

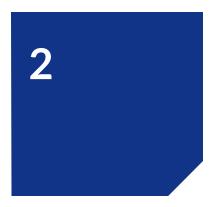
Andreas Braun Global Data & Analytics Allianz SE



We are in a technology revolution of the "empowered consumer".

... in the Digital Age it is all about:

Staying in the Relevant Set of Consumers
 Digital Business Models
 Trust.



- **1** Attacking in the Digital Era: Strategic Challenges
- 2 Impact on Insurance—Big Data Use Cases
- **3** Challenges

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The Big Data Era for Allianz

Key figures

Global Data & Analytics (May 2014)

- Focusing on **Big Data Analytics**
- So far, the focus on selected key markets
- "Digital touchpoints" comprised of, e.g.: system log, cookie, telematics, and IoT data
- Growth in 2015 (GD&A only):
 ≈ 5 PB production data in total, growing ever faster

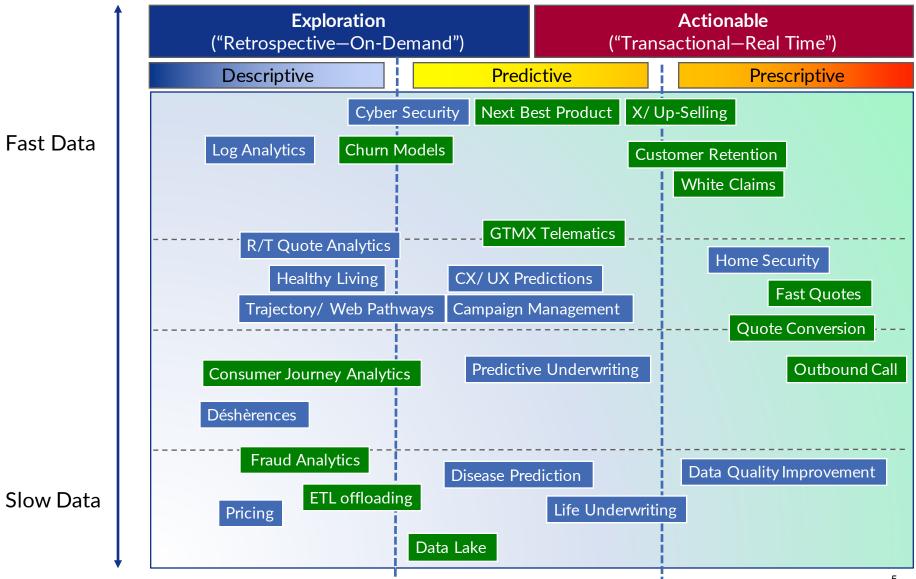
Current clusters:

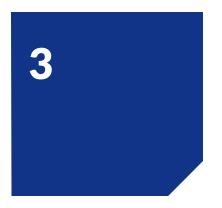
- Hybrid private cloud
- Allianz Big Data Ecosystem (v2)
- On German soil
- Satellites clusters to meet local data protection legislation, but same architecture
- Data locality, nothing shared



A Variety of Use Cases—Triggers a Zoo of DBs

ILLUSTRATIVE





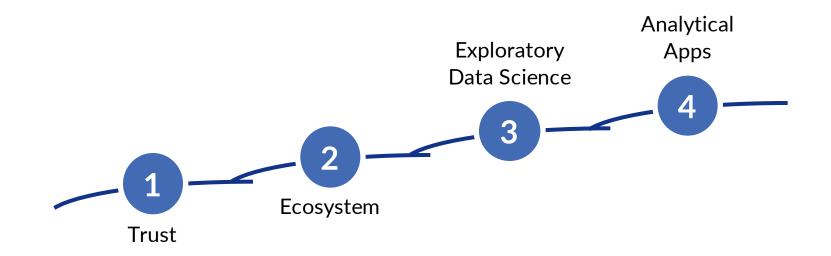
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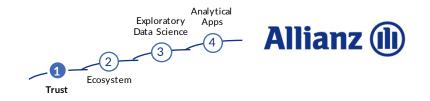


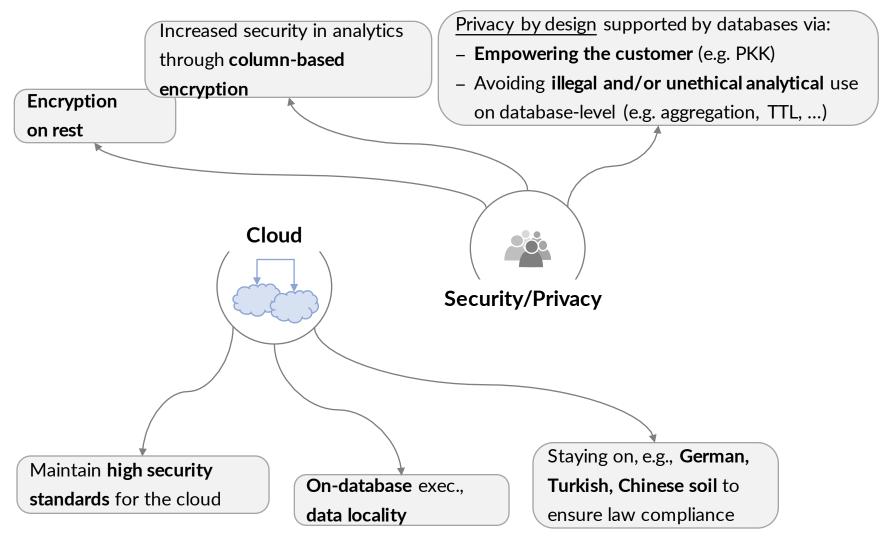
Strategic goals implicate four main challenges

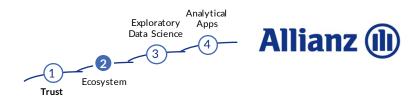


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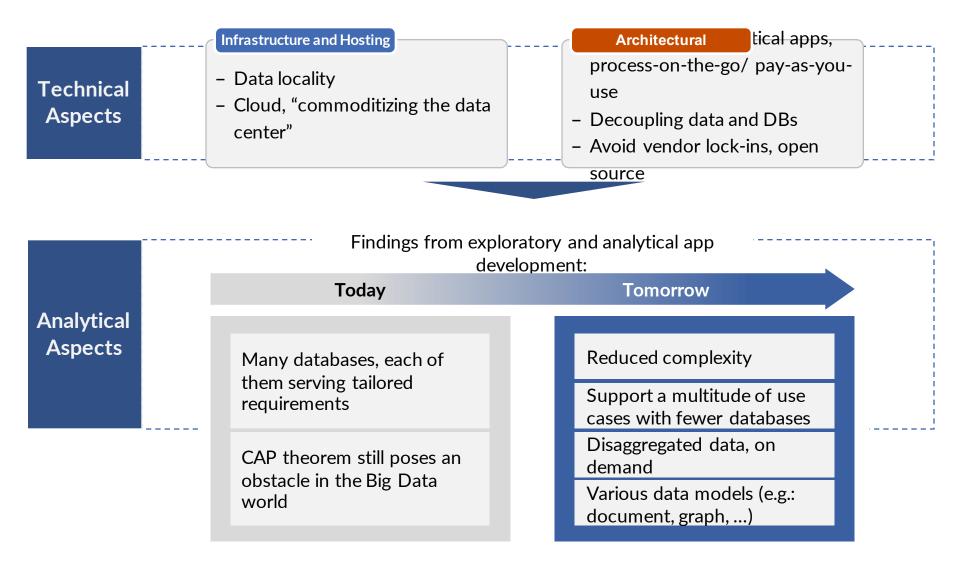
C1: Trust

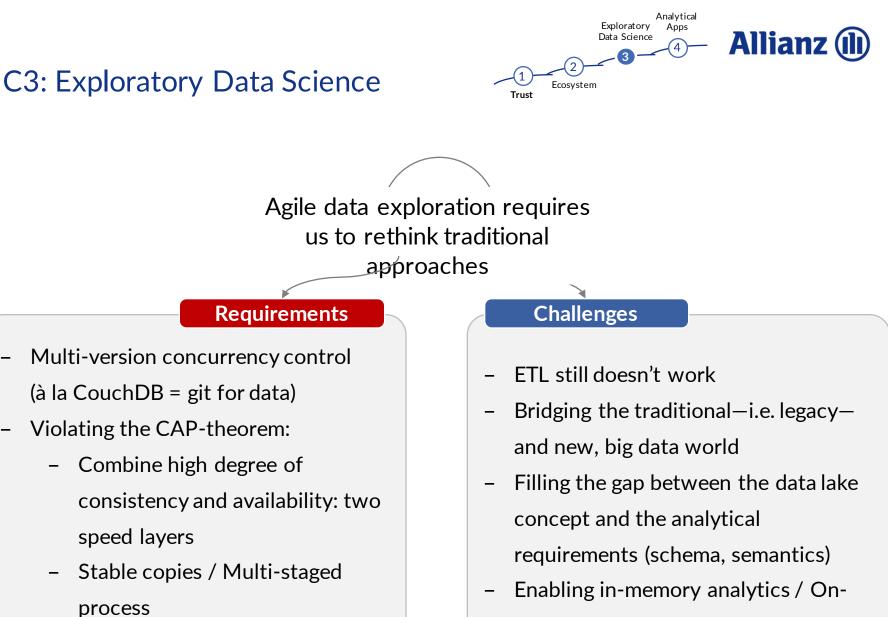






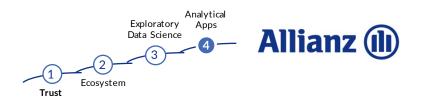
C2: Ecosystem





Achieve "transparency"

demand results on fine-grained data



C4: Analytical Apps



Provisioning prescriptive, i.e. "actionable" insights and enable efficient app use

Architecture

- Reduce architectural complexity
- Lambda architecture (stream/batch/ provisioning layers)

Apps

- On-demand speed for thousands of concurrent analytics users
- Transaction processing (fraud analytics, white claims)
- Enable geo-spatial analytics at scale
- Online ML

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