

Meetup Köln

Innovation durch Integration: Platform Engineering im Fokus



inovex

Standorte



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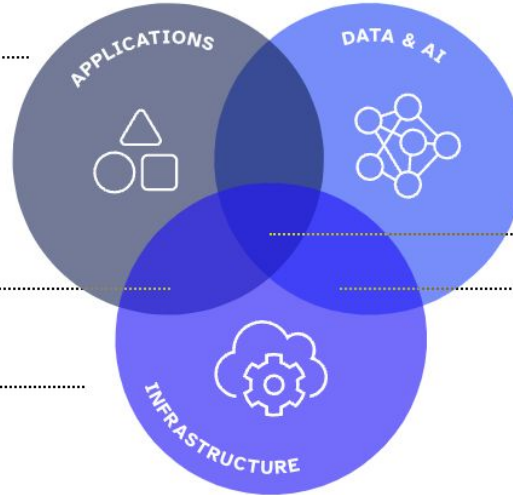
M



Unsere Leistungen

- > UI/UX
- > Mobile Apps
- > Embedded Systems
- > Web Frontend
- > Desktop

- > Backend
- > Kubernetes
- > IT Engineering



- > Business Intelligence
- > Artificial Intelligence
- > Data Science
- > IoT
- > DevOps
- > Cloud
- > Security
- > Platform Engineering
- > Data Engineering

Strategisch

- > Transformationsberatung
- > Daten- und KI-Strategie
- > Cloud-Strategie
- > Product Discovery
- > Proof of Concept
- > Change Management

Methodisch

- > Agile
- > User Centric
- > Quality focused
- > Security focused
- > Trainings
- > Workshops

Aktuelle Schwerpunkte

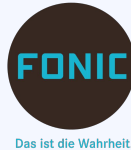
- > Künstliche Intelligenz
- > Generative AI
- > Android Automotive
- > E-Health & Medical Software
- > Smart Energy
- > Platform Engineering

Technologiepartner

- > AWS
- > billwerk
- > Cloudera
- > CNCF
- > Confluent u.v.m.

Branchen & Brands – von Start-up bis Global Player

- Automobilbauer und Zulieferer
- Industrie
- Energie und Utilities
- Handel
- Lebensmittel
- ITK / Software / Medien / Verlage
- Verkehr, Logistik und Tourismus
- Finance
- Gesundheit und E-Health
- Versicherungen
- Auditierung, Consulting, Zertifizierung
- Wissenschaft, Forschung und Bildung



Innovation durch Integration: Platform Engineering im Fokus

18:30 Uhr Platform Engineering: Die DevOps Evolution? (Pascal Petsch, Philipp Schmitt)

19:15 Uhr Pause mit Essen & Gesprächen

19:45 Uhr Platform Engineering Diskussion

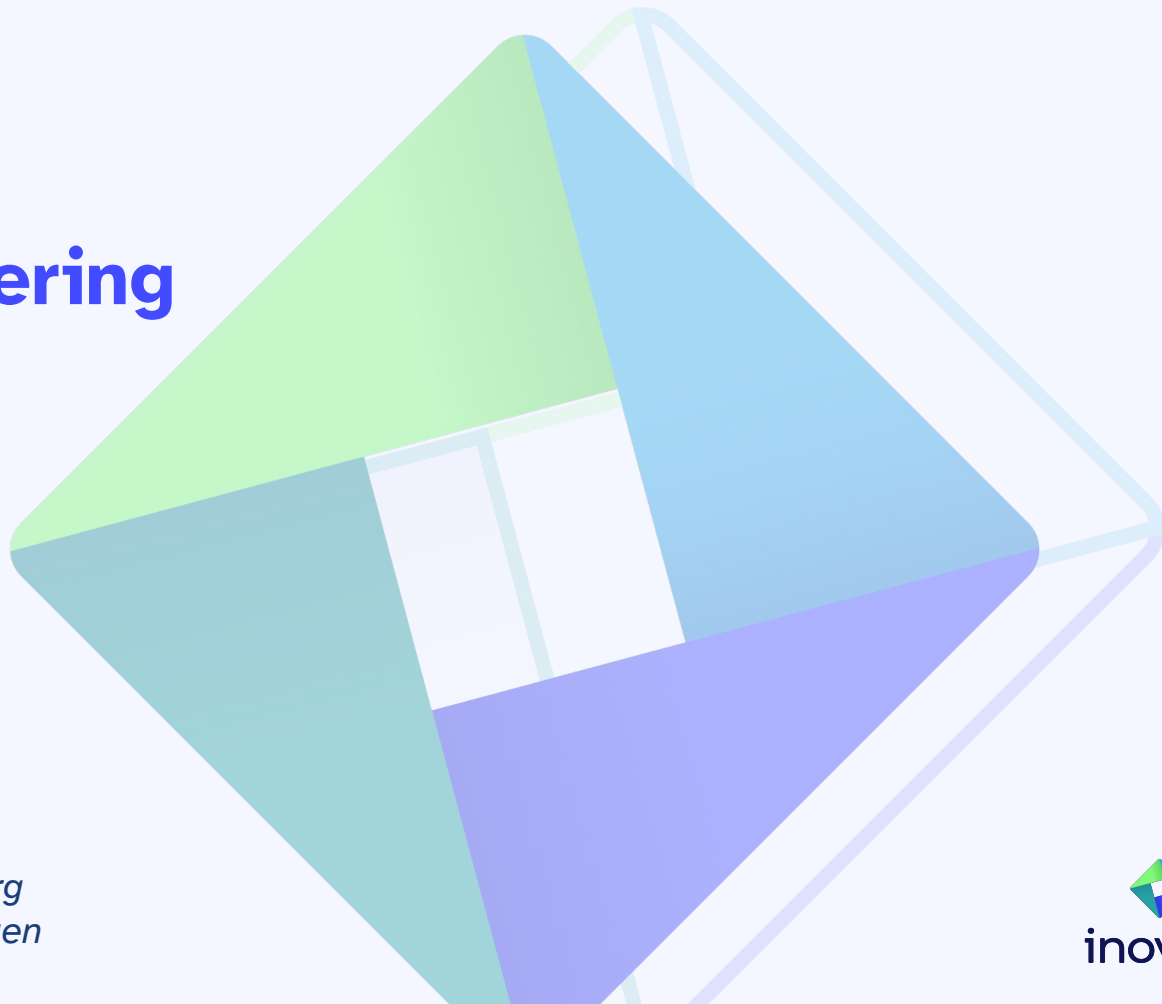
20:30 Uhr Abschluss und Zeit für weitere Gespräche

Platform Engineering

The DevOps Evolution?

Team inovex

Karlsruhe · Köln · München · Hamburg
Berlin · Stuttgart · Pforzheim · Erlangen



Who we are



Pascal Petsch

Cloud Platform Architect & Innovation Lead



Philipp Schmitt

Cloud Platform Engineer & Kubernetes Trainer

Agenda

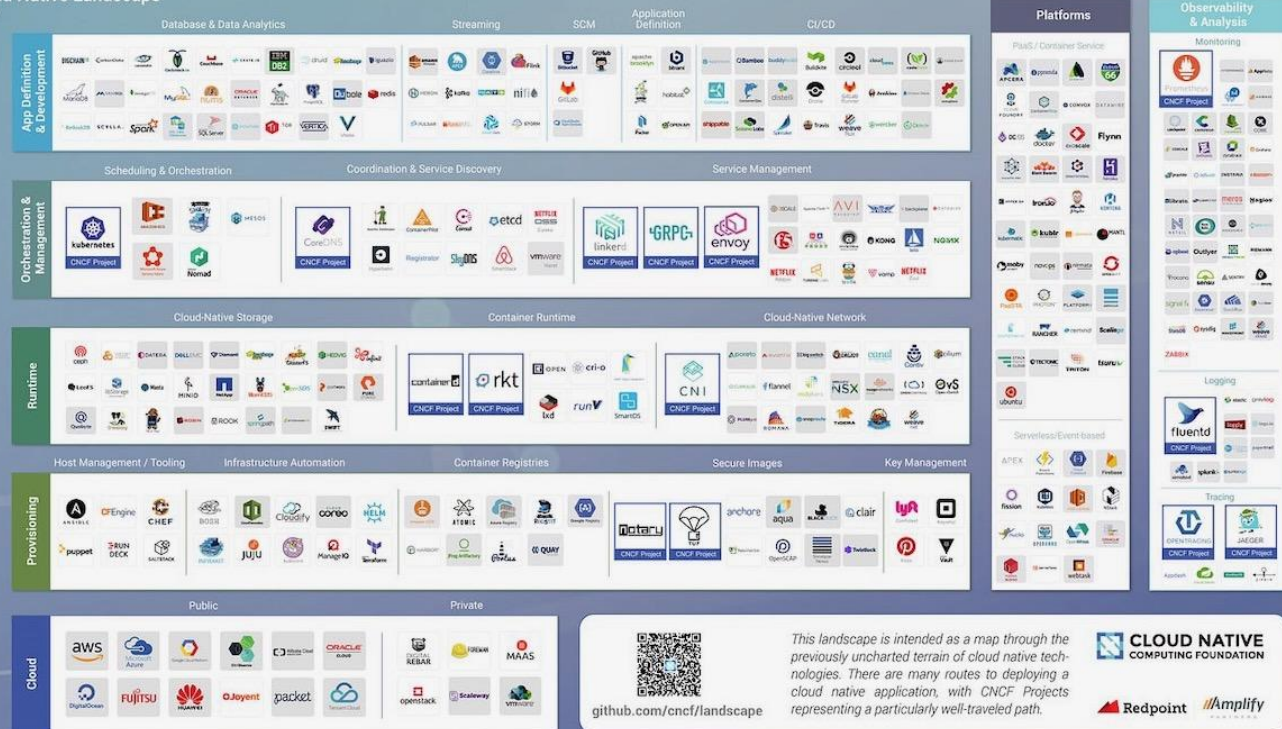
- Motivation
- Internal Developer Platforms
- IDP Buildings Blocks
- DevOps and Platform Engineering
- Outlook



Motivation

Cloud Native Landscape

v0.9.9



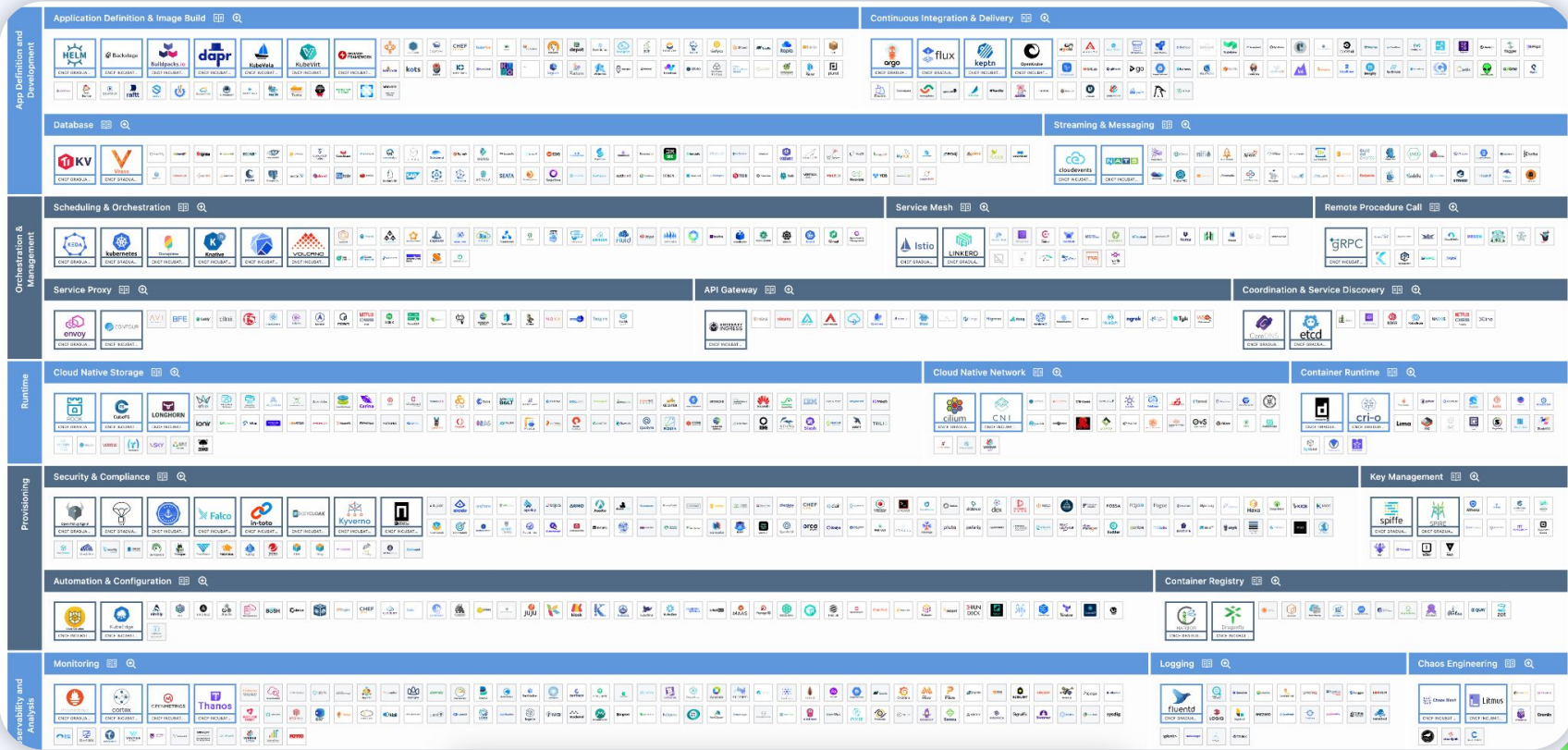
github.com/cncf/landscape

Greyed logos are not open source

This landscape is intended as a map through the previously uncharted terrain of cloud native technologies. There are many routes to deploying a cloud native application, with CNCF Projects representing a particularly well-traveled path.

CLOUD NATIVE
COMPUTING FOUNDATION

Redpoint **Amplify**



Challenges of many DevOps Teams



Overwhelming Cognitive Load

Teams need to design and operate their own workflows across multiple domains



Increased Complexity

New requirements for AI, IoT and global scalability raise new challenges

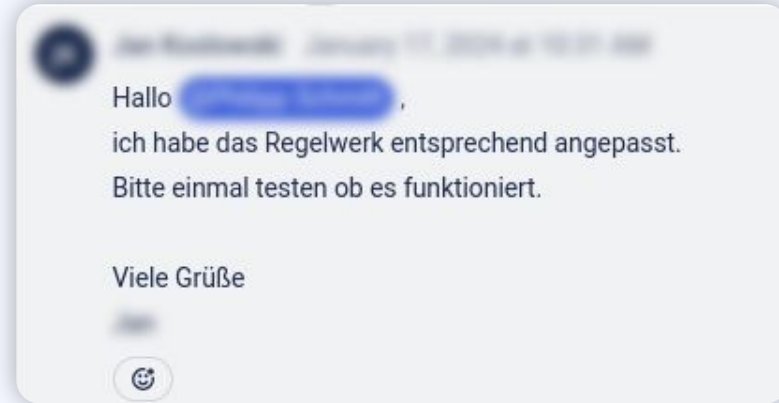


Security & Governance

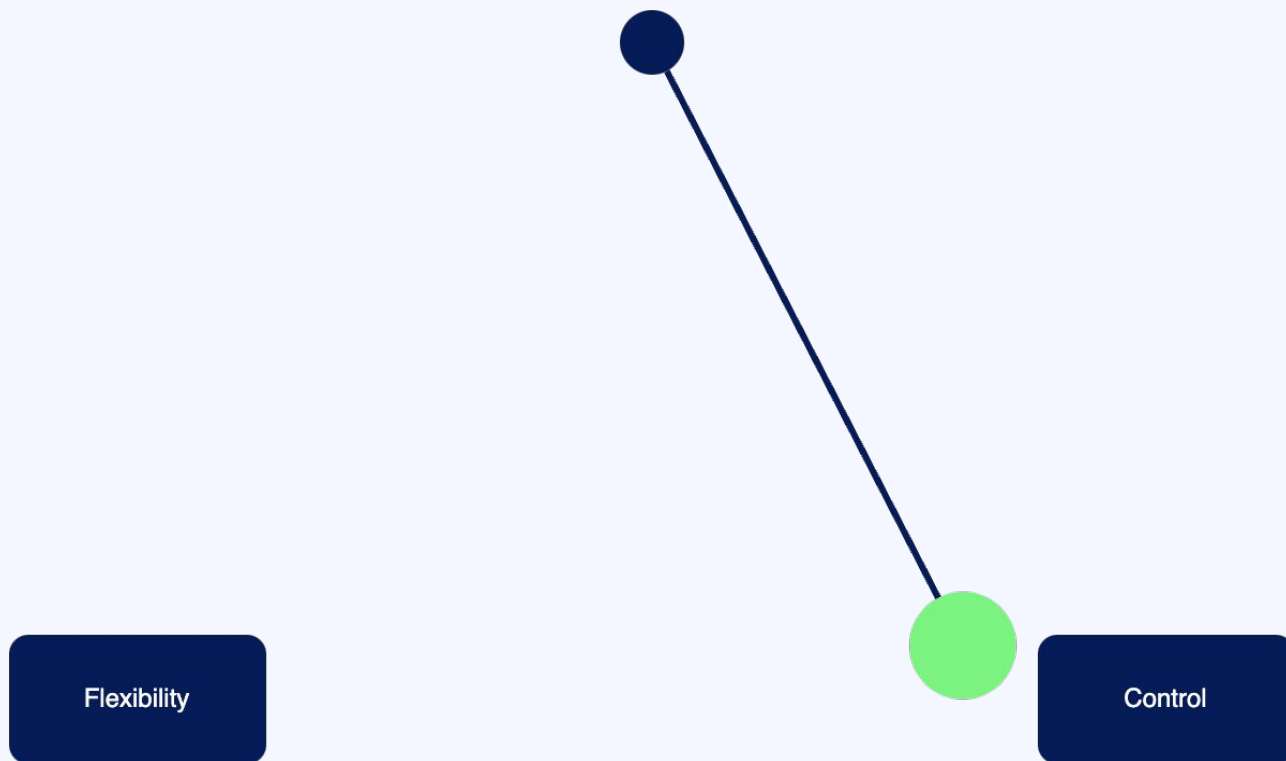
Ensuring that policies and requirements are met is challenging in a heterogeneous infrastructure

**Everything was
better before...**

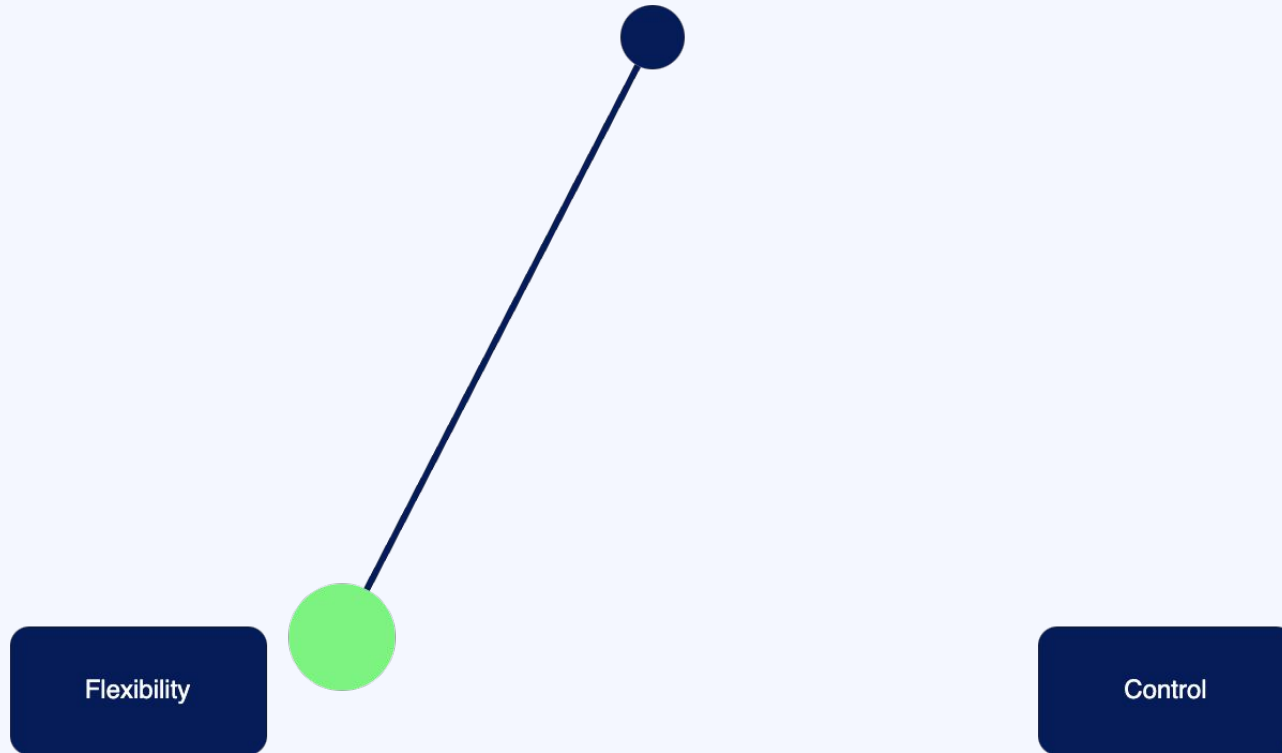
...really?



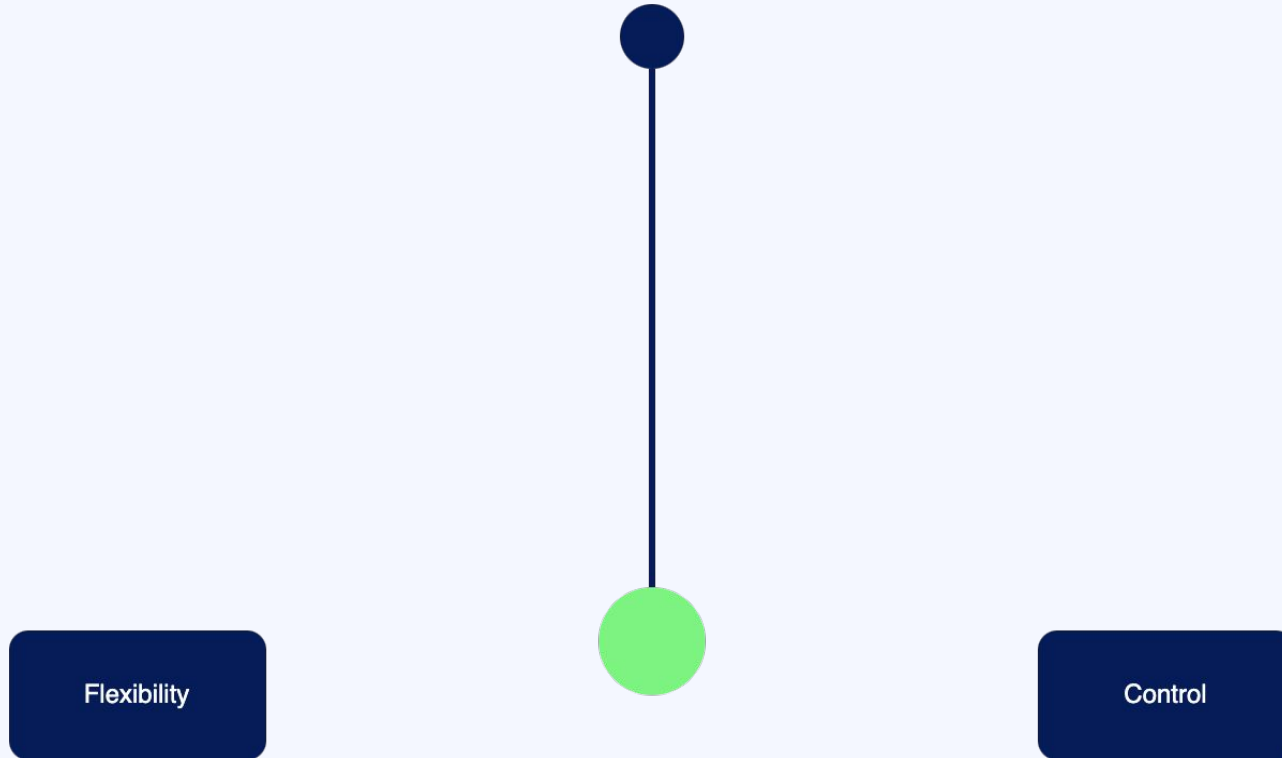
“Traditional IT”



DevOps



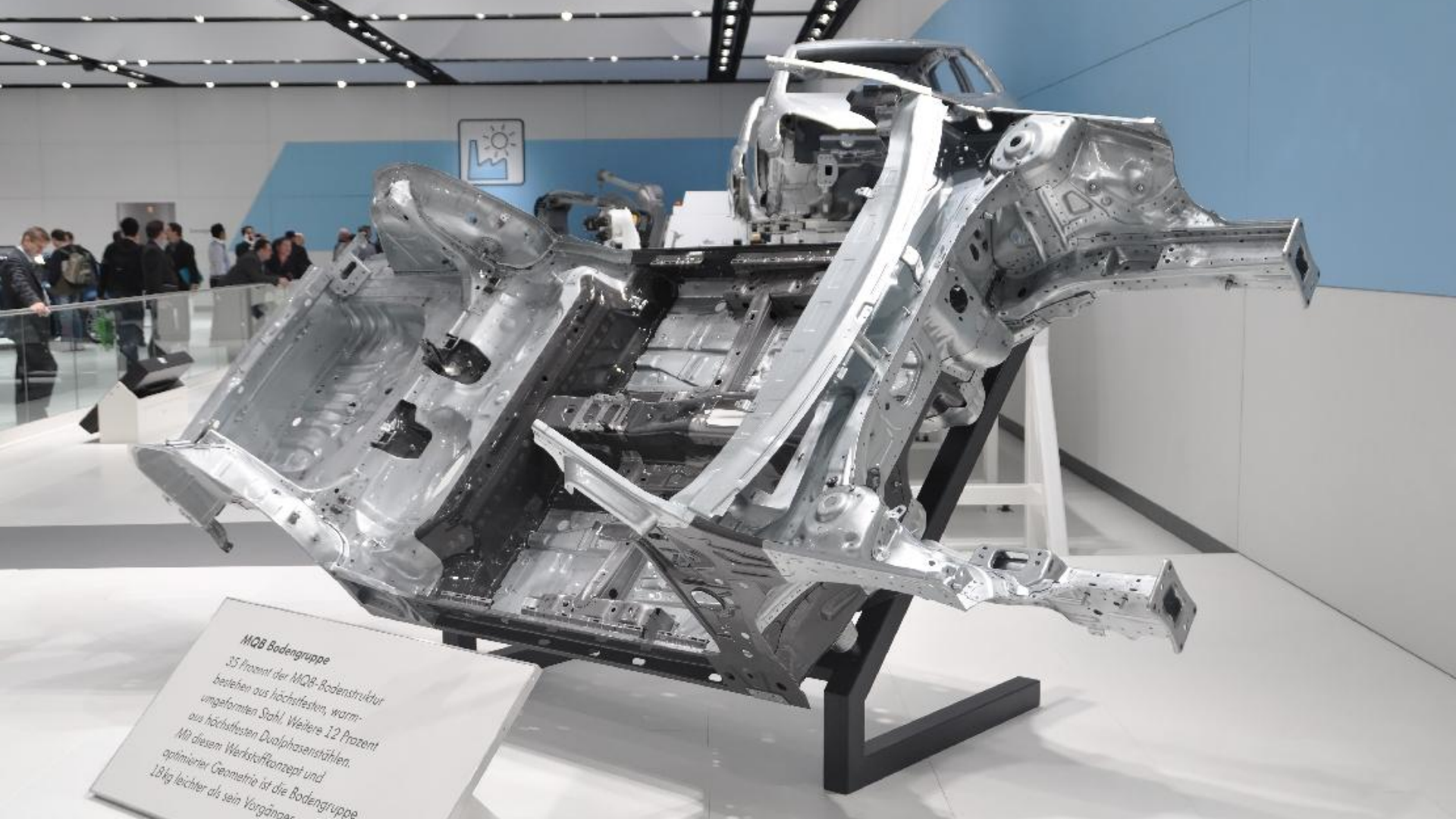
Platform Engineering



**Platforms come in
all shapes and sizes**







MQB Bodengruppe

35 Prozent der MQB-Bodenstruktur
bestehen aus höchstfesten, warm-
umgeformten Stahl. Weitere 12 Prozent
aus höchstfesten Dualphasenstählen.
Mit diesem Werkstoffkonzept und
optimierter Geometrie ist die Bodengruppe
18 kg leichter als sein Vorgänger.

a platform is a
product that **serves** or
enables other
products and services

a platform that **enables
developers** is called
**“Internal Developer
Platform”**

Internal Developer Platform (IDP)



Internal

Targeted specifically to the needs of your internal users only



Developer Experience

Centralize access points for documentation, support and tools



Compliance

Built in mechanisms to ensure your organizations rules and standards by default



Paved Roads

Leverage best practices by providing standardized solutions



Self-Service Catalog

Aligned toolchains for the Software-Development-Lifecycle and beyond - accessed via self-service

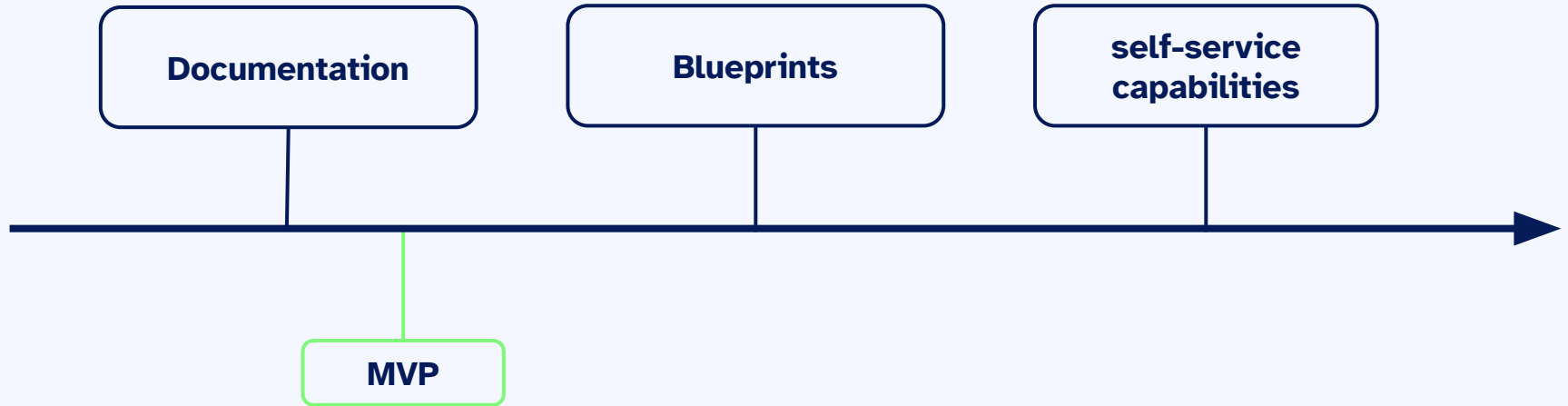


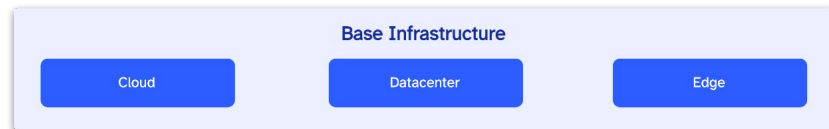
Consulting & Training

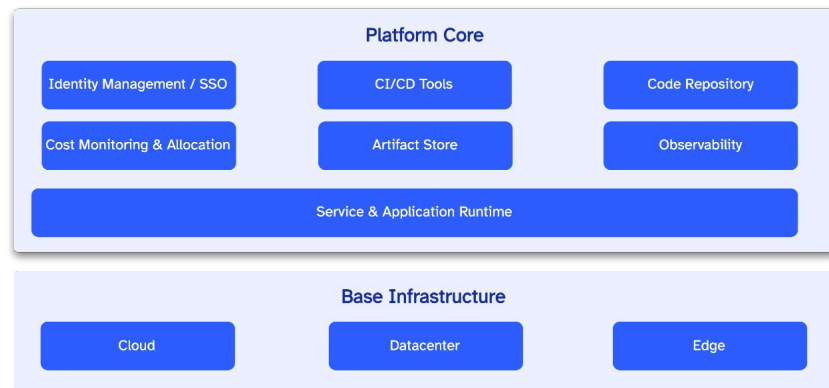
Enable your engineering teams with comprehensive consulting & training

Building Blocks of an Internal Developer Platform

Platform Evolution











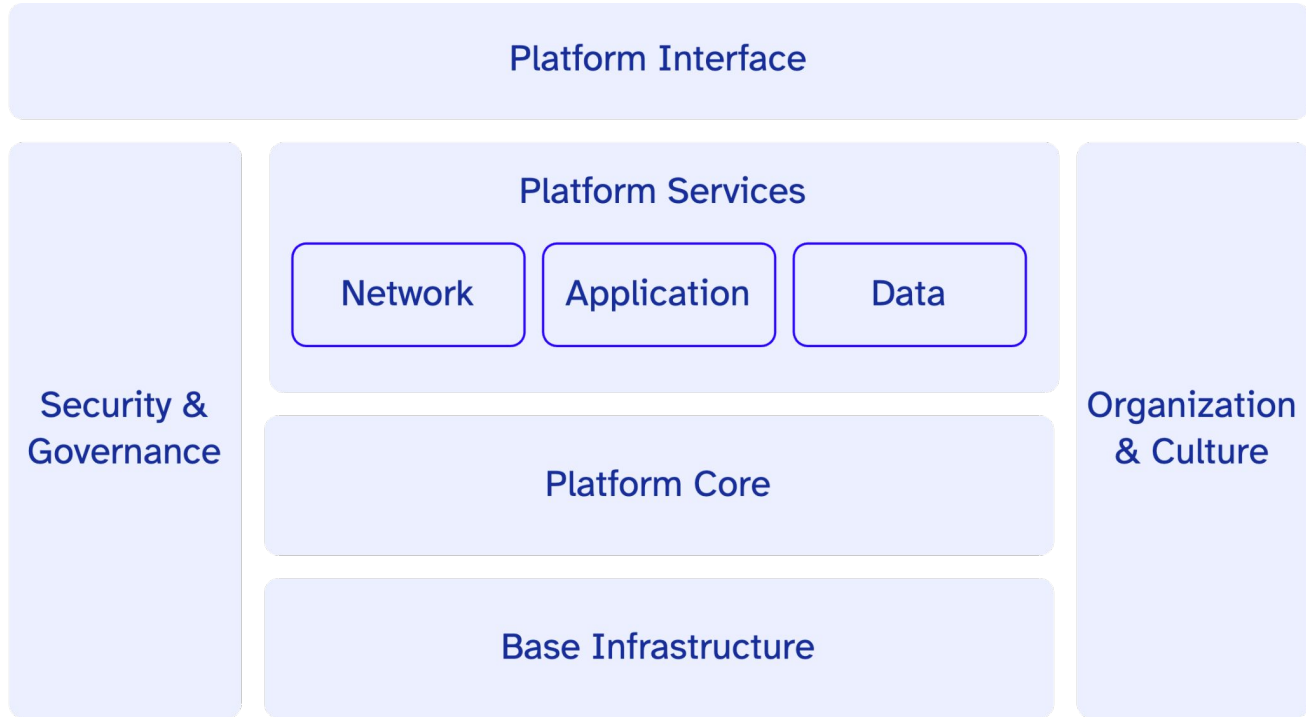






Overwhelmed yet?

Platform Components



DevOps feat Platform Engineering

Common tasks in cross-functional teams



Product Management



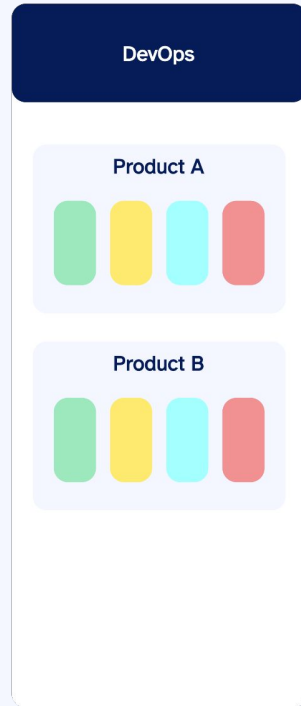
Software Development

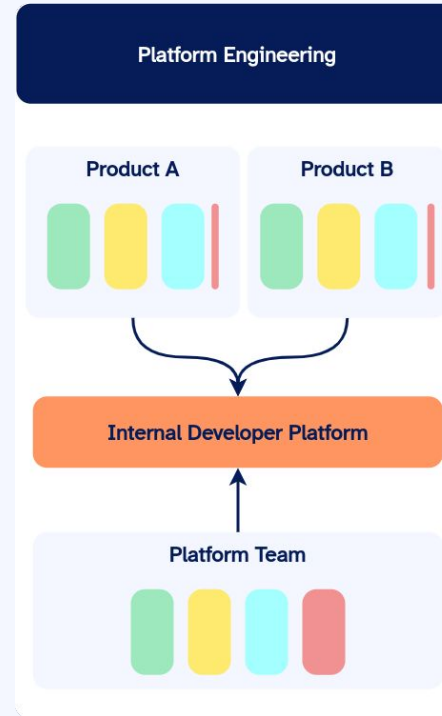
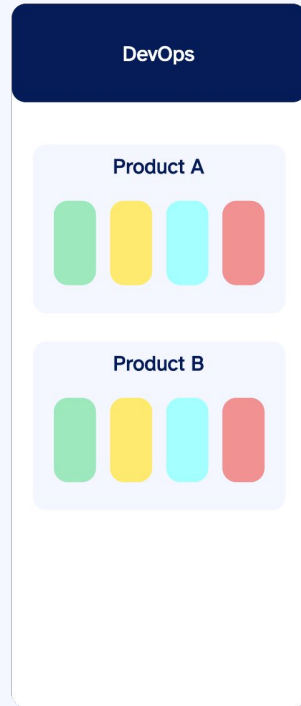


Testing



Operations





Outlook

Successfully build your IDP



Focus on common use cases

Aim for the 80% solution - there is no solution that will fit all your developers needs



Treat your platform as a product

Provide the best possible Developer Experience and measure your success



Ensure strong collaboration

Design and maintain your platform collaboratively - continuously



Build a community

Ensure your users are connected and provide various exchange formats for them collaborate independently



Discussion

Sources (Pictures)

Slide 16: viewing platform

https://de.m.wikipedia.org/wiki/Datei:Naturns_von_der_Aussichtsplattform_Unterstell.jpg

Slide 17: oil platform

https://de.m.wikipedia.org/wiki/Datei:Bohrplattform_bei_Walvis_Bay_%282017%29.jpg

Slide 18: MQB

https://en.wikipedia.org/wiki/Volkswagen_Group_MQB_platform#/media/File:Hannover-Messe_2012_by-RaBoe_233.jpg



**Um ~19:45 gehts
weiter mit dem
Panel**