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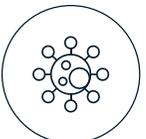
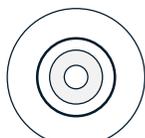
The role of digital health ecosystems

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Current health trends offer new opportunities for ecosystems...

... which are already visible today

- I Demand and supply** are increasing and generate an opportunity 
- II New opportunities** in regulatory environment have come up 
- III Acceleration due to Corona** leading consumers to change their behavior shifting towards digital 
- IV An integrated ecosystem** can drive substantial value for orchestrating healthcare players 



-  **Patient expectations** have already evolved toward digital
-  **Regulatory momentum**, particularly in the context of reimbursement
-  **European teleconsultation market** is growing by ~2-3x each year¹
-  **Activities of competitors** demonstrate the high pace and the ambition to achieve a win-takes-it-all-effect

What is a digital health ecosystem?

A Digital Health Ecosystem...



...enables personalized **patient journeys**...



...by connecting **existing** digital health applications...



...based on technology foundation that allows a **convenient** and **seamless user experience**...



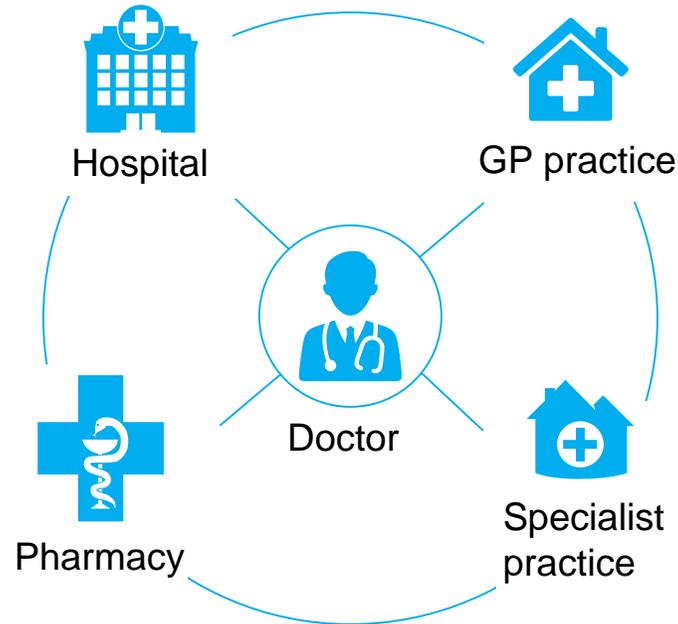
...differentiates itself from single solutions through access and control of **large volumes of data**...



...helping the orchestrator to **navigate patients** through an **online-offline care continuum** of the health system of the future

eHealth and digital health are “different universes” – with little connection so far

eHealth universe

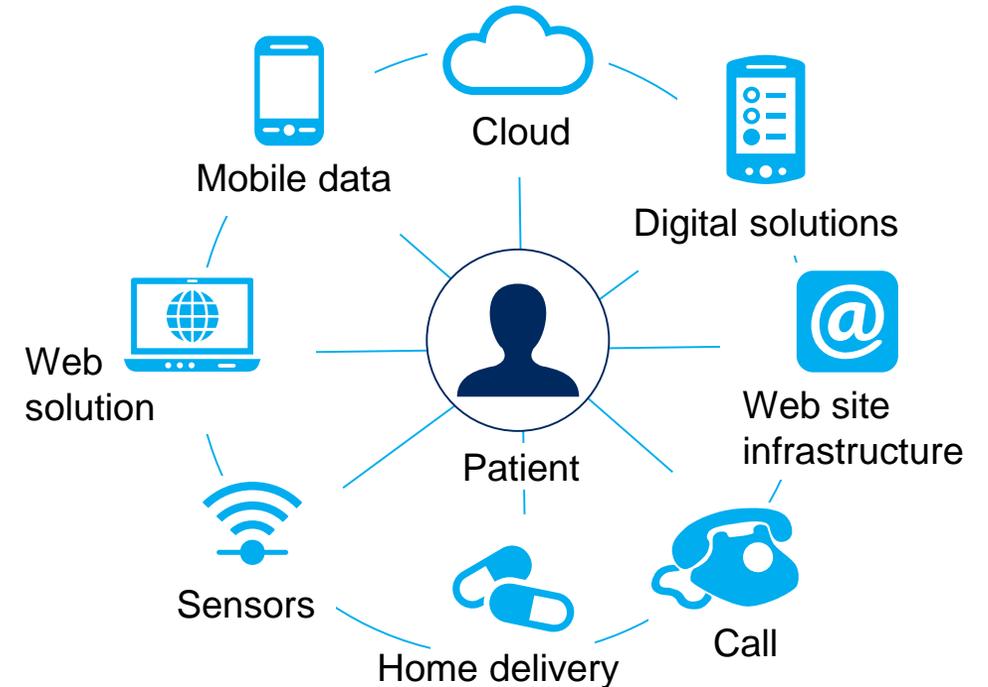


National eHealth programs

Nationally focused
Perceived benefits for HCPs low
Fragmented IT, many with old SW architecture

High stickiness
Change resistance

Digital health universe



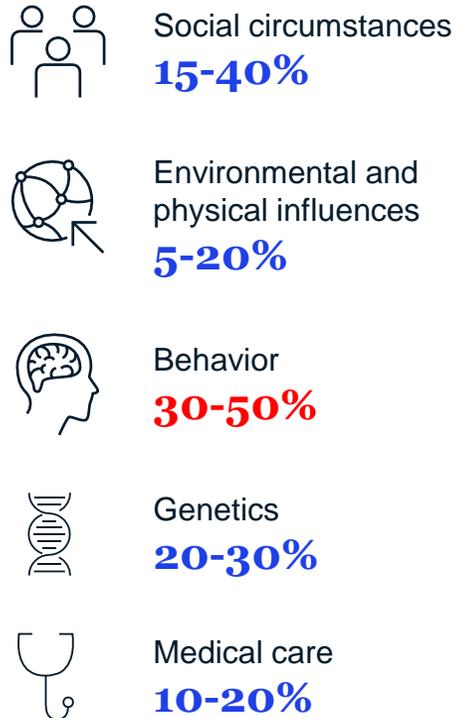
Digital health doesn't look at national borders

Global scale
Intrinsic interest in connecting
Modern IT

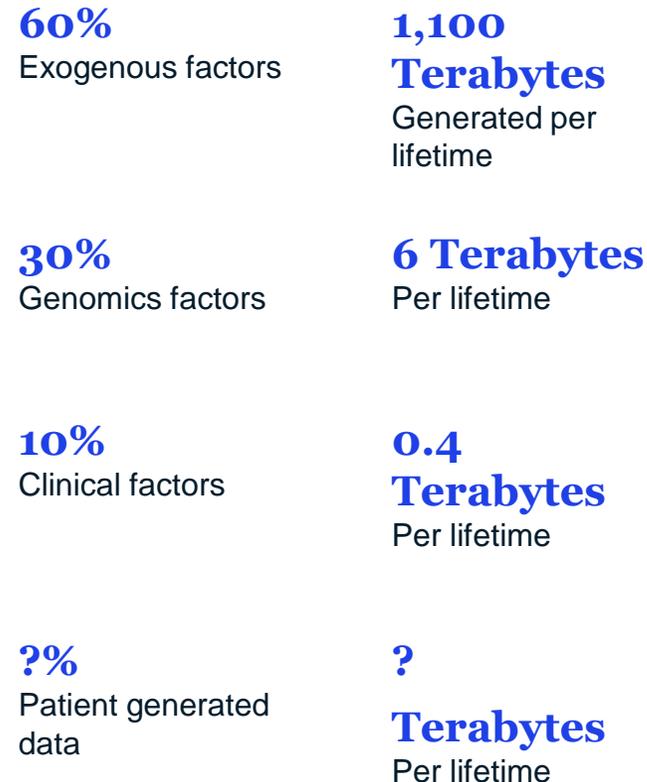
Test & learn & improve: Data ownership & algorithms
Hyper competition -> Winner-takes-it-all logic

Patient behavior largest predictor for Health outcomes – Digital Health an important lever

Health outcomes are multifactorial



Relevant data outside medical systems



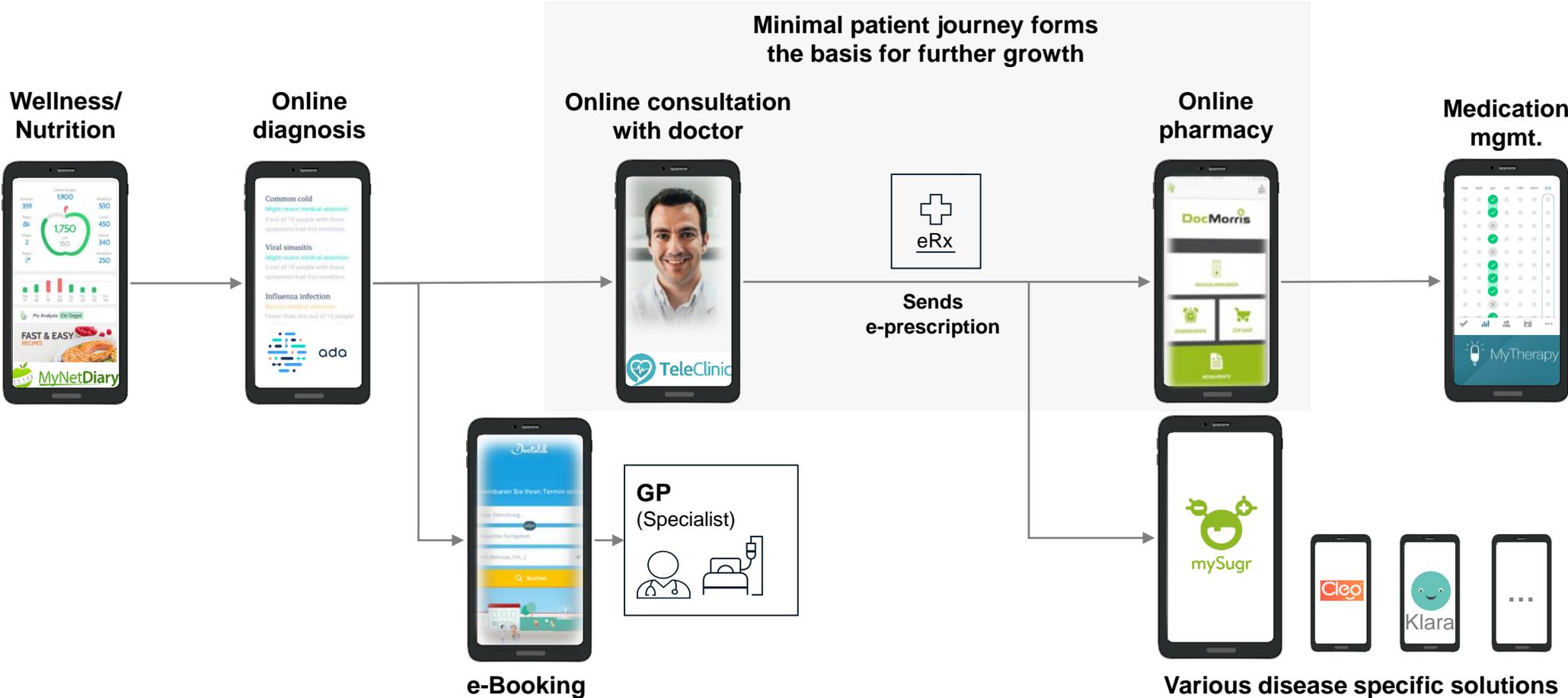
Digital Health

- Establishes a **direct relation** to the patient
- Works independent of national telematic health infrastructure
- Supports the patient **24/7**, not only while with the doctor
- Behavioral change takes time and requires **ongoing interaction and nudging**
- **Data** are the foundation for **driving behavioural change**
- Solutions that work for one patient group work **across country borders**

While single solutions exist already, patient expectation for seamless and integrated care journeys yet to be met

Company names for illustrative purposes only

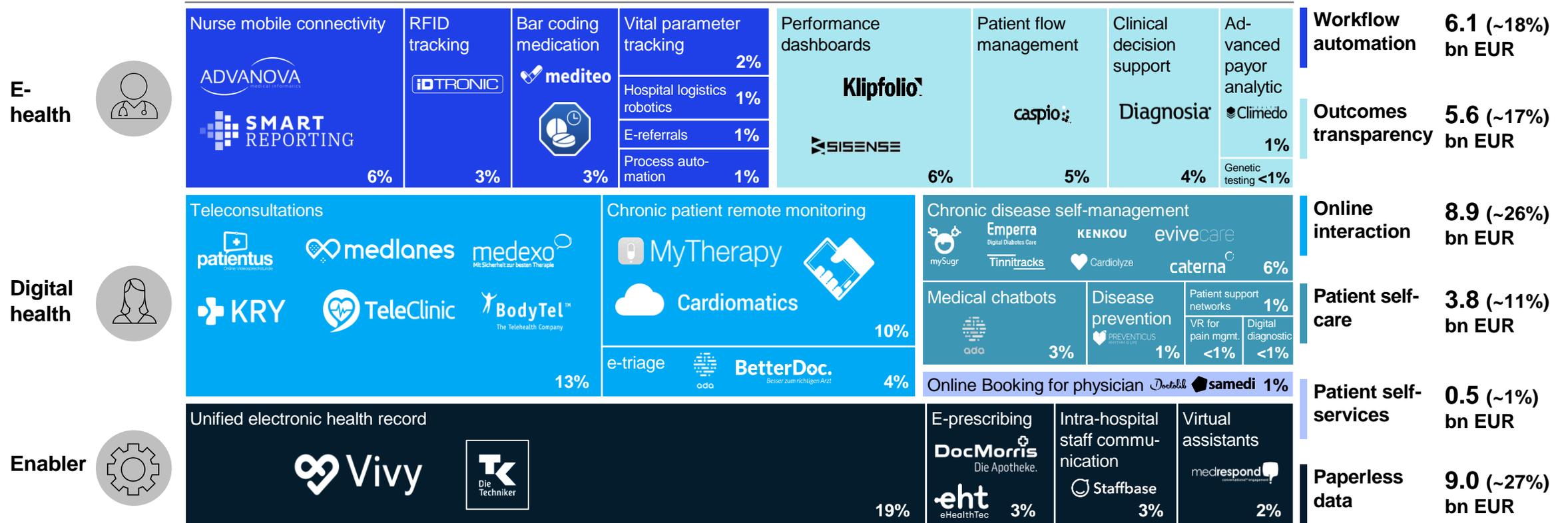
→ Refers patient & shares data¹



¹ if patient gives consent to share data

These value pools can be addressed by various digital health providers

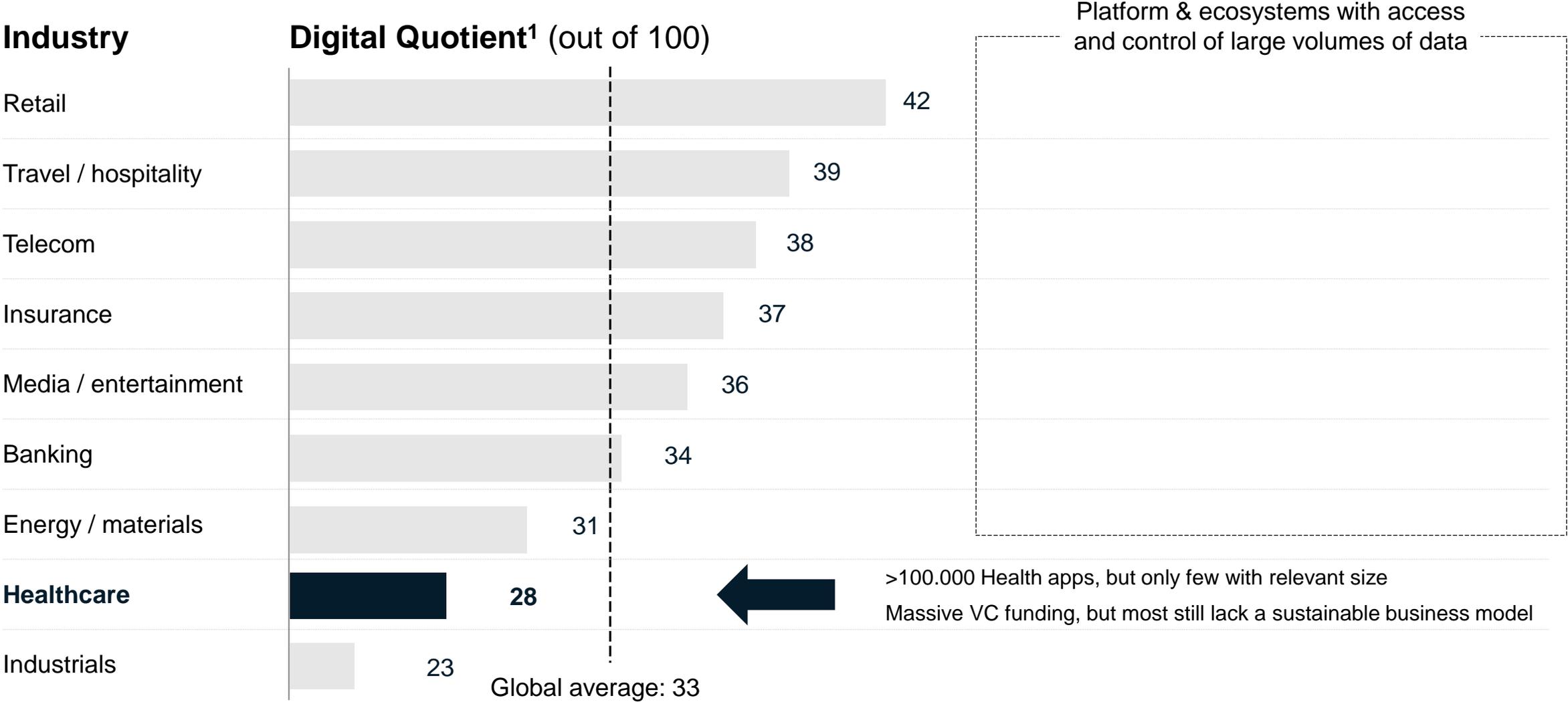
Value pools in Germany and exemplary digital solutions addressing them



Σ 34.0 bn EUR (100%)

Note: Rounded figures may result in slight deviations

Compared to other industries, healthcare lags behind in digital



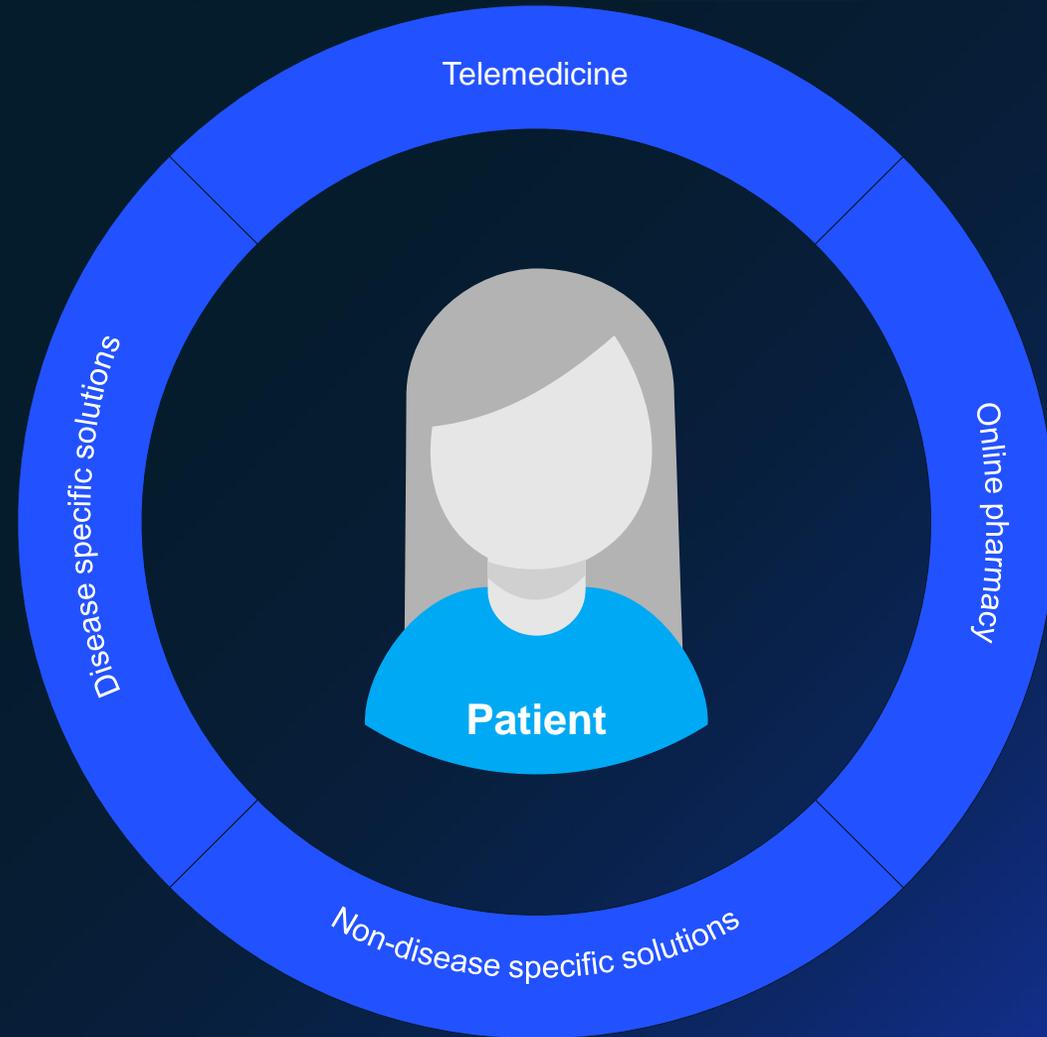
1: Includes 4 dimensions: Strategy, Organization, Capabilities and Culture / is a proprietary tool of McKinsey

Source: McKinsey Digital Quotient



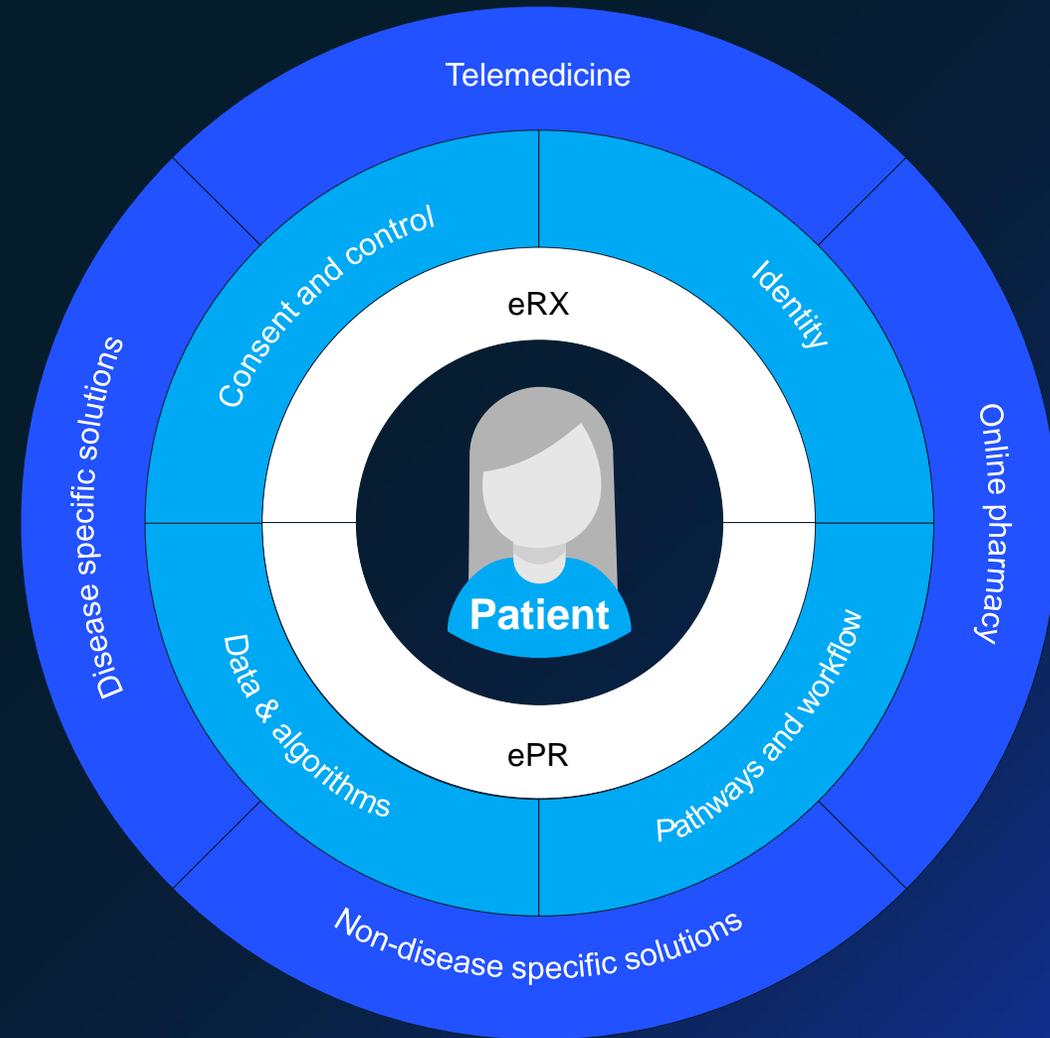
In today's world, patient face digital health solutions that cover most steps in a digital care journey

However, they are not connected and can't share data



Digital health ecosystems will connect digital health solutions across categories and allow patient control flow of data – managed via the ecosystem platform

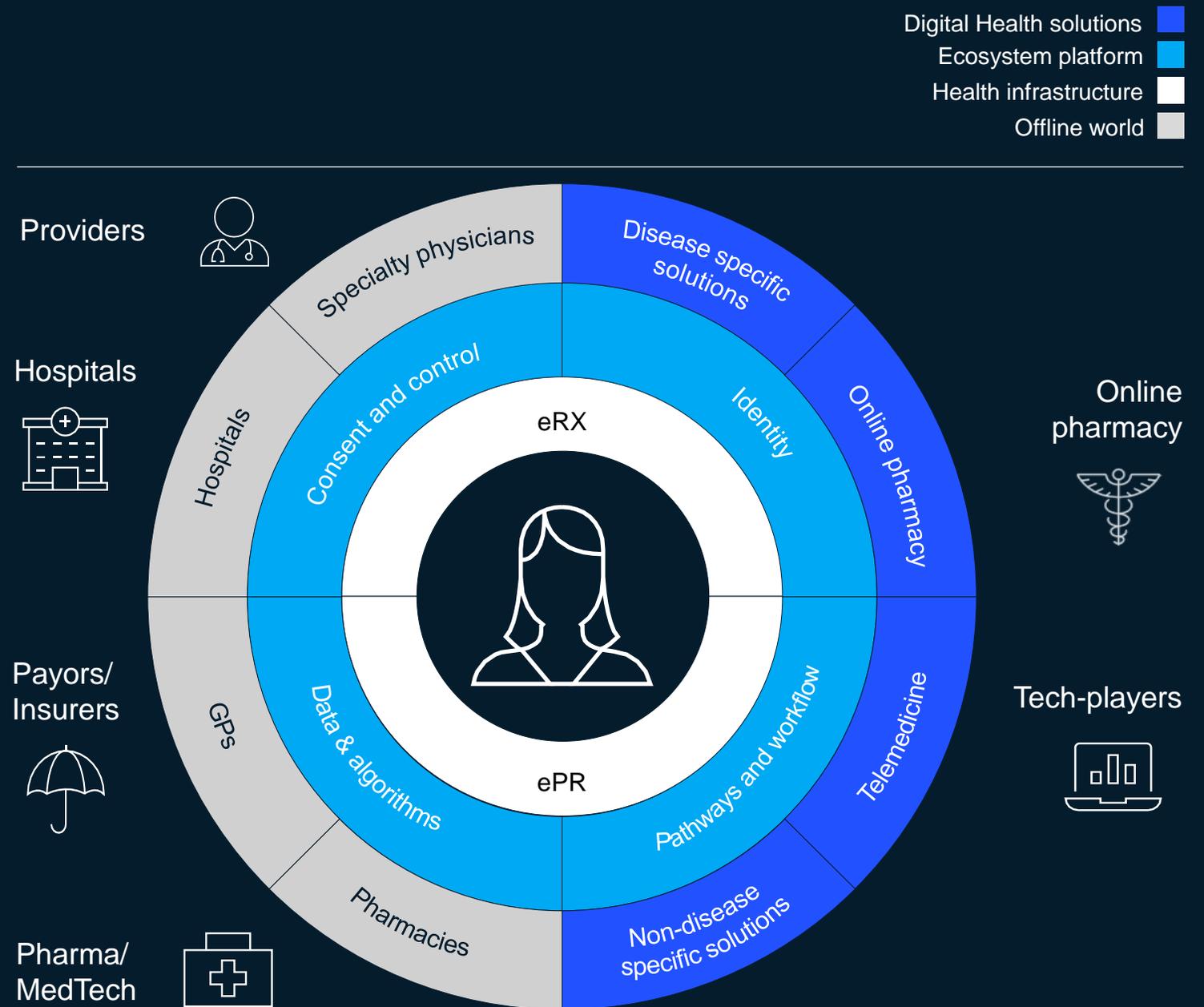
Such an ecosystem requires an orchestrator



-  Digital Health solutions
-  Ecosystem platform
-  Health infrastructure

Over time we expect that digital health ecosystems will build a bridge to traditional care and allow an online-offline care continuum

Existing stakeholders will have to redefine their position vis-à-vis the ecosystem



Stakeholders in any health system have to address the following questions

- 1** What role do we want to play in the emerging world of digital health ecosystems?
- 2** How will it affect our business? Do we need to get closer to patients?
- 3** Are we in the position to play the orchestrator role? And what is our model to capture the value?
- 4** Are we building data assets that we allow us to build innovate and patient centric solutions?
- 5** Do we have the necessary skills and the DNA to thrive in the digital space?

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