



Einfach, weil's wichtig ist.

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Data Strategy and Data Governance in the Era of (Gen)AI

CDAO, Frankfurt

30.10.2024

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Head of Data Engineering & Strategy, ERGO Group

The ERGO brand. Our aspiration and the promise to our customers.

We insure people and companies. Future orientation and sustainability are a matter of course for us.

The customers and their needs are our focus. For them it is important to be able to create their world. We manage the risks. As an insurer, we do this as simple, fast and convenient as possible.

The essence of our ERGO brand - "Making insurance easier" - is the compass for our actions. As an active companion at every stage in life, as an equal partner, and as a positive driving force for the future. Simple because it matters.



Our Brand essence

ERGO makes insuring easier.

Our Claim

Einfach, weil's wichtig ist.
(Simple because it matters.)

Our comprehensive range of products and services is key to our success.

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Advice, insurance, pensions and services

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Life, property/casualty, direct and online insurance, legal protection insurance

DKV

ERGO

Reiseversicherung

Health and travel

nexible

Pure digital insurer



International presence in over
20
countries

Part of Munich Re,
a DAX company

Munich RE 



€ 20.1 bn
premium income

€ 136.4 bn
investments



Over
38,600
employees and
sales partners

All figures as at: 31.12.2023

Primary insurer and reinsurer under one roof.

ERGO is part of Munich Re – one of the leading reinsurers and risk carriers worldwide. Munich Re stands for exceptional solution-based expertise, consistent risk management, financial stability and client proximity.

Munich Re has well over a century of international experience and is a member of the DAX 40 and EURO STOXX 50.

Reinsurance



Primary insurance



Asset management



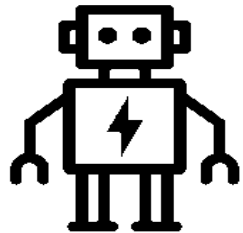
(Asset manager for
Munich Re and ERGO, and funds for private
and institutional clients)



ERGO implements state-of-the-art technologies in real use cases in the insurance business

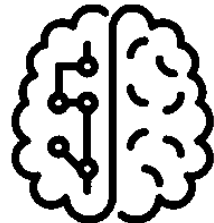
Robotics

Robots relieve us with stereotypical tasks



Artificial Intelligence

We use AI in our day-to-day work to optimise our process efficiency



Voice

ERGO as an industry pioneer in the use of voice assistants



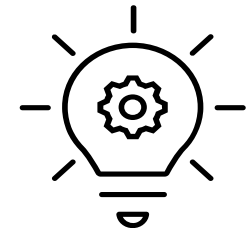
Virtual Reality

Used for meetings, workshops, training purposes and in sales



Process Mining

Leveraging Process Mining tools to achieve operational excellence



Analytics to drive ERGO's digital transformation

Competitive advantages from Advanced Analytics

Systematic use of Advanced Analytics to
provide optimization along the entire value chain

Product
Design
& Pricing

Sales &
Distribution

Under-
writing

Risk
Management

Customer
Engagement

Claims

Service /
Operations

Data-driven transformation of existing processes and systems



Skills



Technology



Agile Approach

2014: ERGO's structured Data were used to build powerful predictive churn models

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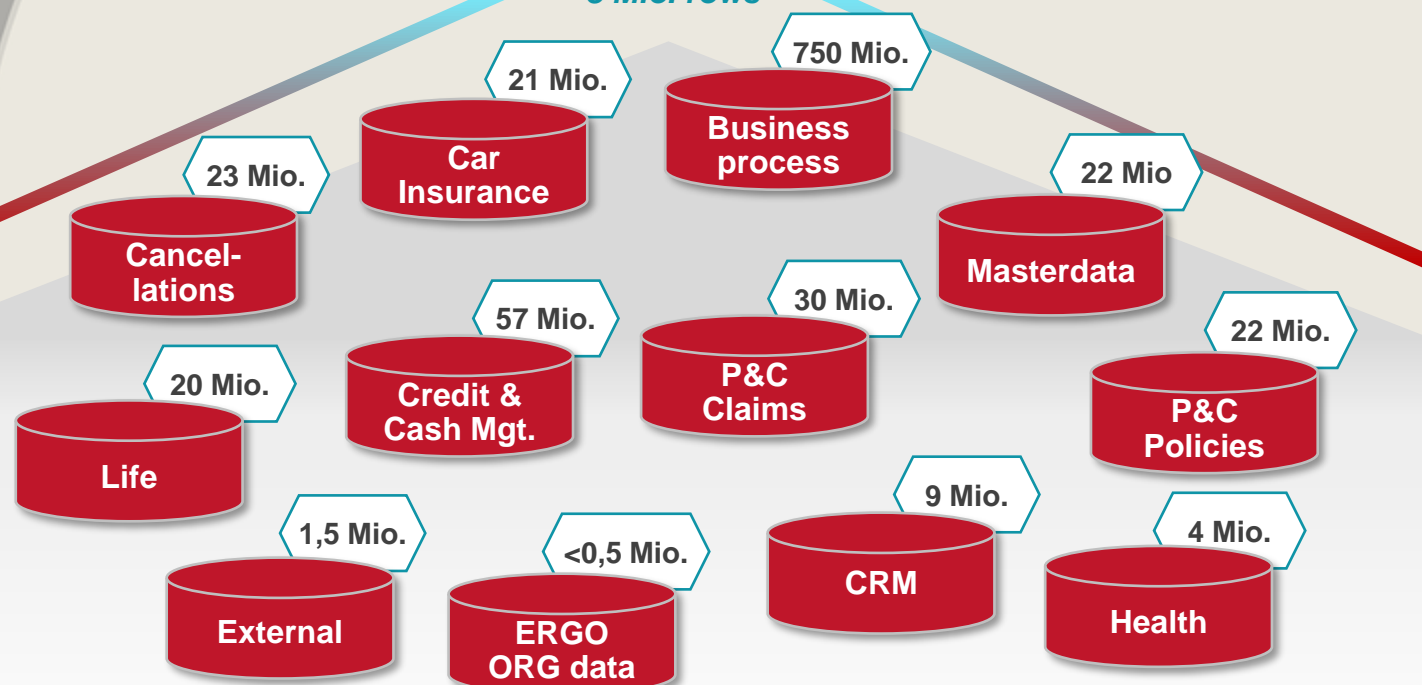
EXEMPLARY

Kunden	Stammdaten	Int./ext. Daten zur Charakterisierung	Vertragsdaten (S/U)	Schadenfälle (S/U)	Vertragsdaten Leben	Vertragsdaten Gesundheit
Kunde x										
Kunde y										
Kunde z										
...										



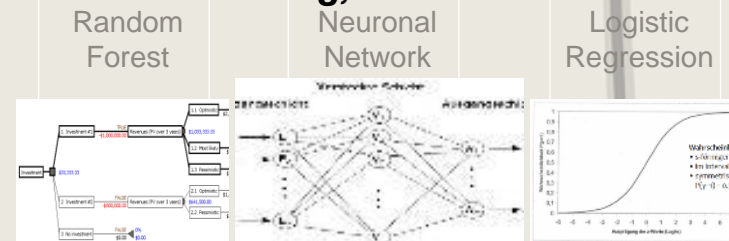
Analytical Base Table

~ 8 Mio. rows



❶ ABT holds anonymized information at customer level (~ 2.3k features)
transposition, aggregation and summarization of ingested data

❷ Model building, evaluation & selection



❸ Scoring: Identify customers with high churn probability

KNR	Expiration	OE-NR	Segment
4711	01.09.2018	00110-128	1
987654	15.09.2018	00128-110	1
192837	01.09.2018	04711-815	1
...

❹ Implementation of measures to prevent cancellations

Stand: 12/2016

The environment for insurance changed dramatically. AI & Data are not any more an *option*. It's a **MUST**.



Generational shifts and
customer expectations



Pricing
pressures



Interest rate
environment



Risk &
compliance



Need for digital channels
and digital products



Frequency and severity
of claims



Legacy IT-
infrastructure



Regulatory
regimes

To boost value creation from AI, data must be seen as a core strategic asset



Leverage knowledge

More data means more knowledge, more knowledge opens up competitive advantages – if you do it right.

For this, you need proper skills, modern technical capabilities, data-aware mind set and clear priorities in business and IT.



Stay competitive

New players - built on data - acting more opportunity oriented to make use of data.

Other market participants with established data strategies will have advantages in the data age.



Comply regulations

Due to growing business impact and new data related risks, regulatory requirements are increasing.

Core initiatives / projects as well as Audit and risk management asking for enhanced Data Governance capabilities.

The ERGO data vision

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Continuous Data Management

- Embed data management deeply in the day-to-day operations across ERGO
- Improve data management over time through dedicated roles, processes and tools

Data Literacy

- Build data capabilities on all levels across ERGO through field & forum approaches
- Enable easy-to-use self-service experimentation with data to generate new insights

Enabling New Opportunities

- Leverage data for identifying & pursuing new business opportunities and models
- Make data top-of-the-mind when tackling new challenges



Collective Data Access

- Make data universally discoverable and accessible by all and for all operational & analytical purposes
- Comply with regulatory, security, access rights and data protection guidelines

Improving Business Outcomes

- Prioritize data initiatives on high-impact business opportunities
- Contribute to state-of-the-art and sustainable business operations

High Quality Data Assets

- Make data quality assurance an integral part of ERGO
- Actively manage data as a product

ERGO Group's Data Strategy covers Data Culture, Data Management und Opportunities

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Governance, risk management and compliance topics

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Data Management

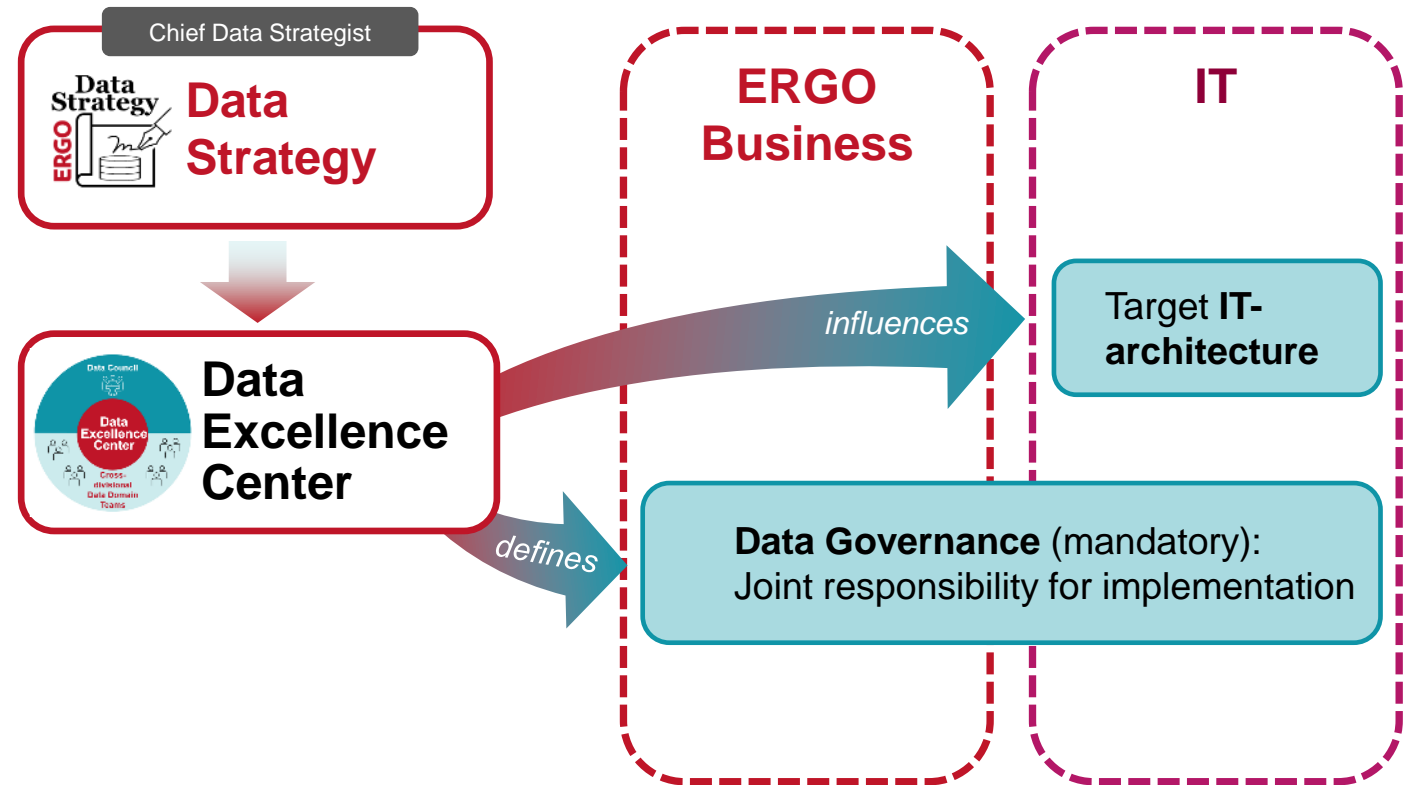


The systematic management of data through collection, storage, processing and provision for business requirements

Data Governance



Defines the framework for responsibilities, processes and standards to ensure data utilization, quality and compliance



Data management becomes a success factor when data governance is implemented effectively.

Expectations with GenAI adoption are high...

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KPMG on the opportunities in their Generative AI Survey ¹



of respondents expect generative AI to have the largest impact on their businesses out of all emerging technologies.



believe generative AI will increase workforce productivity.



will implement their first generative AI solution within the next two years.



believe generative AI will help their business gain a competitive advantage over competitors.

BCG predicts up to 40% potential work time reduction thanks to Generative AI automation / augmentation ²



(1) KPMG Generative AI Survey (updated 06/2023), see: <https://kpmg.com/us/en/articles/2023/generative-artificial-intelligence-2023.html>

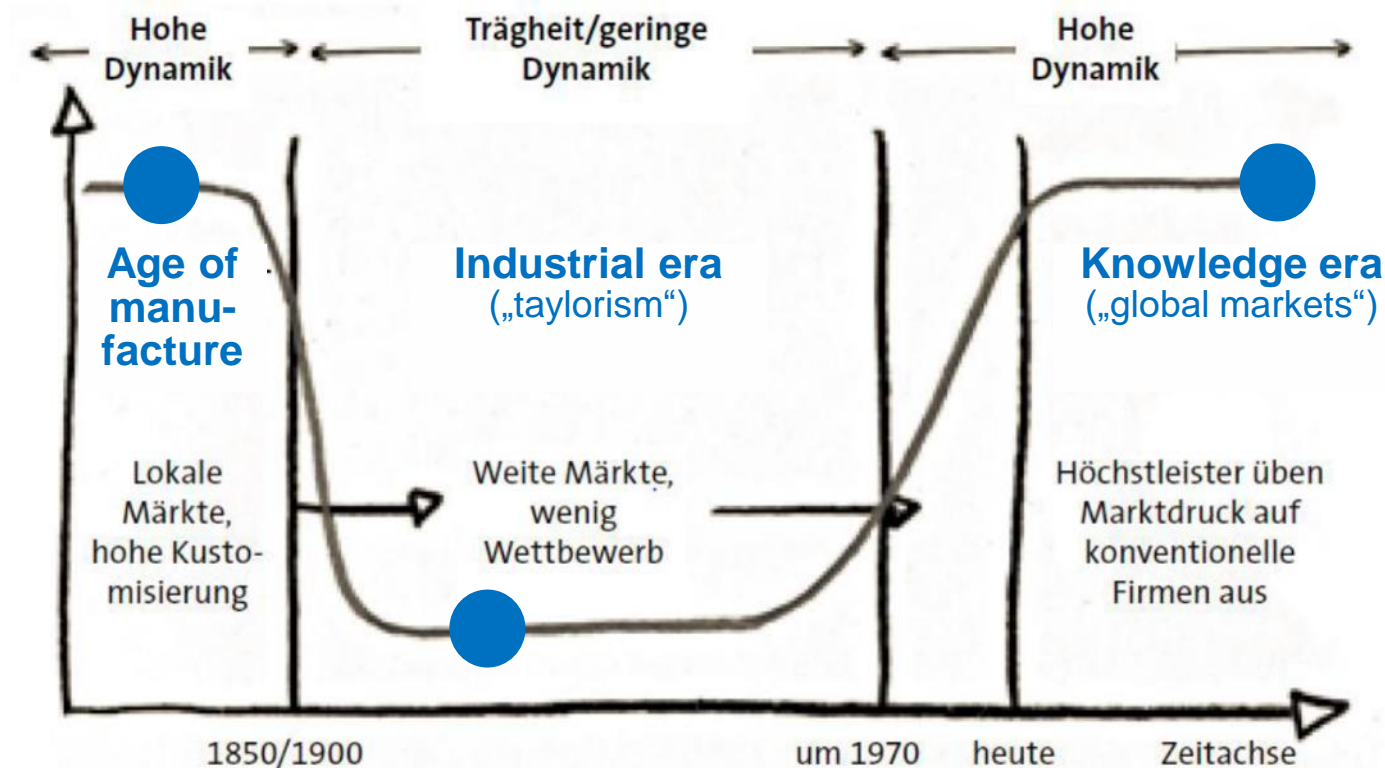
(2) BCG 2023 YTD client diagnostic averages, see: <https://www.bcg.com/publications/2023/assessing-the-impact-of-generative-ai-on-workforce-productivity>

GenAI has the potential to achieve a new plateau of productivity

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Objective: competitive advantages through ML



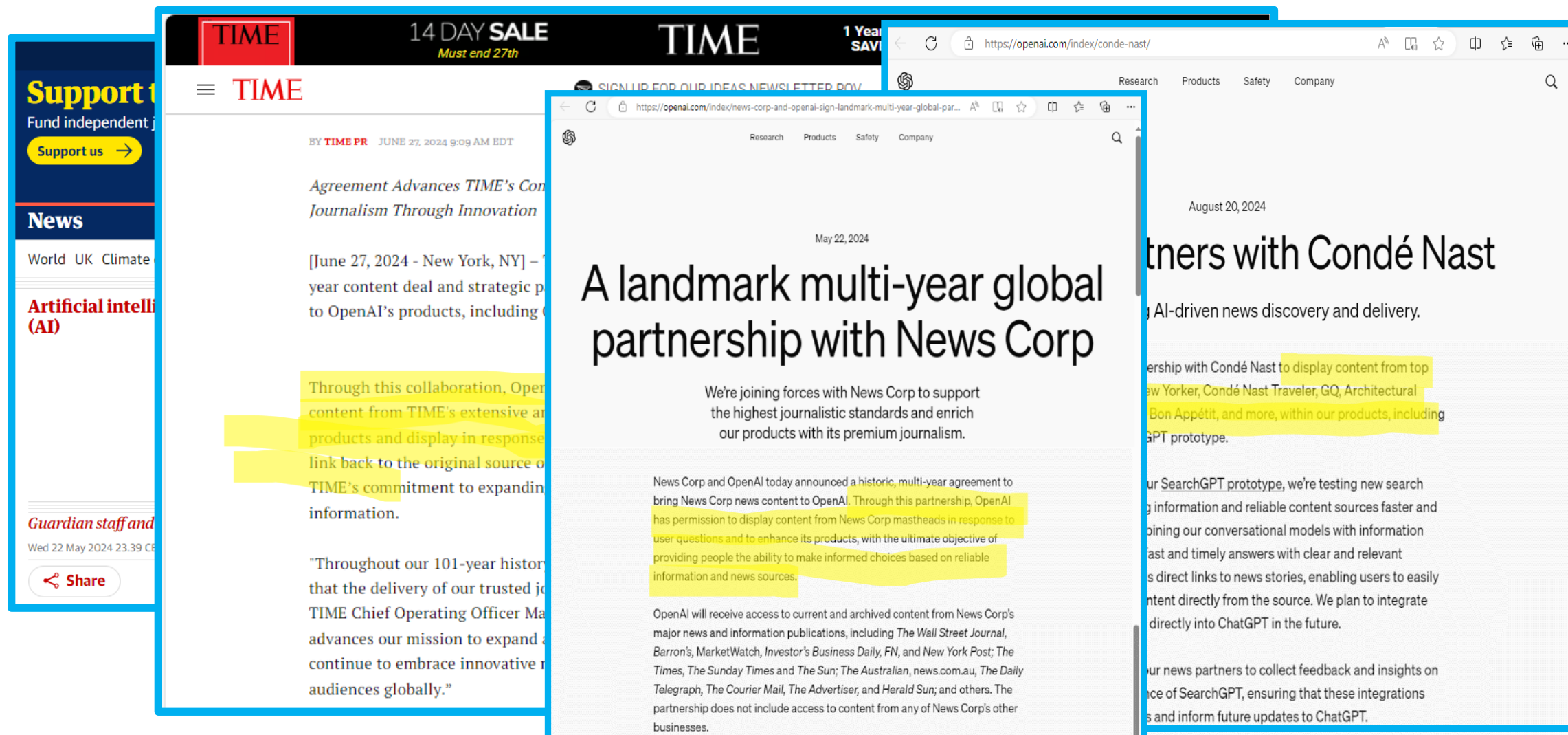
Imperative: keeping pace with GenAI

Quelle: Pfläging, Niels: Organisation für Komplexität, BetaCodex Publishing, Band 2

Challenge: LLM's have an insatiable thirst for data

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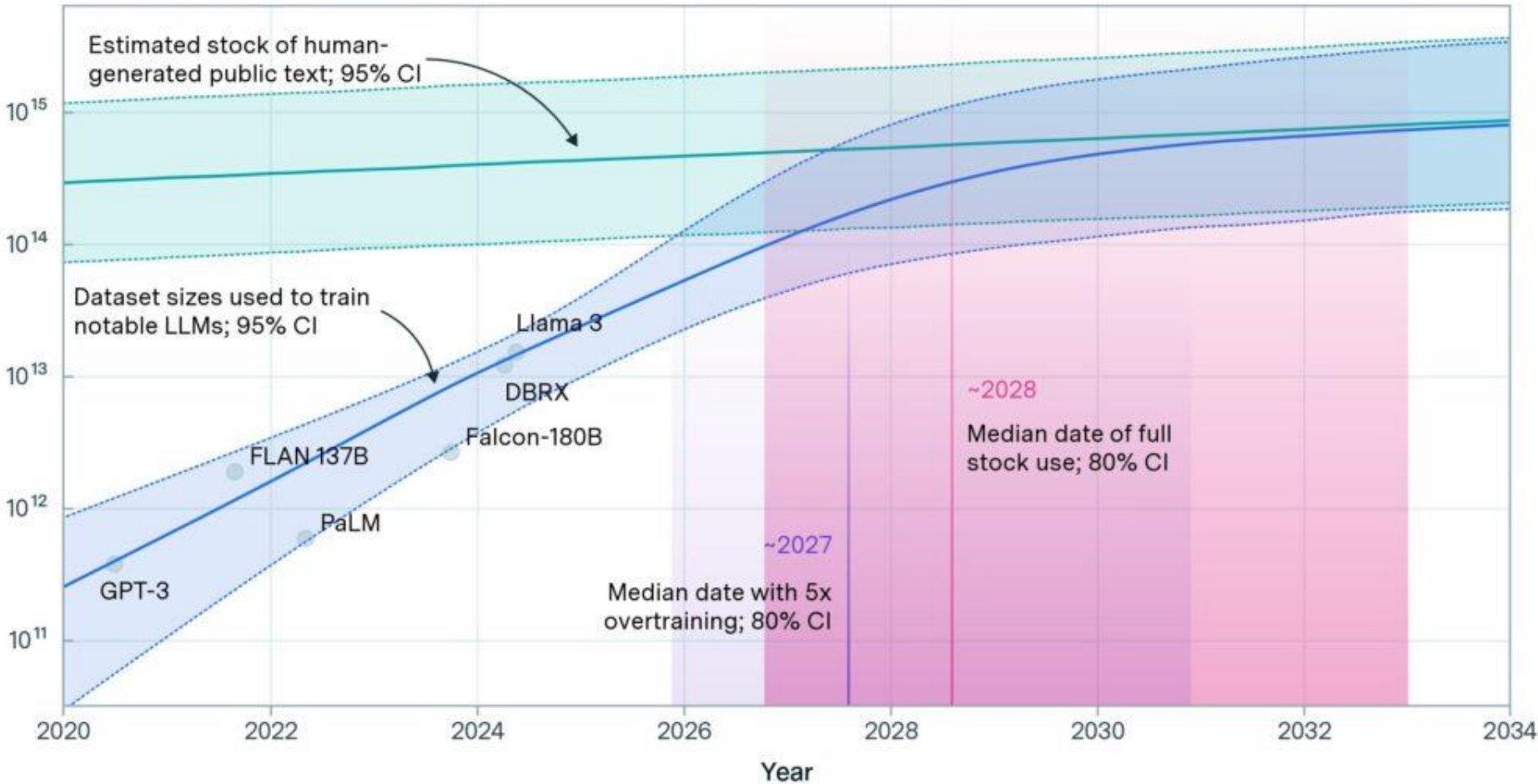


Challenge: LLM's have an insatiable thirst for data

Projections of the stock of public text and data usage

EPOCH AI

Effective stock (number of tokens)



<https://www.spiceworks.com/tech/artificial-intelligence/articles/is-llm-training-data-running-out/>

Support

Fund independent

Support us →

News

World UK Climate

Artificial intelligence (AI)

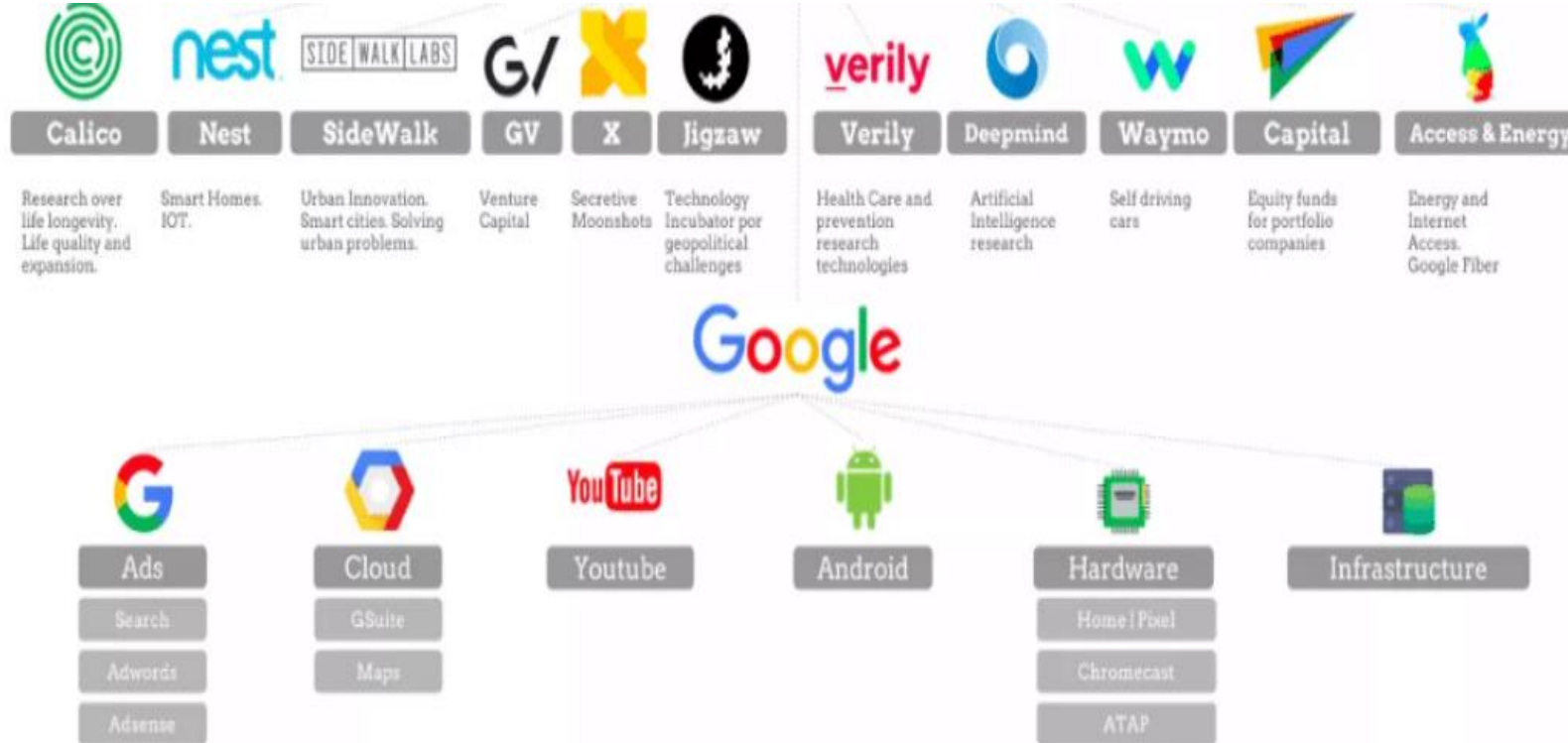
Guardian staff

Wed 22 May 2024 23:00

Share

So – what does it mean to have data that no one else has?

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GOOGLE / BUSINESS / TECH

Google completes purchase of Fitbit



/ The \$2.1 billion acquisition was announced in November 2019

By JON PORTER and MICK STAFF
Jan 14, 2020, 3:00 PM GMT+1 | 0 Comments



Fitbit's recent Sense smartwatch. Photo by Robert Ross for The Verge

Proprietary semi- and unstructured data become ever more important: “Any LLM needs your data”

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EXEMPLARY

Raw Data



(still) Pictures,
e.g. damages

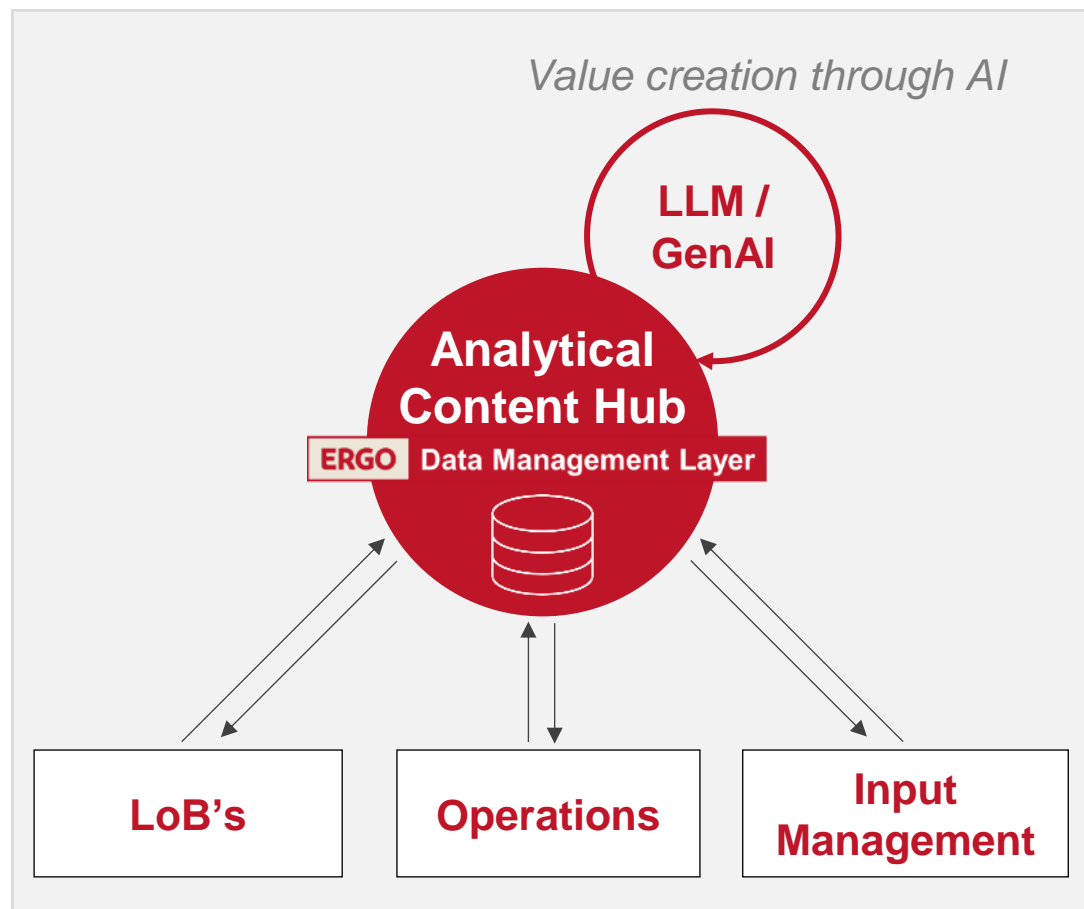


Text
e.g. customer letters,
expert opinions, ...



Sound / Video
e.g. telephone calls,
video consultation

Lakehouse / Large Unstructured Data Hub

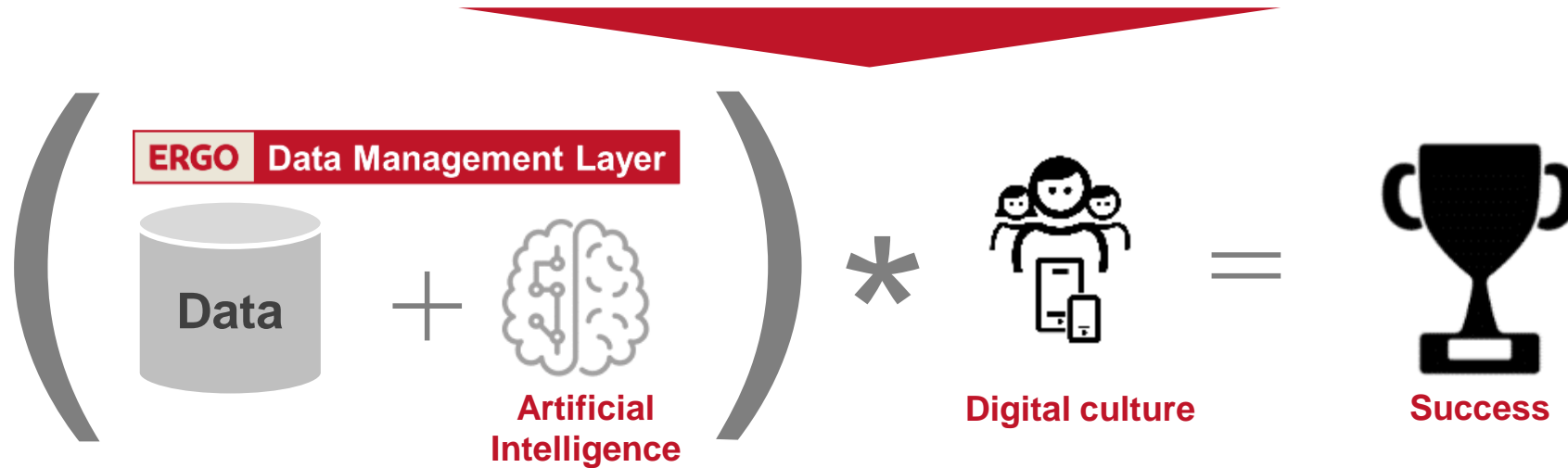


Enables at scale...

- Central storage
- Global access
- (Gen-) AI functionalities
- Intuitive usage
- Context-based search
- Automatic translation

*indicative, non-exhaustive

Consistent use of data, technology, skills and culture must come together to make (Gen-)AI enterprise-ready



Thank you for your attention.

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<https://www.innovative-leaders.de/Ki-Innovation-Award/>

<https://www.the-digital-insurer.com/insurer-innovation-awards-2022-emea-winner-ergo/>

<https://link.springer.com/book/10.1007/978-3-662-66278-6>

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