STRATEGIEN, TAKTIKEN UND MUSTER DER LEGACY ABLÖSUNG

Tobias Voß

viadee
IT-Unternehmensberatung

Legacy – wertvolles Erbe

Claude Code für M...
Systemen: Schwar...

Nachdem Anthropic ein Werkze...
COBOL-Modernisierung vorgesto...
abgestürzt.

Weil keiner mehr COBOL kann: KI-Tool übersetzt Mainframe-Anwendungen nach Java

Das anstehende KI-Tool watsonx Code Assistant for Z von IBM soll beim Übersetzen von COBOL zu Java unterstützen und somit Mainframe-Anwendungen modernisieren.

23.08.2023

Category
Claude Code

Product
Claude Code

Date
February 23, 2026

Reading time
5 min

Share
Copy link

```
DATA DIVISION.
WORKING-STORAGE SECTION.
01  WS-CLAIM-RECORD.
  05  WS-CLAIM-ID       PIC 9(8).
  05  WS-POLICY-NUMBER  PIC X(10).
  05  WS-CLAIM-AMOUNT   PIC 9(7)V99.
  05  WS-DEDUCTIBLE     PIC 9(5)V99.
  05  WS-COVERAGE-LIMIT PIC 9(7)V99.
  05  WS-APPROVAL-STATUS PIC X(1).
    88  APPROVED     VALUE 'A'.
    88  DENIED       VALUE 'D'.
    88  PENDING      VALUE 'P'.
```

```java
@Data
@Builder
public static class ClaimRecord {
  private Long claimId;
  private String policyNumber;
  private BigDecimal claimAmount;
  private BigDecimal deductible;
  private BigDecimal coverageLimit;
  private ClaimStatus approvalStatus;
}
```

© viadee

Strategien

Replace

Rehost

Lift-and-Shift

Reengineer

Taktiken
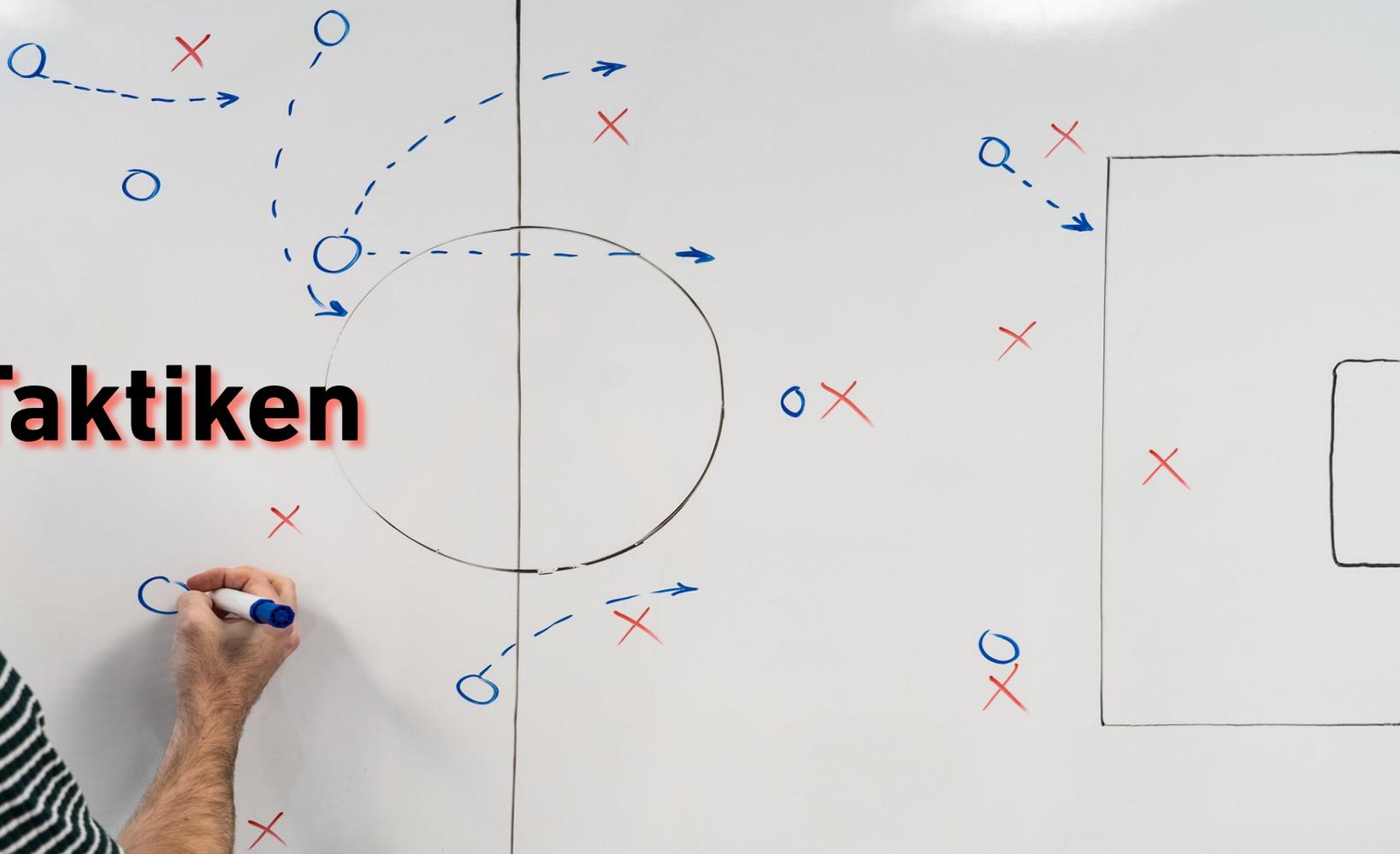
Schichtenweise Modernisierung

Innovationszyklus 3-5 Jahre

Innovationszyklus 5-10 Jahre

Innovationszyklus 10-20 Jahre

UI

Geschäftslogik

Infrastruktur

Web / Mobile

Desktop

3270 Emulation

REST / Events

SOA / WebServices

Batch / Online

NoSQL

Relationale DB

Hierarchische DB
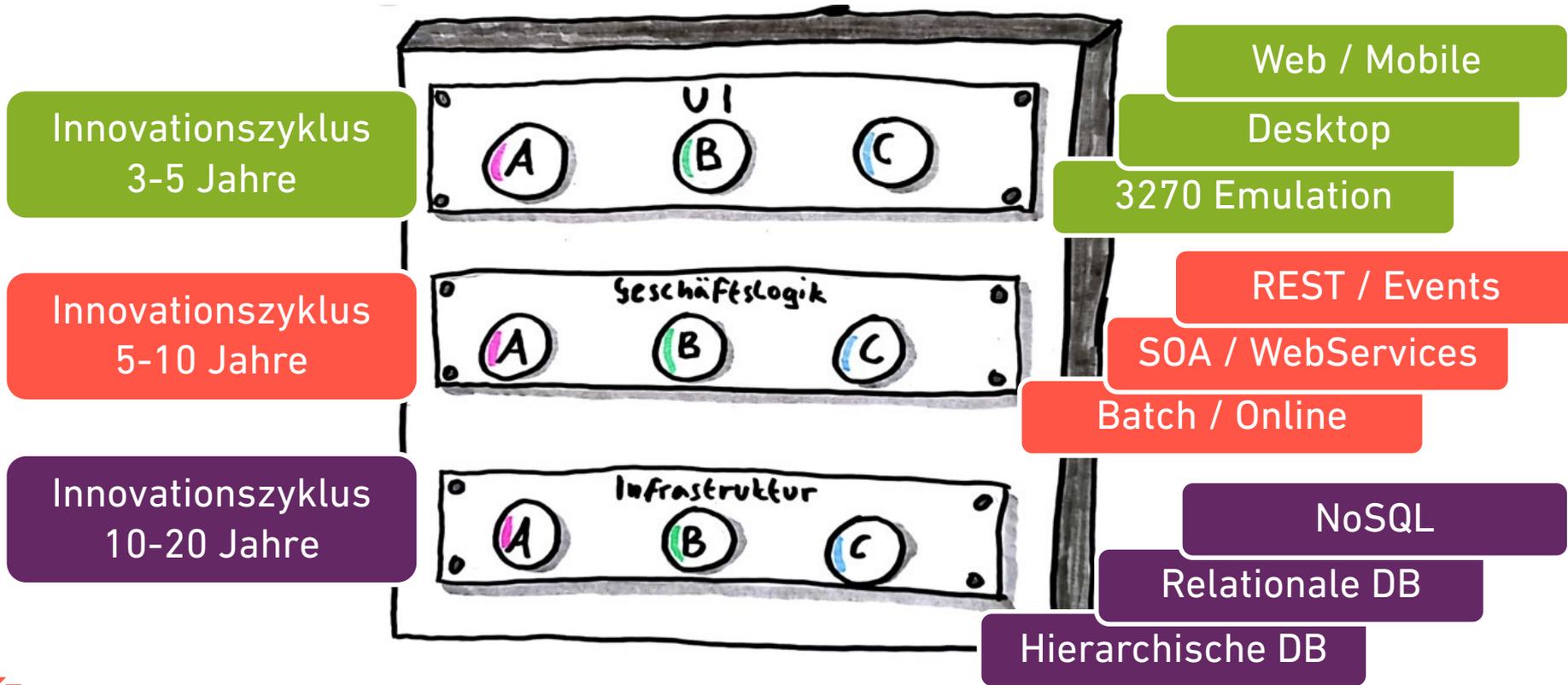
© viadee

Online Banking – Eine IT-Zeitreise

App (2022) REST-Backend (2010er) SOAP-APIs (2000er) COBOL-Logik (1990er) DB2-Datenbank (1980er)
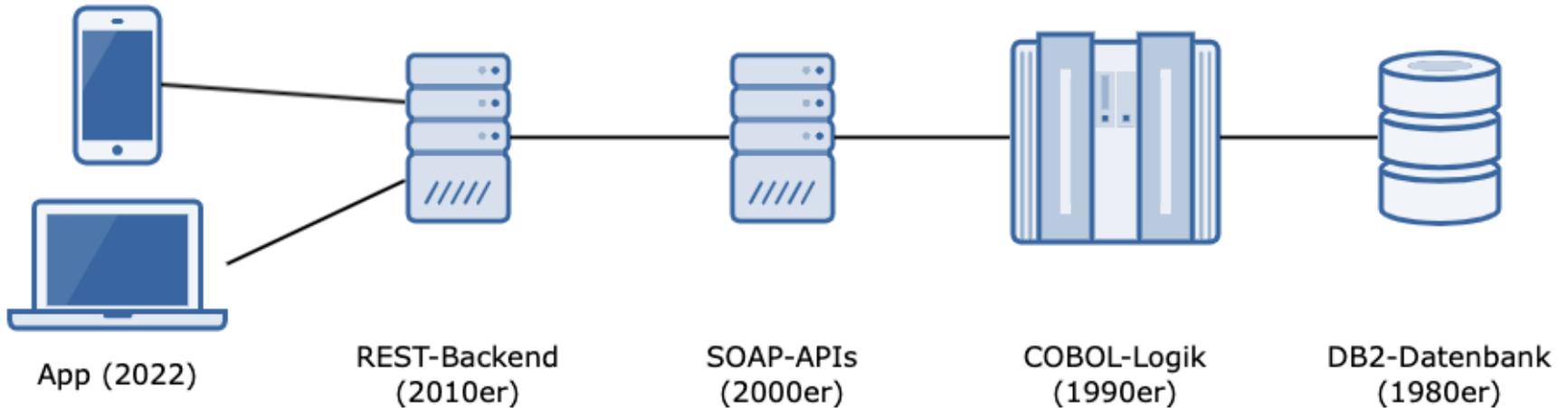
Evolutionary
Architecture
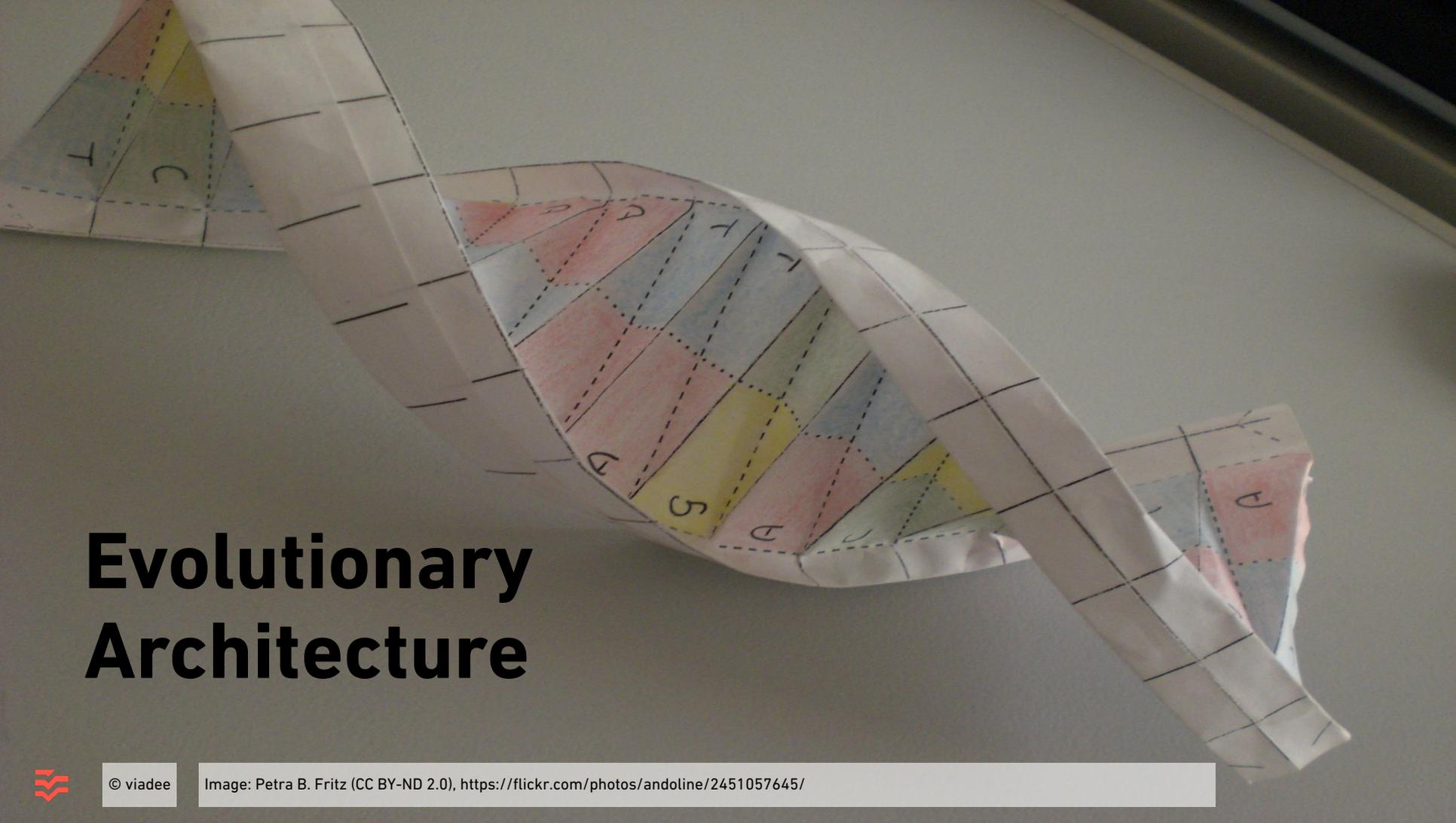
Muster

Anti-Corruption Layer

Anti-Corruption Layer
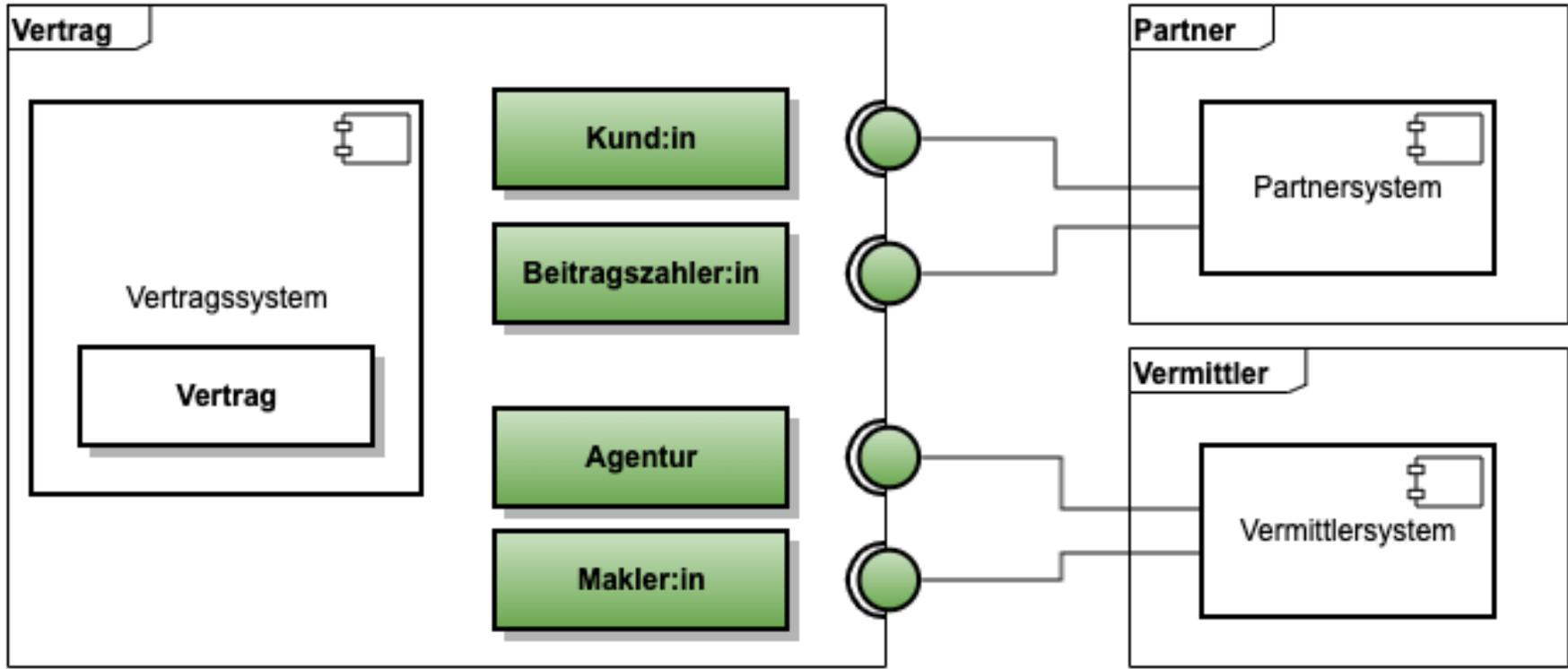
Strangler Fig Pattern

Strangler Fig Pattern in der Praxis

© viadee   Image: https://blog.viadee.de/weg-von-java-ee-so-gelingt-die-migration
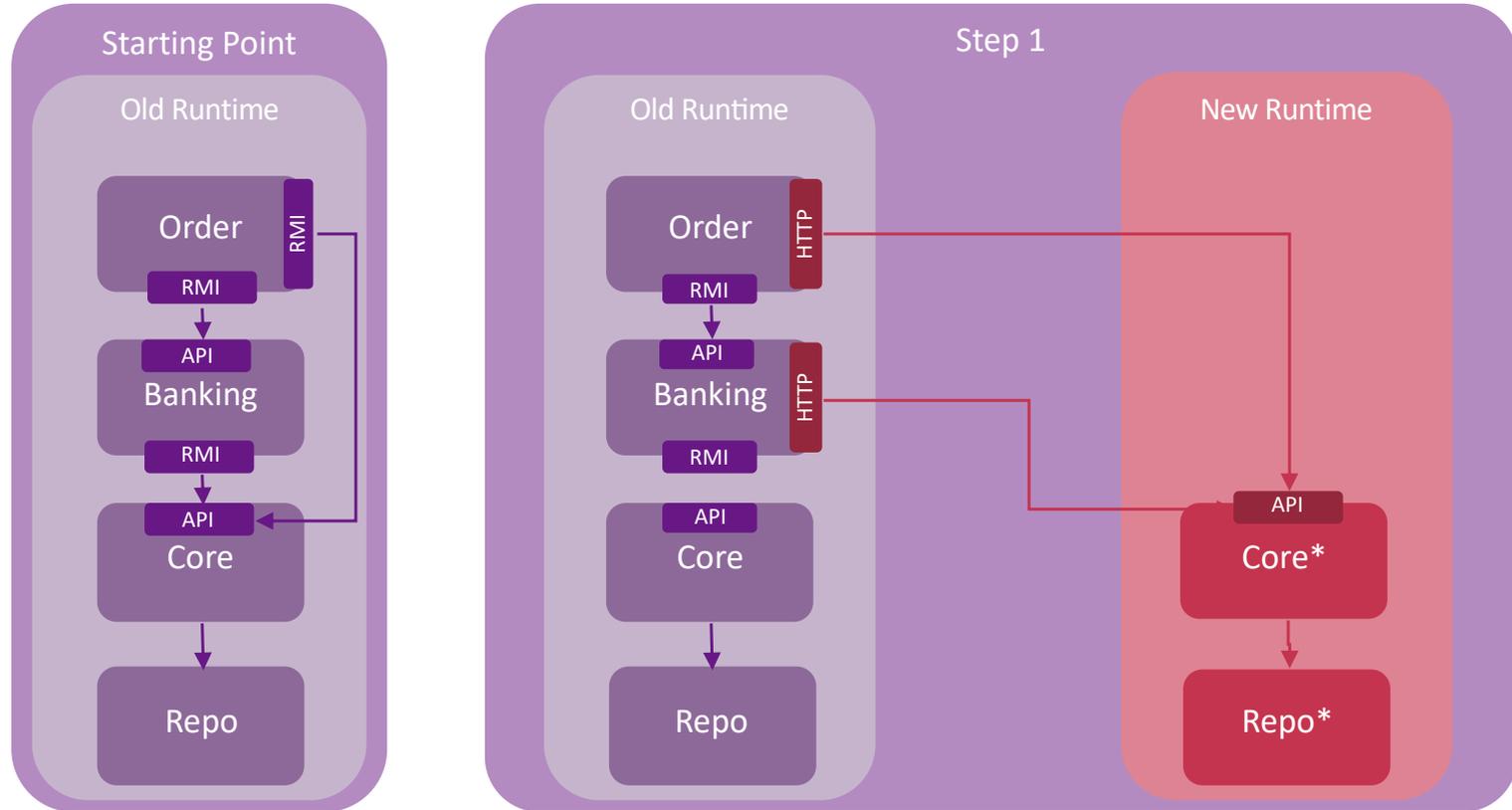
Strangler Fig Pattern in der Praxis
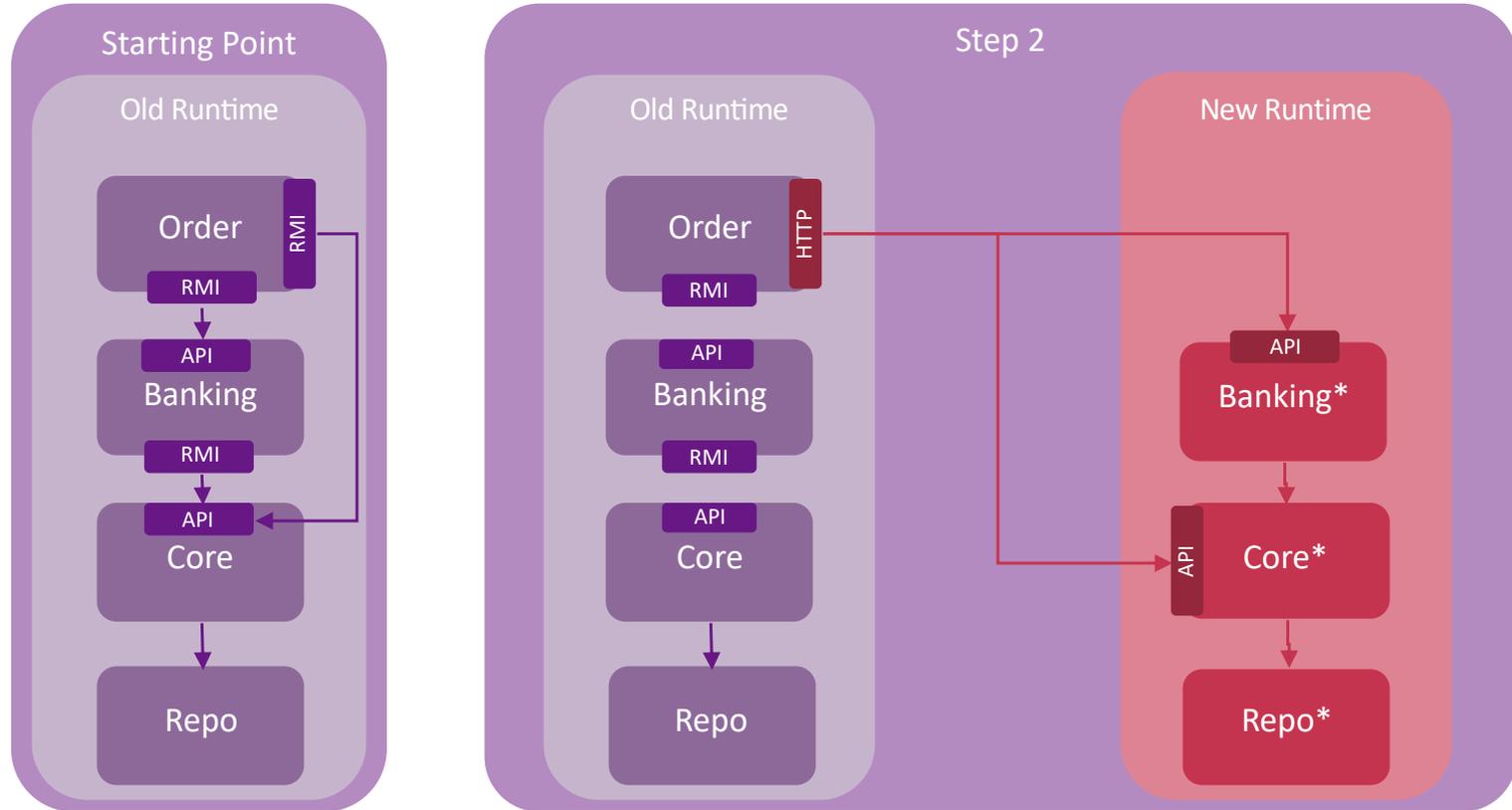
Strangler Fig Pattern in der Praxis
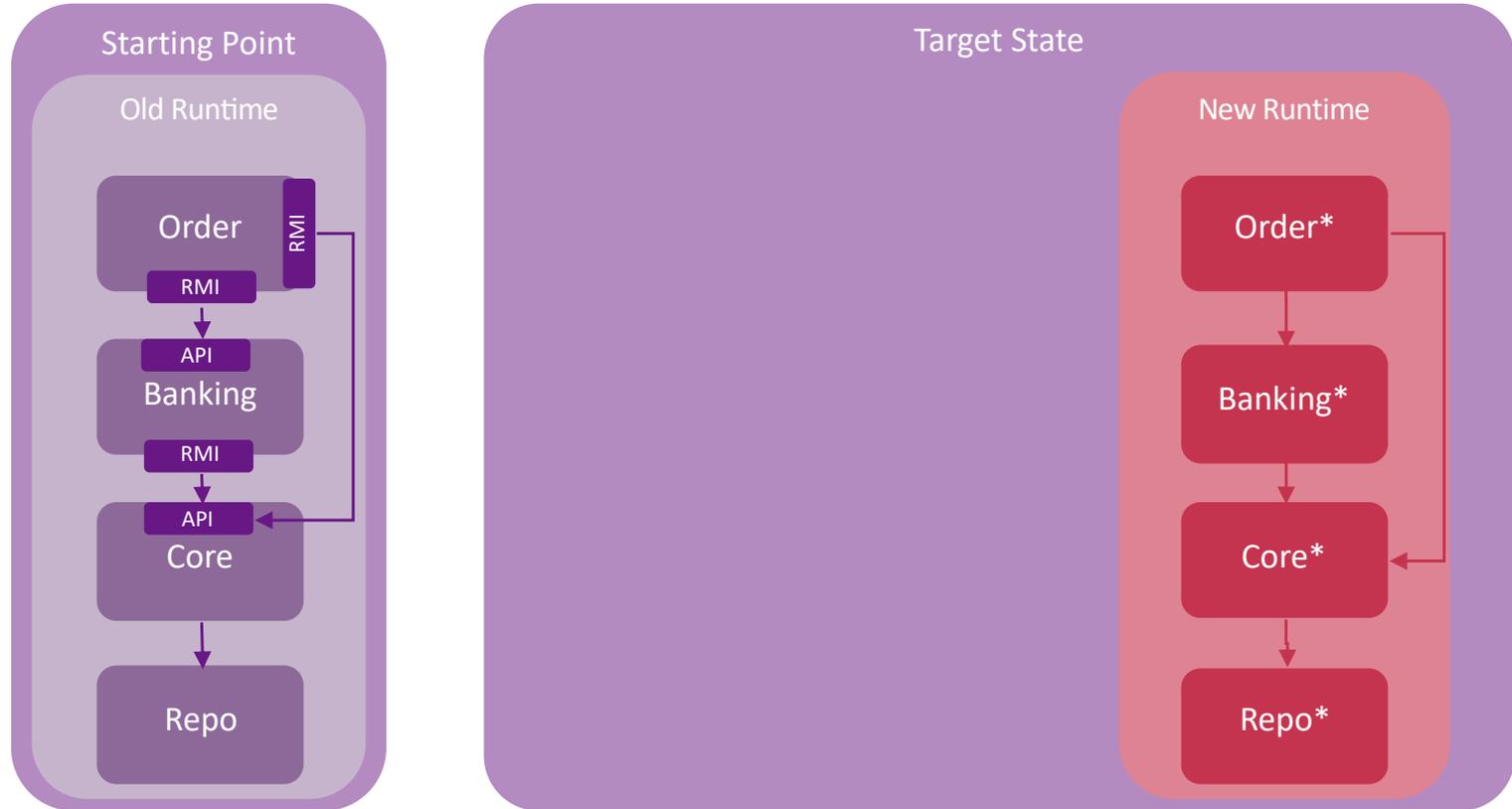
The Bridge to the New Town

Starbucks Does Not Use Two-Phase Commit

November 19, 2004

Home > Conferences > MOD > Proceedings > SIGMOD '87 > Sagas

ARTICLE

Sagas

Authors: Hector Garcia-Molina, Kenneth Salem   Authors Info & Affiliations

Publication: SIGMOD '87: Proceedings of the 1987 ACM SIGMOD international conference on Management of data • December 1987 • Pages 249–259 • https://doi.org/10.1145/38713.38742

99 682   2,445   🔒 Get Access

SIGMOD '87:
Proceedings of the...
Sagas
Pages 249–259

← Previous   Next →

ABSTRACT

Long lived transactions (LLTs) hold on to database resources for relatively long periods of time, significantly delaying the termination of shorter and more common transactions. To alleviate these problems we propose the notion of a saga. A LLT is a saga if it can be written as

Saga: How to implement complex business transactions without two phase commit.
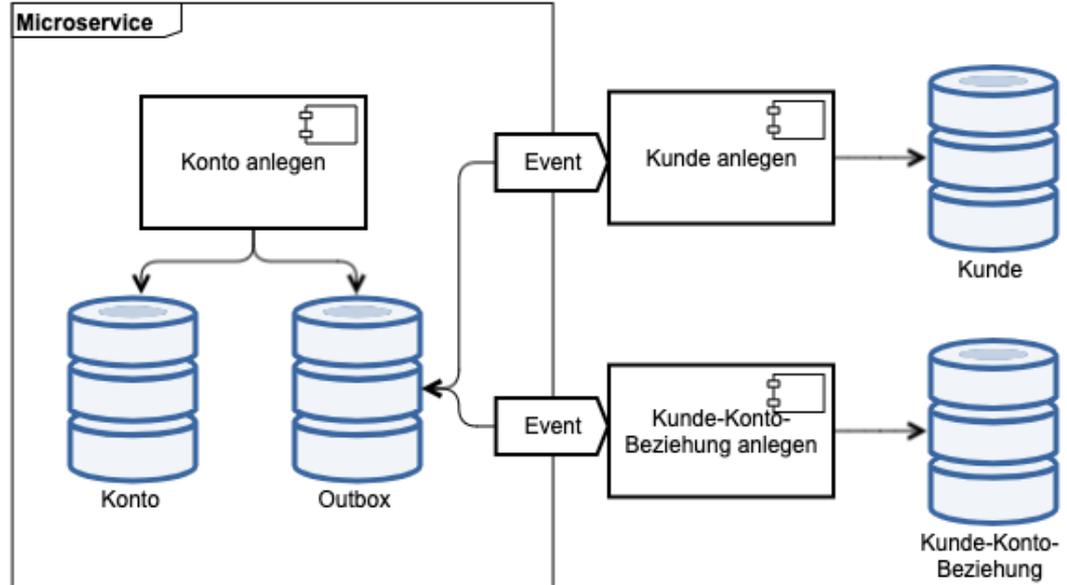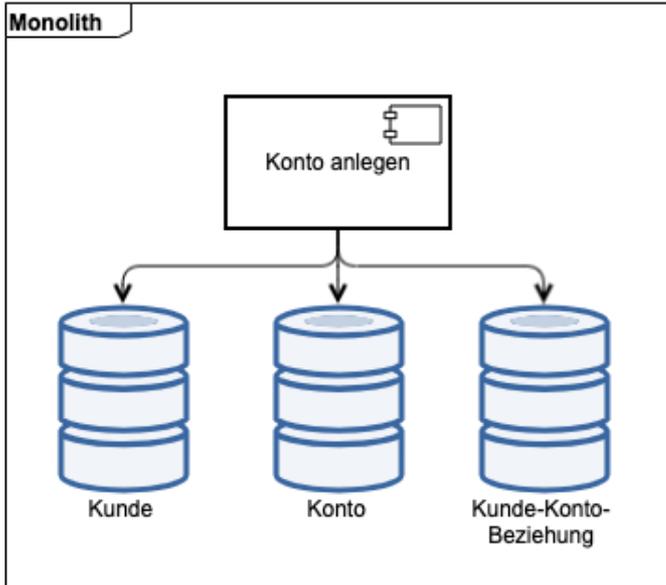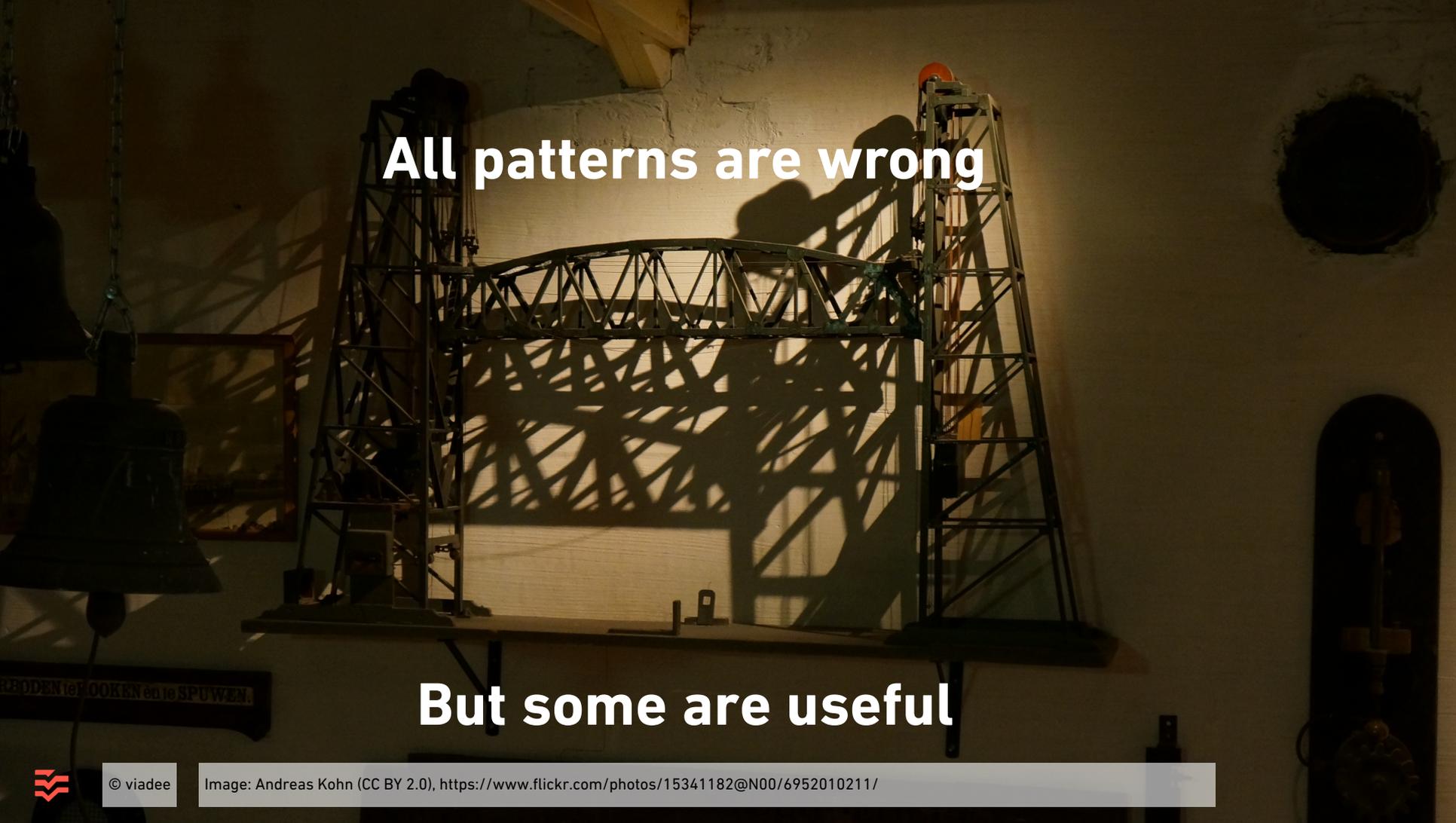
Bernd Rücker   Follow
Apr 26, 2017 · 6 min read

I talked about Sagas more than 3 times this week so it is time to write a blog post about it.

Eine Überweisung ist keine ACID-Transaktion!

Saga Pattern | Application Transactions Using Microservices – Part I

Denis Rosa, Developer Advocate, Couchbase on January 10, 2018

© viadee

Transactional Outbox

© viadee

All patterns are wrong

But some are useful

Vielen Dank!

Tobias Voß

Modernisierungs-Architekt

✉ tobias.voss@viadee.de

📞 +49 251 77777 175

in linkedin.com/in/tobiaslvoss

viadee
IT-Unternehmensberatung