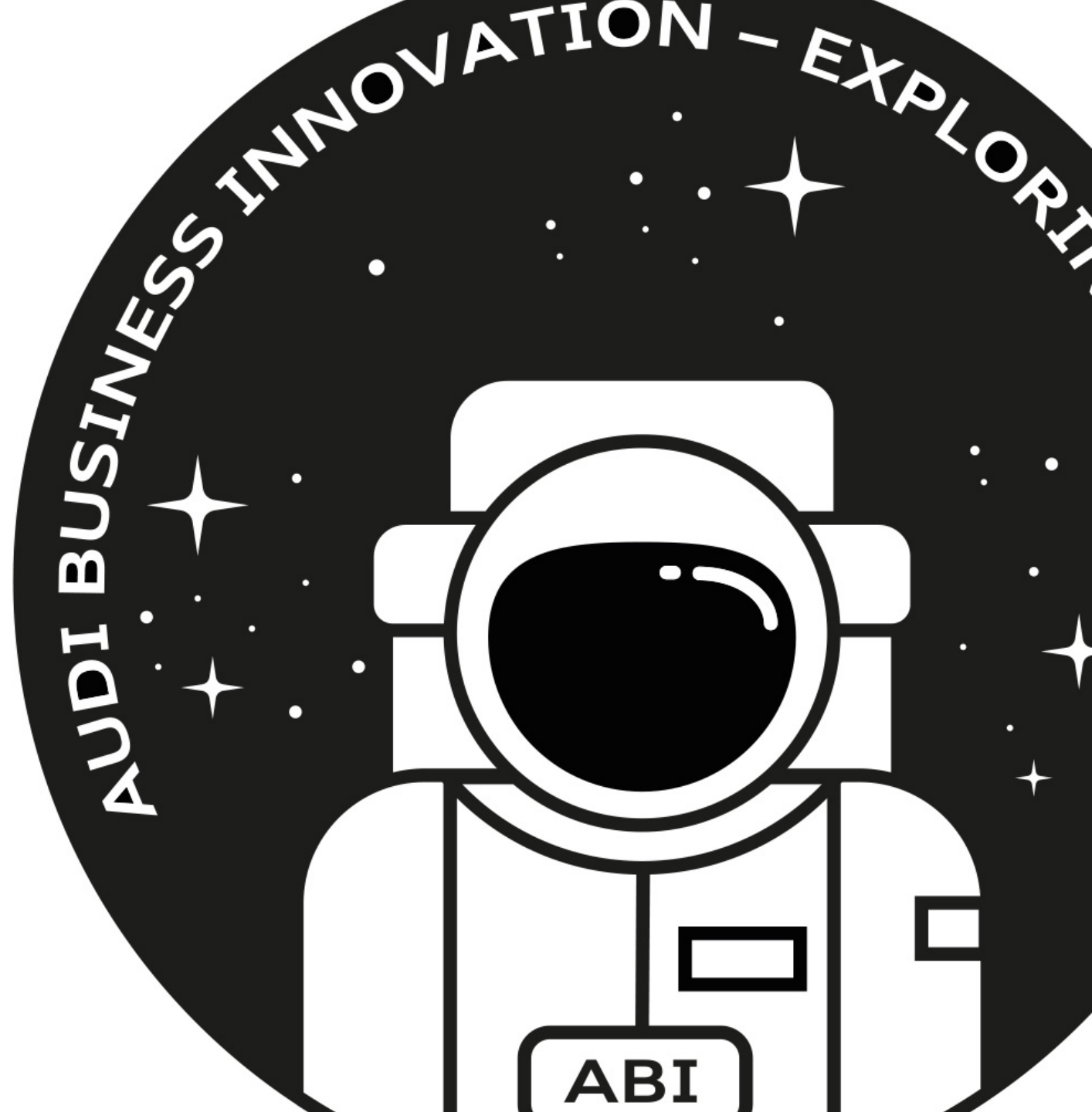


Audi Business Innovation@ Automotive Software Factory: Learning Curves

Potsdam | 22.09.2022



Digital transformation in the automotive industry:



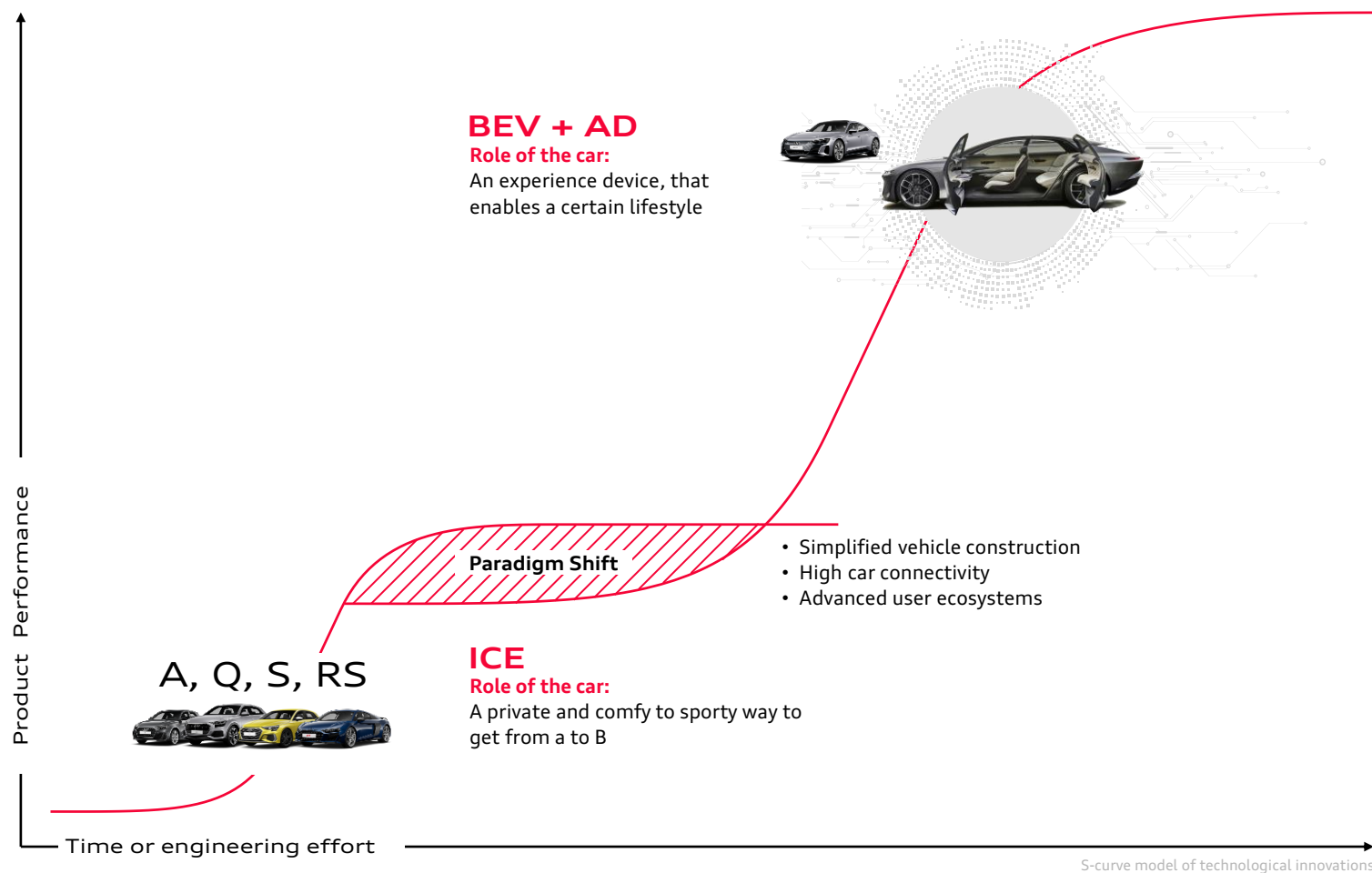
How corporate owned digital units boost car manufacturers to go beyond engineering and sales



**About game changing
parameters...**



The shift from ICE to BEV+AD changes access to the vehicle:
Audi drivers bought hardware, Audi users nowadays buy access to a system.



BEV + AD Paradigm

Software-differentiated vehicles with access to infrastructure and layers of value-added services that make ownership special.

Success Factors	User & Business Empathy Integrated Software & Systems Interoperational Development Inside-out Design & Battery Engineering
Complexity Driver	Software Stack Product Development User Relationship Management
Problem to solve	Tech infrastructure and continuous service updates

ICE-Age Paradigm

Engine specs define the car character, a local dealer network provides local service offer.

Success Factors	Range of Engines Product Manufacturing Local Dealer Ships
Complexity Driver	ICE Engineering Manufacturing Global Sales / Dealer Network
Problem to solve	Engine complexity and sales distribution

>> This paradigm shift requires a new understanding, new methods and new competencies to master it successfully <<

Observation: 3 key dynamics drive BEV

Broader definition of jobs to be done

- › Expansion of roles the brand can potentially play in a user's life. Integrate others or become integrated (commoditized) yourself
- › More points of contact with the user allow for more data points to make connections
- › Solving more problems expands the TAM, reducing the dependency on a single business model

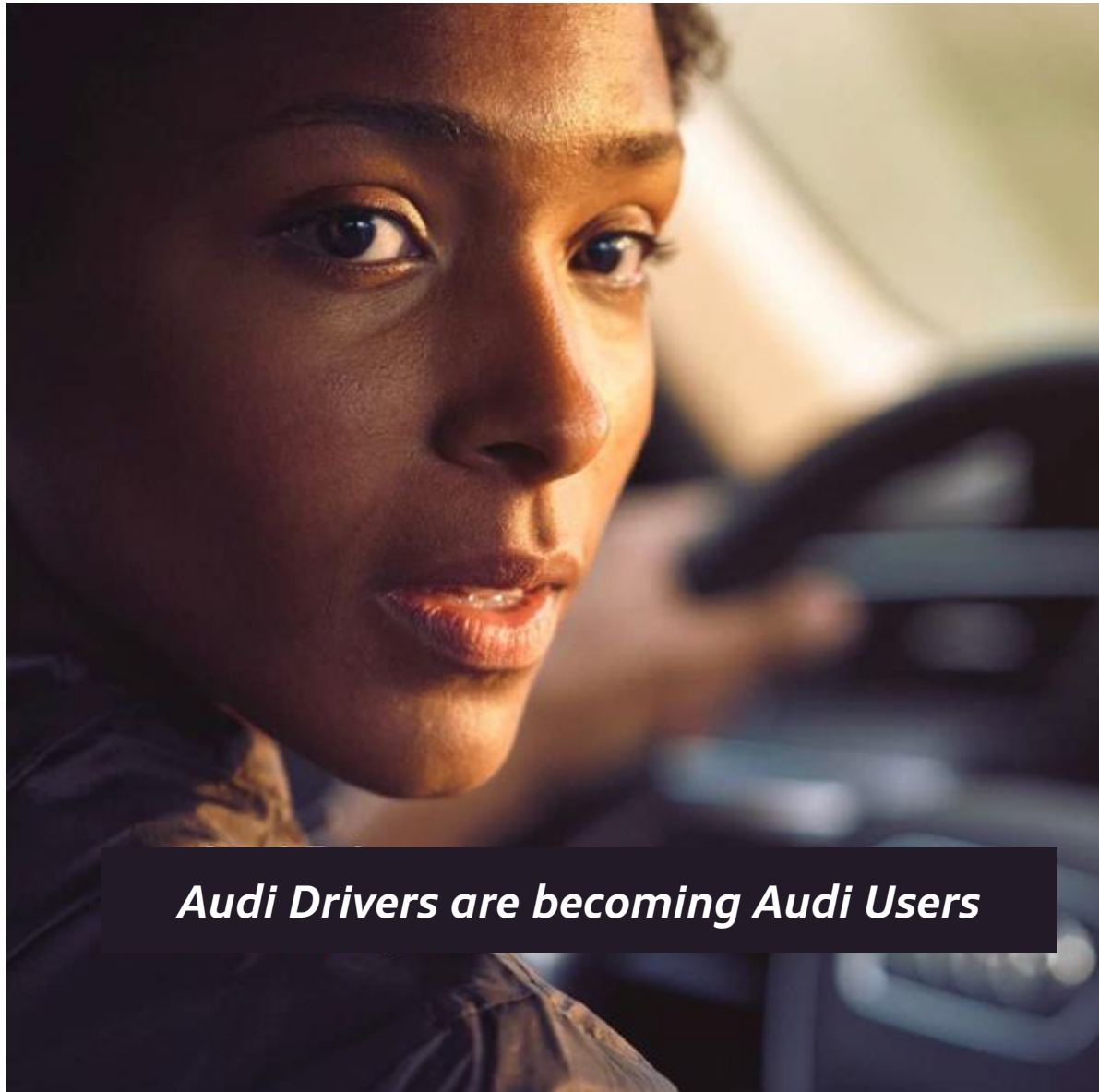
A software stack that allows problem solving

- › Software is core competence and at the center of value creation
- › Companies today are competing for the ability to quickly test new value propositions and develop them into marketable services
- › Flexibility and adaptability of the technical infrastructure are basic prerequisites for success

Strategic use of technologies

- › Certain technologies need to be strategically owned, even if they don't initially map to a business case
- › Huge upfront investment costs of innovations
- › Example: LIDAR, but also voice control and maps (what would have happened if car manufacturer strategically used voice control?)

From one time vehicle purchase to multiple transactions - long lasting business models are changing.





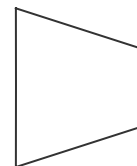
It's all about the customer: From life areas to use cases by explaining the Experience layer

The *Experience Layer (Exploration Layer)* contains three entities:

A **life area** is one of the areas into which clients' activities of their daily life can be divided (e.g., mobility, entertainment, work).

Experience clusters are derived from overlying life areas and aggregate different Use Cases as homogenously as possible (e.g., charging).

A **Use Case** is an action that takes place between a customer and a brand to enable a clearly defined scenario derived from a specific customer intention (e.g., "I have to charge my car in public" or "I want to order food while driving").



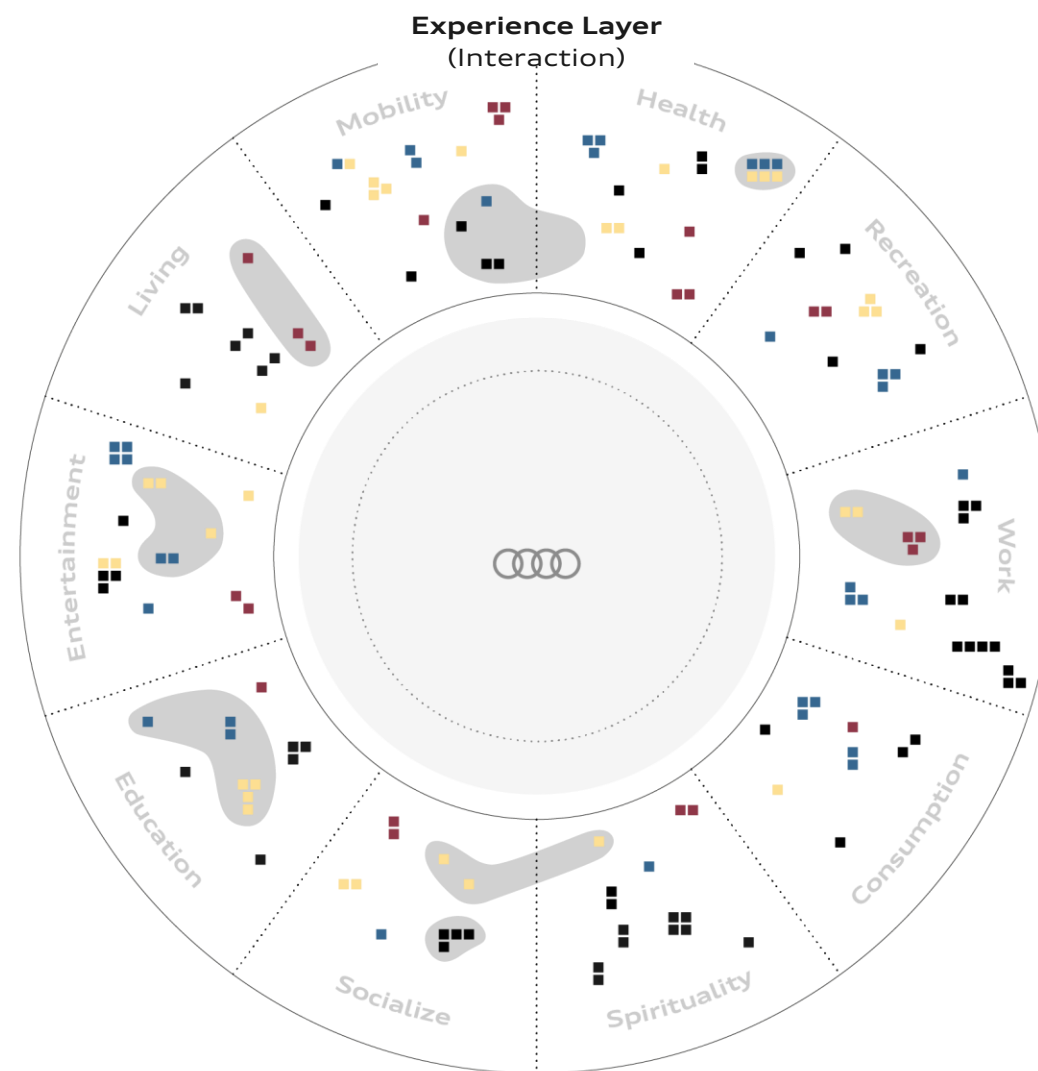
Life Area



Experience Cluster



Use Case



About Audi Business Innovation as Audi's digital product development company...





As a 100% daughter of AUDI AG, ABI focuses on the development and implementation of digital services and products along the customer journey of Audi.



Innovation driver and realizer of strategic competitive business and IT potential: conception and validation of innovative products (degree of innovation and know-how assurance)



Re-thinking business models in another way than it is done at a large corporation



The conscious investment by a group in a small company creates kind of a **protected space / environment**

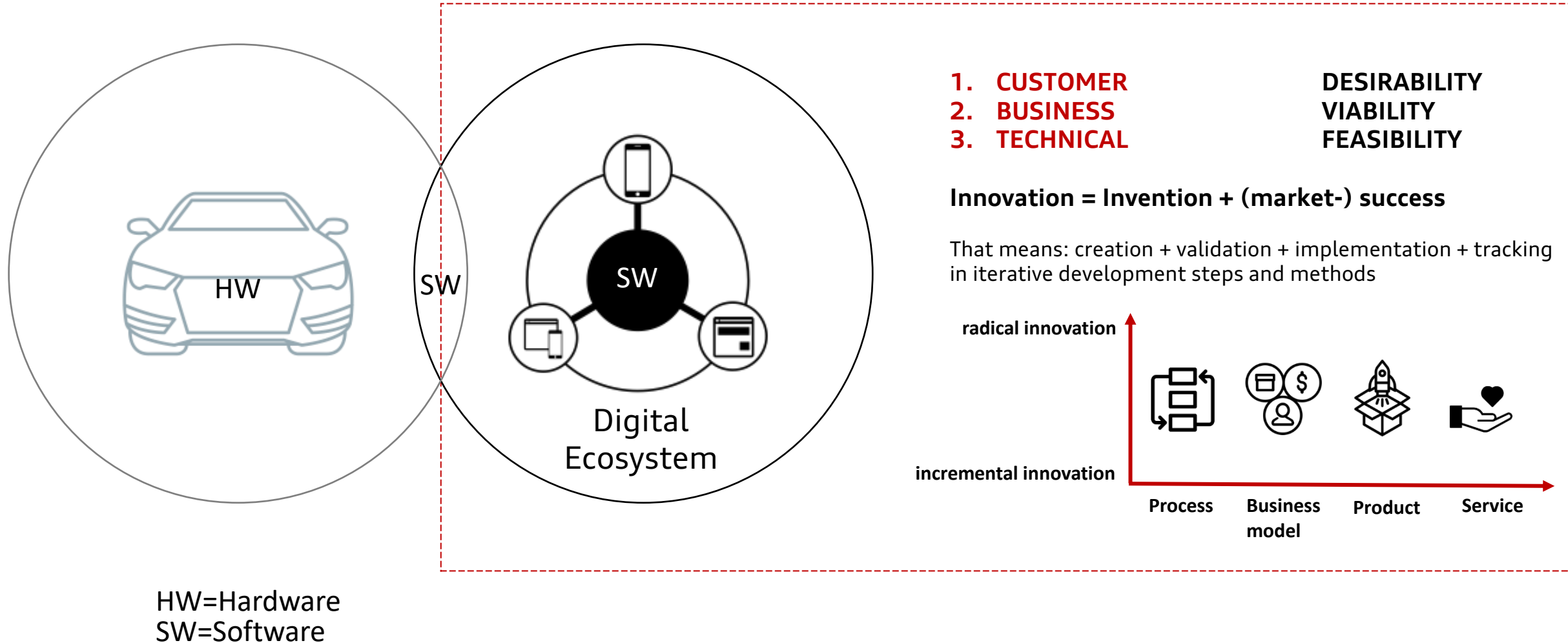


Speedboat through independency: legally independent company with clear roles, lean processes and little bureaucracy (Time2Market)

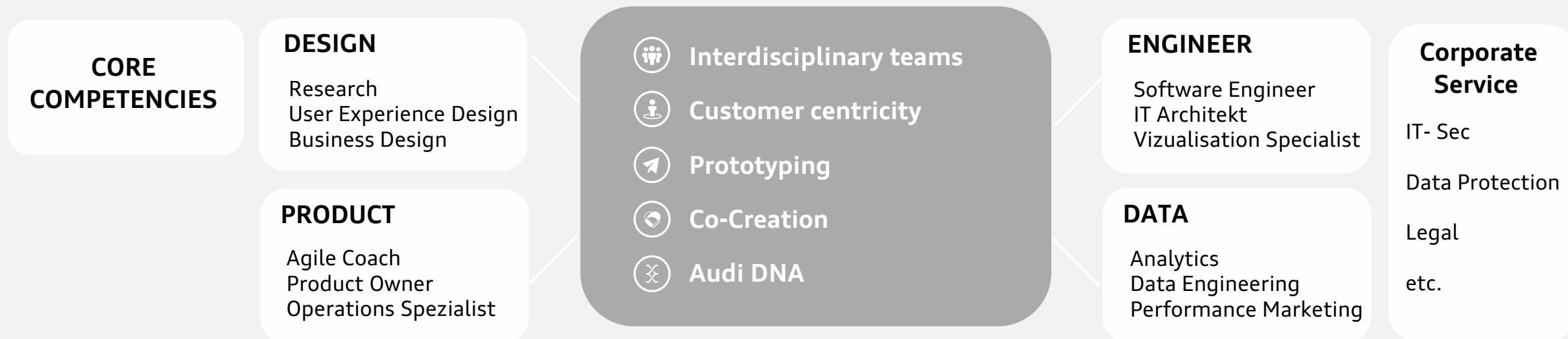
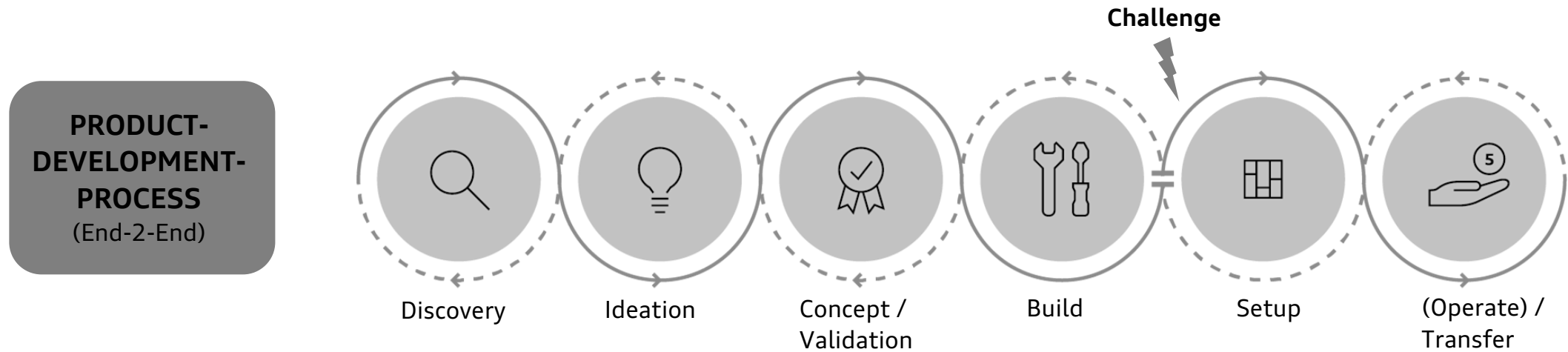


Interdisciplinarity and agile mindset: development and holding of differentiating competencies to the parent company in order to fulfill additional highly specialized activities (“Kerneigenleistung” and expertise)

With expertise and experience ABI contributes to the development of digital services and products for the Audi ecosystem and defines requirements for future car development cycles (HW + SW).



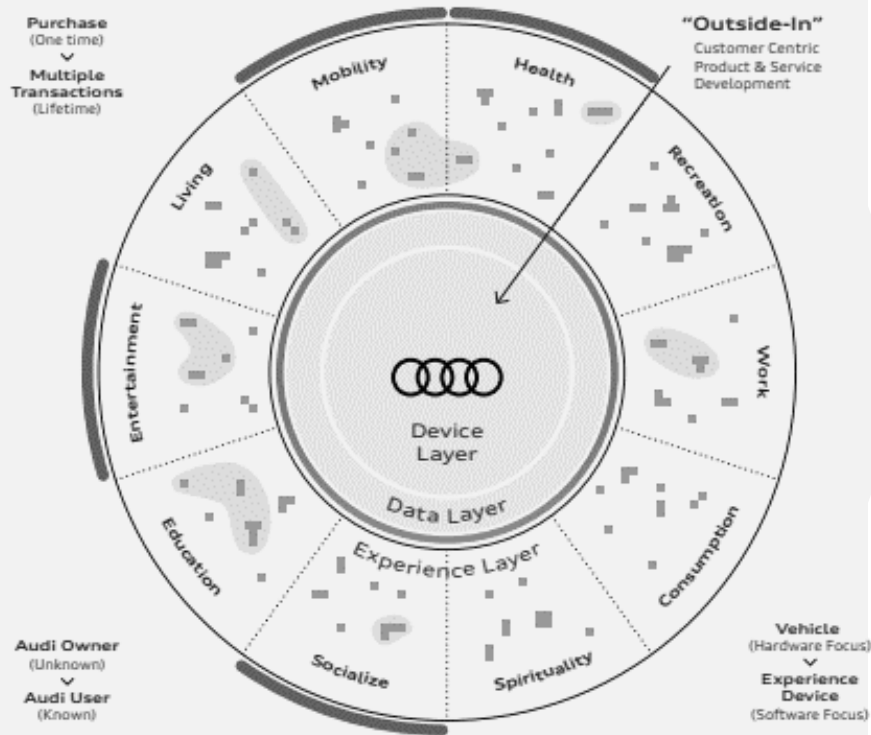
At Audi Business Innovation, we practice covering the entire product development process with interdisciplinary teams



ABI's fields of research & action for customer centric innovations & product development



Trend & Research



Mobility
"I don't worry about charging"

Health
"I want my safety, well-being and future vitality to be positively affected"

Community
"I am part of an exclusive community with access to meaningful content, connections and offers"

Entertainment
"I want in-car time to be an unique premium experience"

User & Business

App & Web

eCommerce

Platforms & Technology

Customer & Data

Digital Product Development Processes

Processes

How to succeed?

CLEAR MISSION/ OBJECTIVE

- › Relevance to the core business
- › Managing with metrics (clear KPIs / OKR driven)

TEAM of EXPERTS

- › Resource allocation along the whole innovation process
- › Will and competencies to work interdisciplinary

(AGILE) WAY OF WORKING

- › Consistent prioritization, fast learning, and targeted adjustments
- › Iterative integration of qualitative and quantitative customer feedback to optimize customer experience quickly → CUSTOMER is KEY

SPONSORSHIP and BUY IN from TOP MANAGEMENT is essential!

- › Stable and wide network in the (VW) group
- › Visibility

MINDSET and ATTITUDE

- › “Culture eats strategy for breakfast”

Strong FOCUS on BUSINESS MODEL and SCALING

- › Clear view of the differentiating digital value proposition
- › Partner selection/integration/ outsourcing is a strategic issue
- › Data are drivers of the digital transformation

Acceptance of the inevitable: Change is constant!



THANX

AUDI BUSINESS INNOVATION GMBH