Arnold Bechtoldt

Building large-scale Internal Developer Platforms: Core Principles

Arnold Bechtoldt

- >10 years in IT Engineering
- Systems, Software & Architecture
- Networking, Speaker
- Design, #wasmitholz
- Outdoor sports (MTB/Hiking/Motorcycling/Sailing)

RTL

Our Content.
The full programme.

📺 TV channels

📖 print magazines

📻 radio stations

🖥 digital offerings

RTL+

and the digital
entertainment platform RTL+

RTL   Brigitte   V•X

TOGGO   CHEFKOCH   Gala
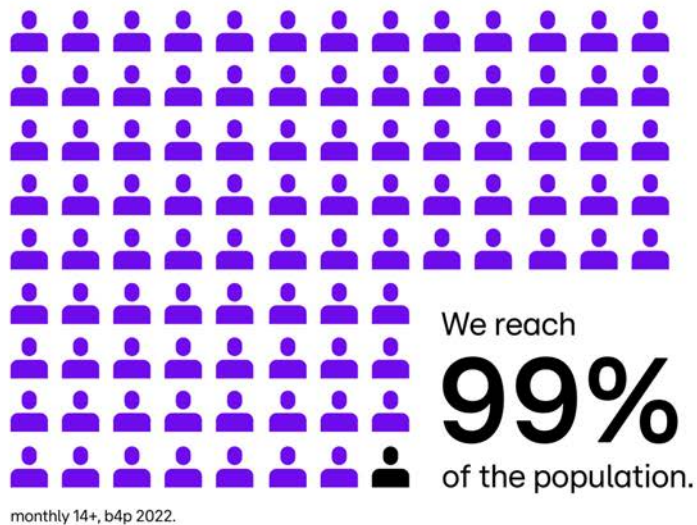
stern   GEO   NITRO.

Capital   wetter.de   ntv

104.6 RTL
BERLINS HITRADIO   exp.

Our readers, our listeners, our viewers.

We reach

99%
of the population.

monthly 14+, b4p 2022.

RTL +

4.3 million subscribers

60 million viewers
monthly viewers 3+, AGF 2022

23 million readers
monthly net reach, b4p 2022

56 million listeners
monthly listeners 14+, MA Audio 2022 II

727 million visits
monthly visits, IVW Digital 01-12/2022

12 million podcast plays
monthly via all platforms

Our colleagues.

8000
colleagues

44% men

56% women
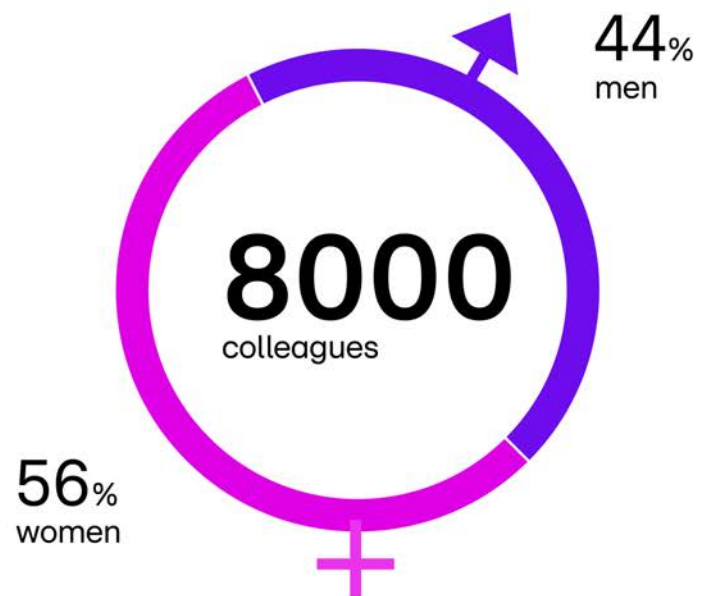
→ Average age of 40 years

→ 57 nationalities

Mission of RTL Data

For our
Daily Business
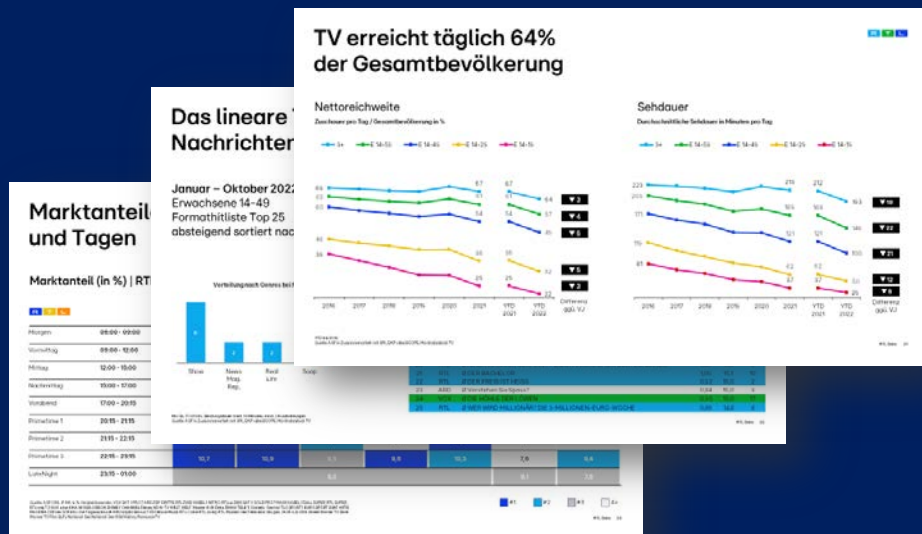
For our
End Customers

Search

Personalization

Recommendation

RTLdata.de

We are hiring Cloud Platform Engineers!

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Disclaimer

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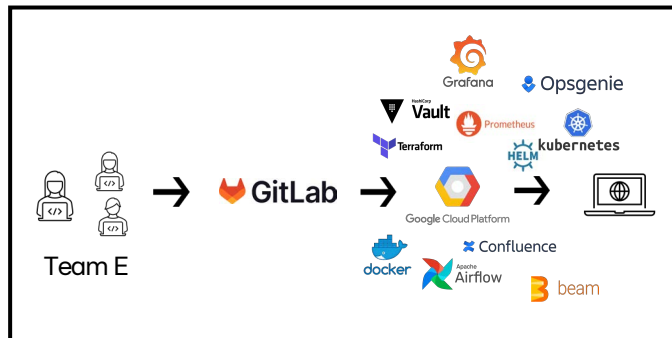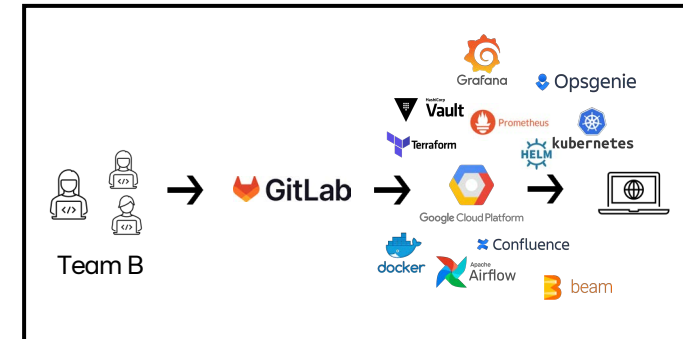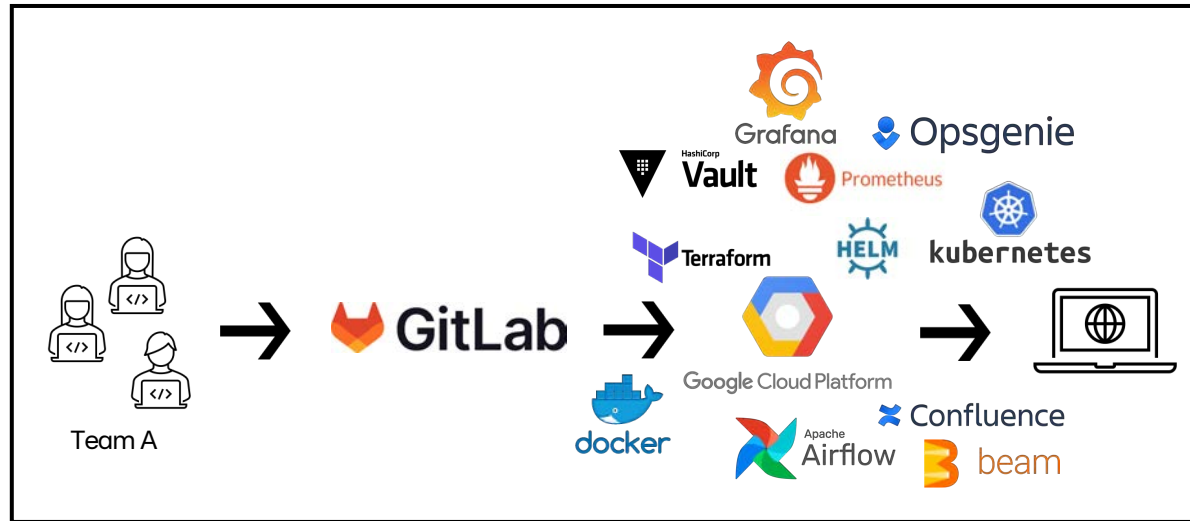# Intro

Deploying an application..
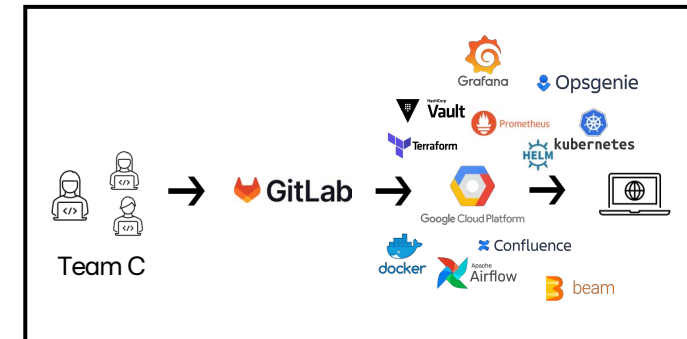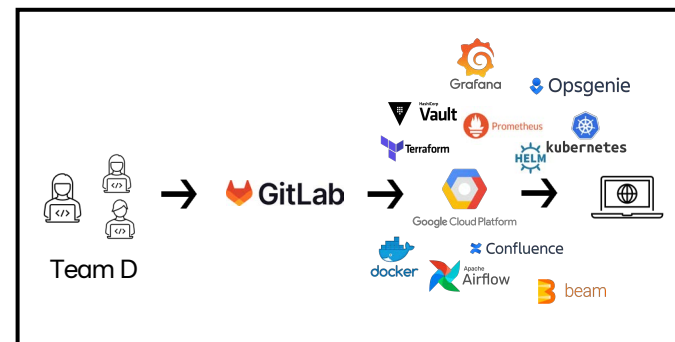
Internal Developer Platforms (IDPs)

... are **configured by Ops teams and used by developers**. Ops teams specify what resources start up with what environment or at what request. They also set **base-line templates** for application configurations and govern permissions. This helps them to **automate recurring tasks** such as spinning up **environments and resources** and makes their setup easier to maintain by **enforcing standards**. Developer teams gain **autonomy** by changing configurations, deploying, spinning up fully provisioned environments, and rollback. IDPs can be built or bought.

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Platform Products & Services

- Cloud Accounts (GCP/AWS/Azure)

- Git + CI/CD (IaC/Source Code)

- Base Infrastructure (IaaS)

- Identity and Access Management (IAM)

- Application Runtime (K8s/Docker/Config/Secrets)
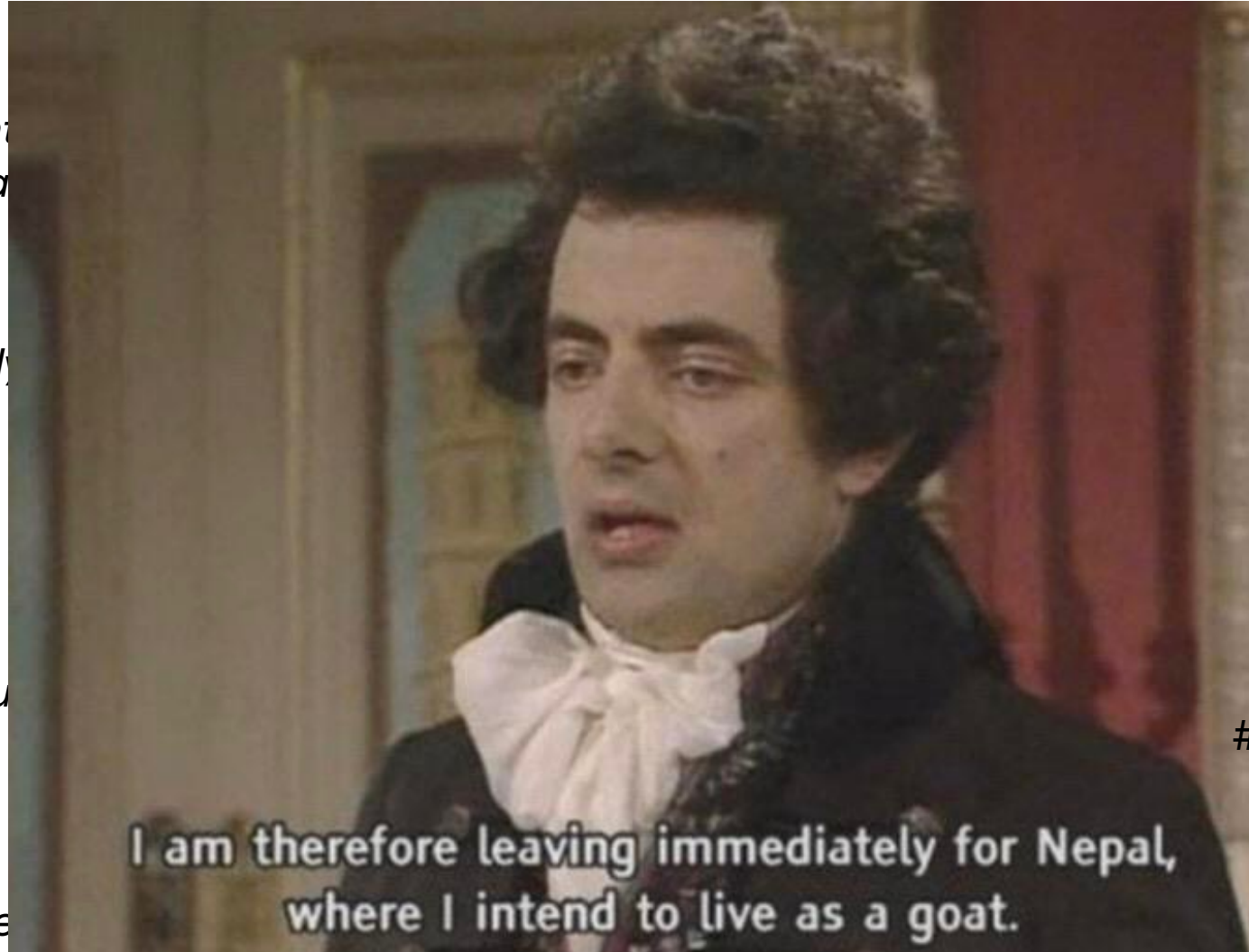
- Monitoring & Alerting

- Backup & Recovery

Job done.

Party now?

Some time later...

Welcome to
Day 2 Operations.

It's not only about tech

Technology

Product

IDP

People

Stakeholders

C-Level Mgmt

Controlling

Engineers

Product Owners

Analysts, Researcher & Scientists

Internal Developer Platform

Senior/Tech Leads

Mid-Level Mgmt/ Teamleads

Architects

Security

Legal

Daily Considerations

Innovation
Self Service
Time to Market
Autonomy
Flexibility
Creativity

Stability
Automation
Maintainability
Security/Compliance
Standardization
Cost Efficiency
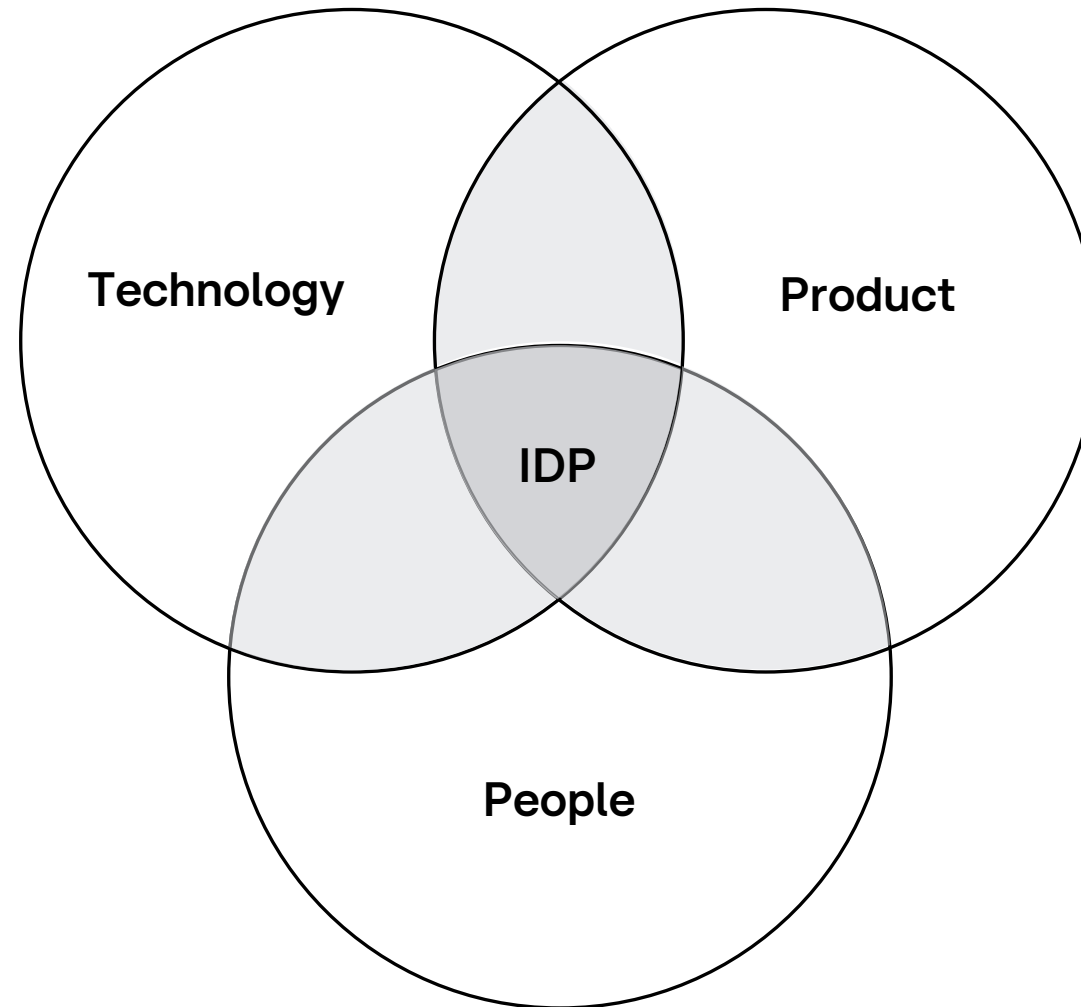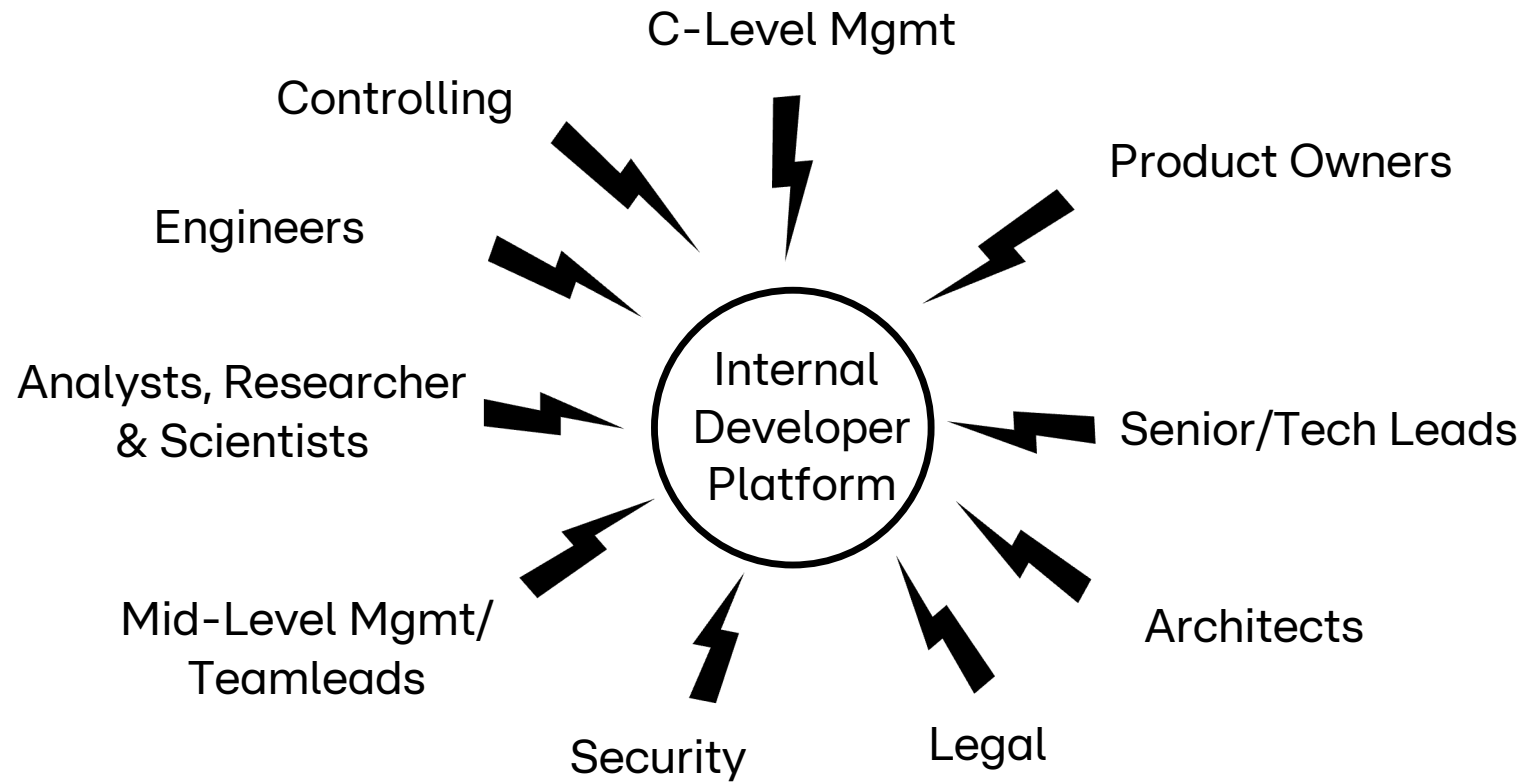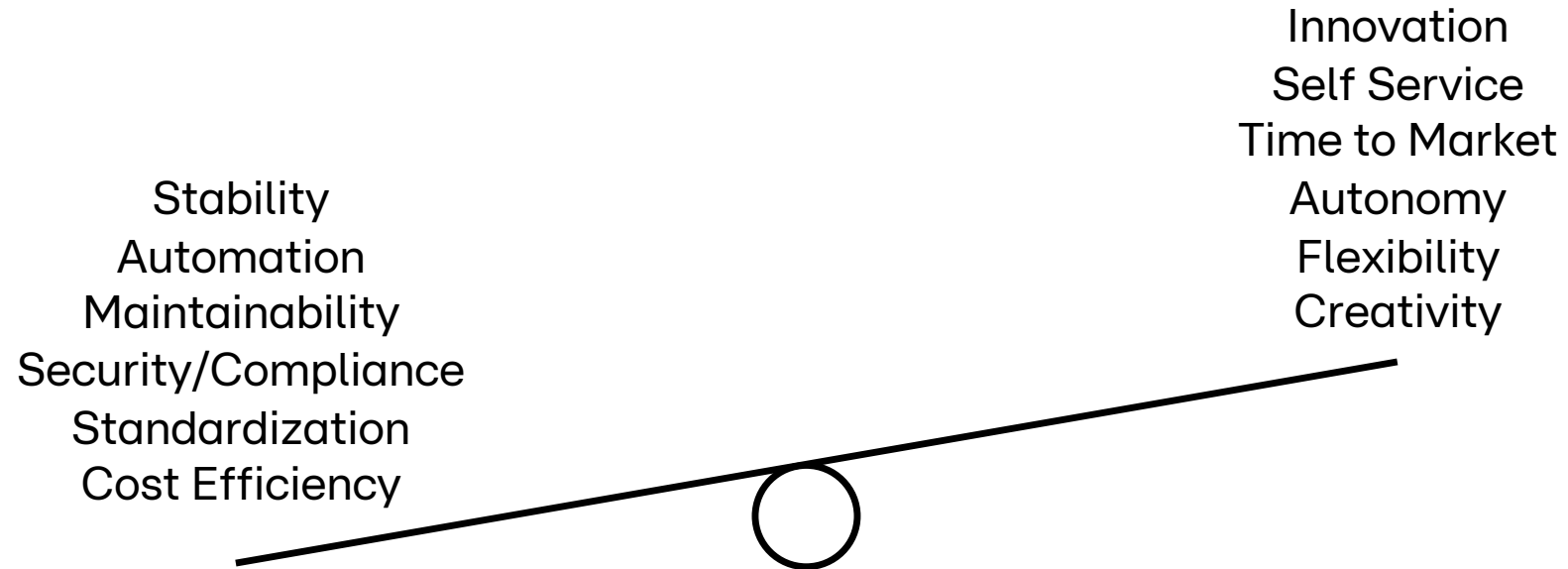
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Core Principles
at RTL Data

Platform as product

Autonomous
Product Teams

Decentralized but highly standardized

CMDB as single source of truth

Highly opinionated & integrated toolstack

... but options to leave the paved road

Listen & Inform

tl;dr

1. Developers are customers.

2. Platforms are products.

3. Platforms require product development.

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Closing

Thank you!

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