



DevOps: eine Geschichte voller Missverständnisse

ATB Expertentreff, 20. September 2017



Andreas de Pretis



- Geschäftsführer 25th-floor GmbH
- rund 20 Jahre IT-Erfahrung
- spezialisierter Allrounder
- leidenschaftlicher Ops
- Coder und "Techie"
- 2003 erste Berührung mit "Agile"
- ScrumMaster & Product Owner
- Agile & DevOps Evangelist

 @adepretis

<https://www.25th-floor.com>
ad@25th-floor.com

XING, LinkedIn, GitHub & Co





Agile Software- und Produkt-Entwicklung seit 2004

10 Devs, Ops, ScrumMaster, Product Owner

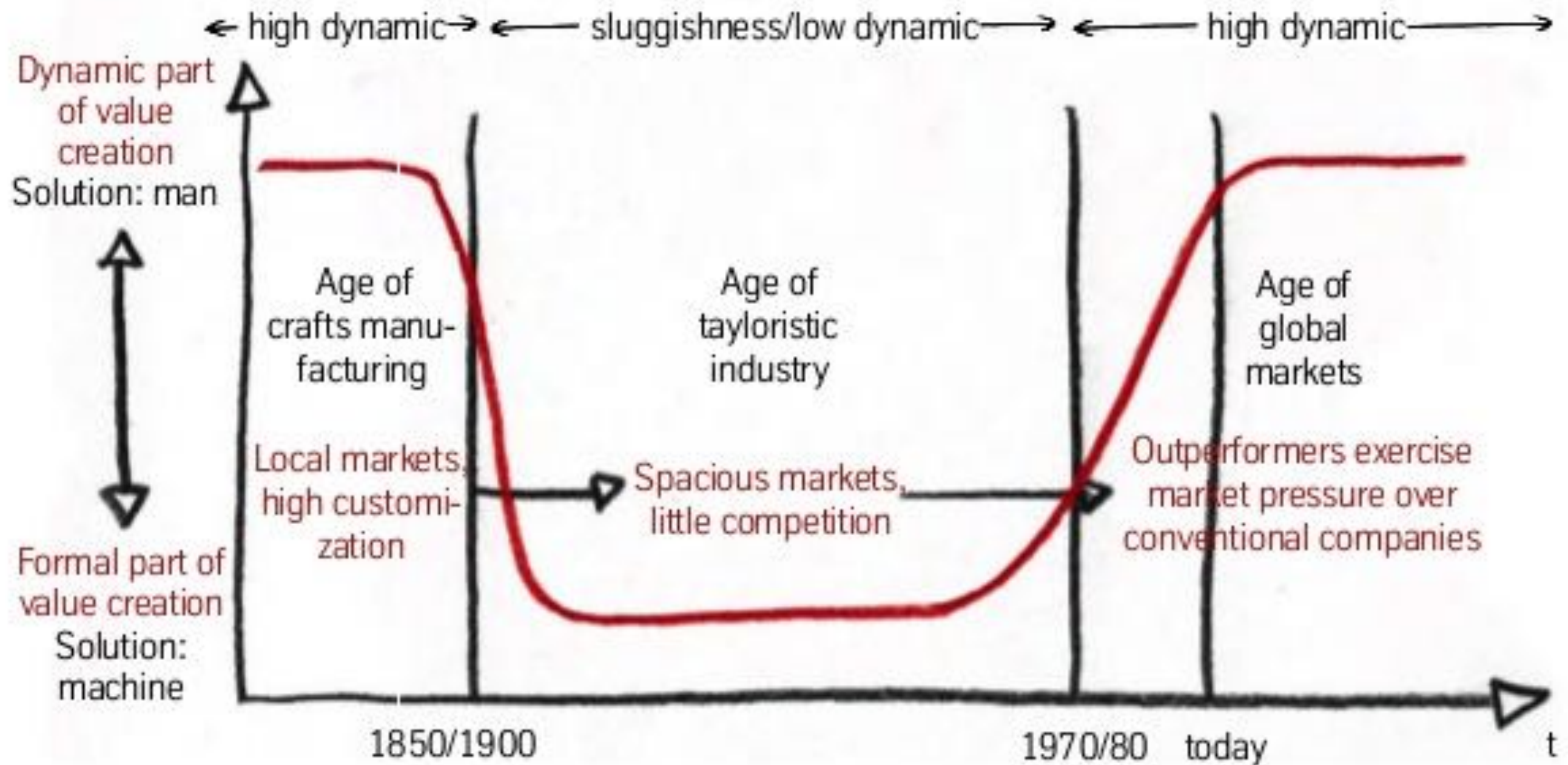
Branchenneutral, KMU und Konzernkunden

Managed Services in 3 Wiener Rechenzentren

Managed Cloud Services

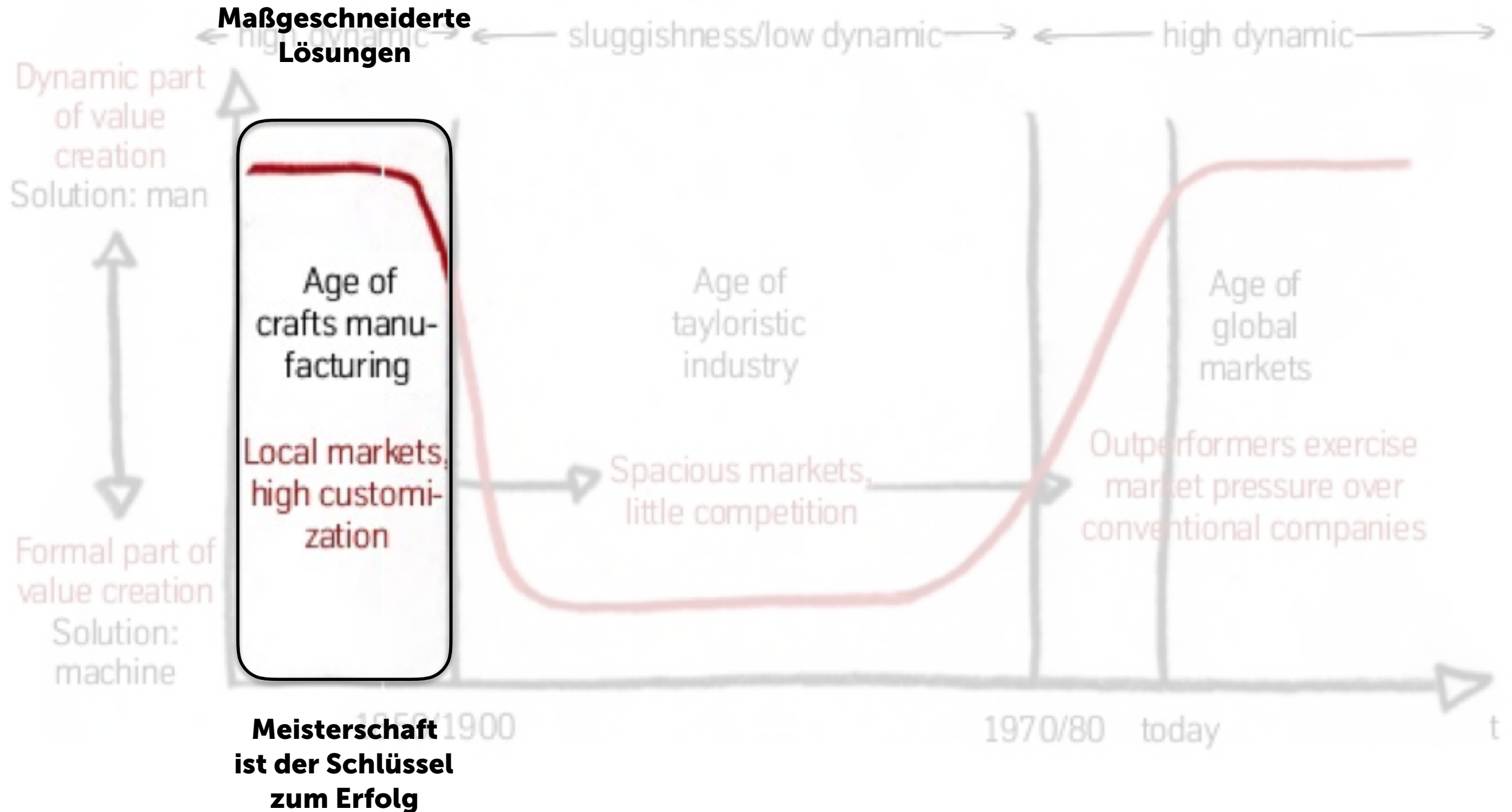
Warum DevOps?

"Taylor Bathtub"

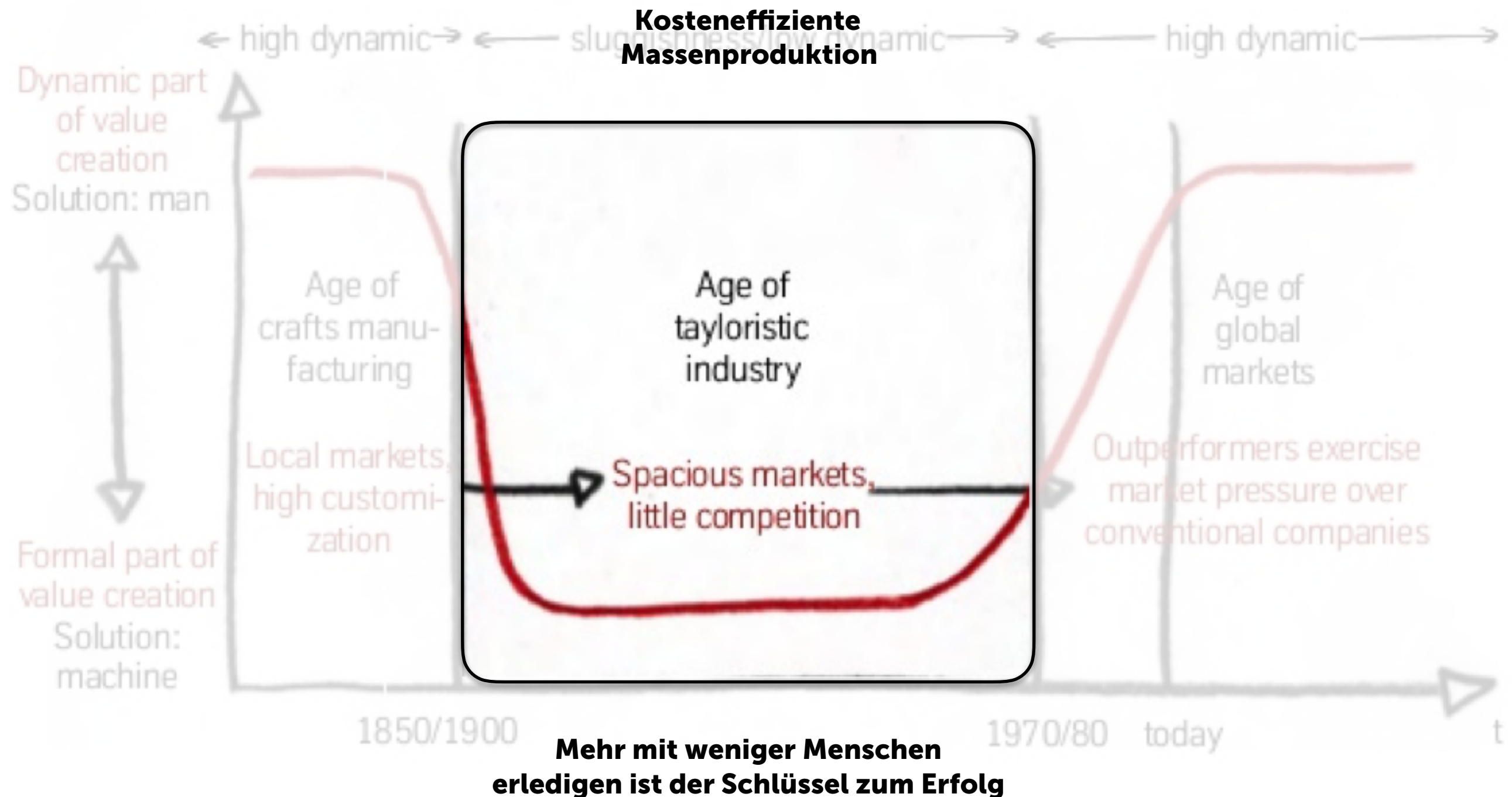


Vorindustrielles Zeitalter

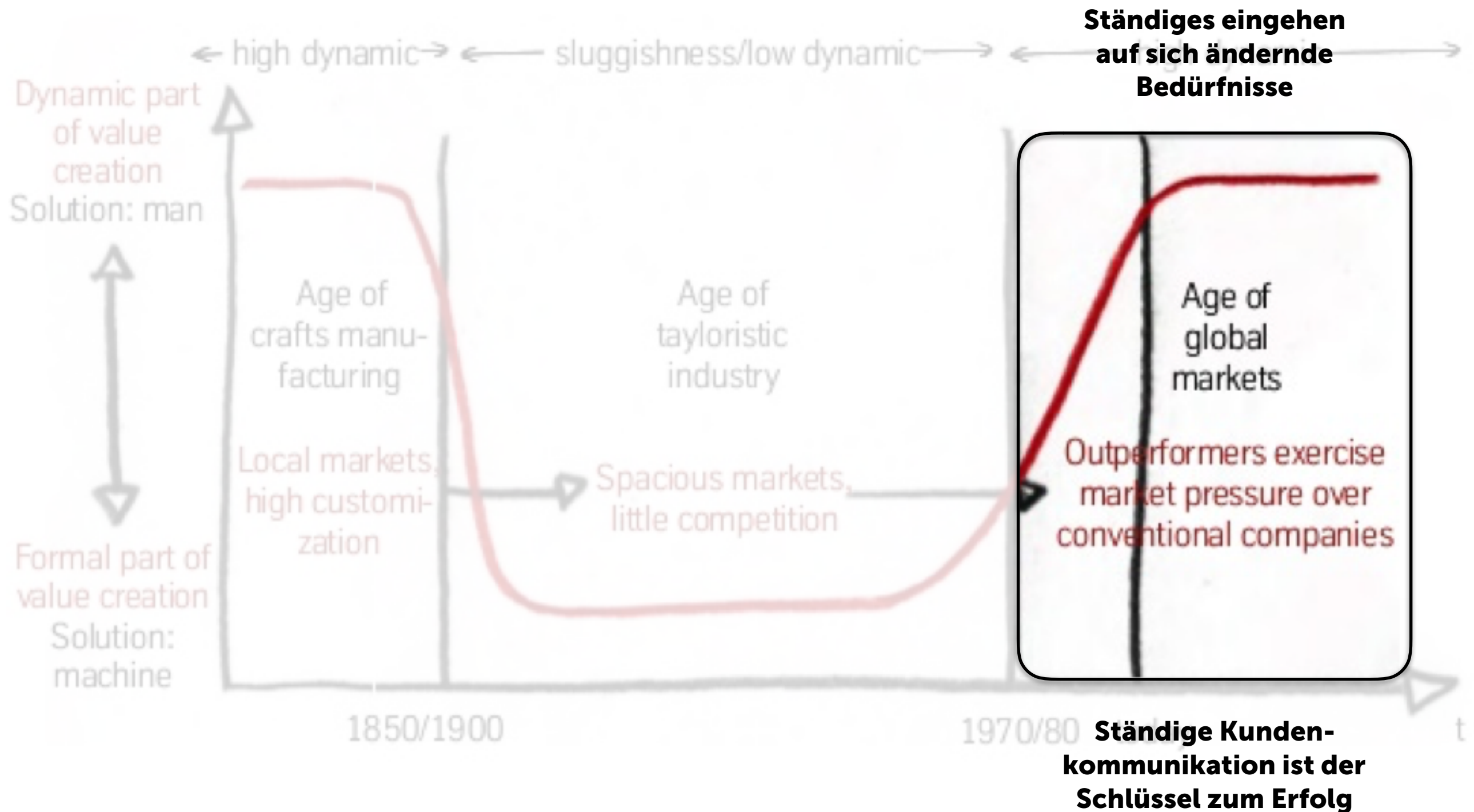
**Maßgeschneiderte
Lösungen**

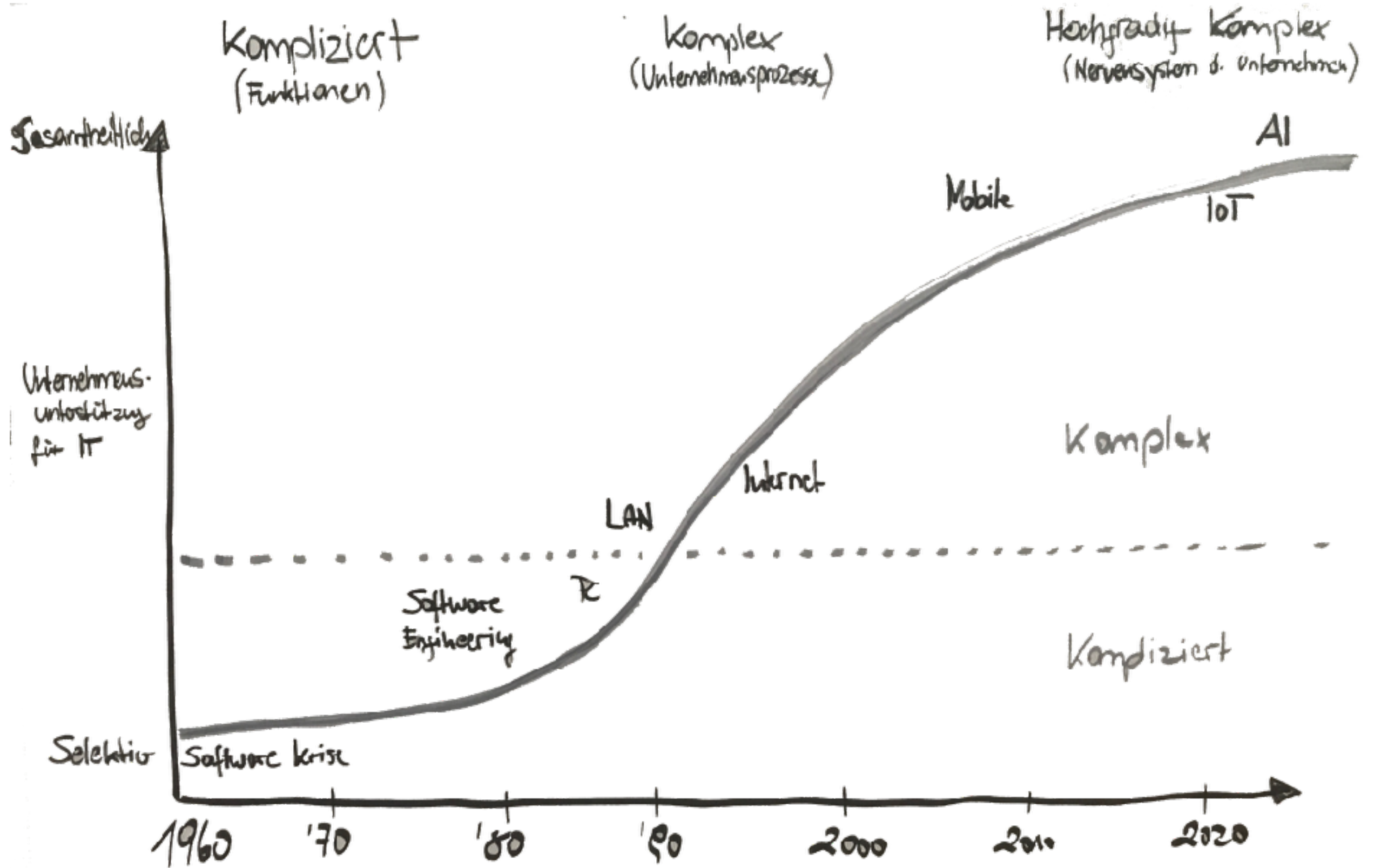


Industriezeitalter



Informationszeitalter

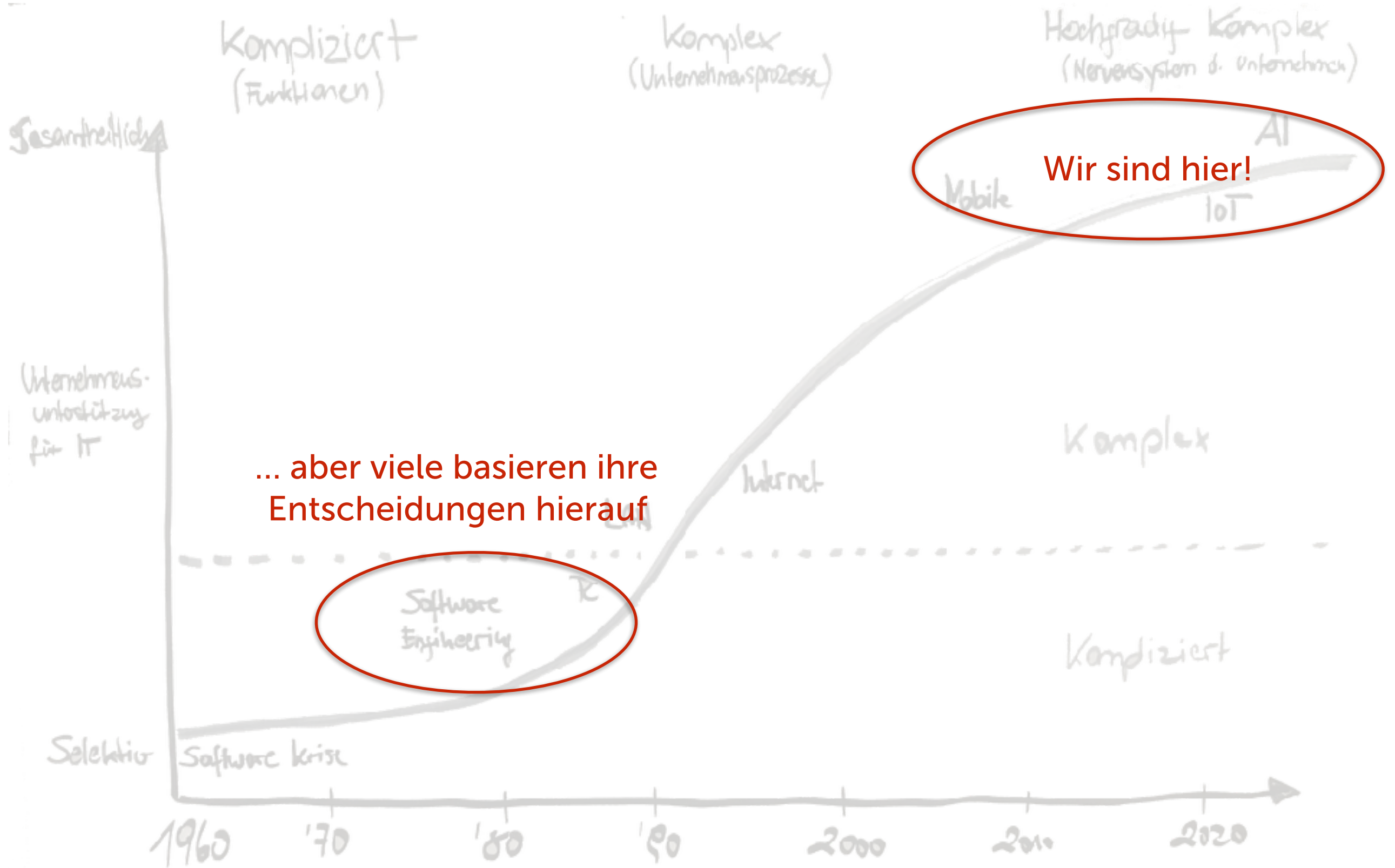




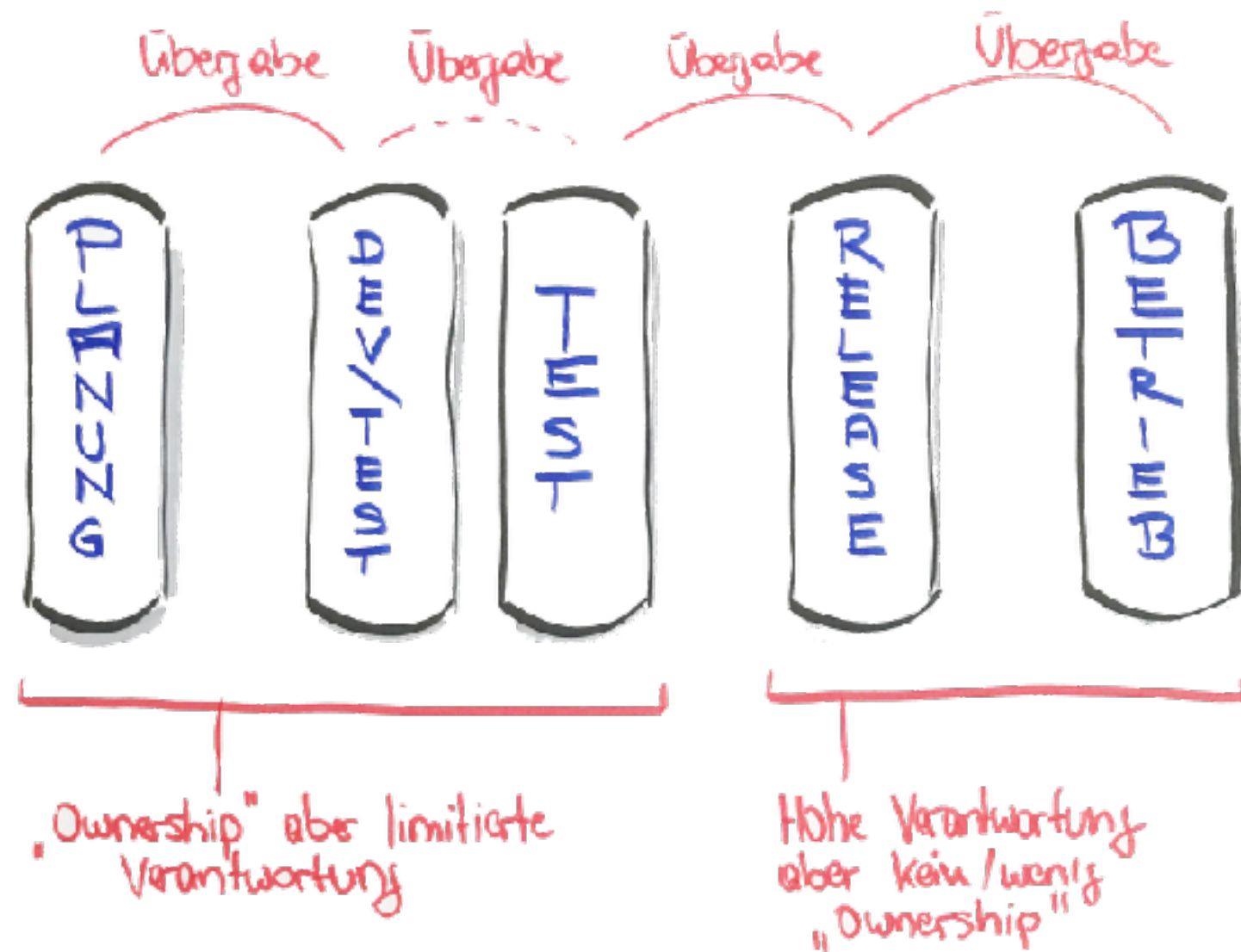
Quelle: Uwe Friedrichsen "The Promises and Perils of Microservices"



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Applikationswissen

Betriebswissen

Geschäftliche Intention

Quelle: Damon Edwards "DevOps Kaizen"

Die Entwicklung von DevOps

Es war einmal in 2008 ...

2017

State of DevOps Report

rund 27.000 Befragungen in den letzten Jahren
rund 3.200 Befragungen für den 2017 Report
IT-Fachkräfte, Entwickler, Ops, Manager & C-Level

Table 1: Changes in IT performance of high performers, 2016 to 2017

IT performance metrics	2016	2017
Deployment frequency	200x more frequent	46x more frequent
Lead time for changes	2,555x faster	440x faster
Mean time to recover (MTTR)	24x faster	96x faster
Change failure rate	3x lower (1/3 as likely)	5x lower (1/5 as likely)

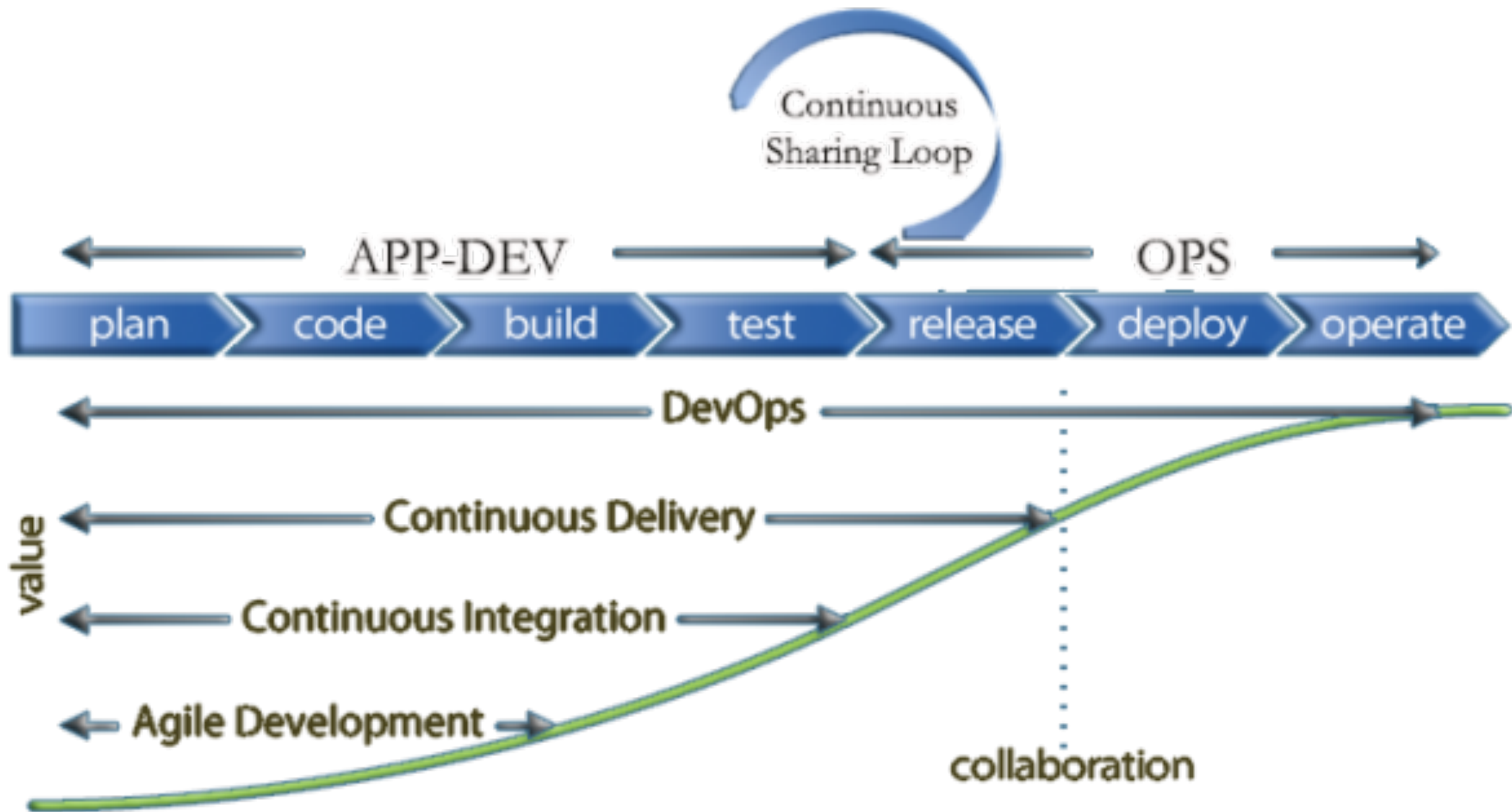
Table 3: Percentage of work that is done manually, by performance group.

All percentages significantly different among High, Medium, and Low IT performers, except where otherwise noted.

	High performers	Medium performers	Low performers
Configuration management	28%	47% ^a	46% ^a
Testing	35%	51% ^b	49% ^b
Deployments	26%	47%	43%
Change approval processes	48%	67%	59%

^{a, b} Not significantly different

Was ist DevOps



Quelle: <http://www.bigdatasystems.com.br/devops-2/>

Mythen & Missverständnisse

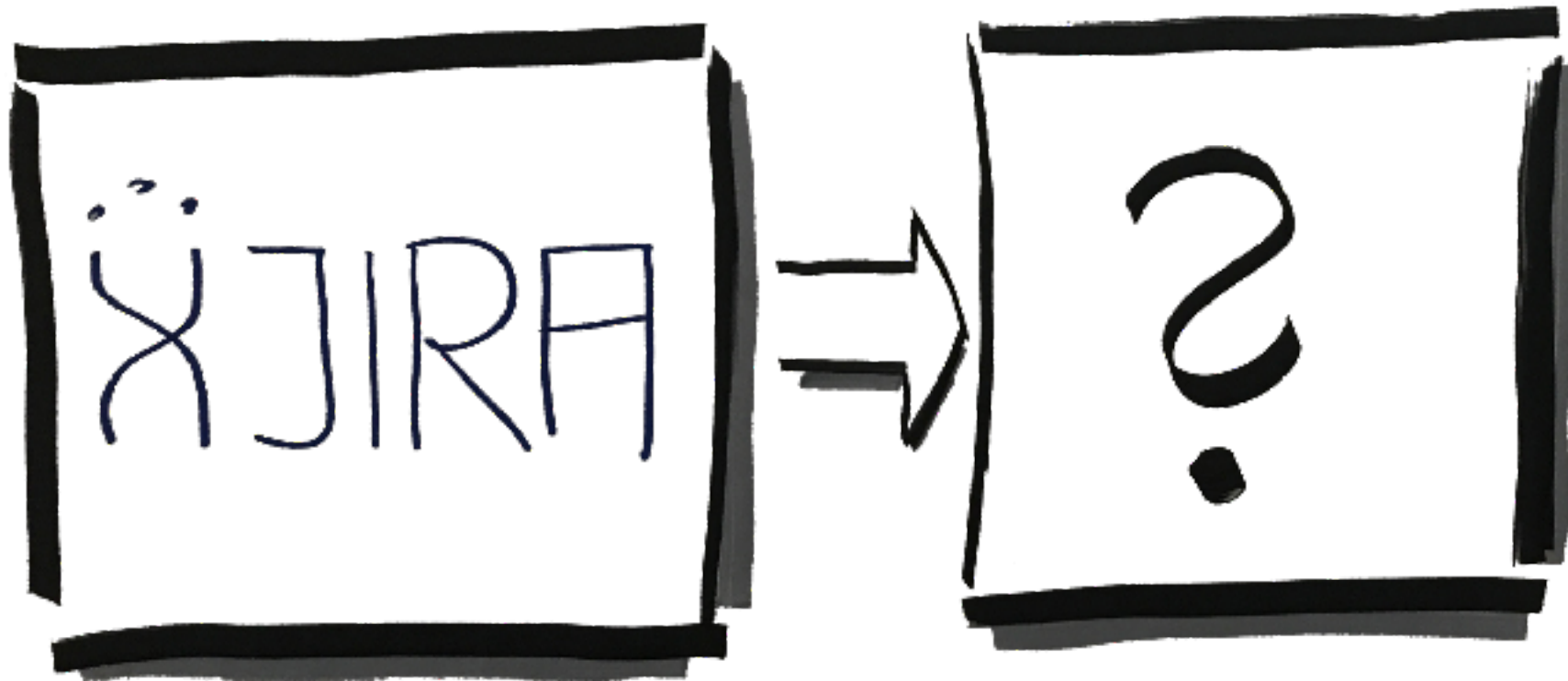
DevOps ist nur Automatisierung und Tools

Phase 1



Phase 1

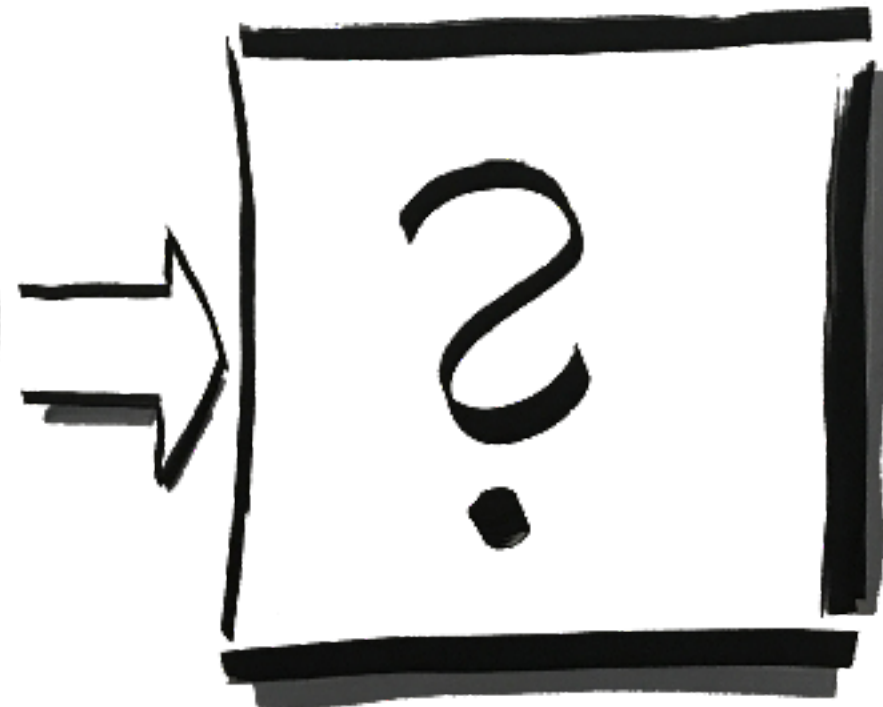
Phase 2



Phase 1



Phase 2



Phase 3

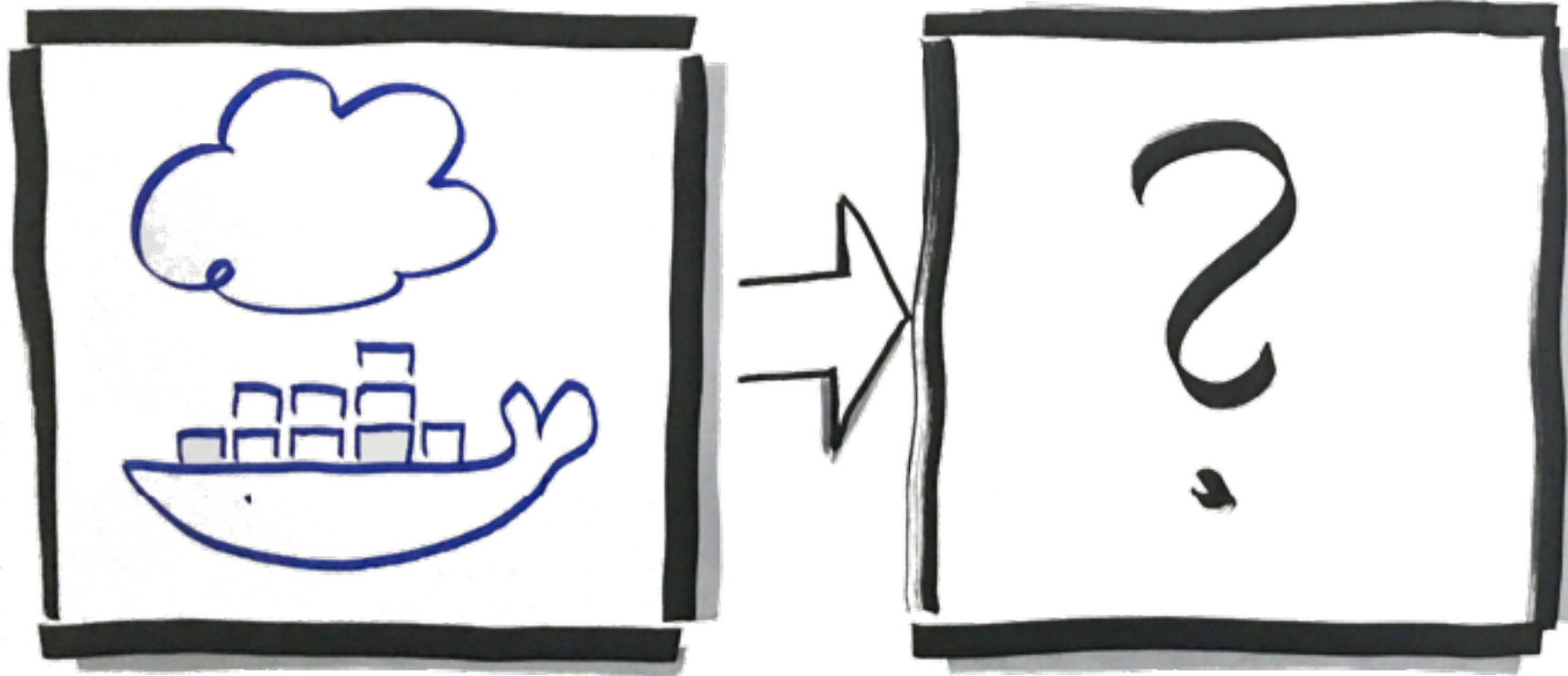


Phase 1



Phase 1

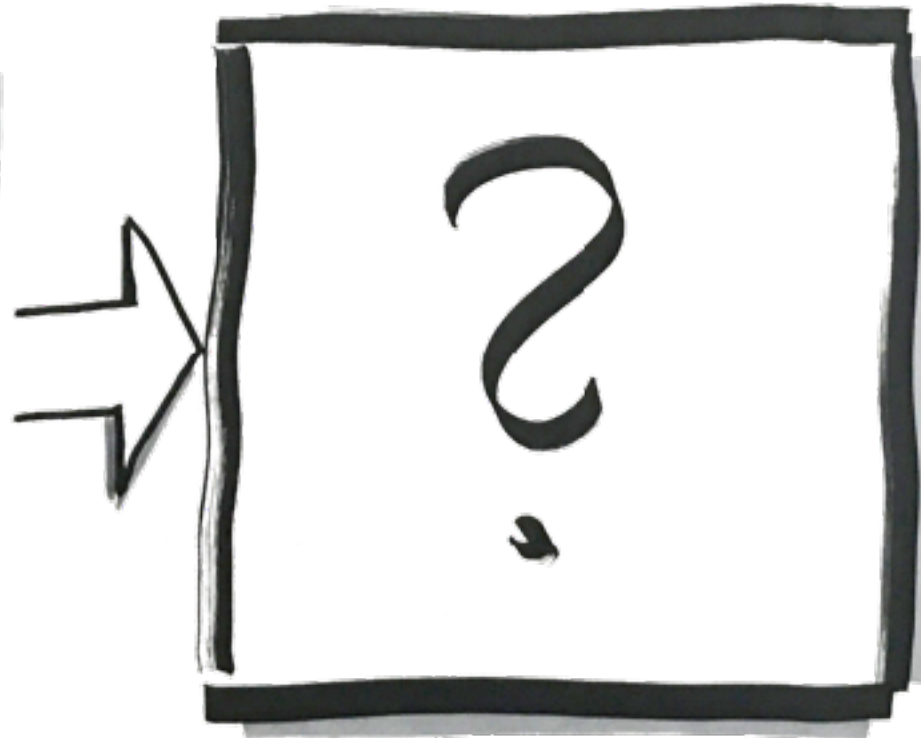
Phase 2



Phase 1



Phase 2



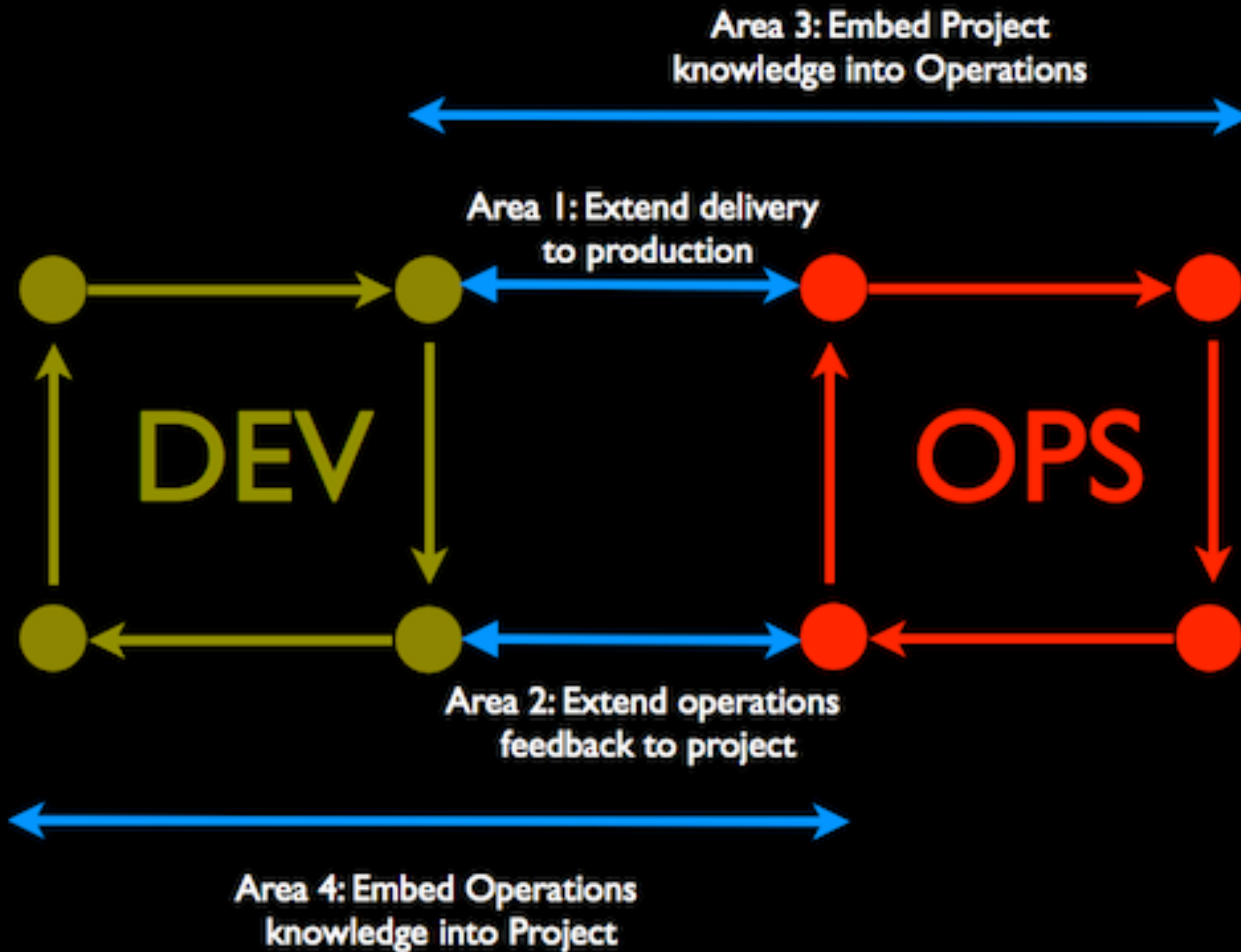
Phase 3



DevOps ist nur
etwas für Unicorns

DevOps funktioniert nur für "Greenfield"

Developer machen Operations



**WORKED FINE IN
DEV**

OPS PROBLEM NOW

Deployment alle 5 Minuten

DevOps ist ein Skill

DevOps Zertifizierung

DevOps ja, aber wie?

Entwicklungsteams wieder befähigen und stärken

Kommunikation



<https://www.flickr.com/photos/dougton/albums/72157632999433650>

Flow (Geschwindigkeit)

Gemeinsame Ziele

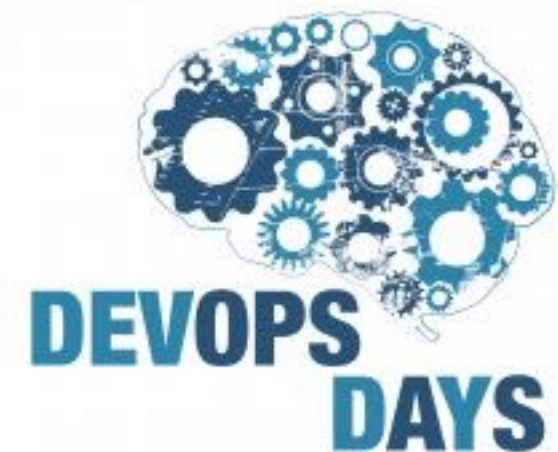
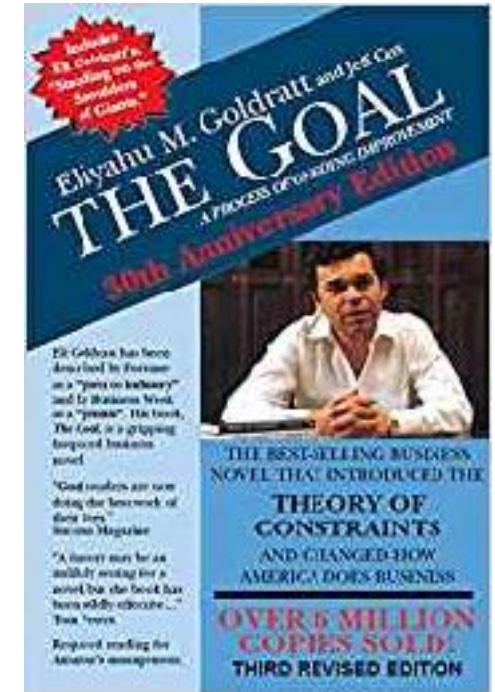
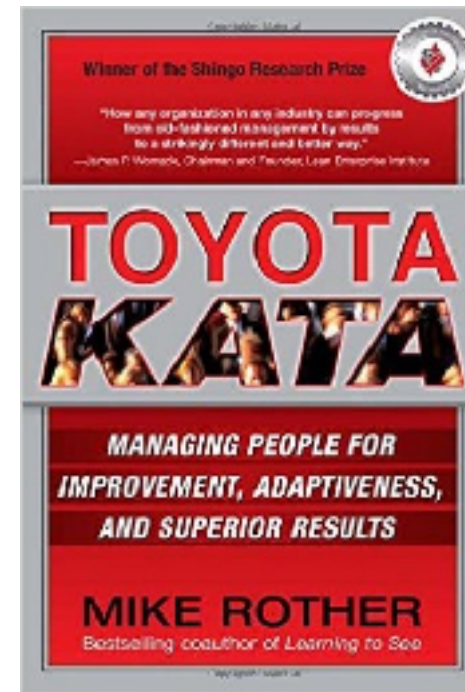
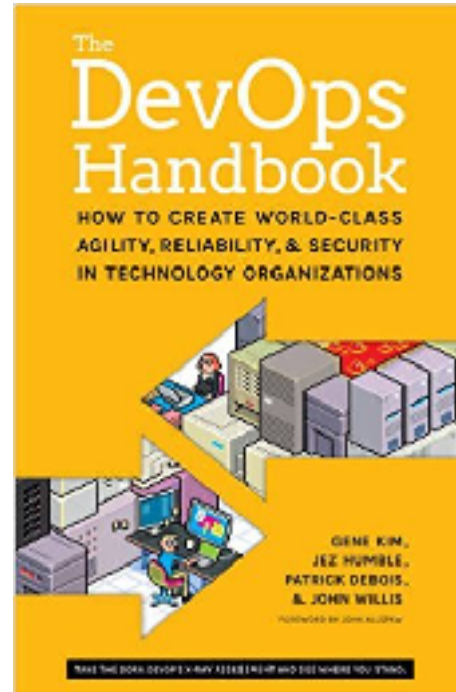
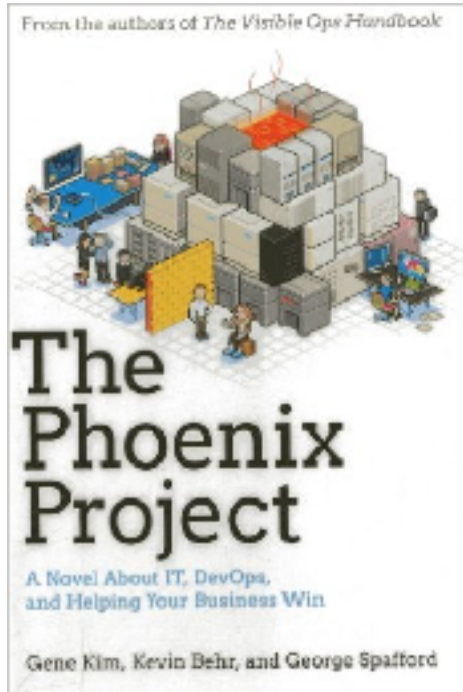
Feedback (Sicherheit)

Tools

1 Fm Gh Github	2 Fm Aws Amazon Web Services	PERIODIC TABLE OF DEVOPS TOOLS (V2) EMBED DOWNLOAD ADD														Os Open Source Fr Free Fm Fraemium Pd Paid En Enterprise SCM CI Deployment Cloud / IaaS / PaaS BI / Monitoring Database Mgmt Repo Mgmt Config / Provisioning Release Mgmt Logging Build Testing Containerization Collaboration Security														5 En Ch Chef 6 En Pu Puppet 7 Os An Ansible 8 En Sl Salt 9 Os Dk Docker 10 Pd Az Azure
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Value Streams, DevOps Kaizen, Transformation Teams

Lernen und Experimentieren (Verbesserung)



Bücher

Phoenix Project

The Goal

Toyota Kata

Toyota Kata Practice Guide (12/2017)

DevOps Handbook

Konferenzen

DevOpsDays 2017 Berlin

DevOpsCon 2017 München

Case Studies, Reports, Videos

Inside Operation InVersion, the Code Freeze that saved LinkedIn (Paywalled)

The Amazing DevOps Transformation Of The HP LaserJet Firmware Team

Nordstrom: Tips for making a DevOps transformation

2017 State of DevOps Report

Verschiedenes

Periodic Table Of DevOps Tools