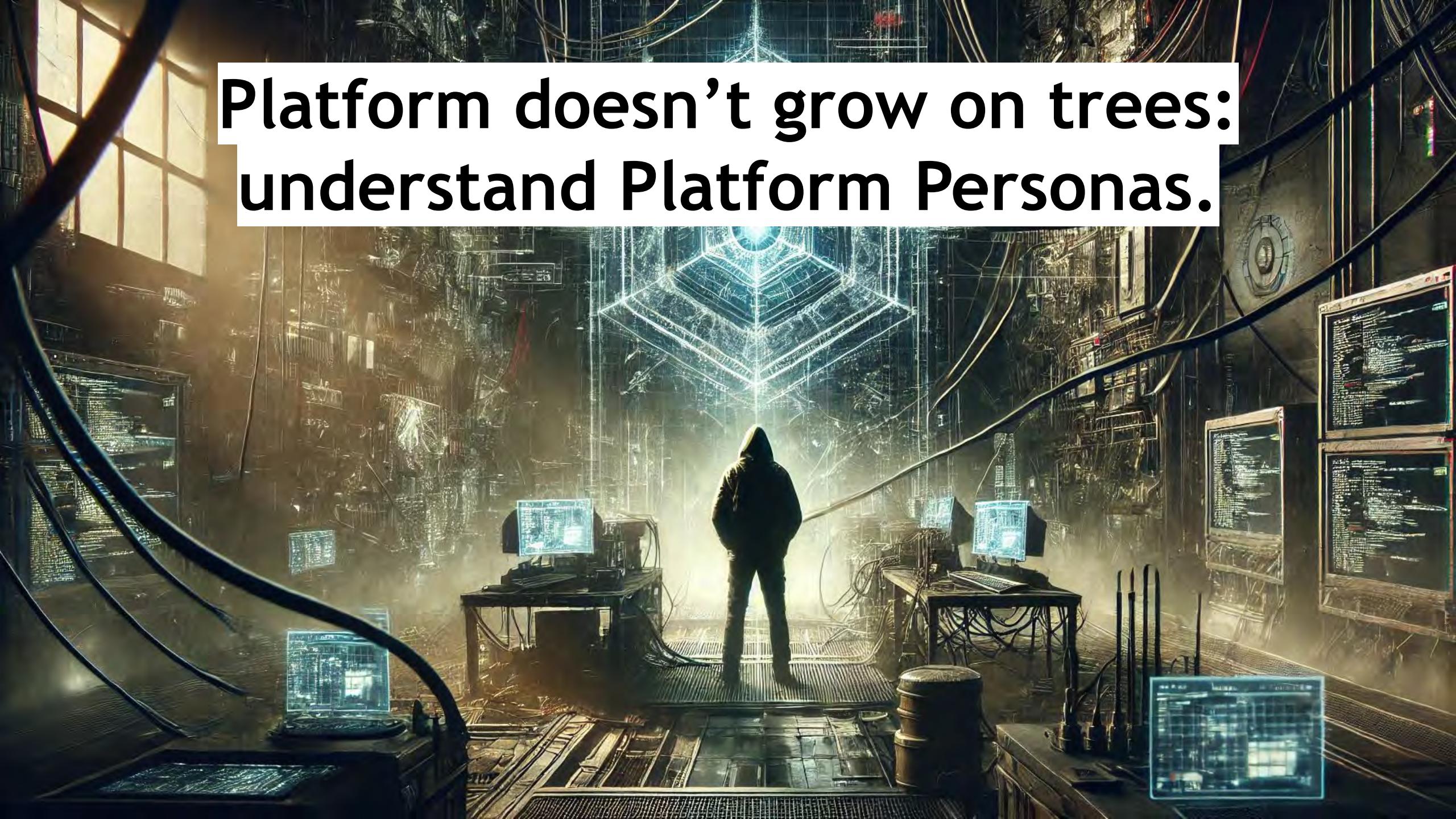


With Platform Engineering



The goal is a frictionless, self-service developer experience.

# Platform doesn't grow on trees: understand Platform Personas.





The **creators** are people who are crafting from scratch elements like infrastructure, pipelines and libraries.

They are creating **building blocks** for the final digital products.



The **composers** are people who creates more complex elements by combining the building blocks provided by the creators.

They are building the actual digital products.



The curators are those who are in charge to simplify the cooperation between creators and composers.

They provide tools to craft, publish and compose building blocks to deliver the final digital products.

They are the Platform Engineers.

# The Platform Value Cycle

PLATFORM



**Curators** provides tools for building stuff.

# The Platform Value Cycle

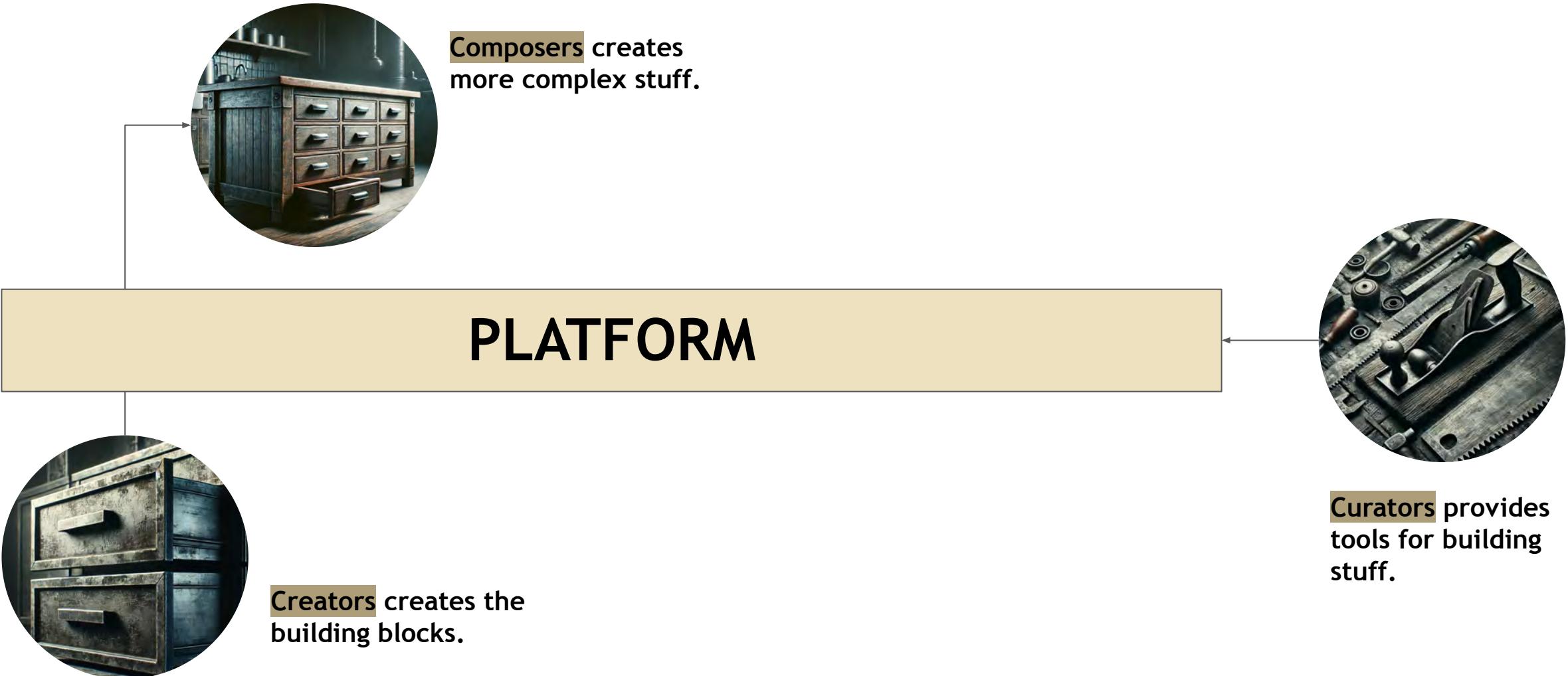


**Creators** creates the building blocks.

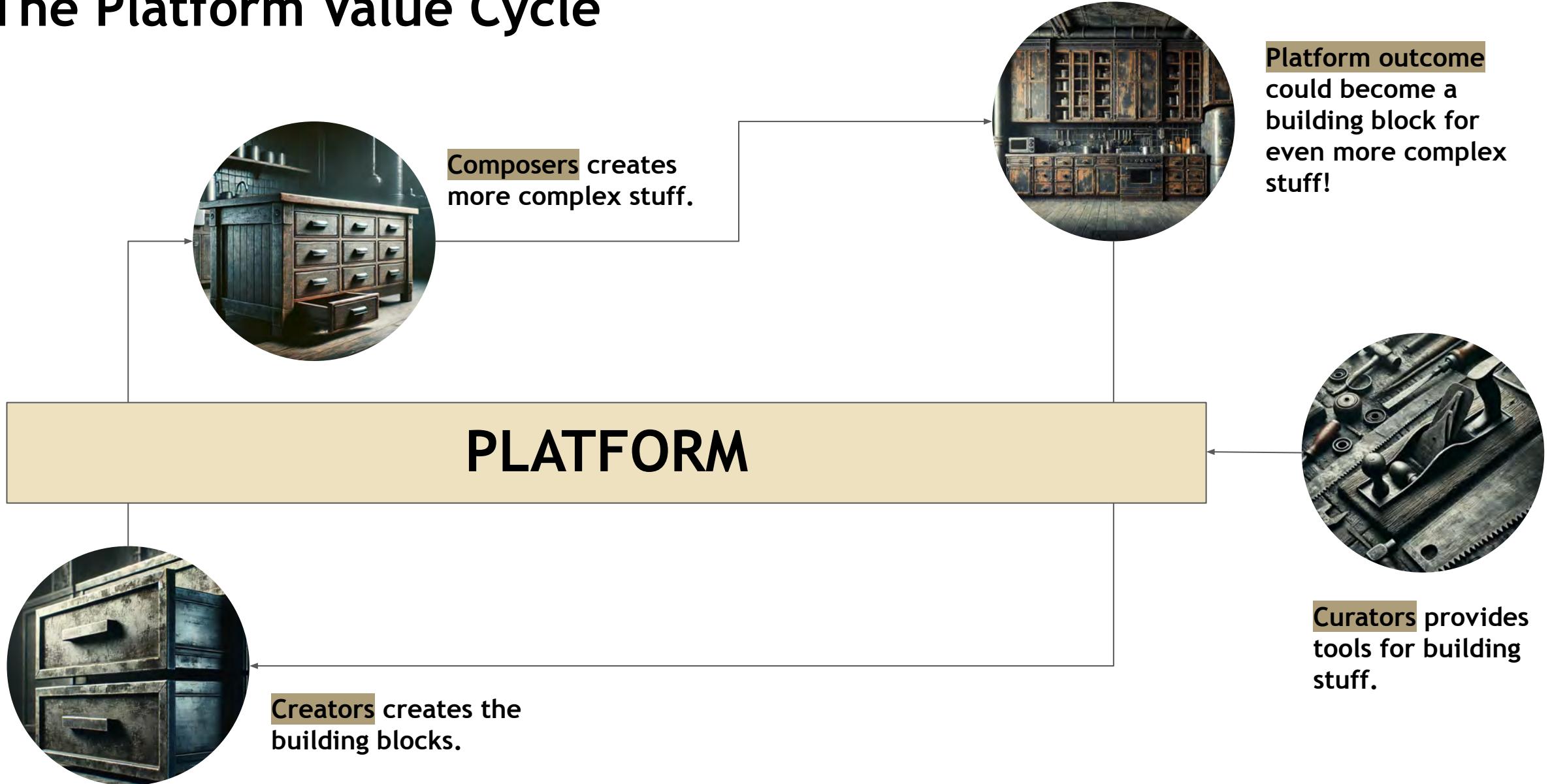


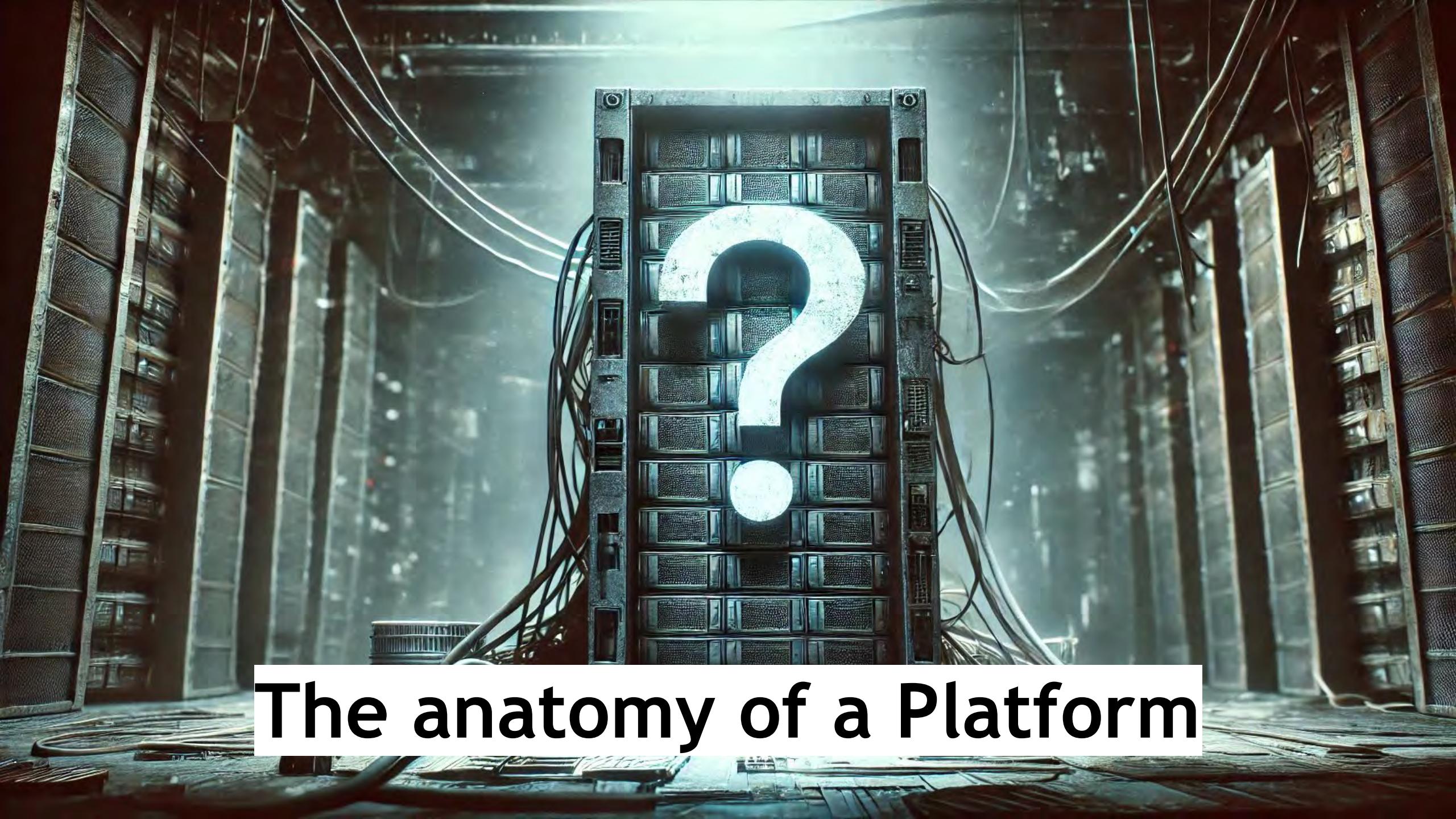
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# The Platform Value Cycle



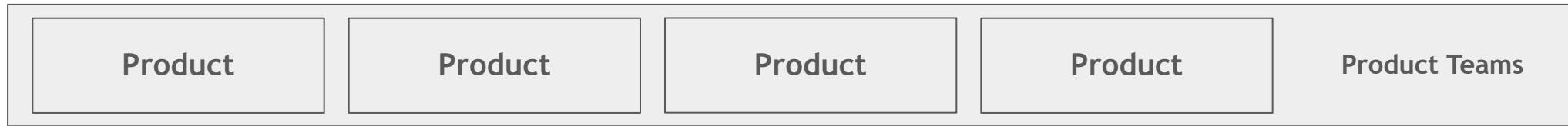
# The Platform Value Cycle



A dark, atmospheric image of a server rack with a large question mark graphic overlaid.

**The anatomy of a Platform**

# Common Platform Representation Schema



# Common Platform Representation Schema

Product

Product

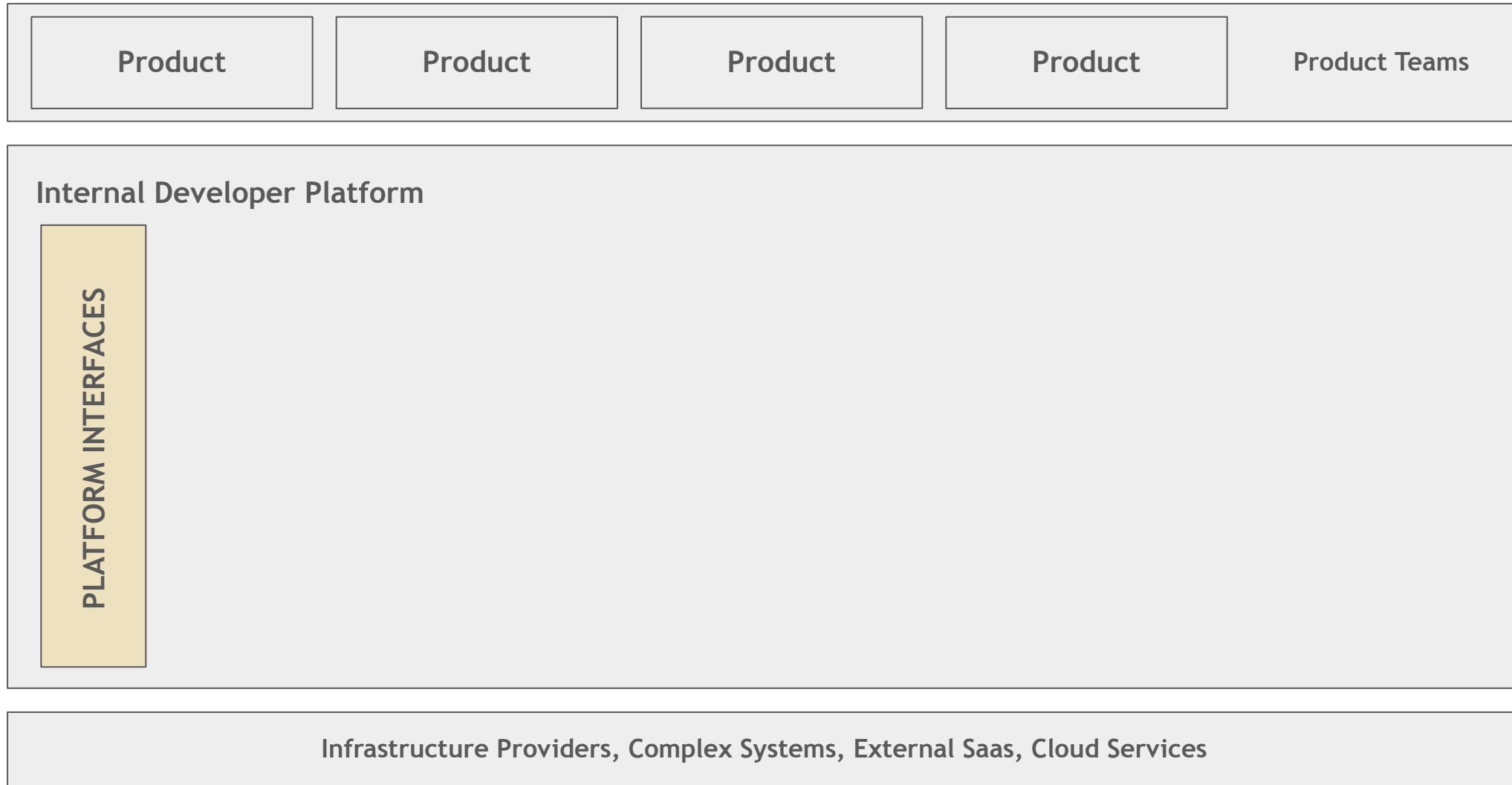
Product

Product

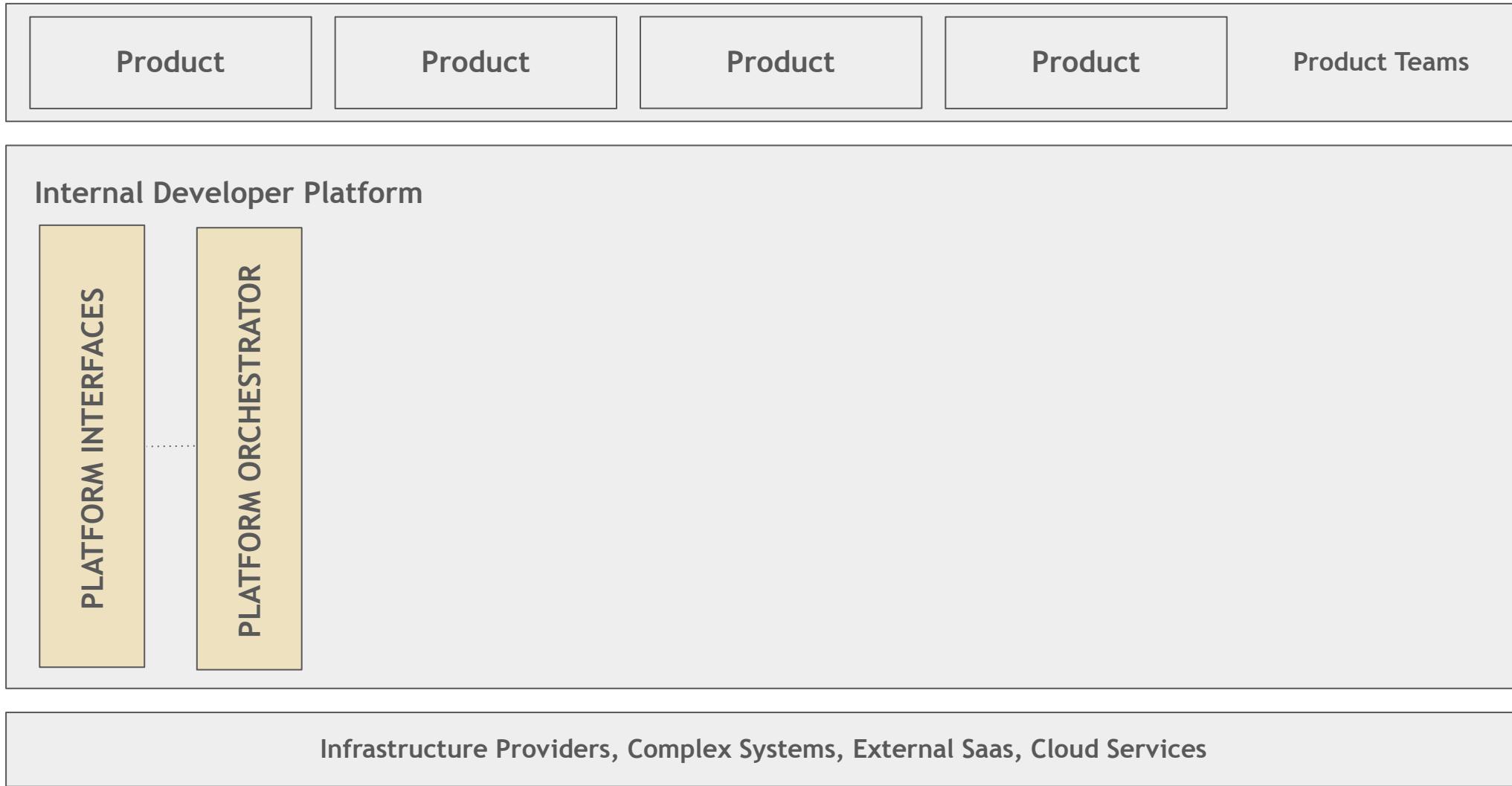
Product Teams

Infrastructure Providers, Complex Systems, External SaaS, Cloud Services

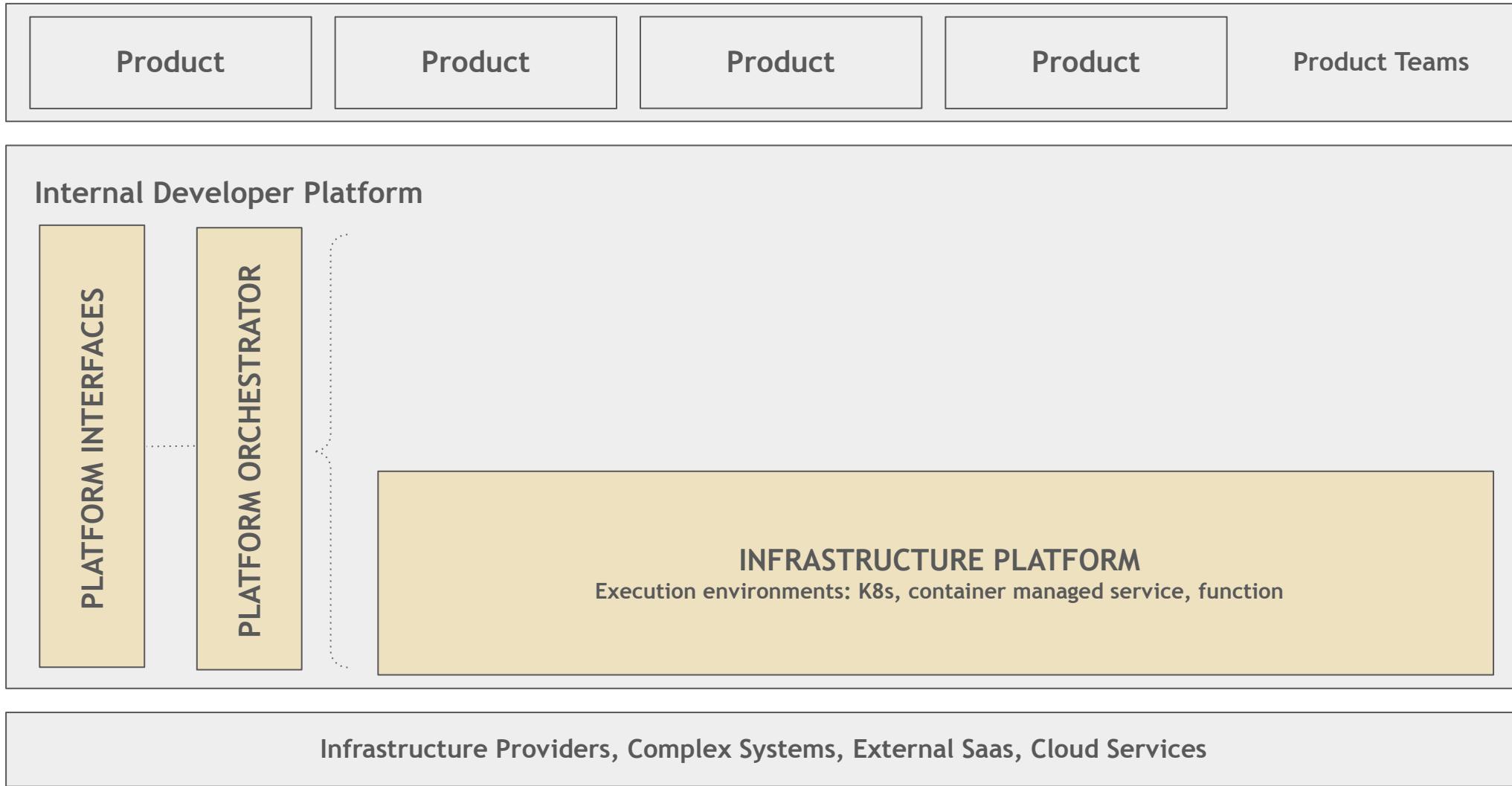
# Common Platform Representation Schema



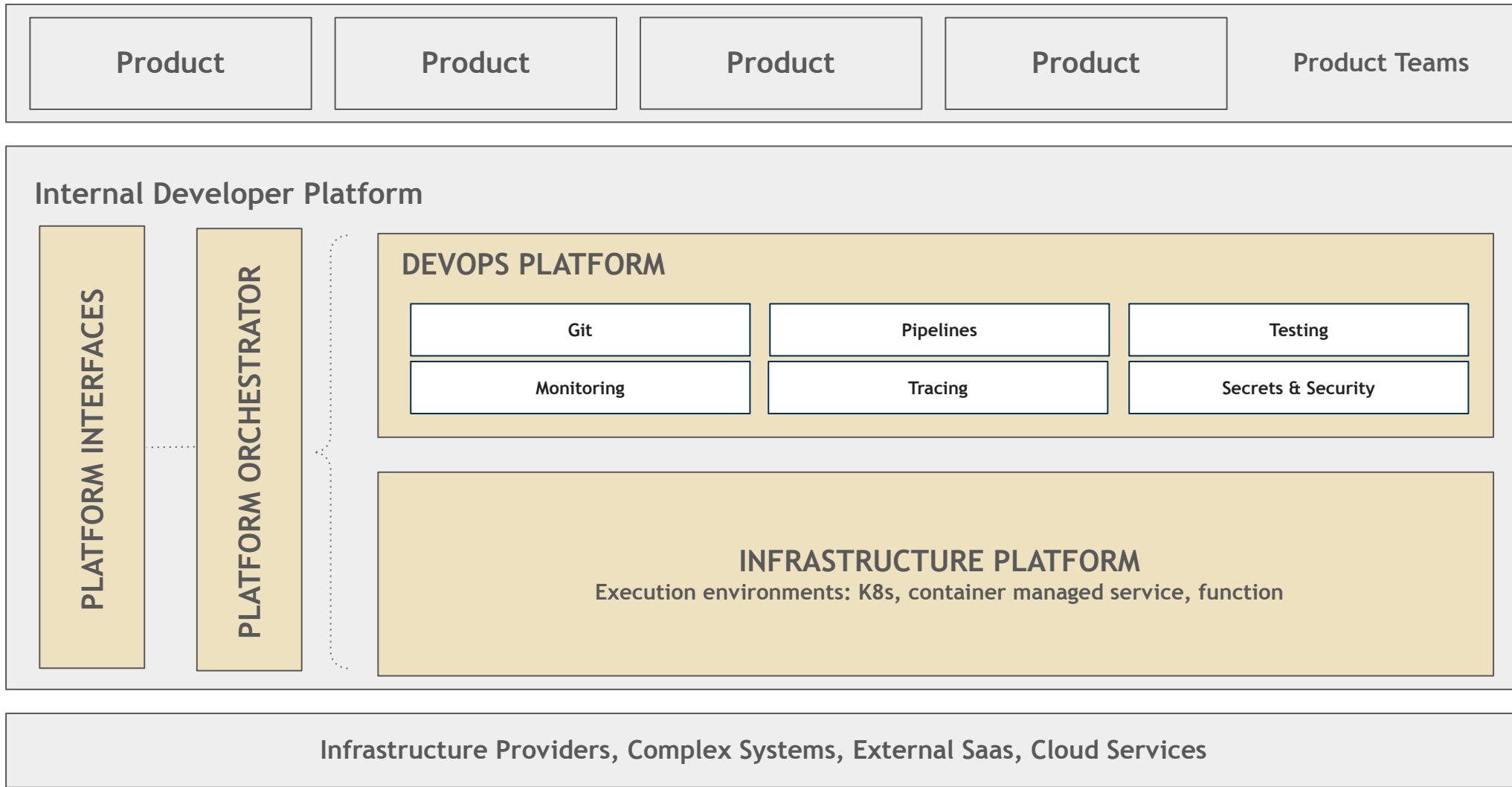
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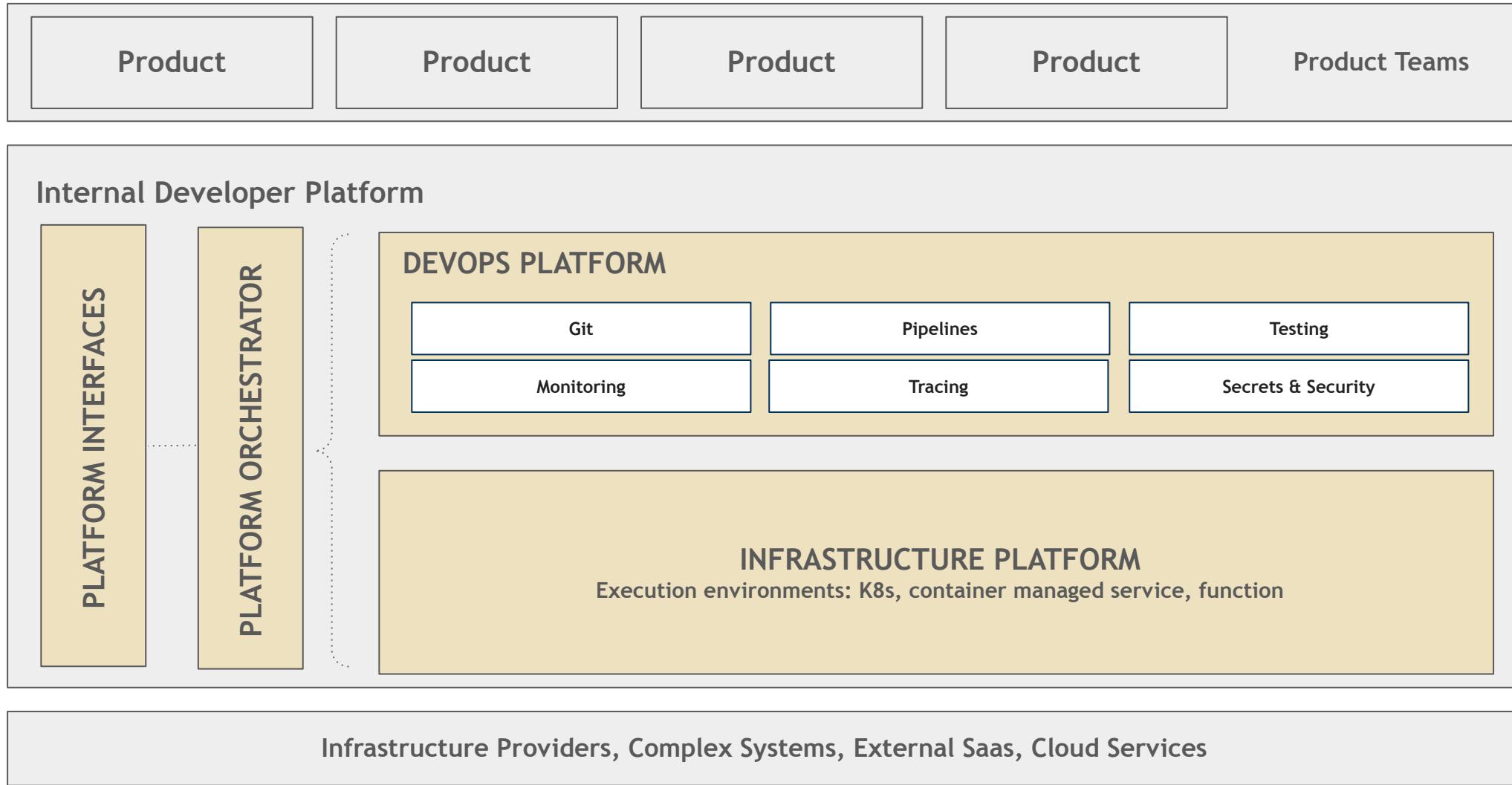
# Common Platform Representation Schema



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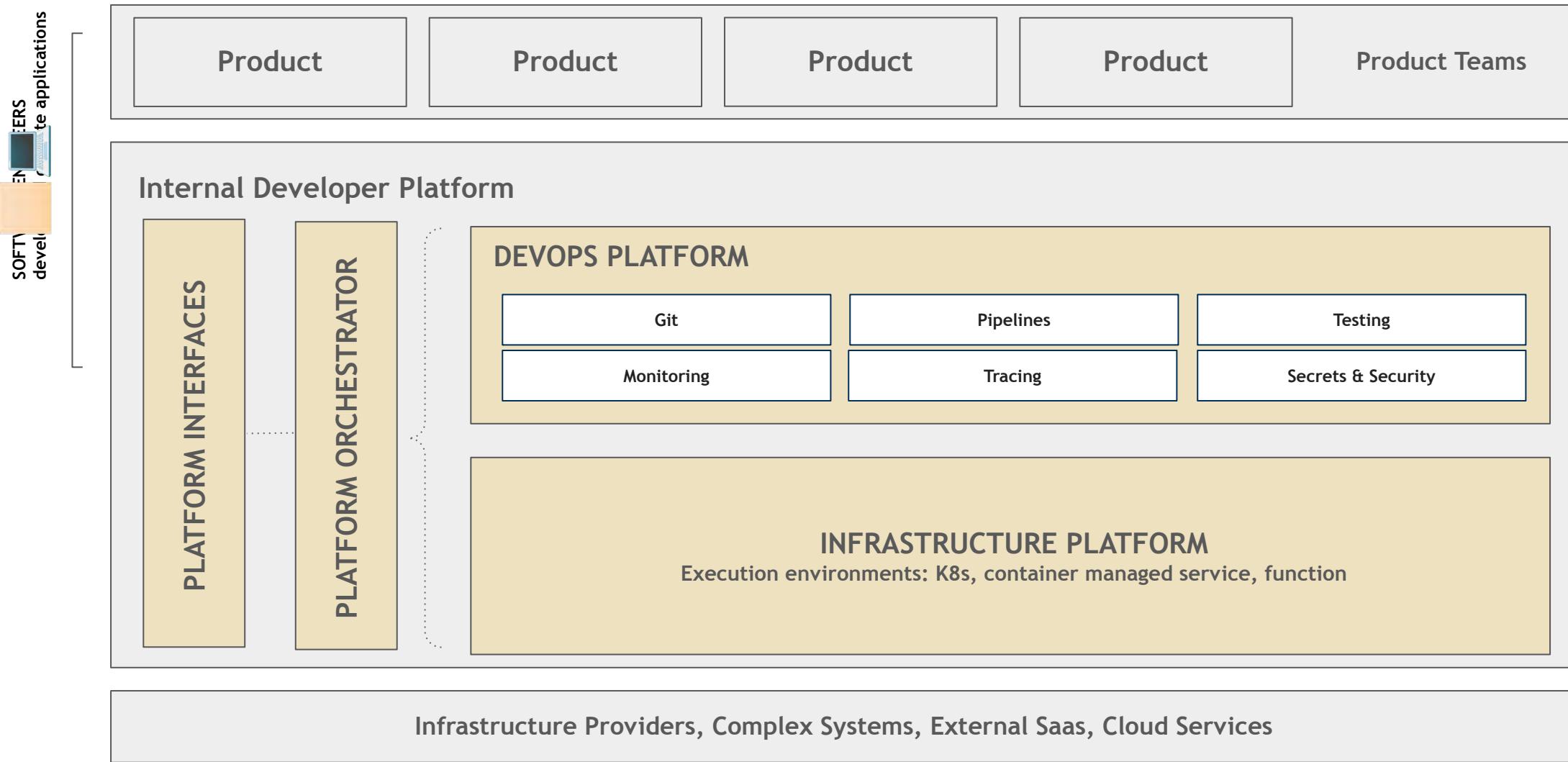


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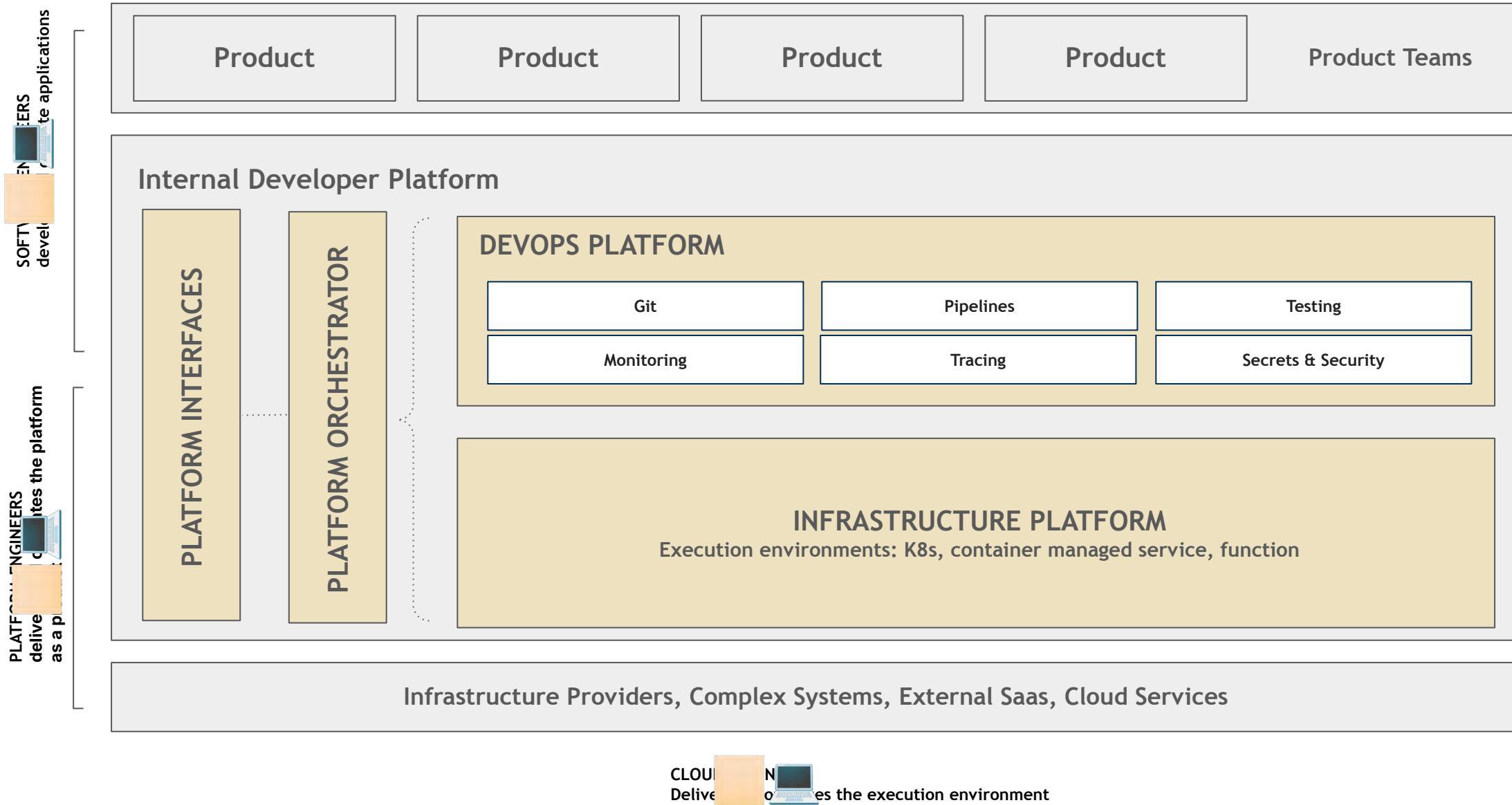


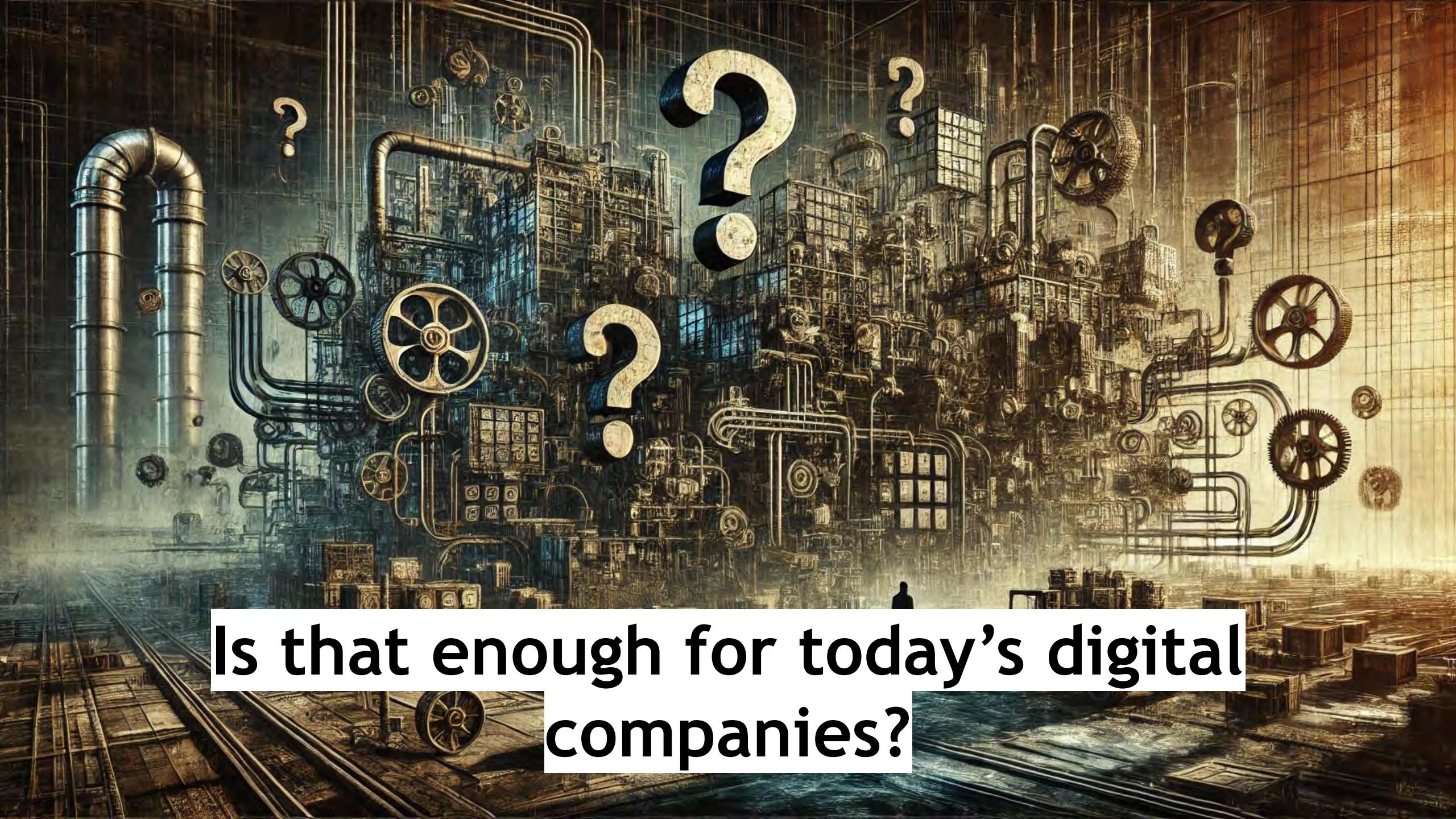
CLOUD N  
Delivery o  
oses the execution environment

# Common Platform Representation Schema



# Common Platform Representation Schema





**Is that enough for today's digital  
companies?**



**What are the valuable digital assets for a digital company?**



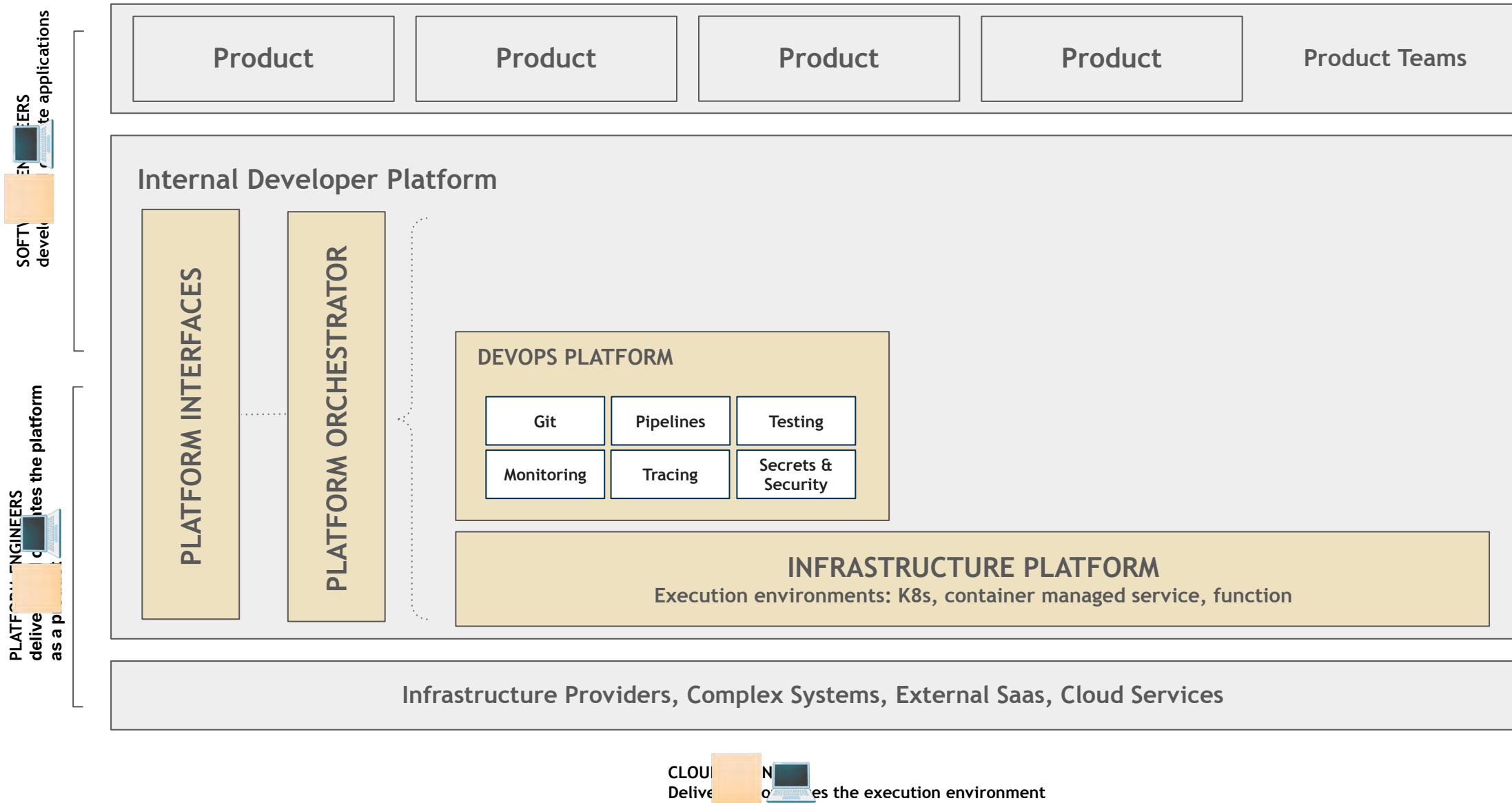
How can one ensure that the application is built on a **stable foundation** if most of the assets are hidden and difficult to discover?



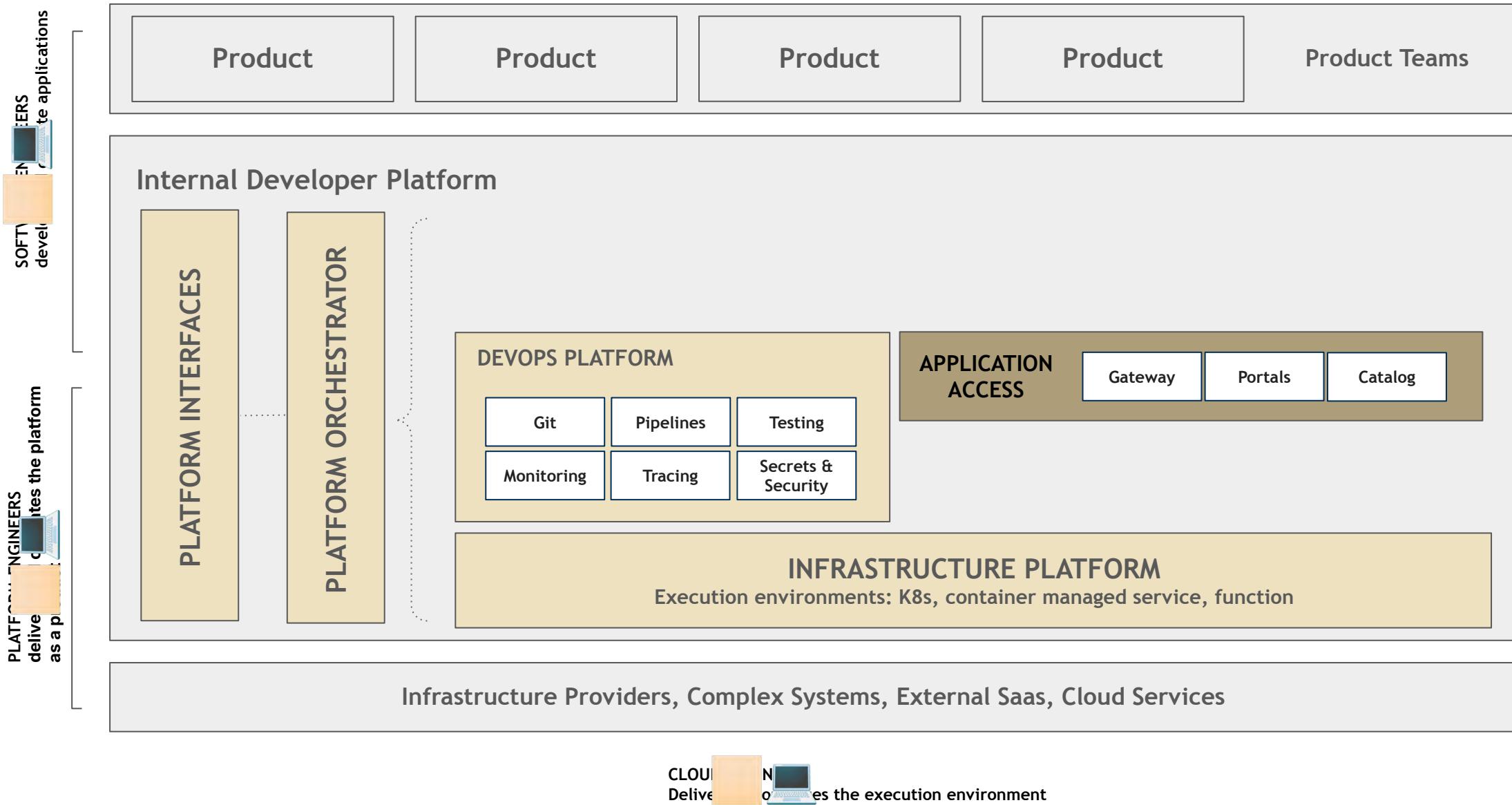
Hidden assets must be valorized as **composable resources!**

- Data
- Business Logic
- Source Code & Configurations
- Business Continuity
- Security & Privacy
- Know-how and Experience

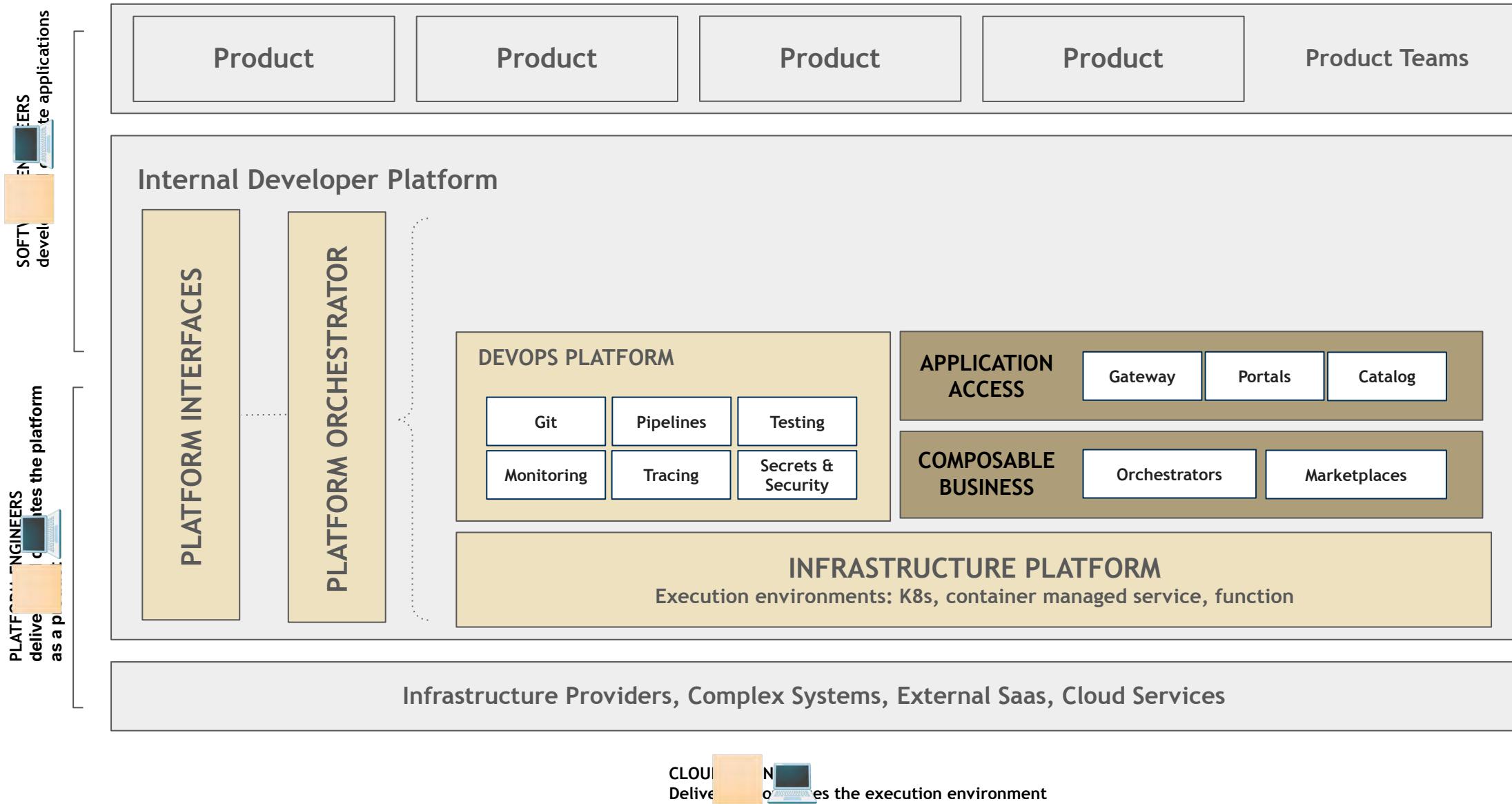
# Platform Engineering ++



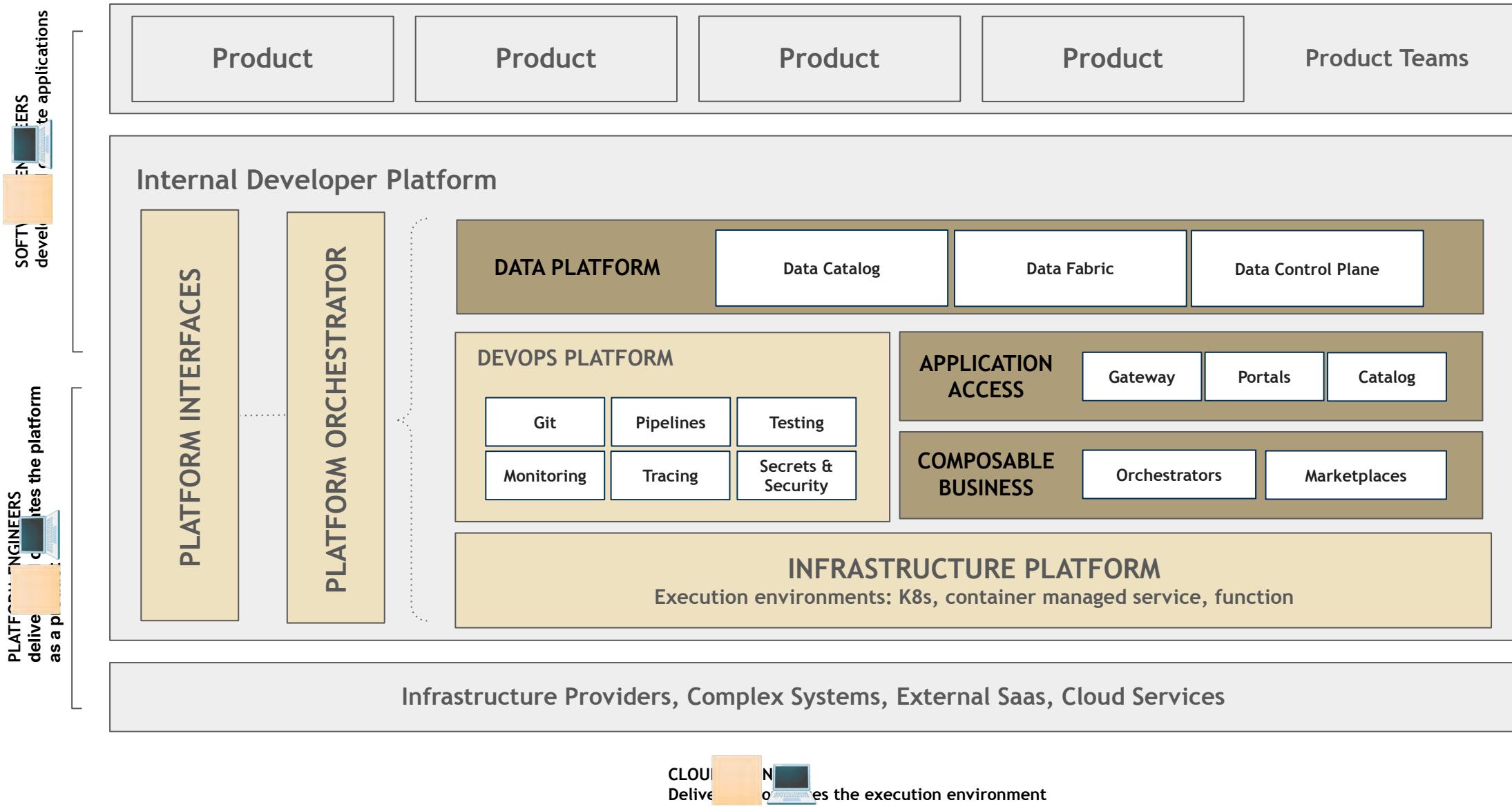
# Platform Engineering ++

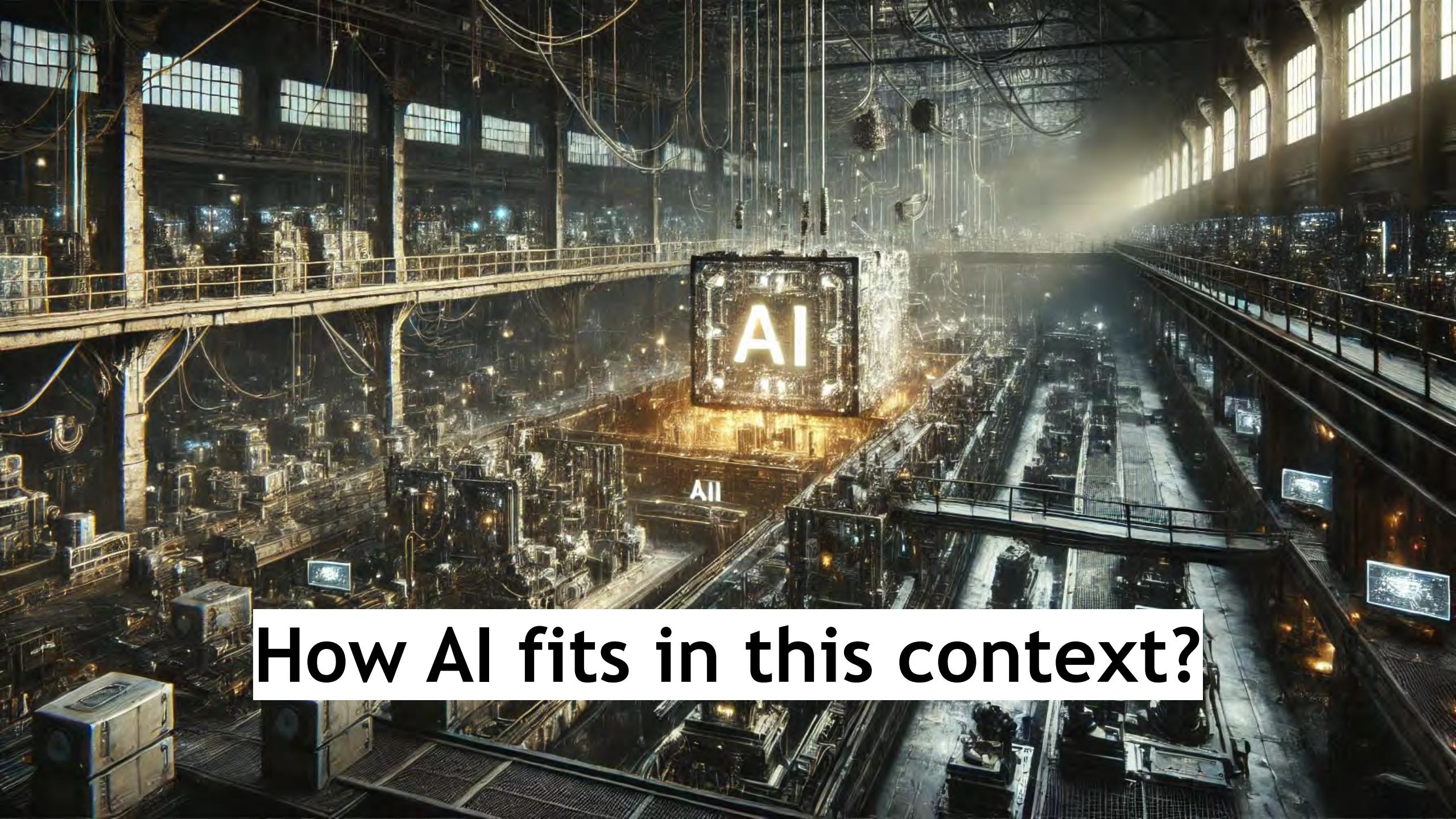


# Platform Engineering ++

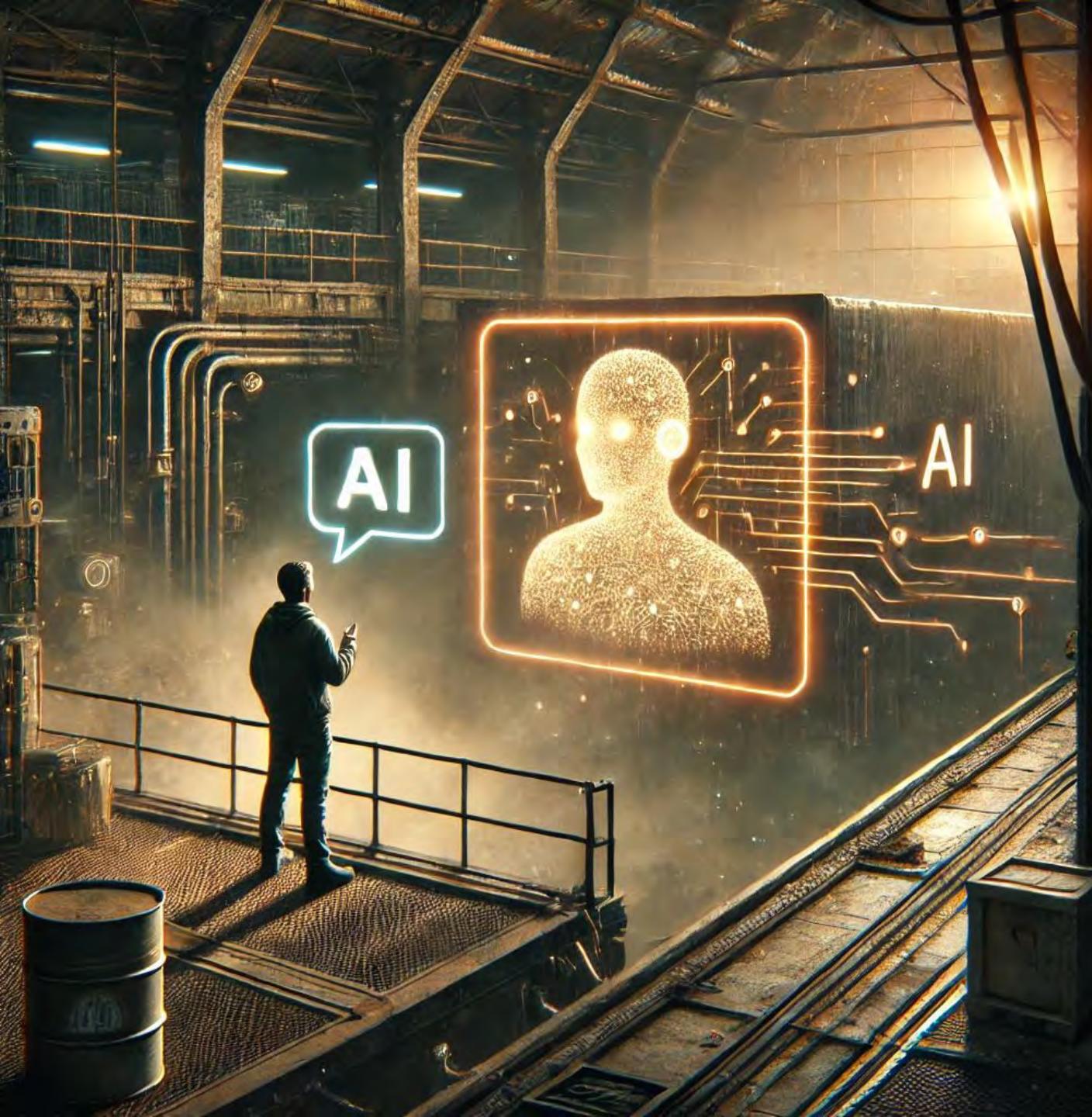


# Platform Engineering ++





How AI fits in this context?



The introduction of **AI Engines** as **Platform Interface** brings developer experience to a whole new level.

AI Engines enable a **conversational DevEx** paradigm allowing us to interact with our platform using the natural language.

# Takeaways

1

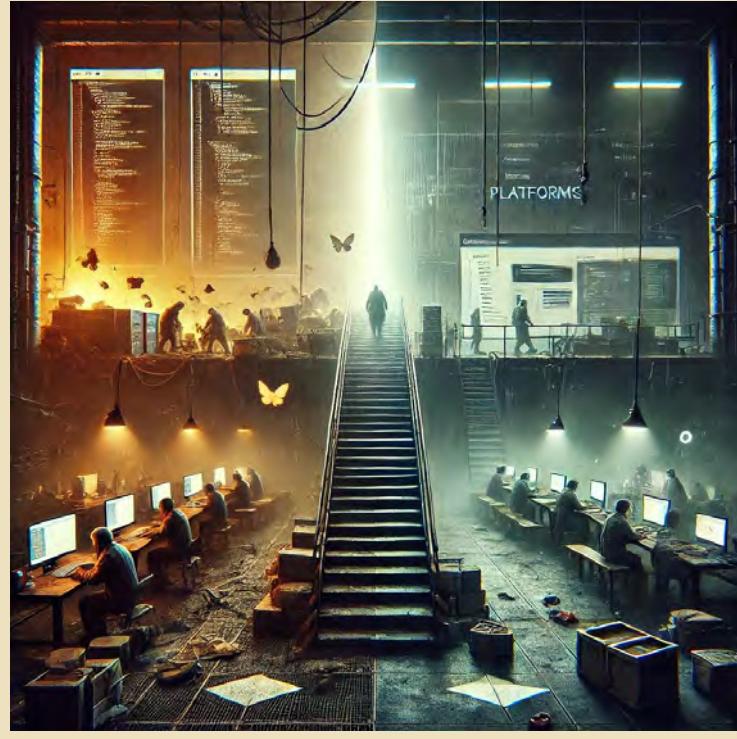
A paradigm change: from Project to Platforms



# Takeaways

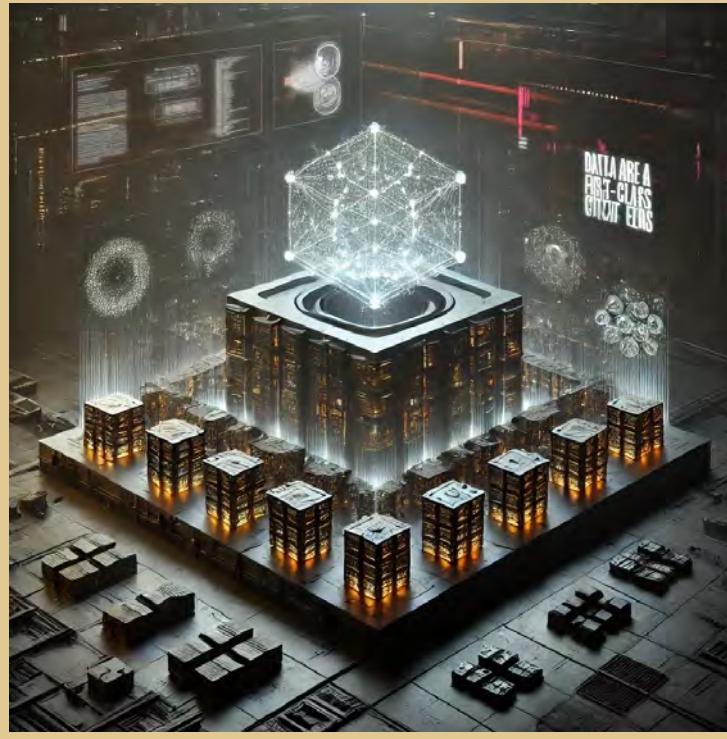
1

A paradigm change: from Project to Platforms



2

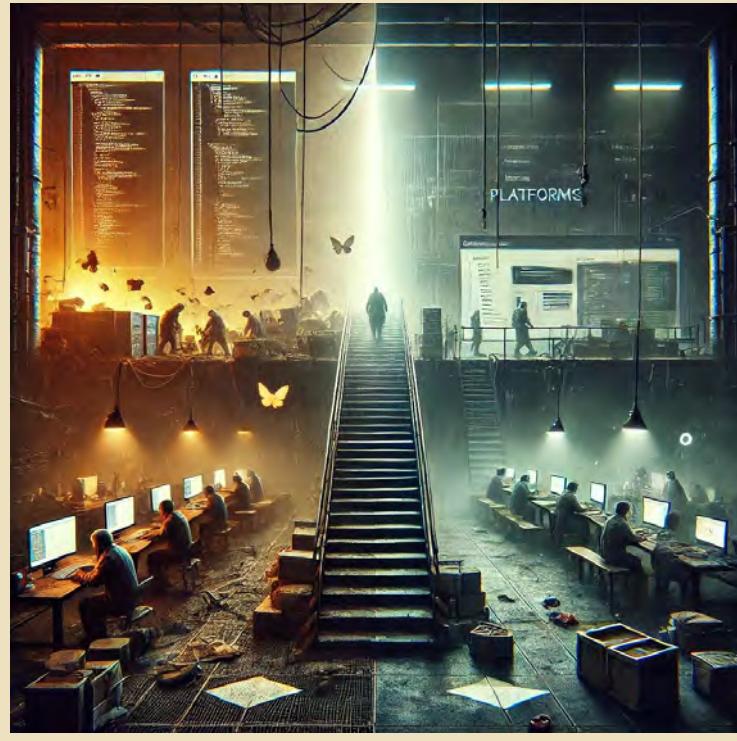
Platform Engineering is an holistic view to Digital Application: not only Infra & DevOps



# Takeaways

1

A paradigm change: from Project to Platforms



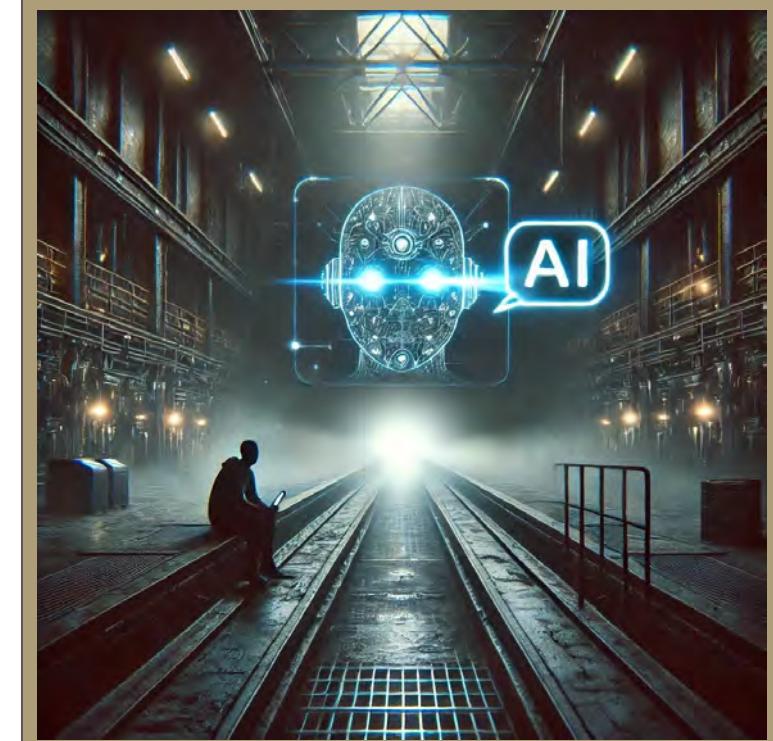
2

Platform Engineering is an holistic view to Digital Application: not only Infra & DevOps



3

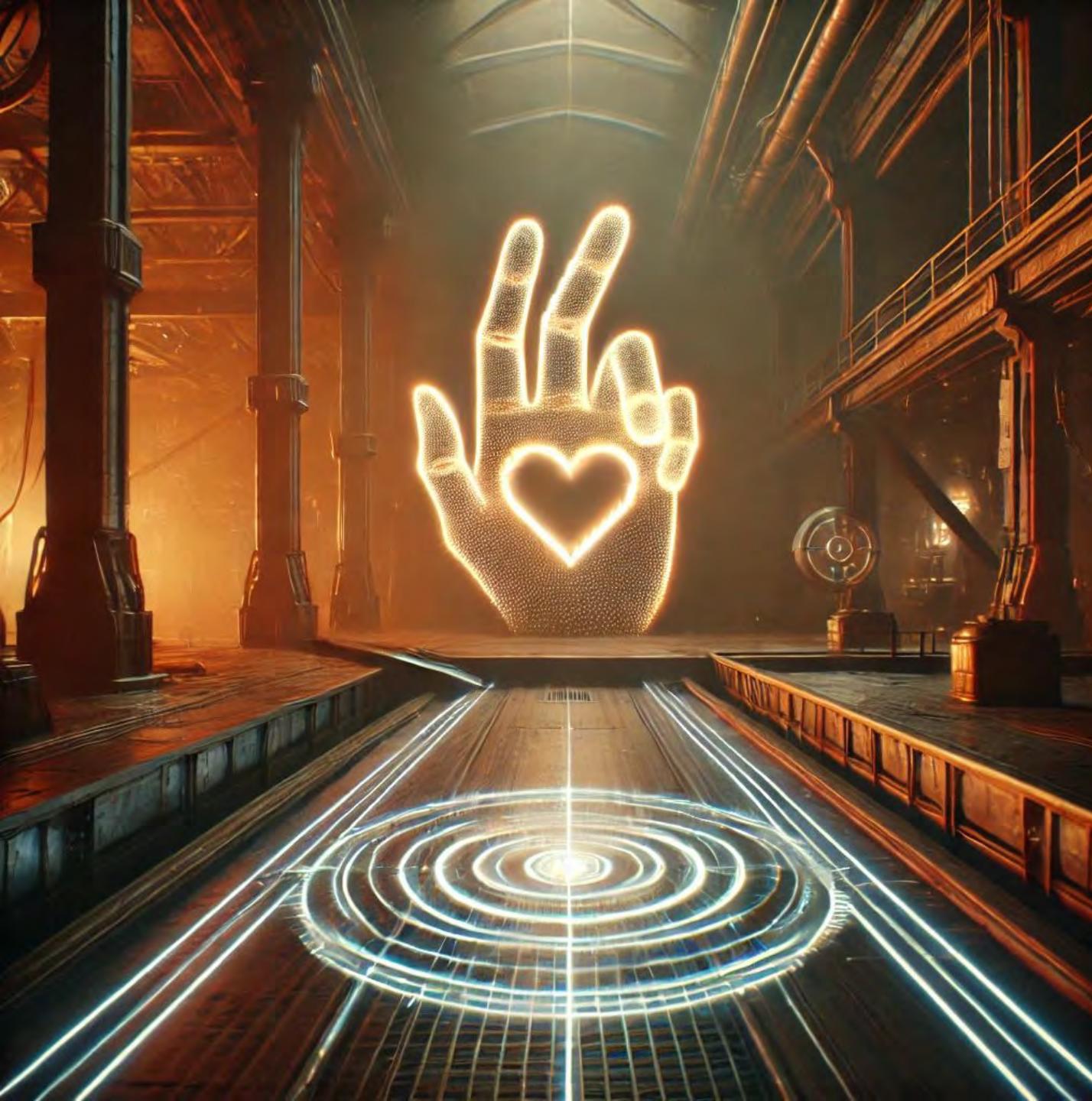
Simplify DevEx by bringing it to a conversational level using AI engines





# Credits

- Platform Engineering ++ representation schema | Giulio Roggero, CTO @ Mia-Platform
- First presentation of the topic | Giulio Roggero's Keynote @ Platmosphere 2024
- An holistic proposal for Internal Developer Platforms named Platform Engineering ++ by Giulio Roggero in CNCF Tag App Delivery Blog



# Thank you!

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questions and keep in touch by  
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