

From Silos to Synergy

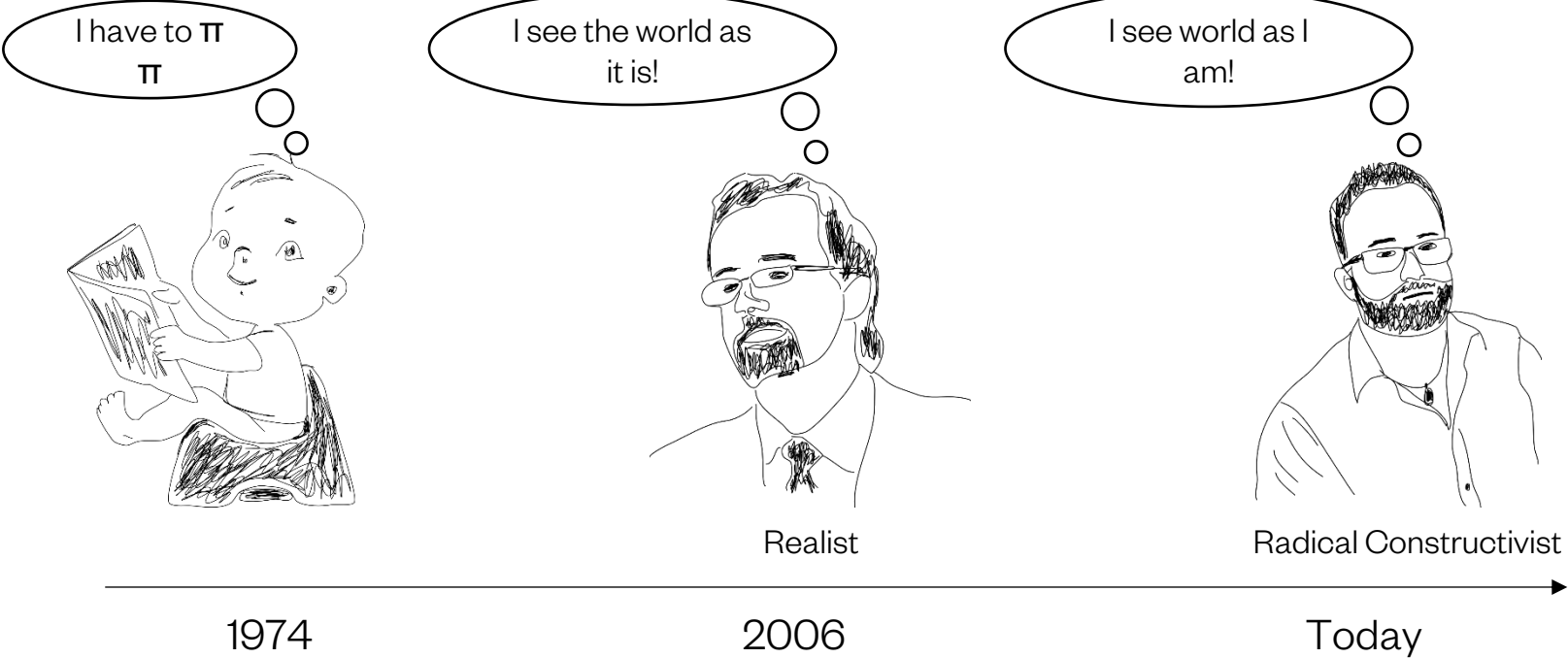
**Data, AI and Collaboration as
disruptive keys to a successful
future?**

Bremen, June 13th, 2024

Conny Dethloff, Organisationsdesigner

emergize

Conny Dethloff – My Journey of Understanding



Logbook of my journey of understanding: <https://blog-conny-dethloff.de/>

What questions am I answering today?

1

Why are many organisations organised in functional silos?

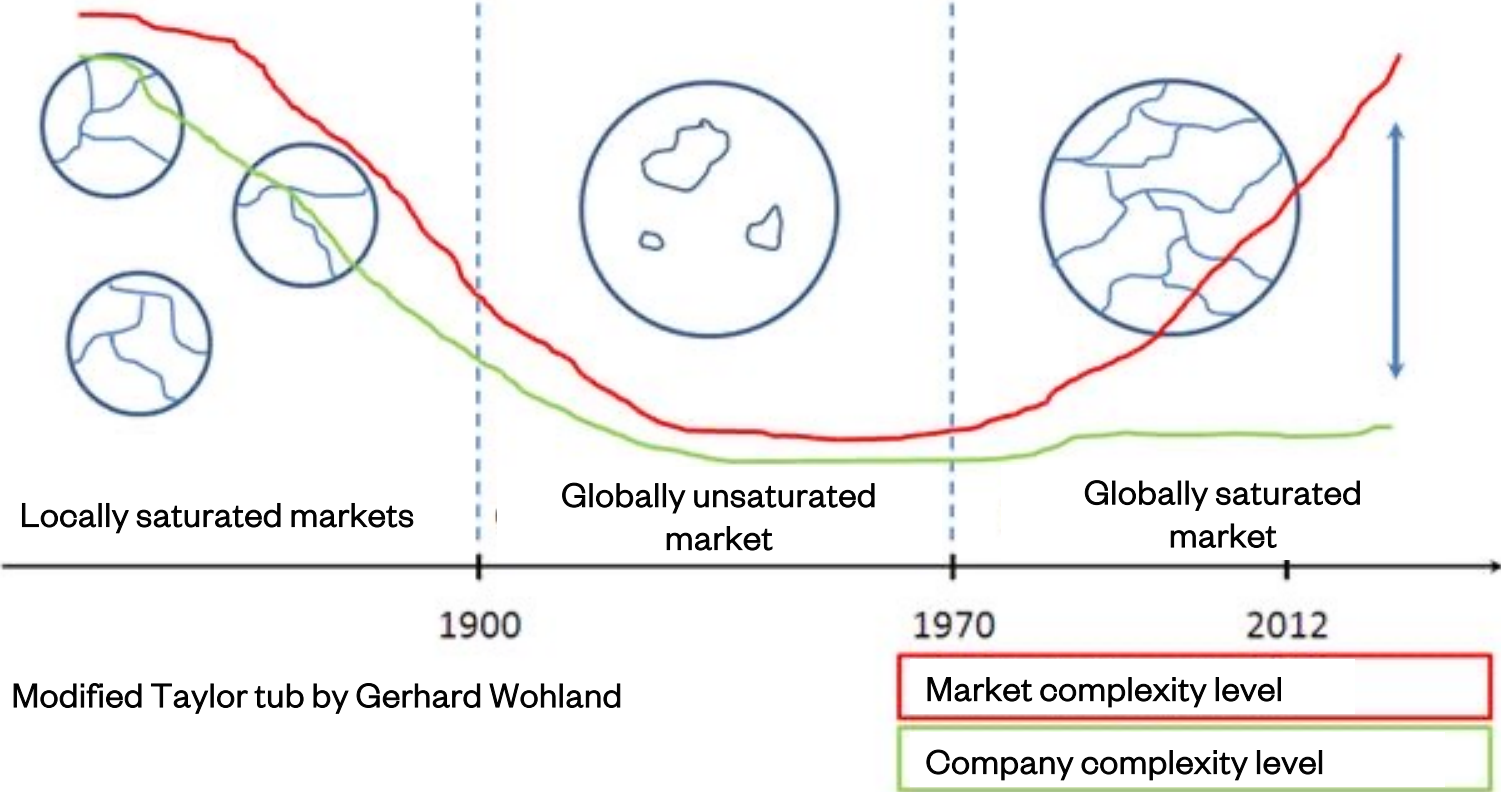
2

Which type of organisation is more suitable for today's markets?

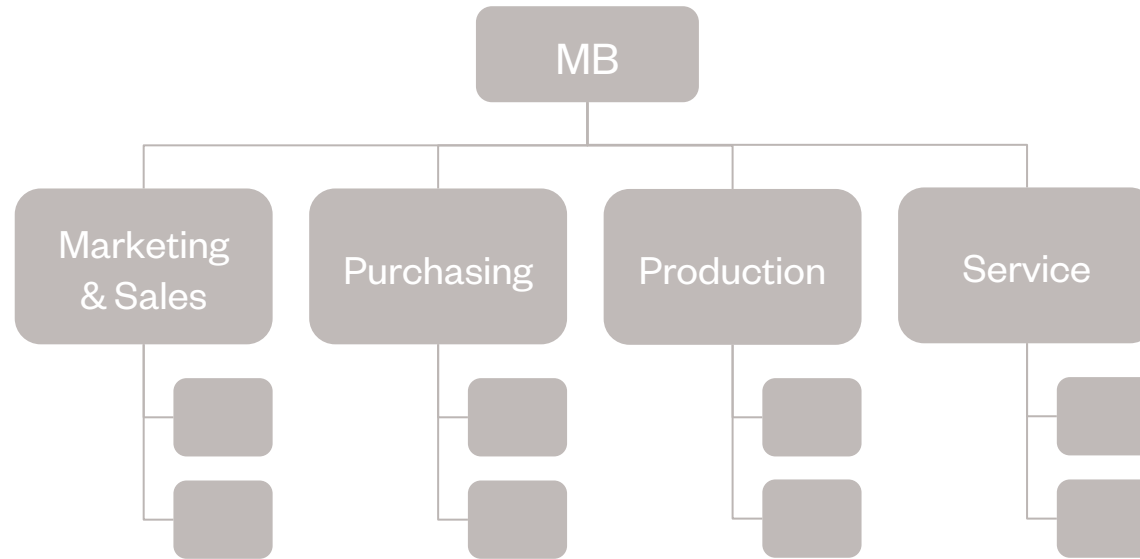
3

How can data be used to play markets better?

Markets have changed from sellers' markets to buyers' markets.

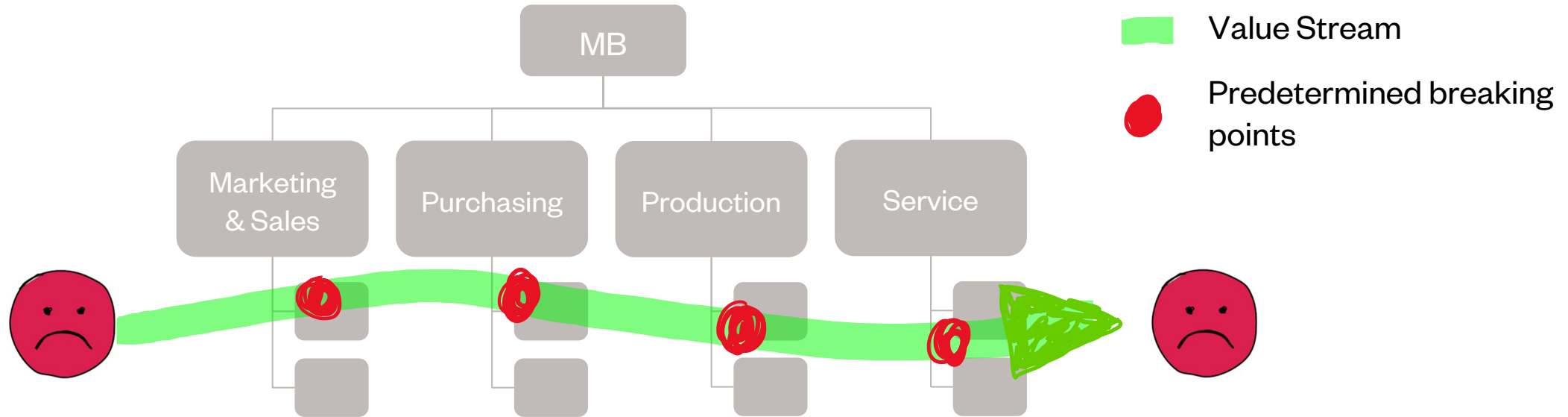


Seller's markets → Companies are designed with local efficiency as a top priority, ...



Existing premise: If local optimisation is achieved in all functional areas, this is good for the company and for customers.

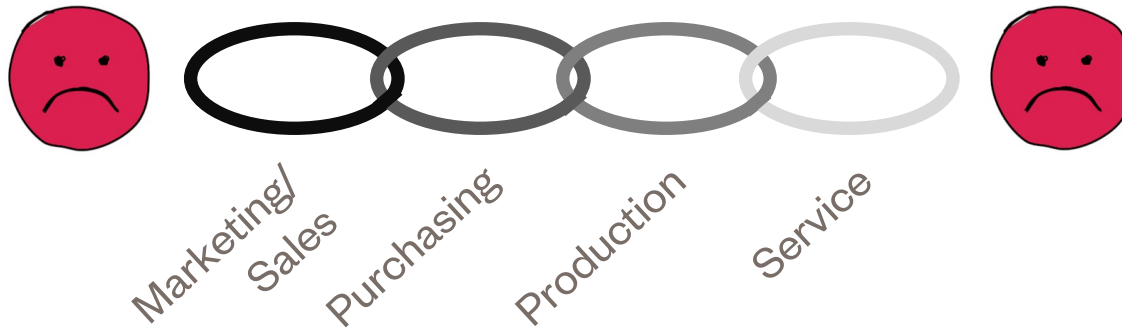
... what a consistent internal orientation promotes **AWAY** from the customer → The „death“ in buyers' markets



New premise: The closer all functional areas in the company operate to the local optimum, the less value the company delivers to markets.

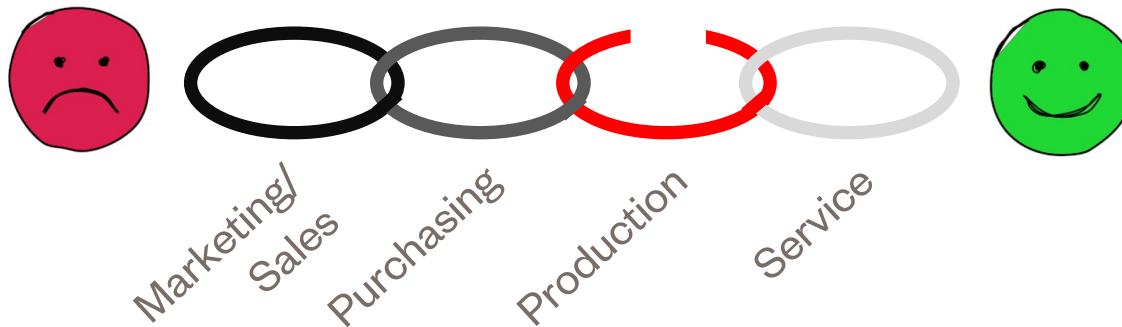
Companies are still in the „Cost World“ and should embark on the journey to the „Throughput world“.

Cost World



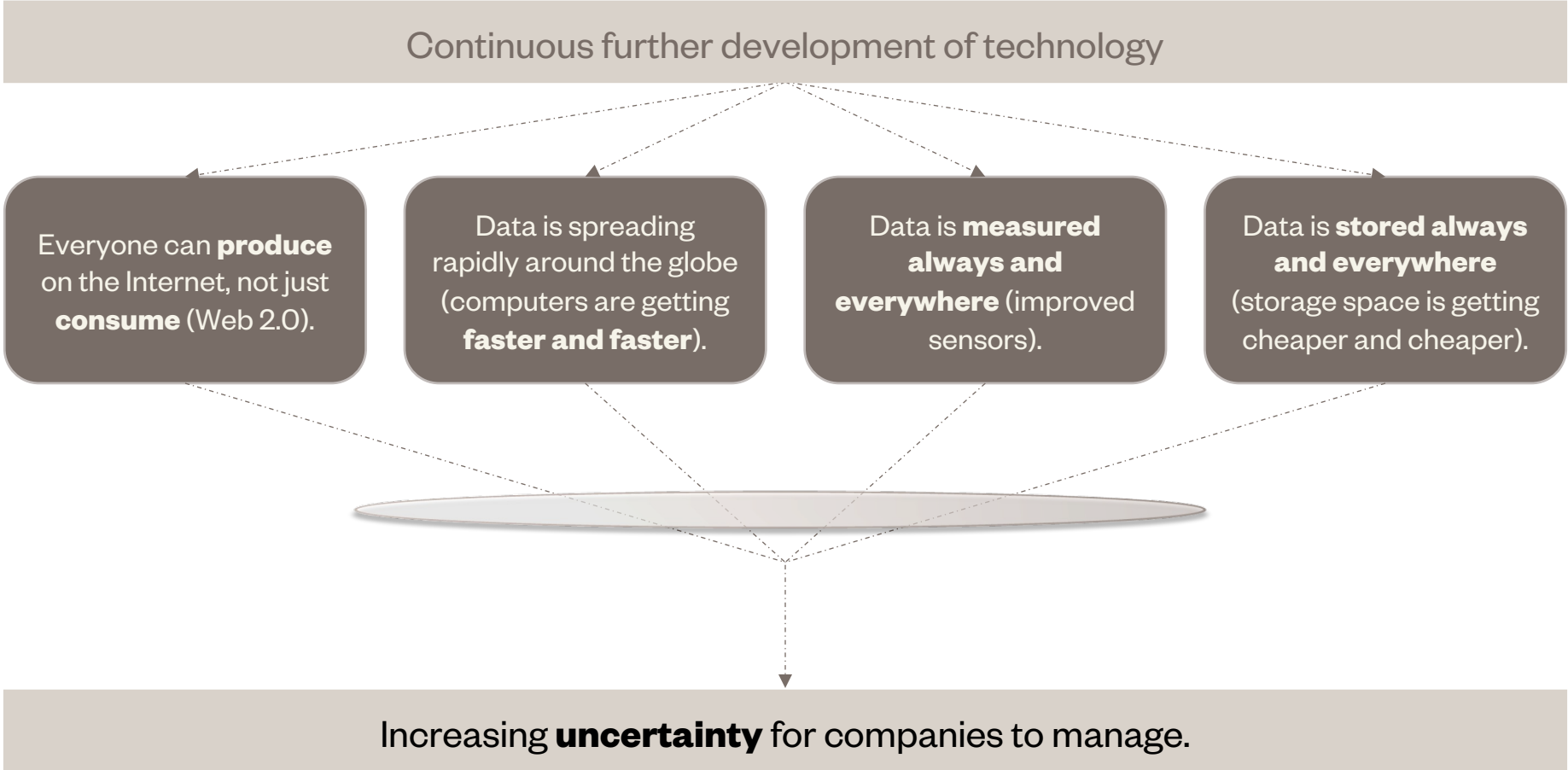
- Local efficiencies are key
- Focus on local optimisation of each link in the chain.
- Company performance is managed according to the weight of a chain.

Throughput World

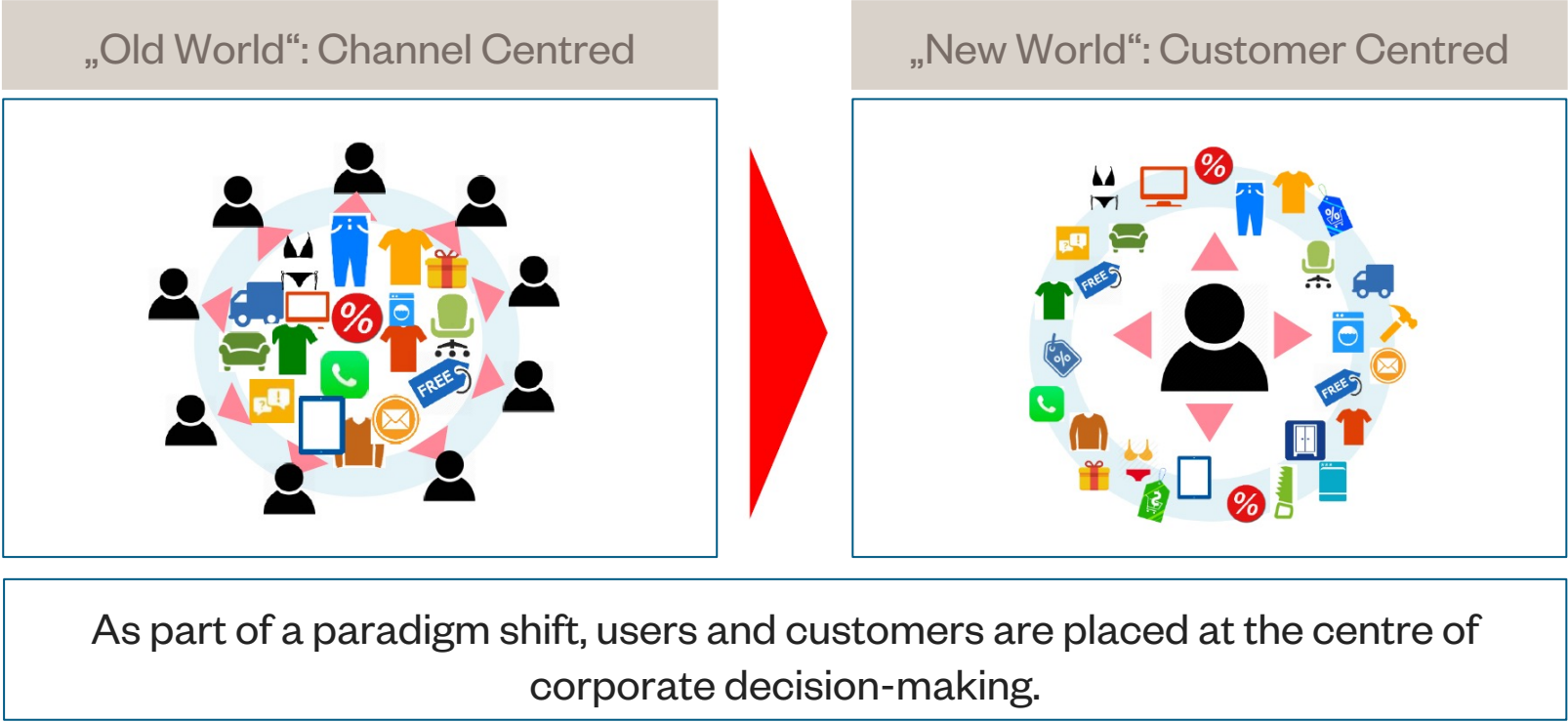


- Local efficiencies have a toxic effect.
- Focus on the 'weakest' link in the chain.
- Company performance is managed according to the strength of a chain.

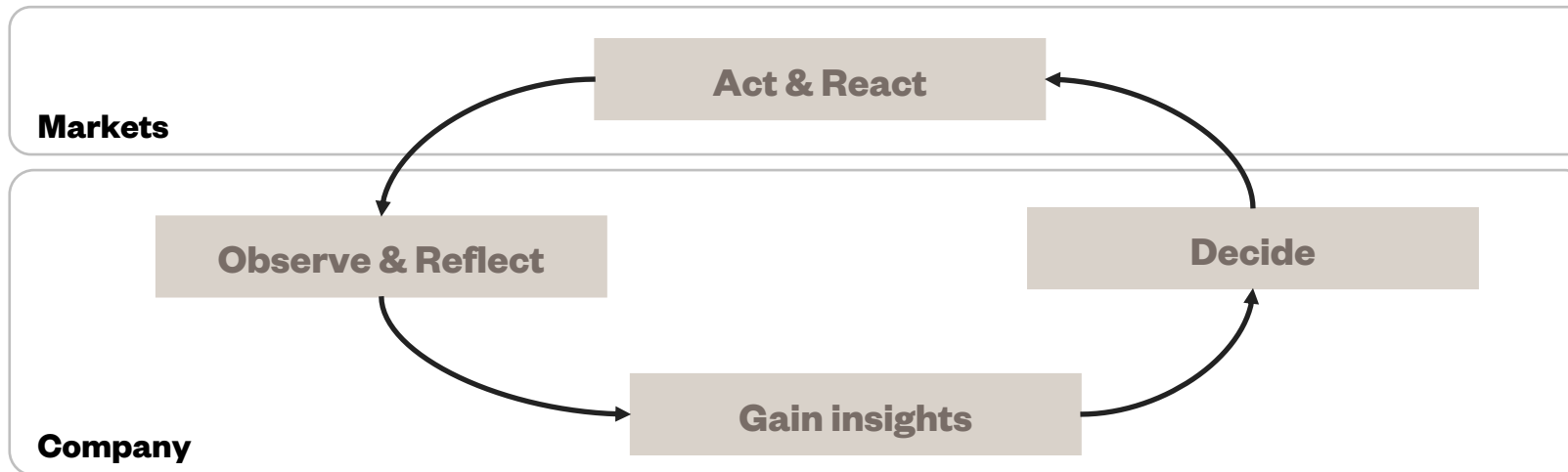
More data means that uncertainty in decision-making situations increases rapidly.



Users and Customers at the centre of all decisions.

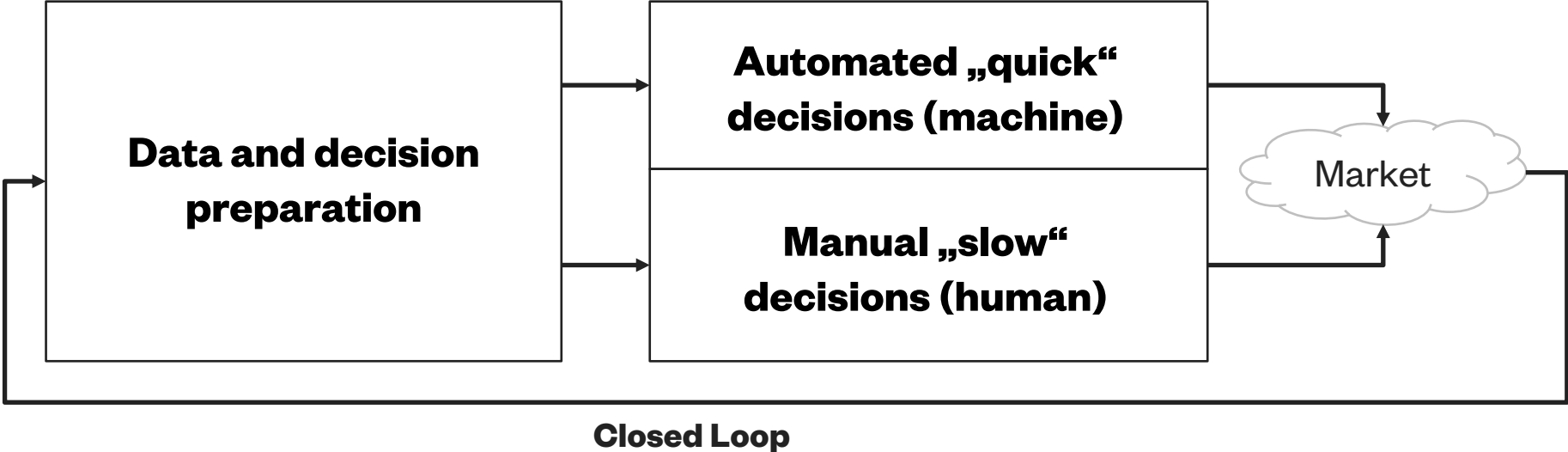


In order to utilise data for decision-making, a closed loop between markets and company must be established and practised.

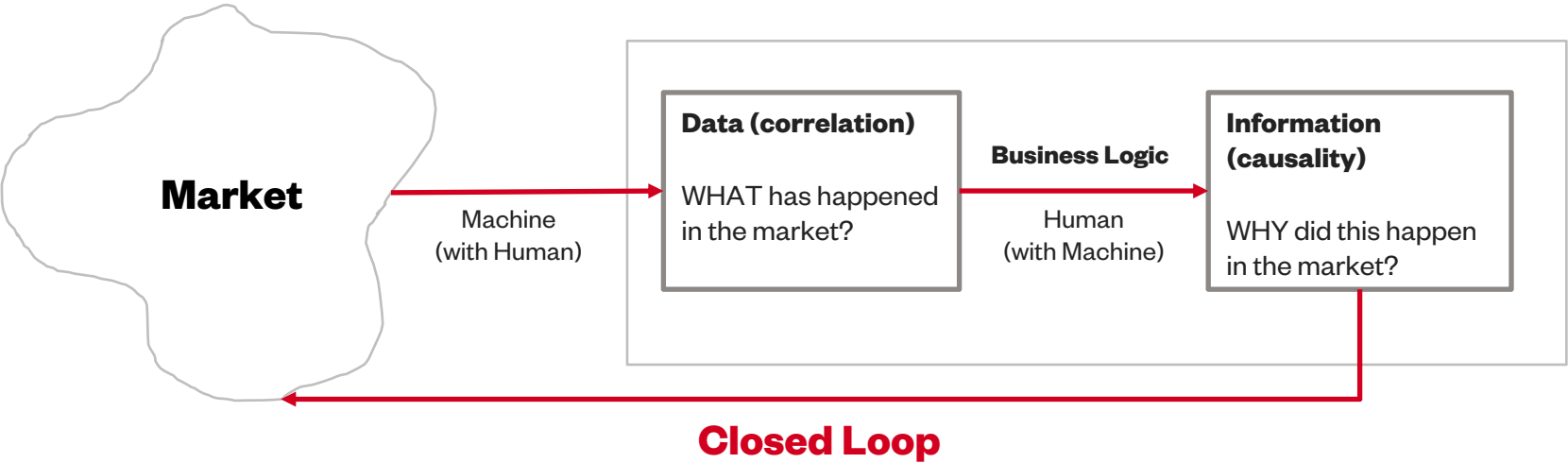


Companies must not only react to the market, they must also shape it. Only then will they remain viable.

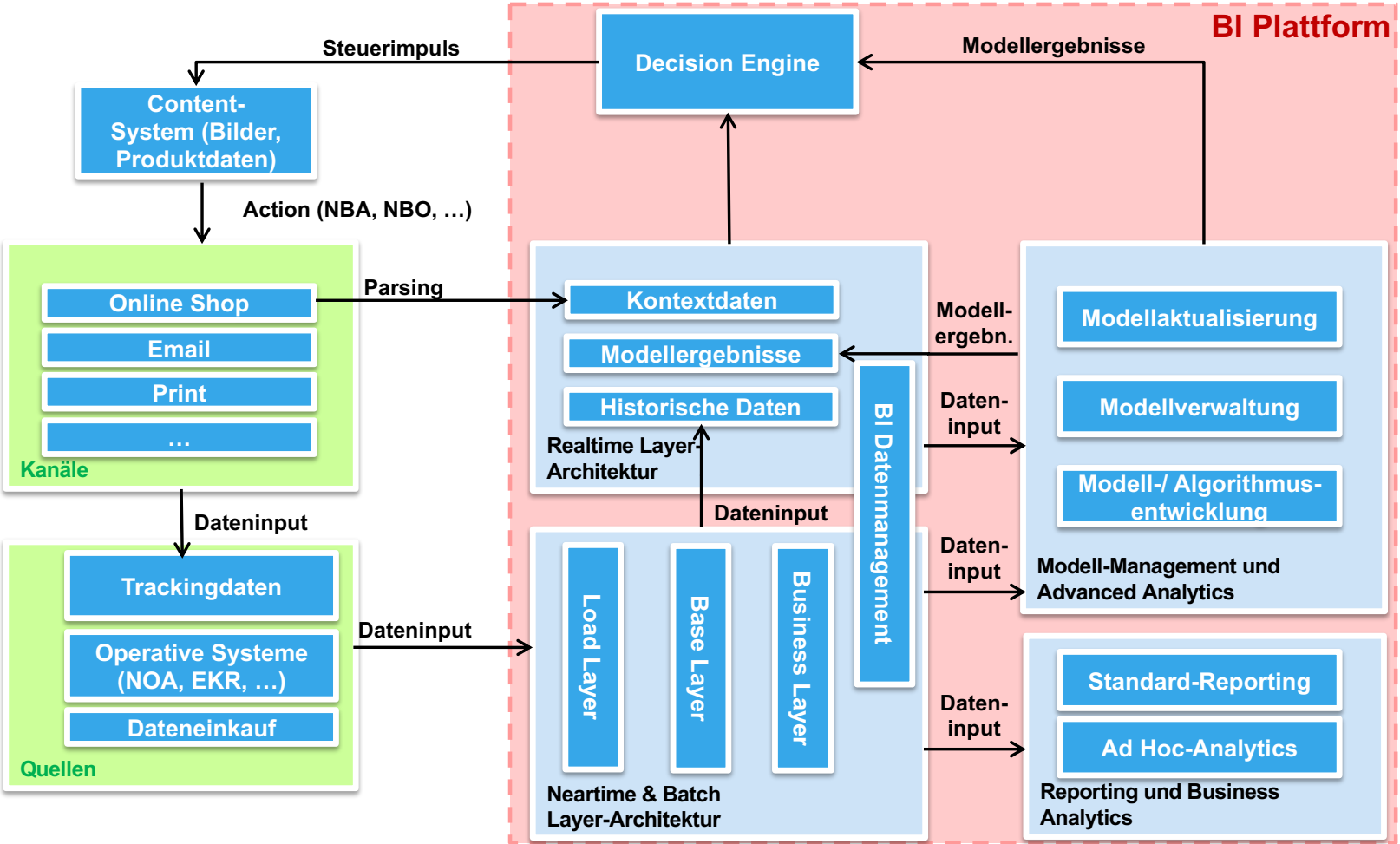
Companies need a holistic business intelligence system architecture to realise the closed loop.



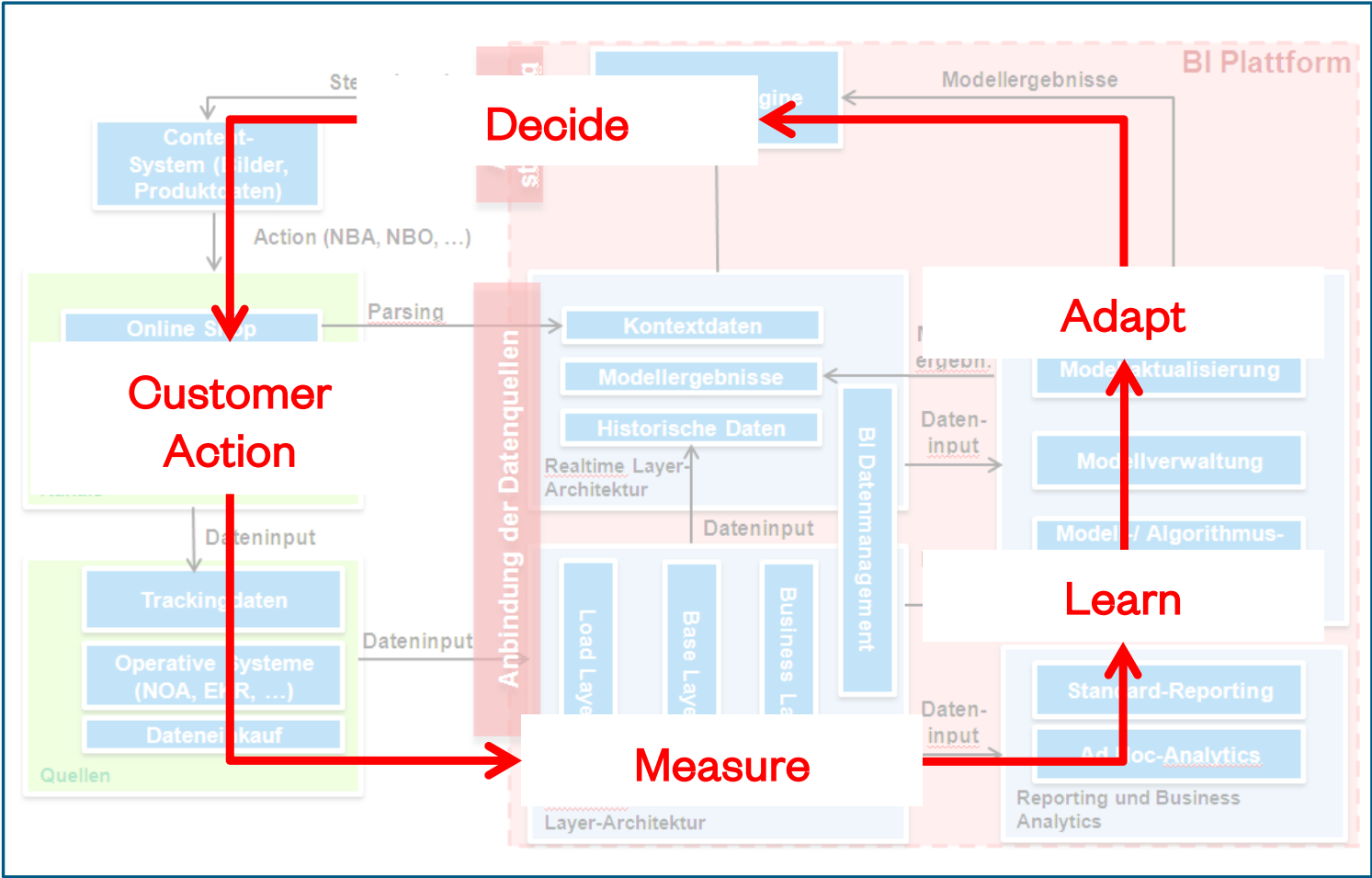
Attention: AI and Data only know the WHAT, not the WHY.



Example of a company-wide BI system architecture using the example of OTTO (as of 2014)



The closed loop between companies and markets is realised with the BI system landscape.



An exemplary data use case from OTTO: Session typology (as of 2014)

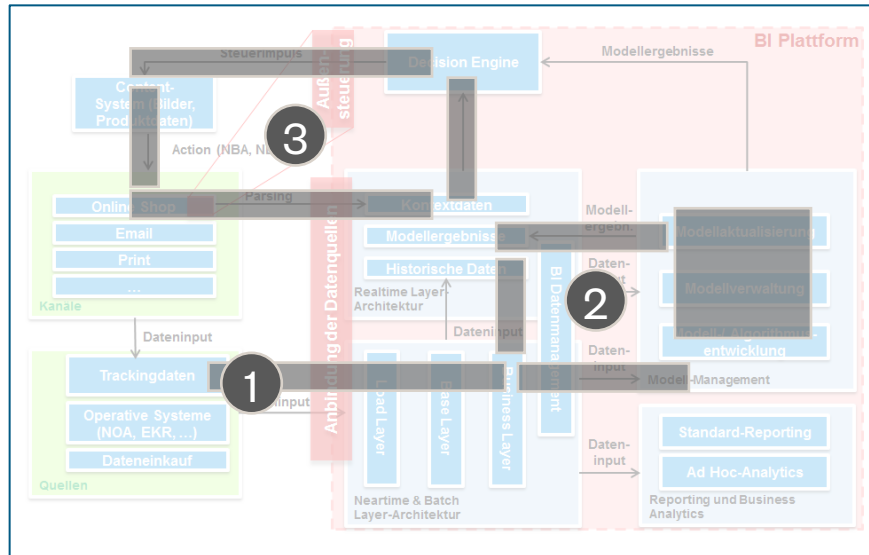
Every Use Case is based on a Hypothesis

The motivation that a customer has for visiting our channels (Browsing, Direct Purchase,...) significantly influences possible offers to the customer on the part of OTTO, which then lead to more sales with the customer.

Description of the Data Flow

- 1 A table of customer click paths is provided from past tracking data and persisted in the Neartime & Batchlayer.
- 2 The click paths are clustered into session types as part of a model. The input for this is the previously agreed conventions on session types (e.g. Which click paths characterise a browsing session?) The output is a table of session types. This table is persisted in the real-time and near-time & batch layer.
- 3 When customers move around the online shop, content is displayed to the customer/user or actions are triggered depending on the current session type (comparison of context with the session table).

Schematic Data Flow



A possible data use case in the paint and coatings industry.

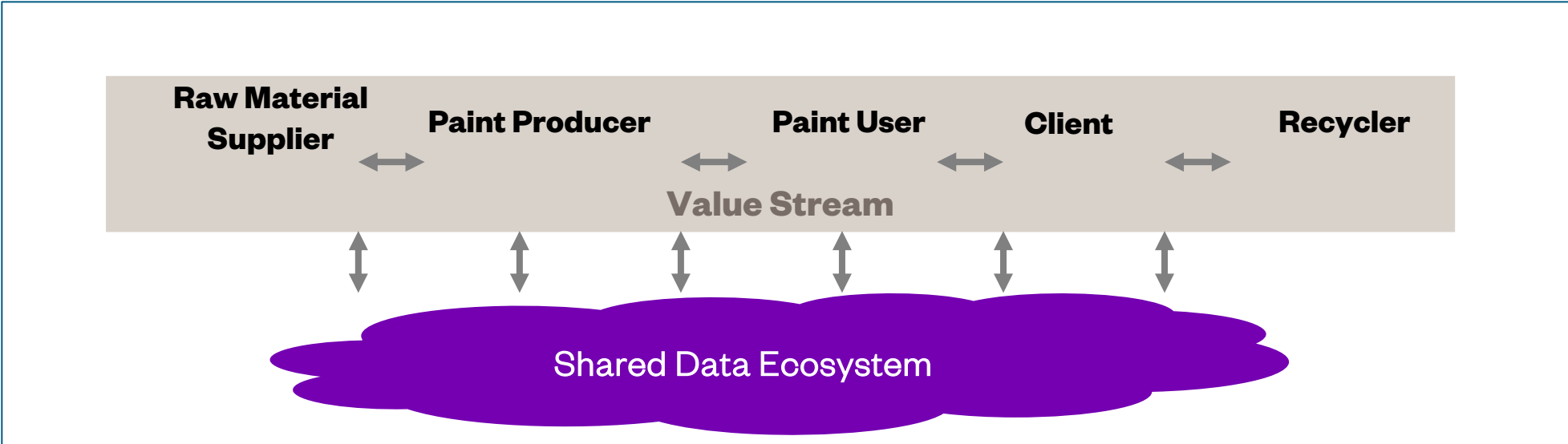
Data Use Case #1

Customers do not want to calculate exactly how much colour they need of which type. They simply want to describe exactly what they want to do and then it will suggest how much of which colour they need.

Data Use Case #2

Customers want to know what components make up the paint or varnish they buy, where it was produced and how it can be recycled.

Value Stream and Shared Data Ecosystem



3 success-critical factors for data-driven business models

1

Value stream driven organisational design beyond company boundaries (partner networks)

2

Cross-company data exchange established by a holistic BI system architecture

3

Thinking in terms of data use cases in order to address and serve customers in a personalised and individualised way

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