



Arnold Bechtoldt

Building large-scale Internal Developer Platforms: Core Principles

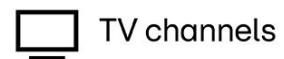
Arnold Bechtoldt

R T L

- >10 years in IT Engineering
- Systems, Software & Architecture
- Networking & Speaker
- Design
- Outdoor sports



Our Content. The full programme.



TV channels



print magazines



radio stations



digital
offerings

R T L +

and the digital
entertainment platform RTL+

RTL

Brigitte

VOX

TO GO

CHEFKOCH

Gala

stern

GEO

NITRO.

Capital

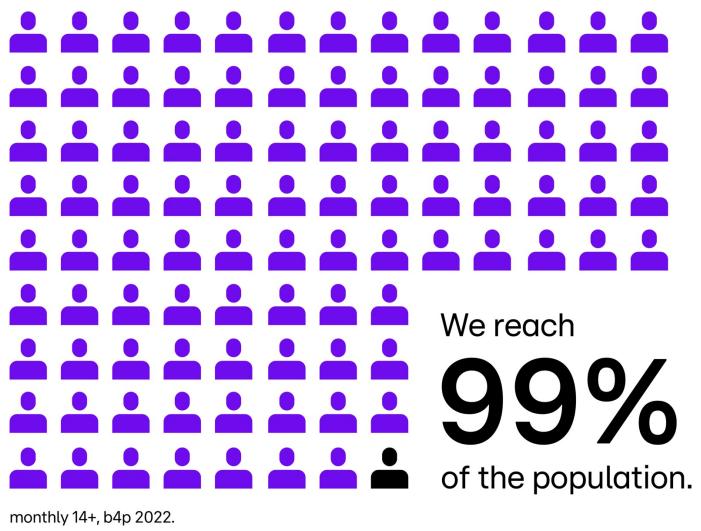
wetter.de

ntv

104.6 RTL
BERLINS HITRADIO

exp.

Our readers, our listeners, our viewers.



R T L +

4.3 million
subscribers

 **23** million
readers
monthly net reach,
b4p 2022

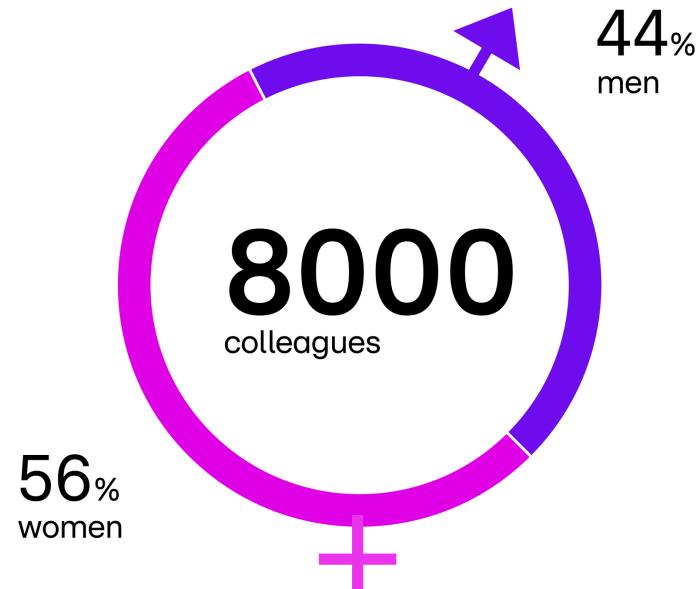
 **727** million
visits
monthly visits, IVW Digital 01-12/2022

 **60** million
viewers
monthly viewers 3+,
AGF 2022

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

 **12** million
podcast plays
monthly via all platforms

Our colleagues.



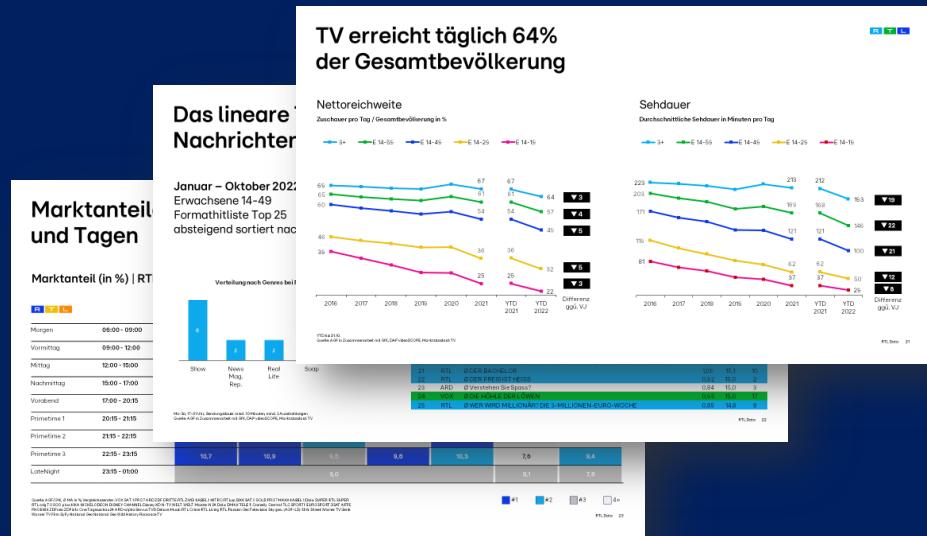
→ Average age of
40 years

→ **57**
nationalities

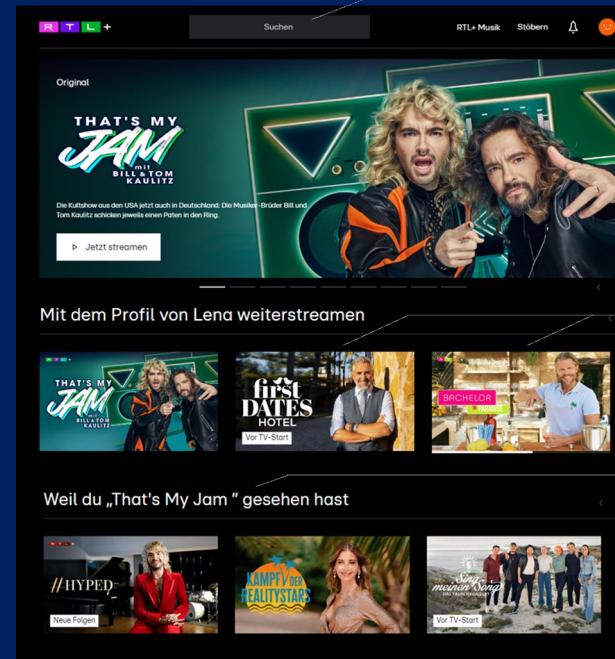


Mission of RTL Data

For our **Daily Business**



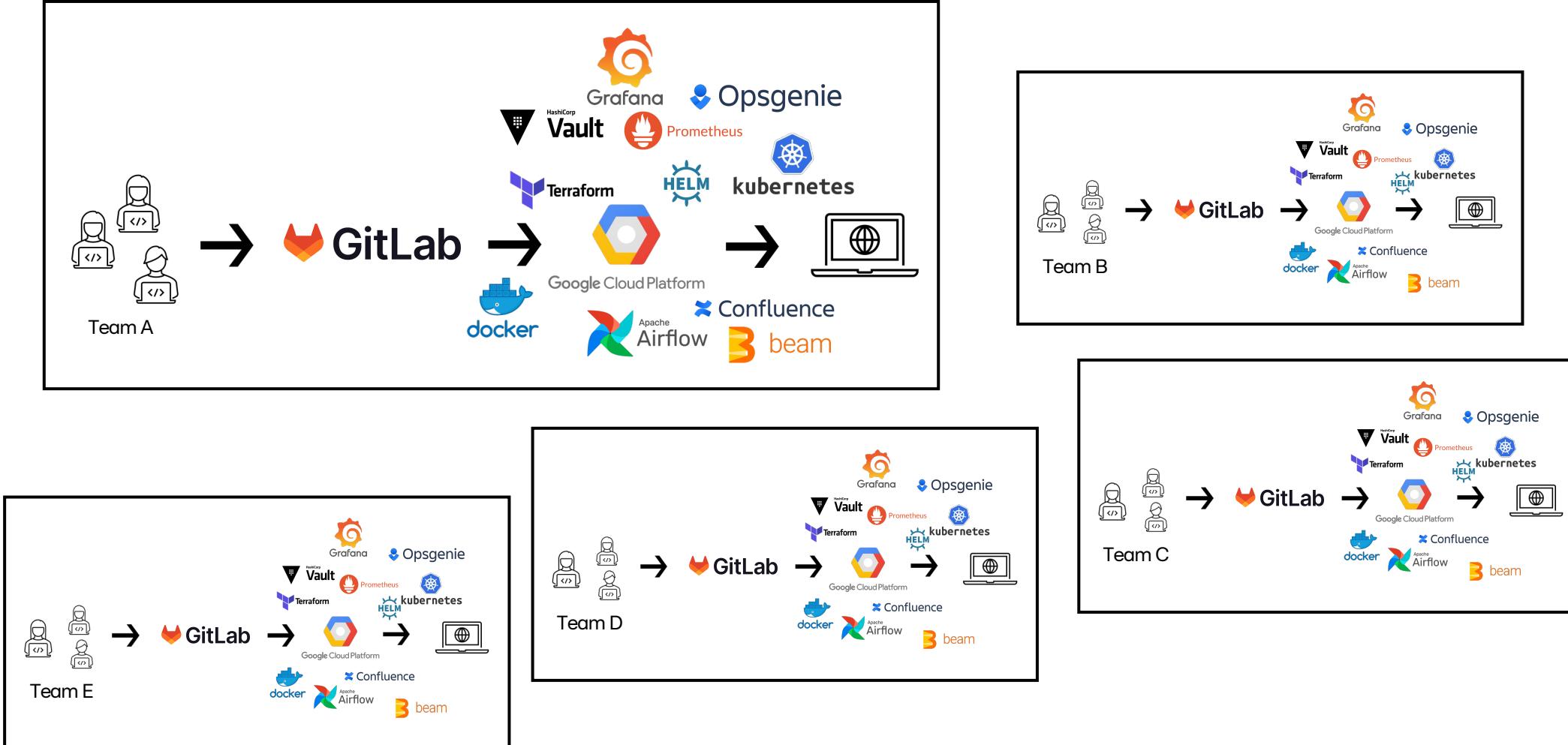
For our End Customers



Disclaimer

Intro

Deploying an application..



5x1 – Solution or Problem?

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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101 Building an Internal Developer Platform

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...



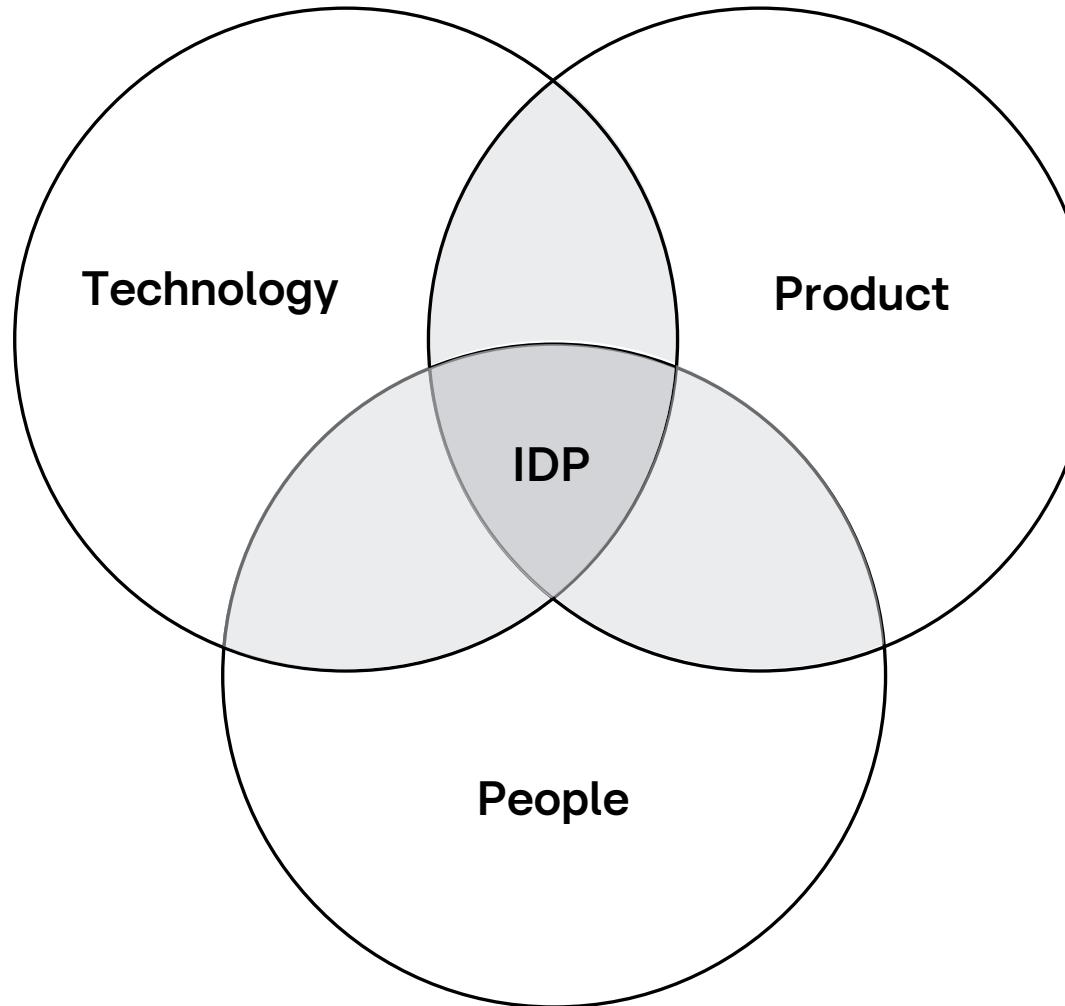
Welcome to Day 2 Operations.

Common Pitfalls

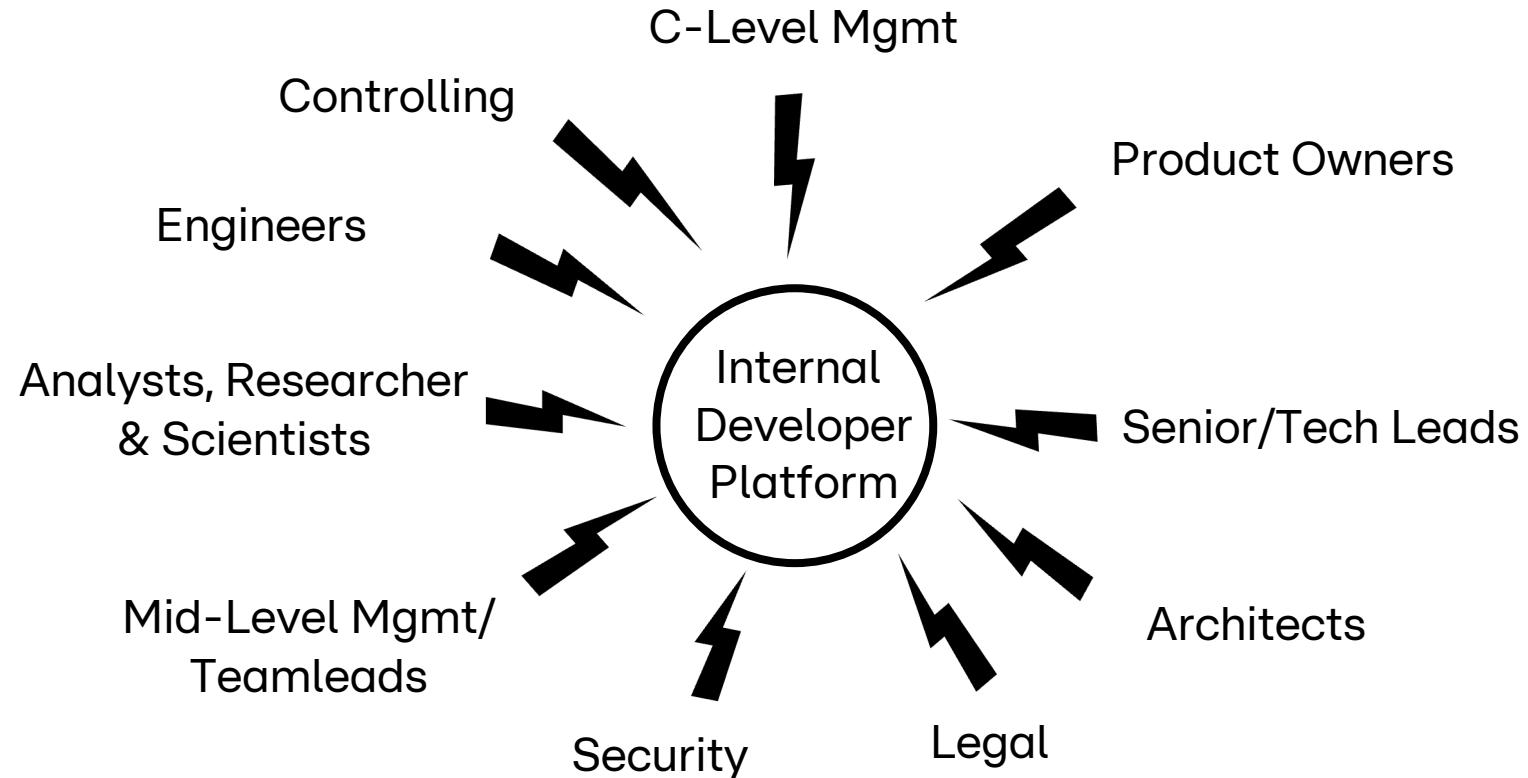
- too little/much self service
- too many/unused features
- too late
- too expensive
- too complicated
- too little information & communication



It's not only about tech

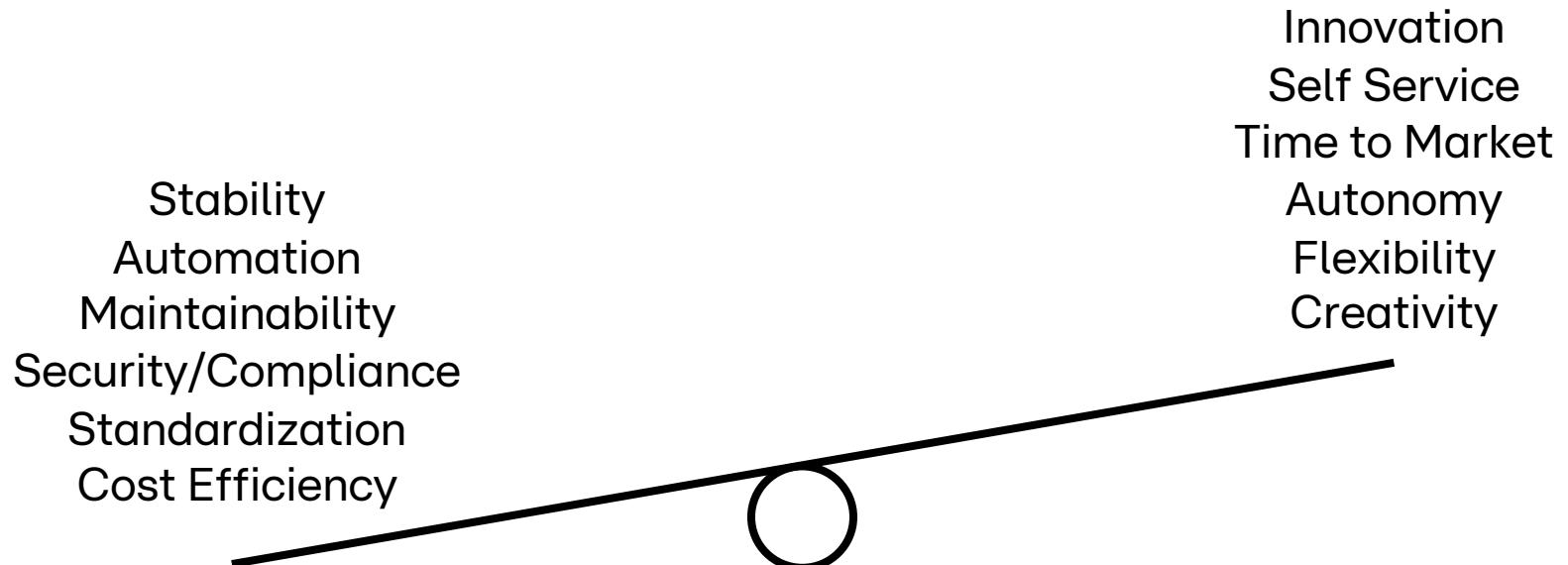


Stakeholders



Daily Considerations

R T L



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Core Principles at RTL Data



Autonomous Product Teams



Platform as
product



Decentralized
but highly
standardized



Highly opinionated & integrated toolstack

... but options to leave the paved road



Communicate.
Communicate.
Communicate.
Recover.
Communicate.

tl;dr

- 1. Platforms are products.**
- 2. Developers are customers.**
- 3. Better platform products,
happier developers.**

5/5

Closing

We are hiring!

- (Senior) Platform Engineer
- (Senior) Data Engineer
- (Senior) Data Scientist
- (Senior) Data Analyst
- (Senior) Product Owner/Manager
- ...

Find us at rtldata.de!



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Thank you!