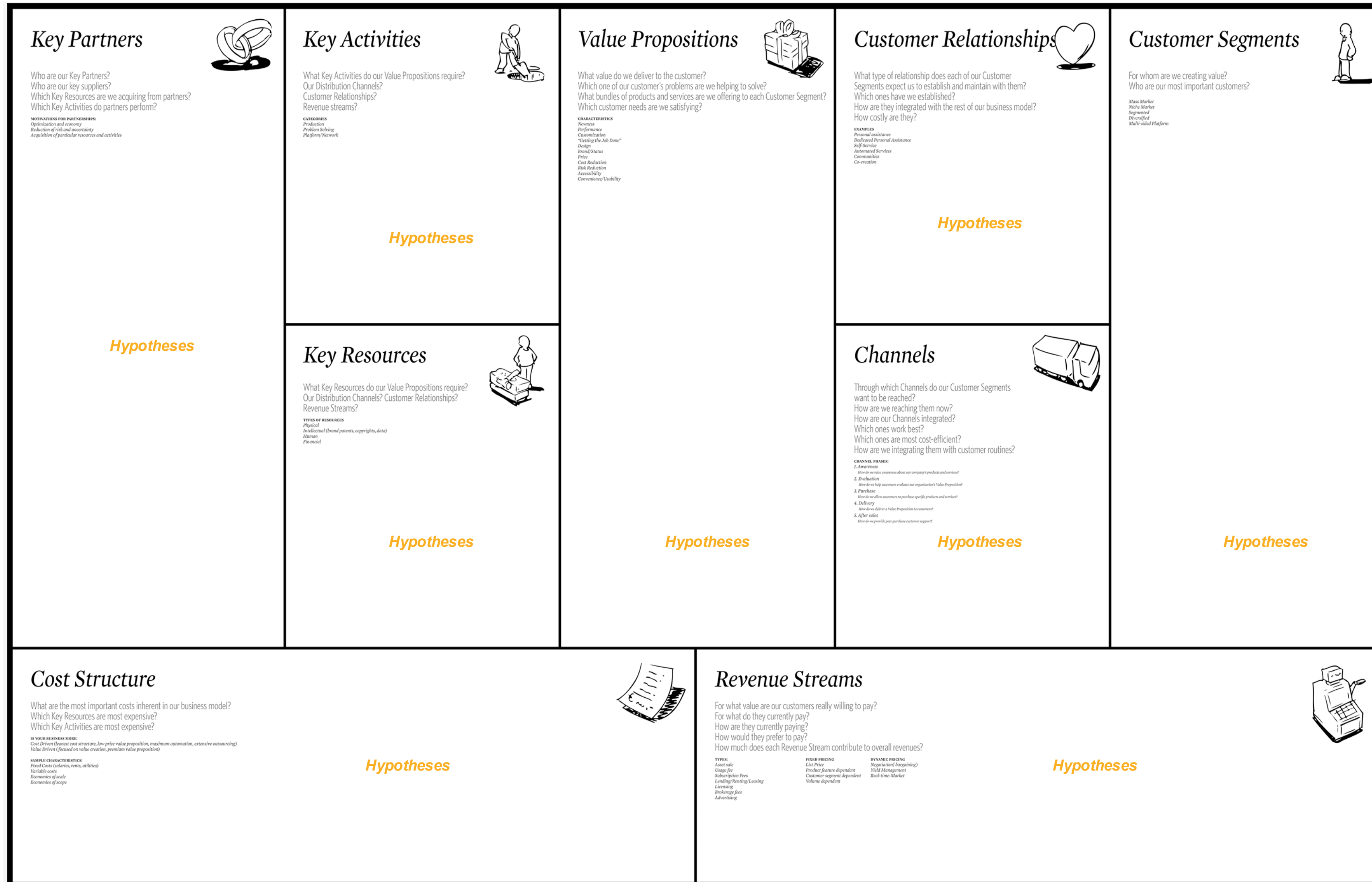


INNOVATIVE BUSINESS MODELS IN HEALTHCARE

June 20th 2025

Irene Fialka, <https://www.linkedin.com/in/irenefialka/>

BEEN THERE – DONE THIS!



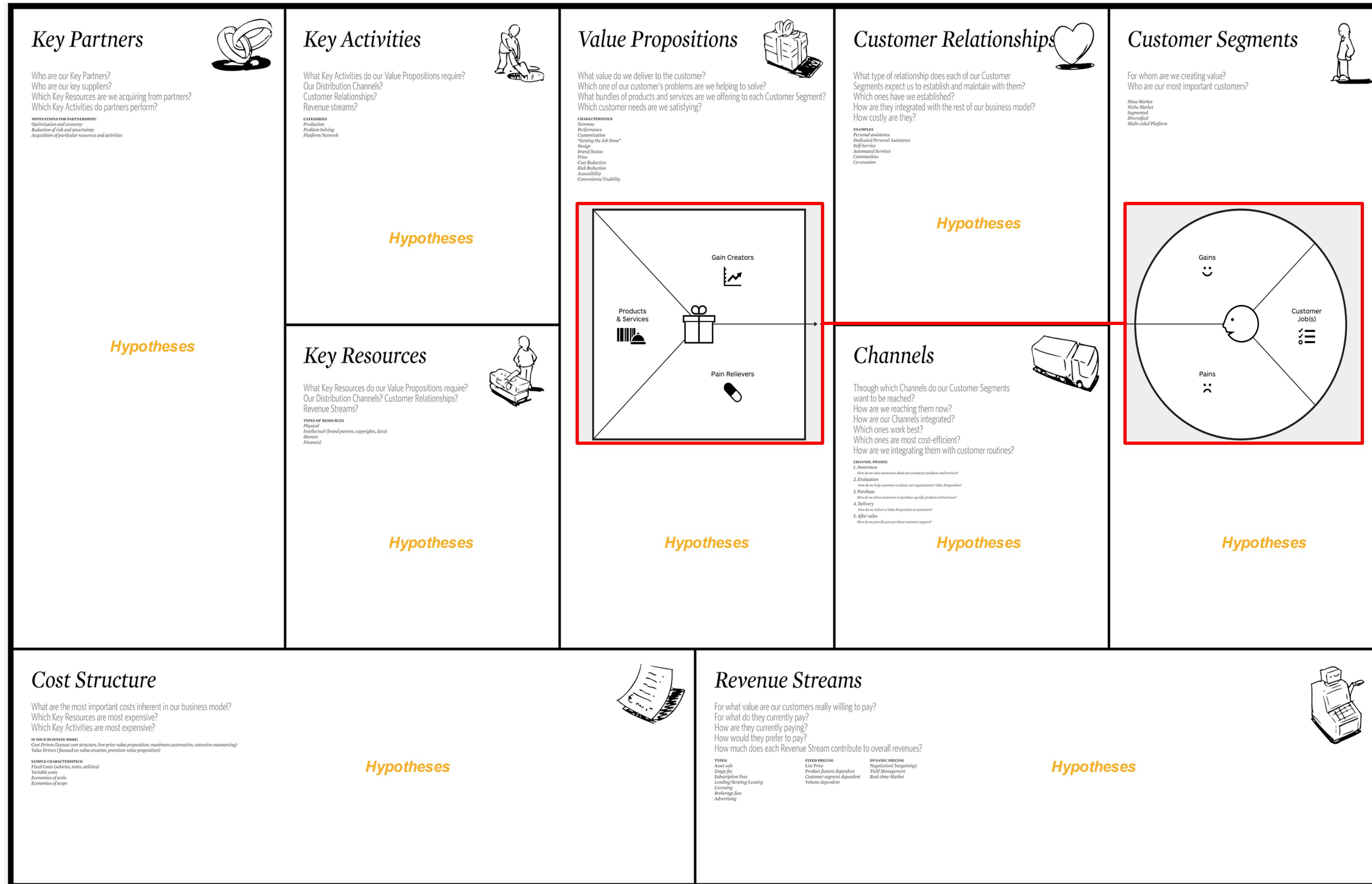
Reference: Osterwalder, A., Pigneur, Y., Bernarda, G., Smith, A. (2014) Value Proposition Design: How to Create Products and Services Customers Want, John Wiley & Sons.

DIGITAL HEALTH IN EUROPE

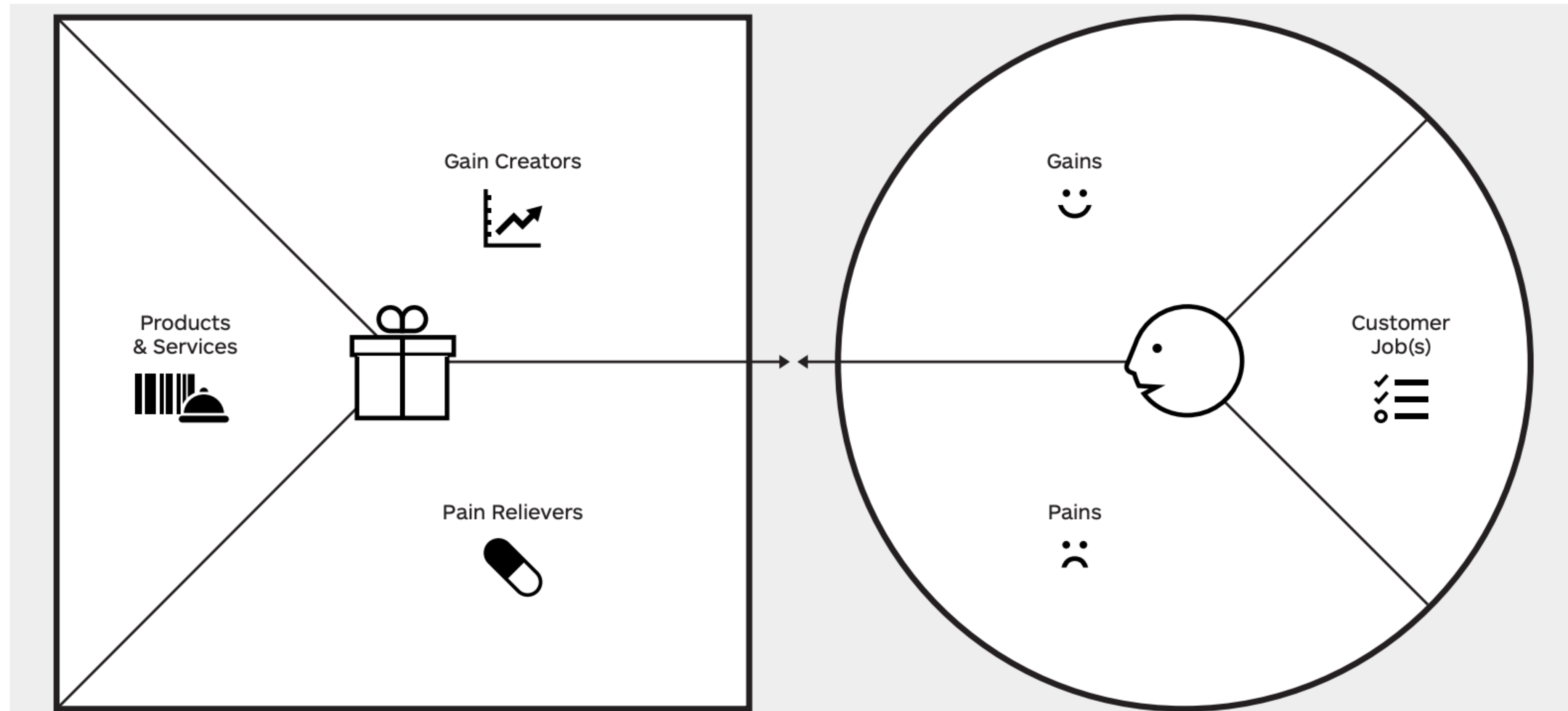
Recommendations by European Experts

- Ensure clear and consistent internal and external **communications, DO NOT overpromise** (watch out: MDR!)
- In developing new services, ensure they are **safe, effective and person-centred** (as complex as this is, it's healthcare!)
- Do not simply focus on technology innovation. Give equal **consideration to service innovation** (the service design) and **business innovation** (the reimbursement models) to secure adoption and scale (Europe's healthcare is unique!!)
- Ensure that the health **care workforce** is supported with **training and education**; improve **citizen participation**.
- Agree on a **minimum data set** (GDPR!!) for disease management and have a robust data governance structure to **allow data to flow safely and securely** to where it is needed, **transforming data to information and intelligence**
- Utilise **data-driven evidence-based practice** to build trust (all professional groups, citizens) from the planning stage onwards
- Support organisations to **better understand, acquire and utilise digital tools and services** that support citizen empowerment ("the patient is the most underused resource in healthcare", Bertalan Meskó, June 2023)
- Review and refresh digital health and care strategies in light of experience, including **connectivity, standards, interoperability, data governance and security, consent and trust issues**.

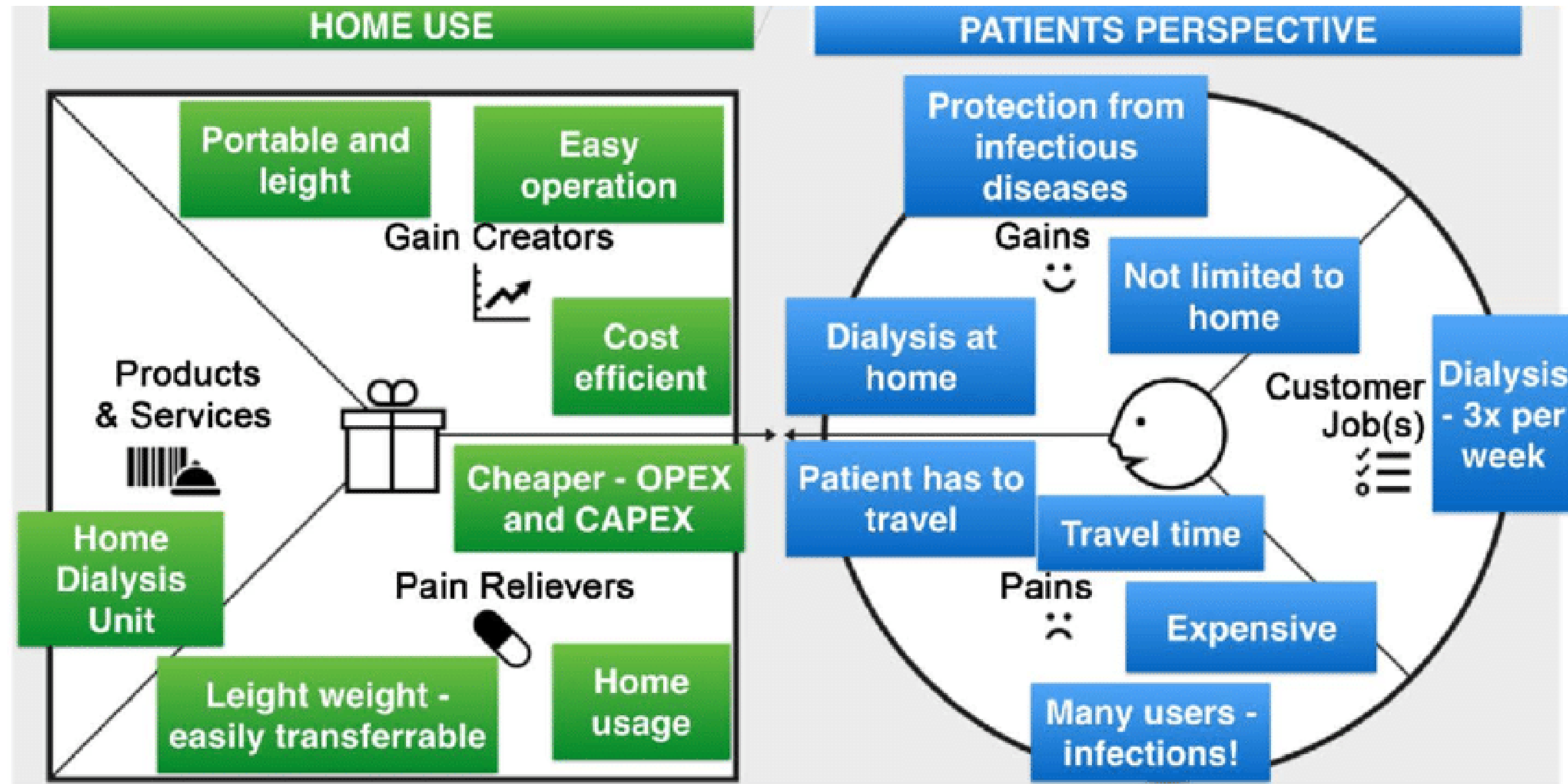
BEEN THERE – DONE THIS!



BEEN THERE – DONE THIS



A PORTABLE DIALYSIS UNIT



HEALTHCARE SYSTEM IN AUSTRIA



The Austrian social insurance system

Main Association of Austrian Social Security Institutions		
Accident insurance	Health insurance	Pension insurance
General Accident Insurance Fund (AUVA)	9 Regional Social Health Insurance Funds	Pension Insurance Fund (PVA)
	5 Company Social Health Insurance Funds	
	Social Insurance Fund for the self-employed (trade, commerce, industry)	
Social Insurance Fund for the Austrian Railway and Mining Industries		
Social Insurance Fund for Farmers		
Social Insurance Fund for Public Service Wage and Salary Earners		
		Insurance Fund for Austrian Notaries

The Austrian social insurance system – NEW structure

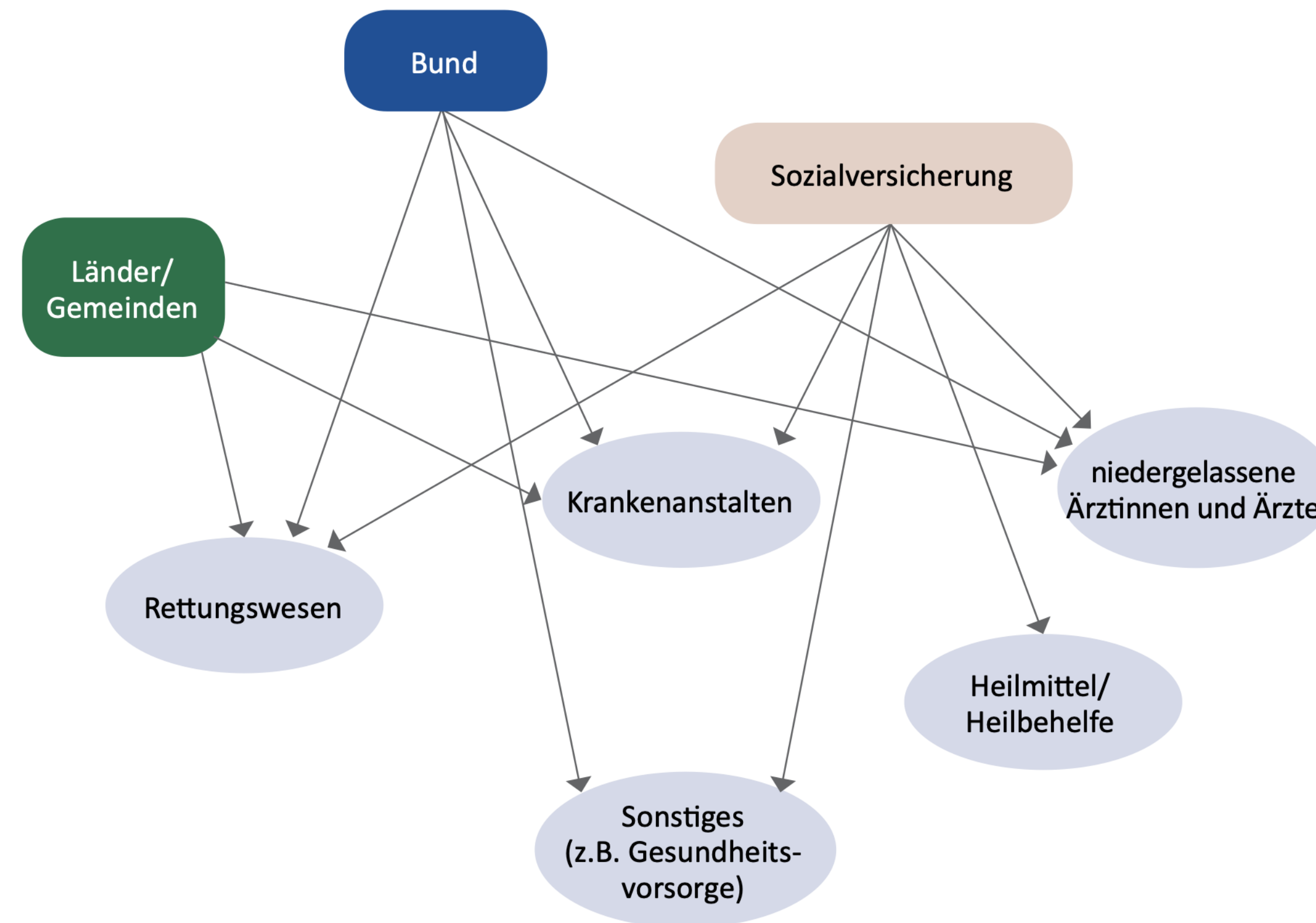
Umbrella association		
Accident insurance	Health insurance	Pension insurance
General Accident Insurance Fund (AUVA)	Austrian Social Health Insurance Fund (ÖGK)	Pension Insurance Fund (PVA)
Social Insurance Fund for the self-employed (trade, commerce, industry, farmers) (SVS)		
Social Insurance Fund for Public Service Wage and Salary Earners (including Austrian Railway and Mining Industries) (BVAEB)		

<https://www.expatica.com/at/healthcare/healthcare-basics/austria-healthcare-79673/>

HEALTHCARE SYSTEM IN AUSTRIA

The Flow of Money between Healthcare Organisations in A

Abbildung 1: Akteure und Dienstleistungen des Gesundheitssystems (vereinfachte Darstellung)

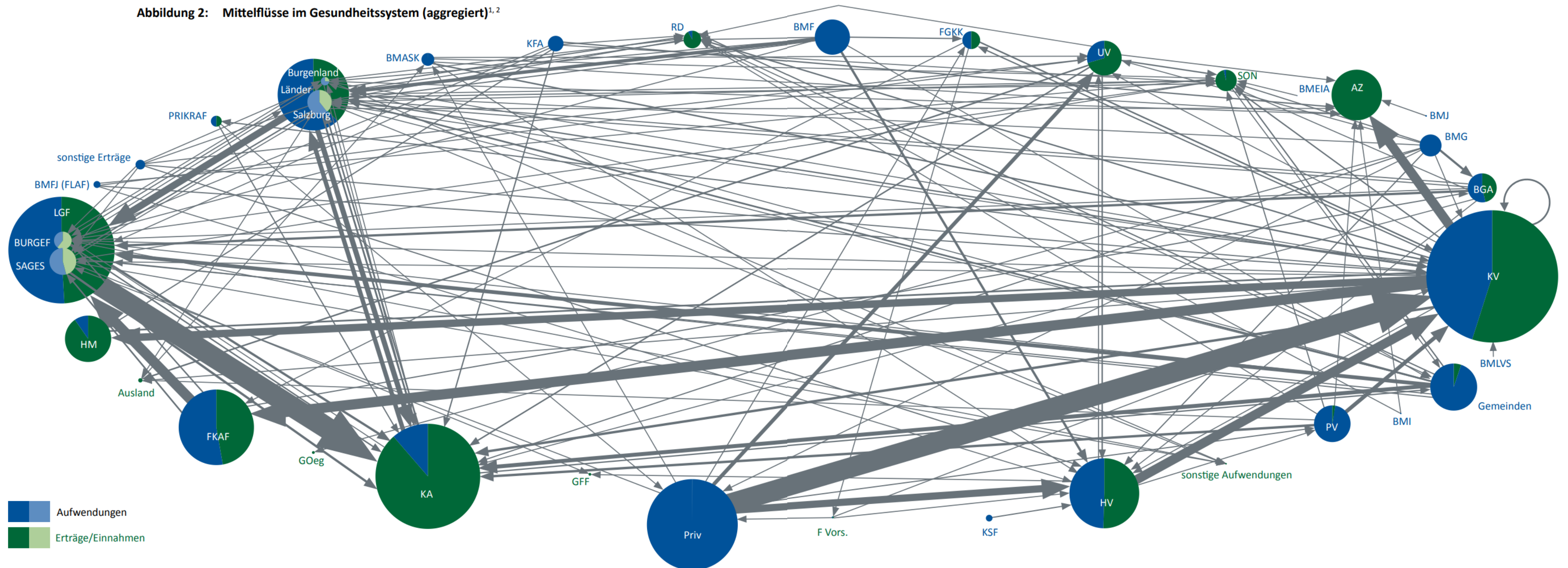


https://www.rechnungshof.gv.at/rh/home/home/Bund_Mittelfluesse_im_Gesundheitswesen_2017_10_1.pdf

HEALTHCARESYSTEM IN AUSTRIA

The Flow of Money between Healthcare Organisations in A

Abbildung 2: Mittelflüsse im Gesundheitssystem (aggregiert)^{1, 2}

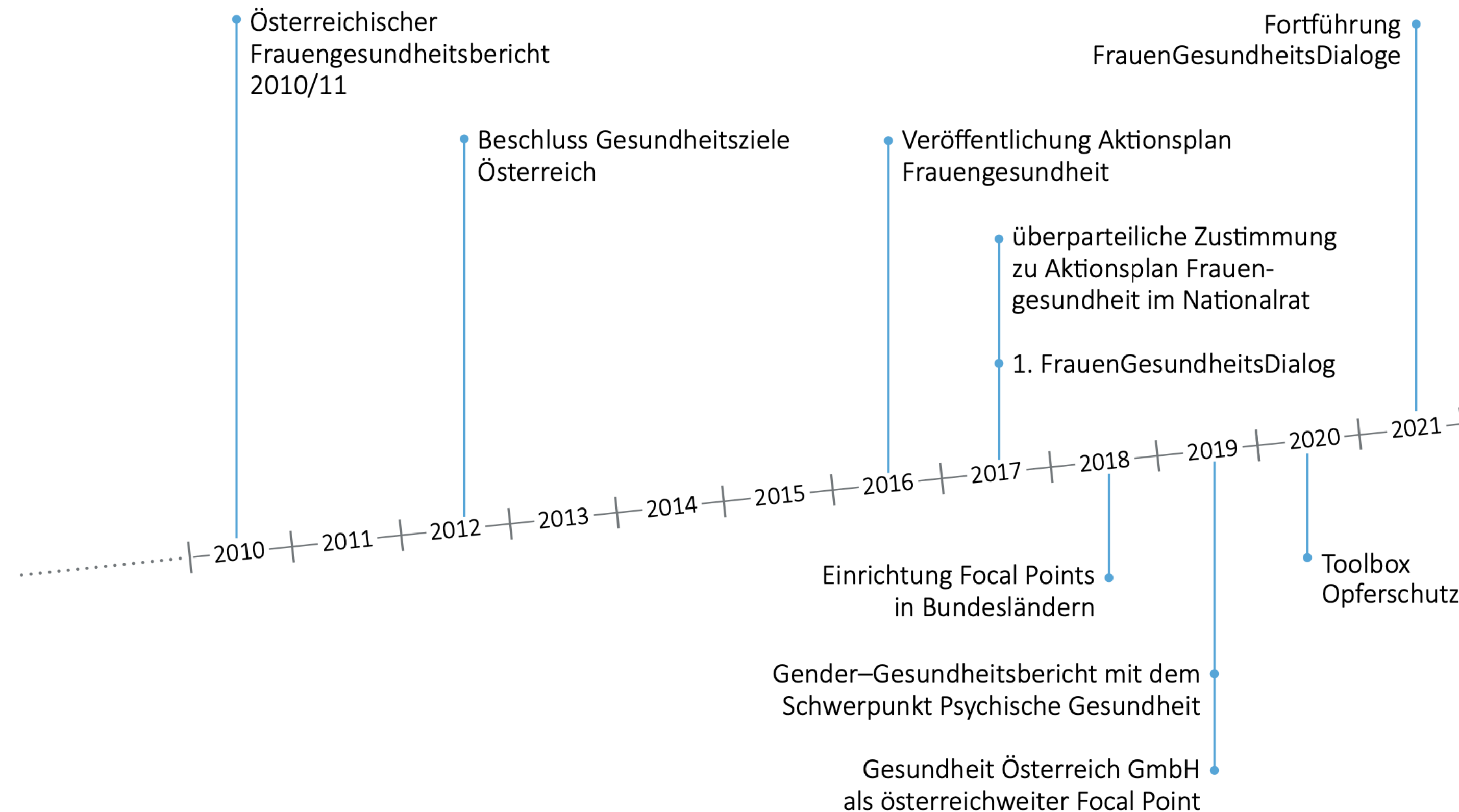


https://www.rechnungshof.gv.at/rh/home/home/Bund_Mittelfluesse_im_Gesundheitswesen_2017_10_1.pdf

HEALTH IMPACT IN AUSTRIA

Auditors Checking Impact of Measures

Abbildung 3: Maßnahmen Frauengesundheit



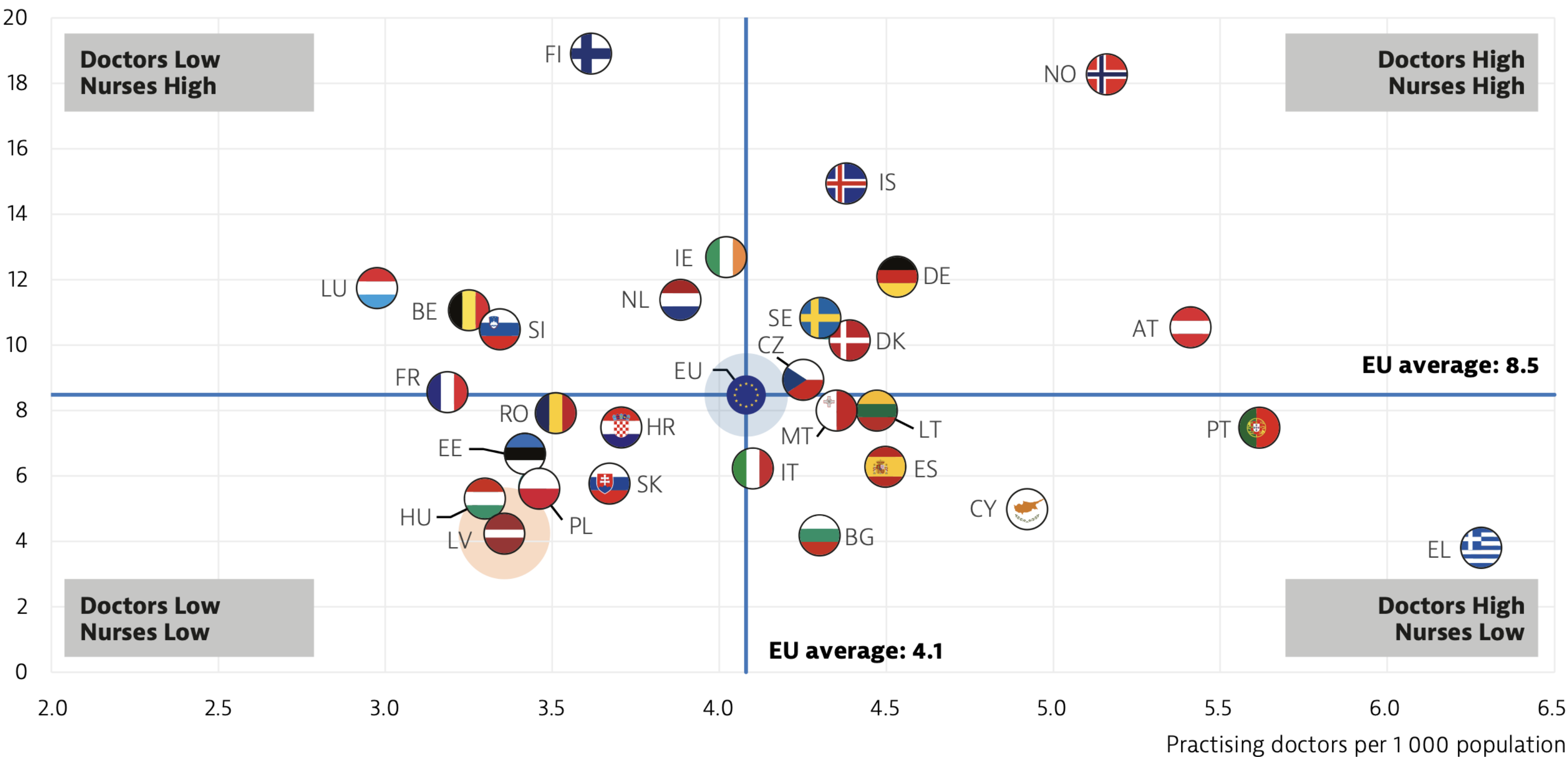
https://www.rechnungshof.gv.at/rh/home/home/2023-1_Gesundheitsfoerderung.pdf

Quelle: Gesundheitsministerium; Darstellung: RH

HEALTHCARE PROFESSIONALS IN LATVIA 2023

Figure 10. Latvia has fewer doctors and nurses than most EU countries

Practising nurses per 1 000 population



<https://www.oecd-ilibrary.org/docserver/bf2b15d6-en.pdf>

NATIONAL ACTION PLAN - LATVIA



As an example: Alcoholism – two years earlier

Box 1.1. National Action Plan on the Consumption of Alcoholic Beverages and Limitation of Alcoholism 2020-22

On 30 July 2020 Latvia's National Action Plan on the Consumption of Alcoholic Beverages and Limitation of Alcoholism 2020-22 was adopted by the Cabinet of Ministers. Under this plan, a number of policies will be implemented:

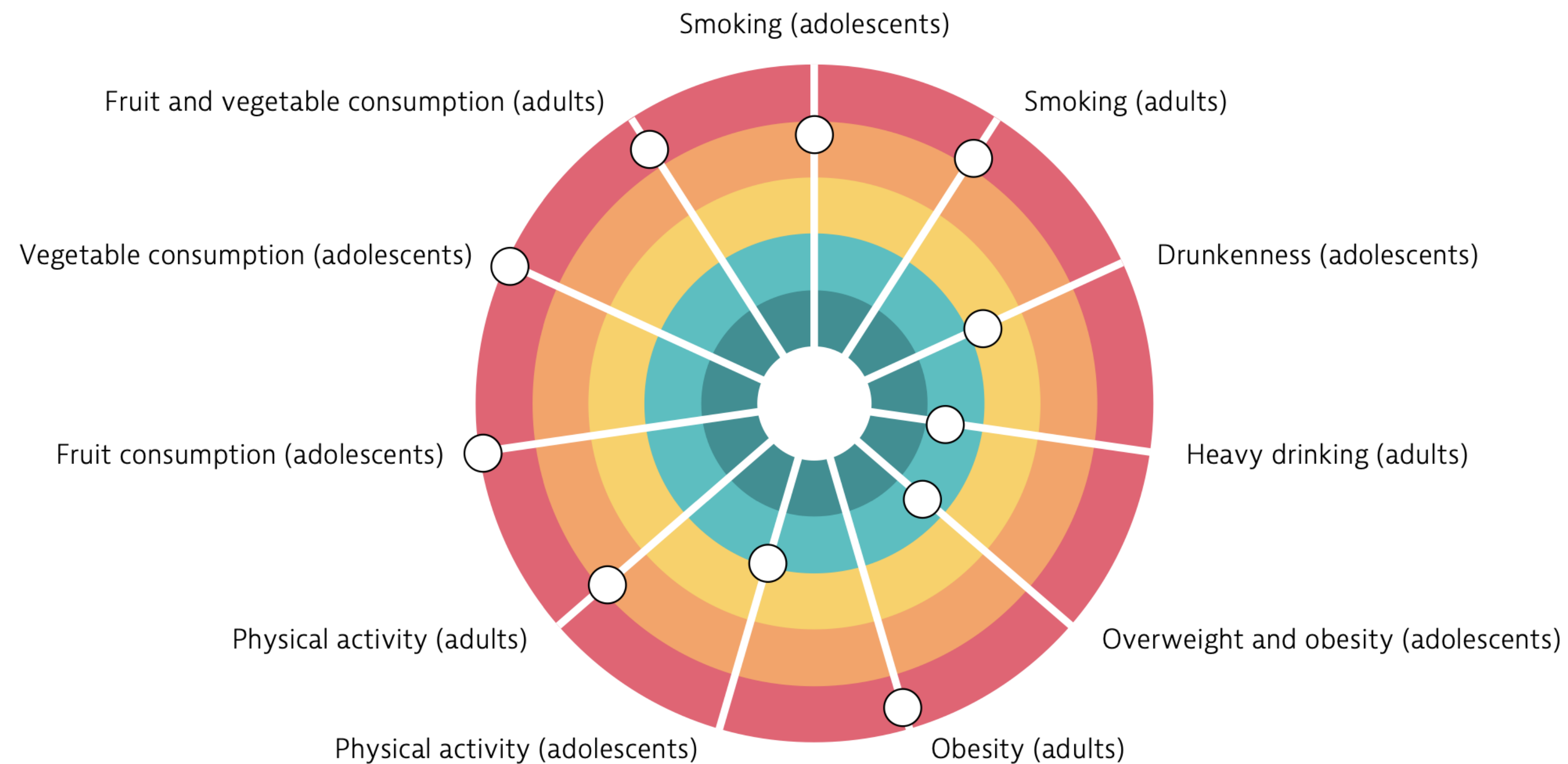
- Labelling of alcoholic beverages with warnings against drinking while pregnant and when driving, as well as nutrient labels that include the energy content;
- Exploring whether it is possible to reduce the legal blood alcohol concentration limit for all drivers 0.2%;
- Exploring the possibility of reviewing the sales hours of alcoholic beverages, taking into account the experience of other countries;
- Prohibiting the trade promotion activities (like discounts, sales, for buying multiple alcoholic beverages at the same time or purchase of alcoholic beverages together with other products or services with a discount);
- Prohibiting TV, radio, and internet advertising of special offers (sales and discounts) for all alcohol products;
- Exploring whether it is possible to prohibit the sale of alcoholic beverages with over 22% alcohol-by-volume packaged as a single serving intended for immediate consumption;
- The plan also suggests exploring the potential for setting up a public health promotion fund, earmarking 0.5% of excise tax revenue on alcohol, tobacco and gambling and lottery taxes.

Source: Latvian Ministry of Health (2020[13]), *Order of the Cabinet of Ministers No. 412 – Action Plan for Reducing Alcohol Consumption and Limiting Alcoholism 2020-22*, <https://likumi.lv/ta/id/316448-par-alkoholisko-dzerienu-paterina-mazinasanas-un-alkoholisma-ierobezosanas-ricibas-planu-20202022-gadam>

<https://www.oecd-ilibrary.org/docserver/bf2b15d6-en.pdf>

HEALTHCARE – LATVIA 2023

Figure 7. Several behavioural risk factors are more prevalent in Latvia than in most EU countries



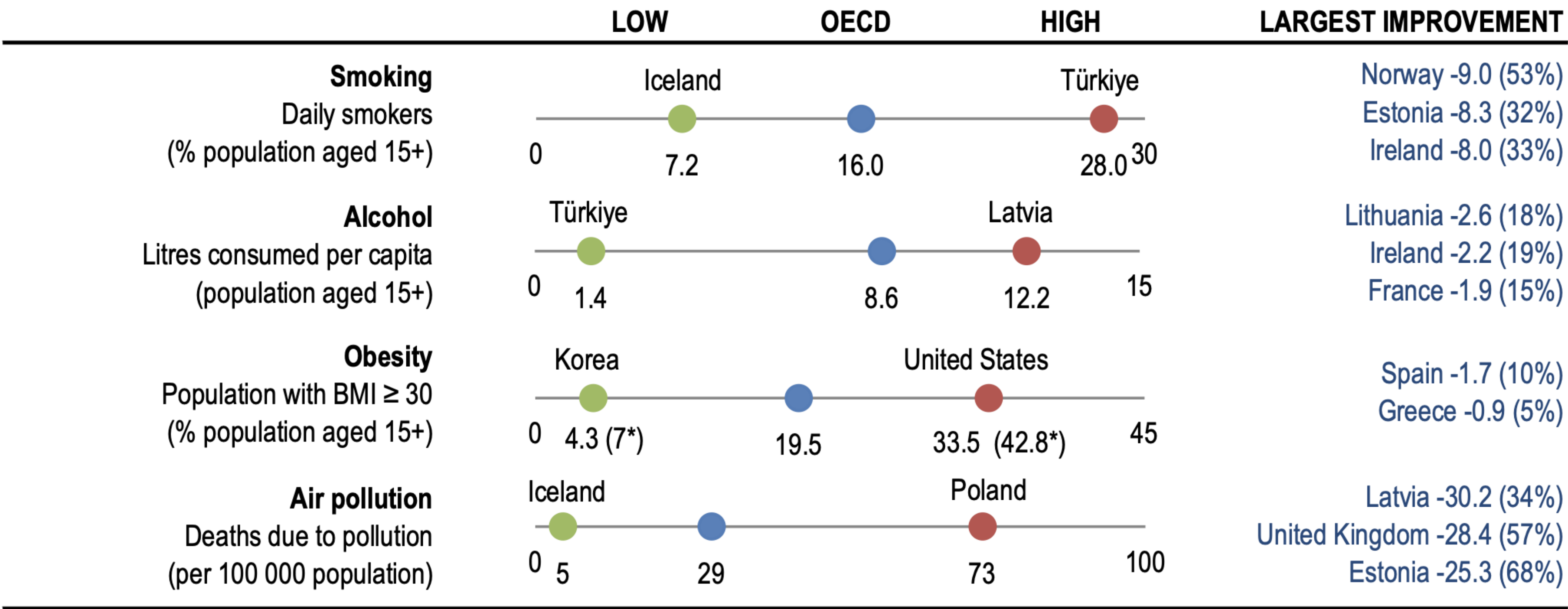
<https://www.oecd-ilibrary.org/docserver/bf2b15d6-en.pdf>

HEALTH AT A GLANCE - BY OECD



Risk factors might point you to where to get started

Figure 1.3. Risk factors for health across the OECD, 2021 (or nearest year)

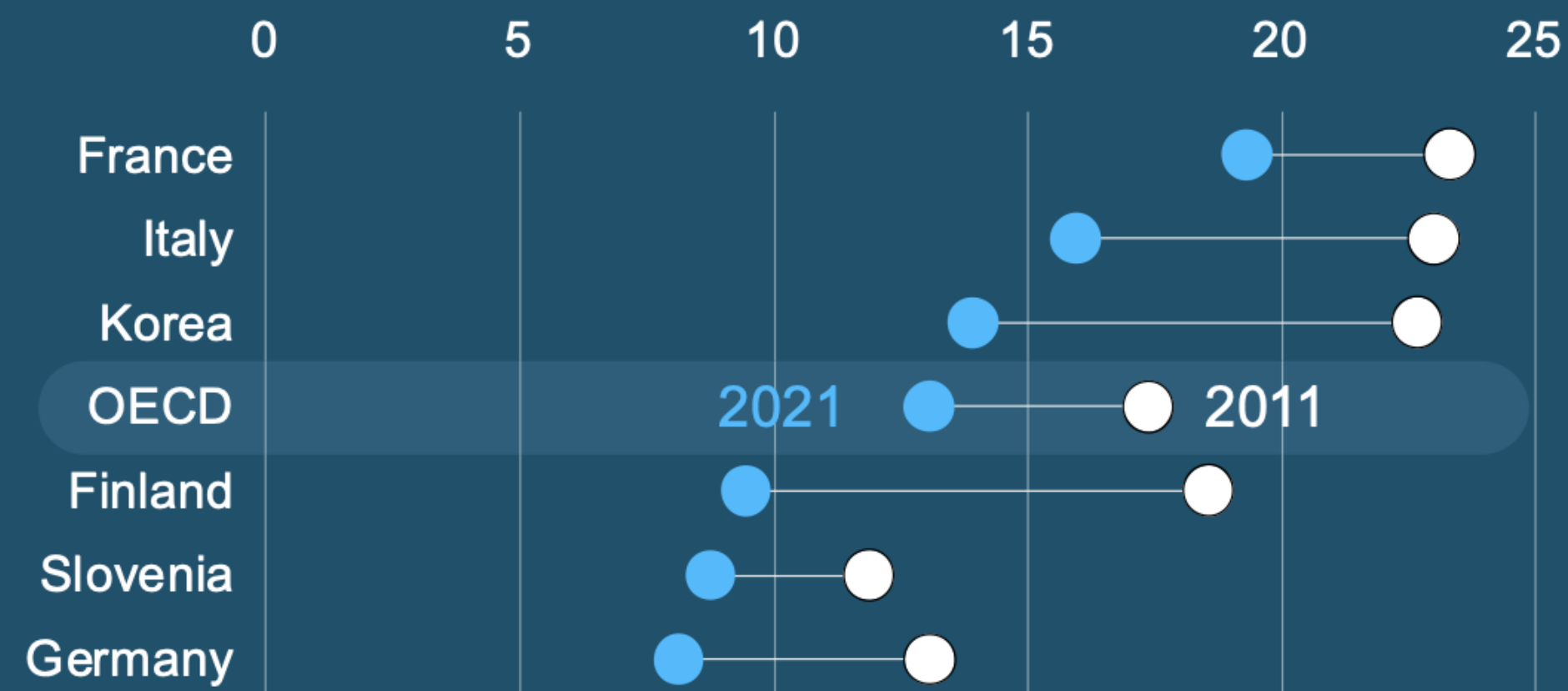


<https://www.oecd-ilibrary.org/docserver/7a7afb35-en.pdf?expires=1721031100&id=id&accname=guest&checksum=F04EE760A3D4E6AC16505BB1619A99F3>

HEALTH AT A GLANCE - BY OECD

Safer prescribing can help combat the looming threat of antimicrobial resistance

Volume of antibiotics prescribed, 2011 and 2021,
Defined daily doses per 1 000 population per day



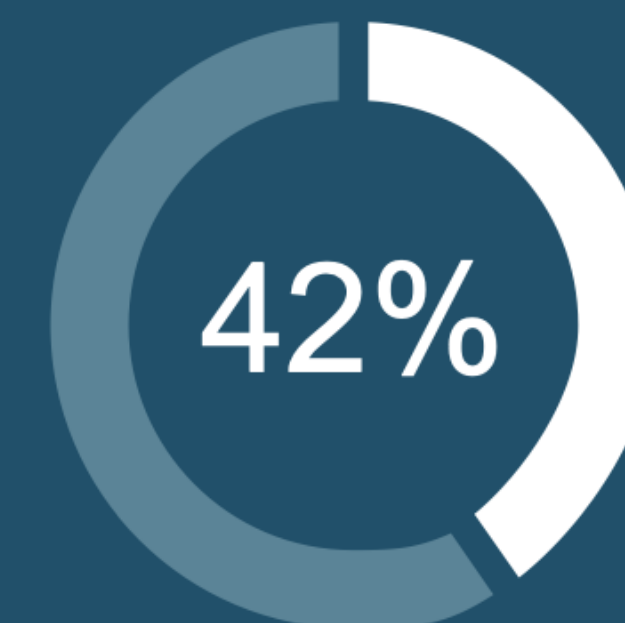
Antibiotic prescriptions have fallen in 90% of OECD countries, but antimicrobial resistance is still a major concern, and is projected to cost about USD PPP 26 per person annually.

Many countries are ill-prepared for a digital health transformation

Almost 90% of responding OECD countries reported having an online health portal in place. However, only 42% reported that the public could both access and interact with all their health data through the portal.



PATIENT PORTAL

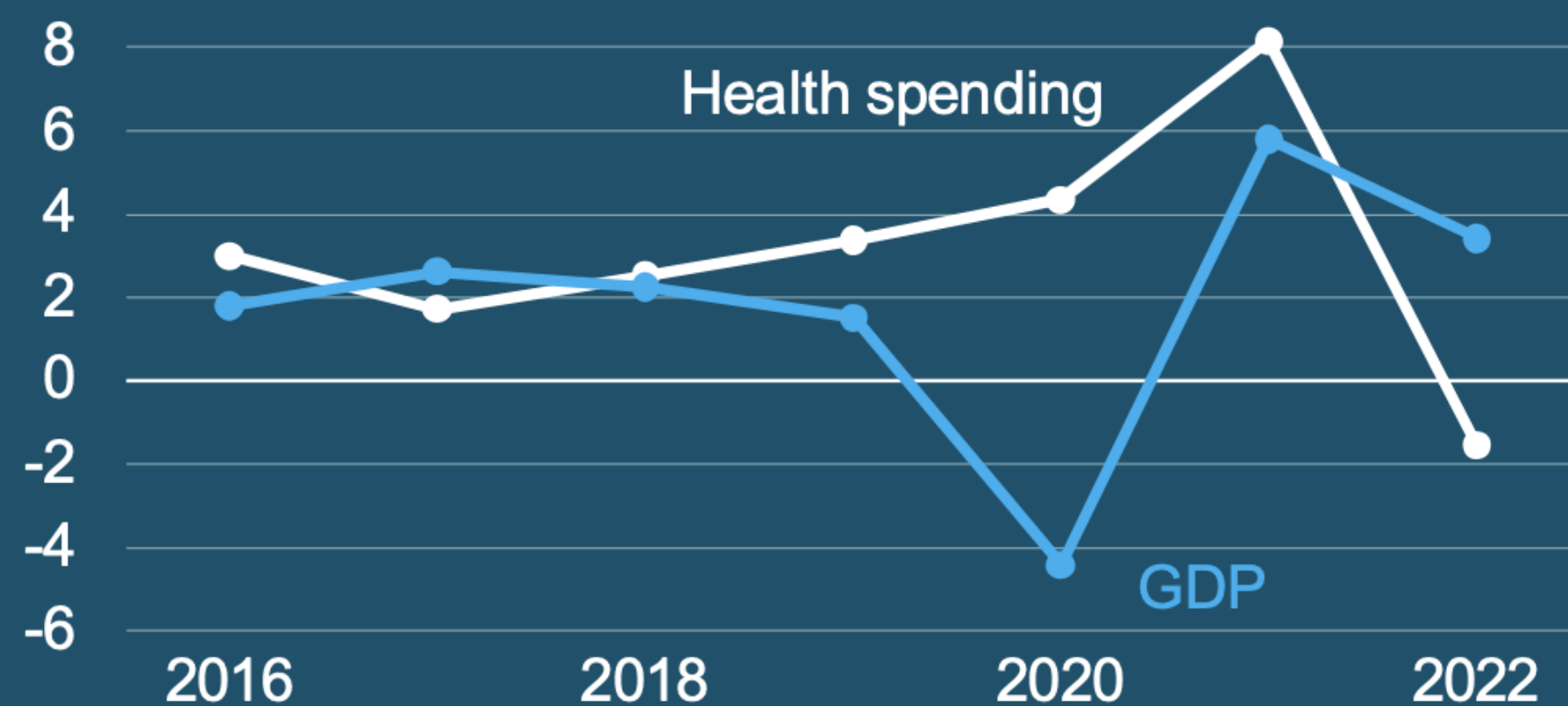


<https://www.oecd-ilibrary.org/docserver/7a7afb35-en.pdf?expires=1721031100&id=id&accname=guest&checksum=F04EE760A3D4E6AC16505BB1619A99F3>

HEALTH AT A GLANCE - BY OECD

Health systems are under financial pressure

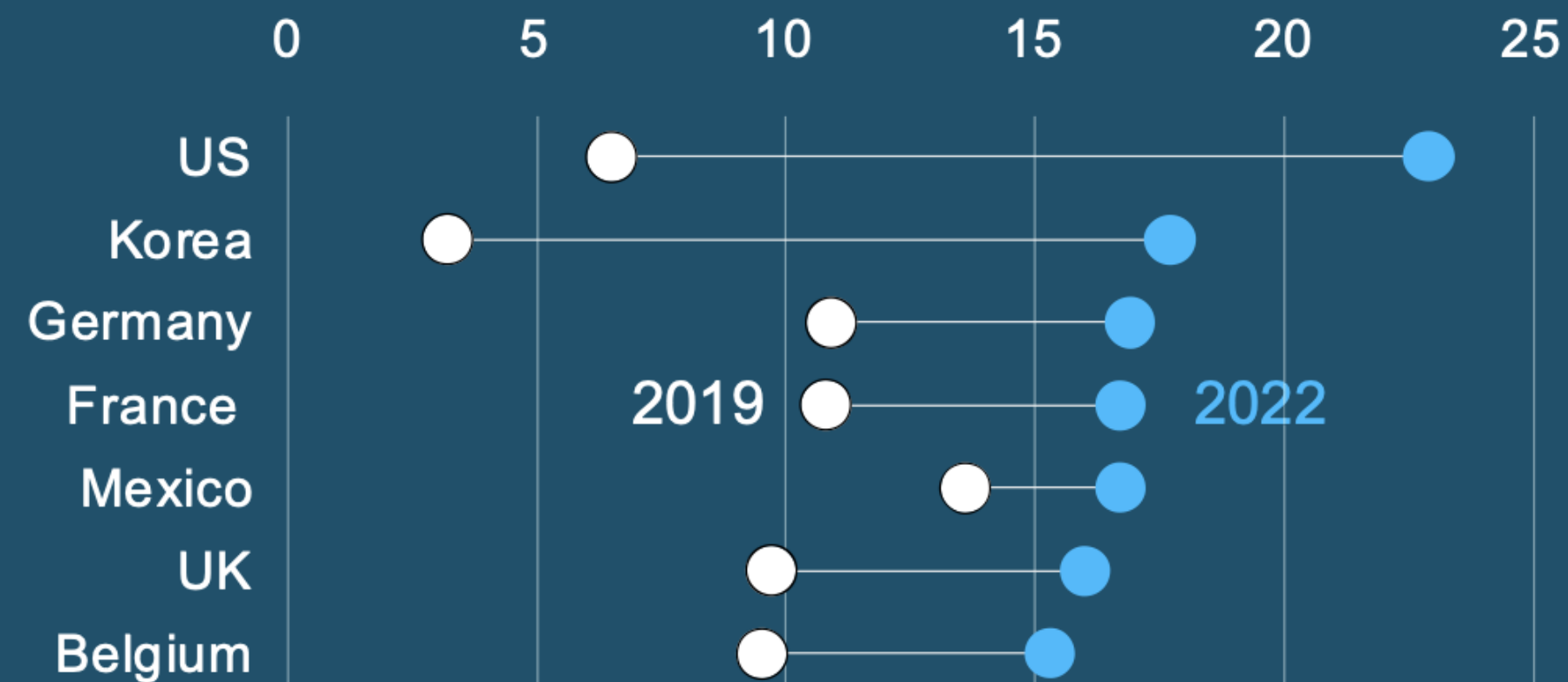
Annual real growth in health expenditure and GDP, per capita, OECD average, 2016 - 2022



Health spending as a share of GDP fell in 2022 compared to 2021 in 33 of 38 OECD countries.

Mental health has still not recovered from the pandemic

National estimates of prevalence of depression or symptoms of depression, %, 2019 - 2022 (or nearest year)



Levels of anxiety and depression have improved slightly in some countries, but still remain much higher than pre-pandemic levels.

DIGA – A NEW BLUEPRINT IN EU



<https://diga.bfarm.de/de/verzeichnis>



Menü

Finden Sie die passende digitale Gesundheitsanwendung

Treffen Sie eine Auswahl aus digitalen Gesundheitsanwendungen (DiGA), die vom BfArM gemäß § 139e SGB V bewertet wurden.

- ✓ Erstattung durch die GKV
- ✓ Zertifizierte Medizinprodukte
- ✓ Transparent aufbereitet

DiGA-Verzeichnis

Geben Sie Ihren Suchbegriff ein...



oder

DiGA-Verzeichnis öffnen

HEALTHCARE AT A GLANCE

Plenty of Resources – at least for Information




Related publications

See all publications >

Report

Equipping Health Workers with the Right Skills


15 December 2022



Working paper

Empowering the health workforce to make the most of the digital revolution


19 July 2021



Working paper

International migration and movement of nursing personnel to and within OECD...


24 February 2021



Working paper

International migration and movement of doctors to and within OECD countries - 2000...


24 February 2021



Working paper

Skills for the future health workforce

2 February 2021

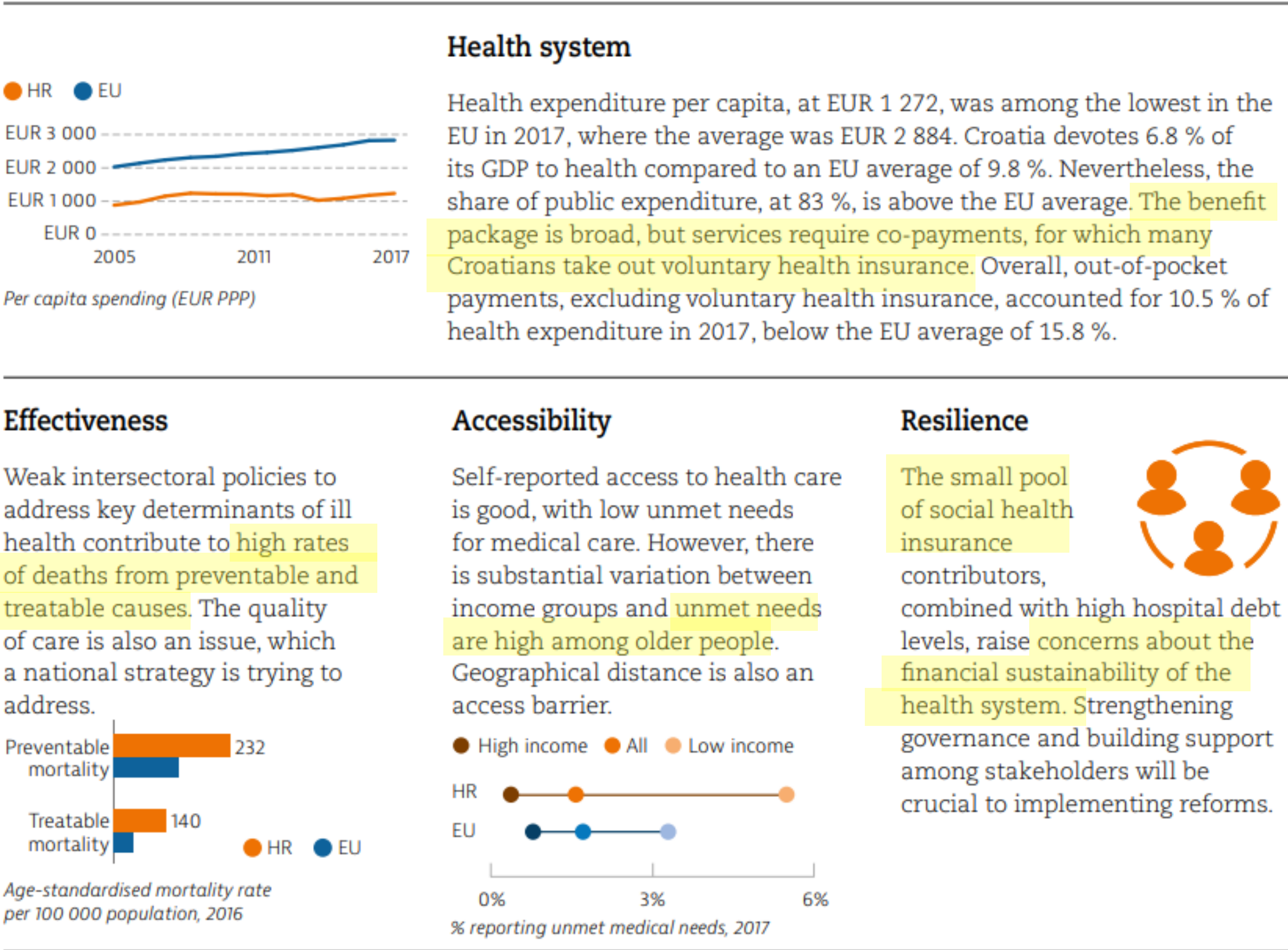




<https://www.oecd.org/en/topics/sub-issues/health-workforce.html>

HEALTHCARE SYSTEM CROATIA

OECD analysis



BUSINESS MODELS EMERGING (?)



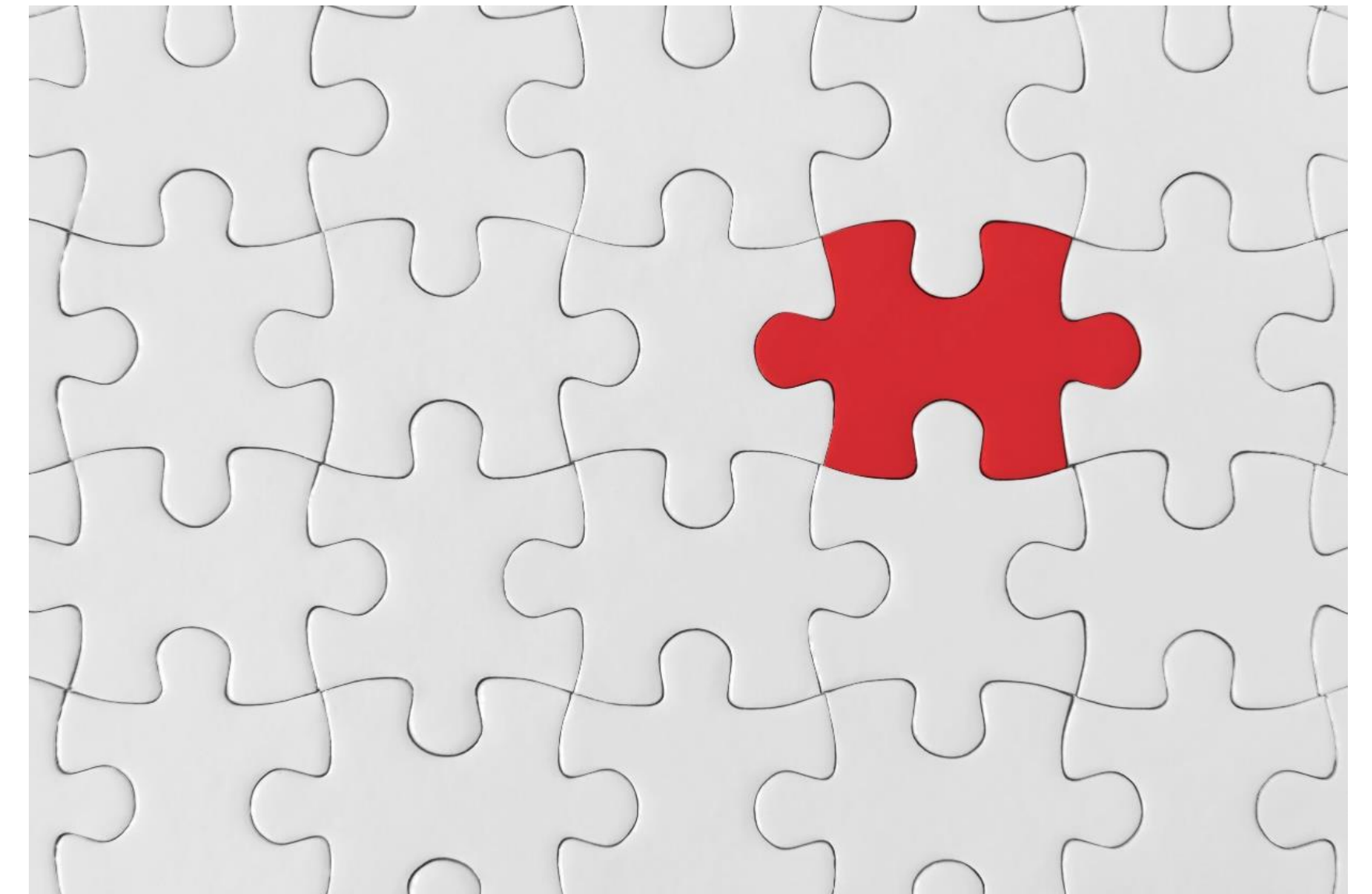
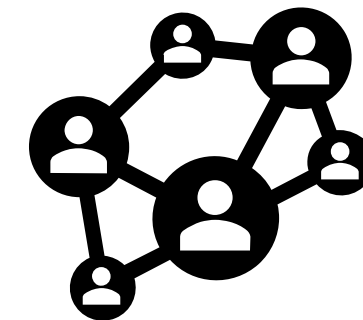
The Strings Attached in Healthcare (by far not complete)

- Regulatory strings
 - EMA, FDA, regional bodies, ..
 - Ethics commissions
 - Clinical trials
 - MDR
 - ...
- Legal strings
 - Patient protection
 - Regulations for professions (MDs, pharmacies, nurses, ..)
 - Regulations and rules in organisations (hospitals, nursing homes,)
 - National/regional regulations about e.g. genetherapy, sequencing,
 - Rules and regulations about data storage, access and ownership
 - Insurance law (private AND social insurances)
 -
 - PLUS all the others founders in other industries face, e.g. GDPR

YOUR JOB TO SCALE



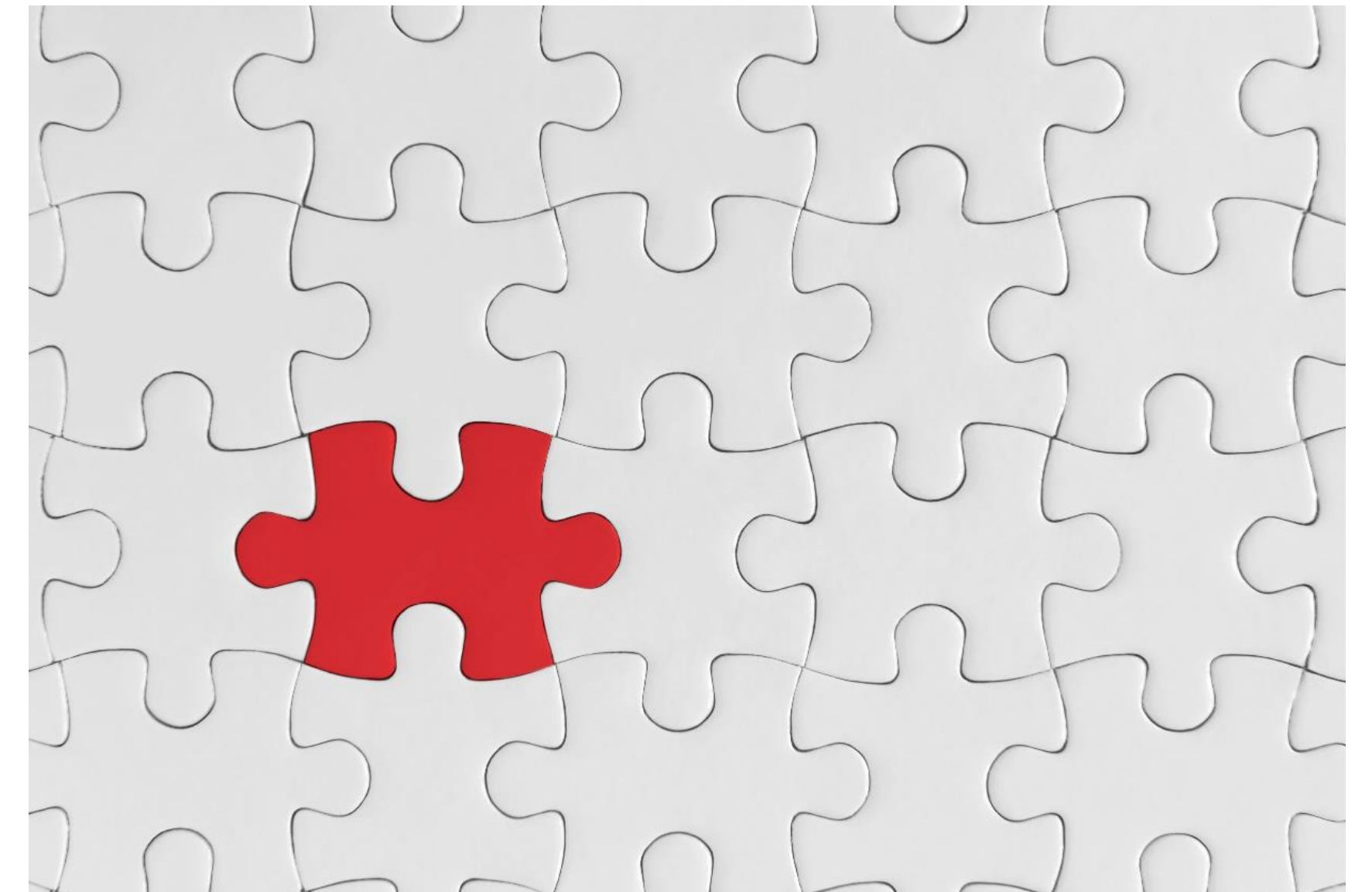
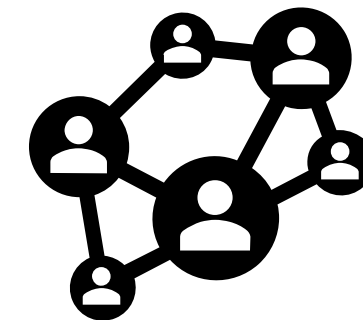
- Define the missing puzzle piece you fill in
- Know your rules
- Talk to (national) experts
 - Use pyramiding
- Understand who really is YOUR customer
- Understand possible network effects
- Identify ambassadors and their motivation
- Find partners



YOUR JOB TO SCALE



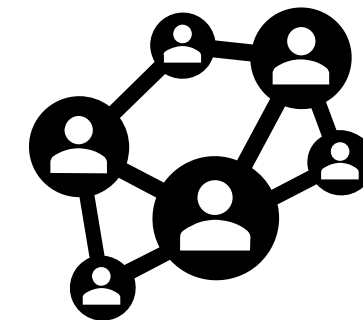
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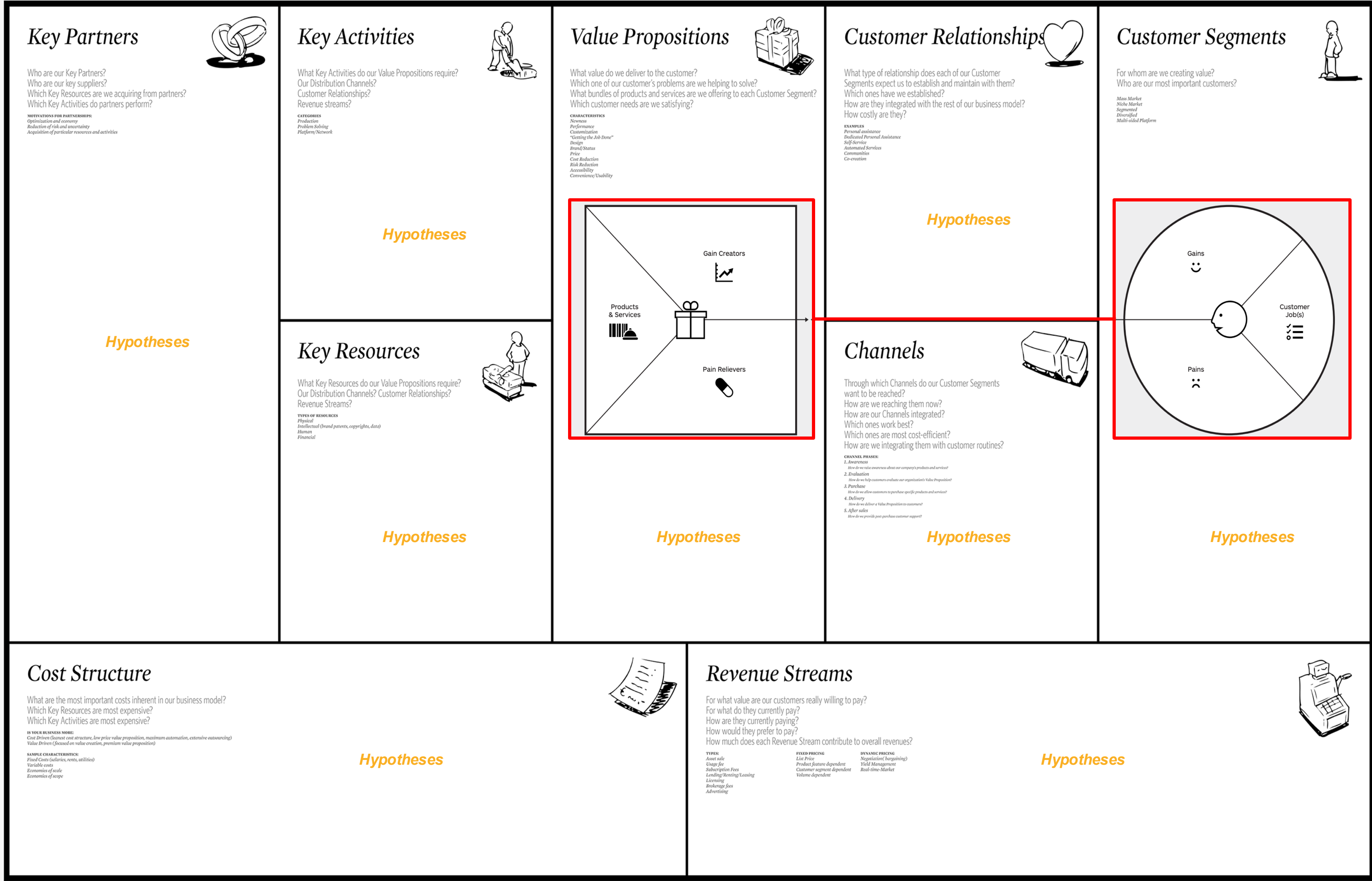
YOUR JOB TO SCALE



- Define the missing puzzle piece you fill in
- Know your rules
- Talk to (national) experts
 - Use pyramiding
- Understand who really is YOUR customer
- Understand possible network effects
- Identify ambassadors and their motivation
- Find partners



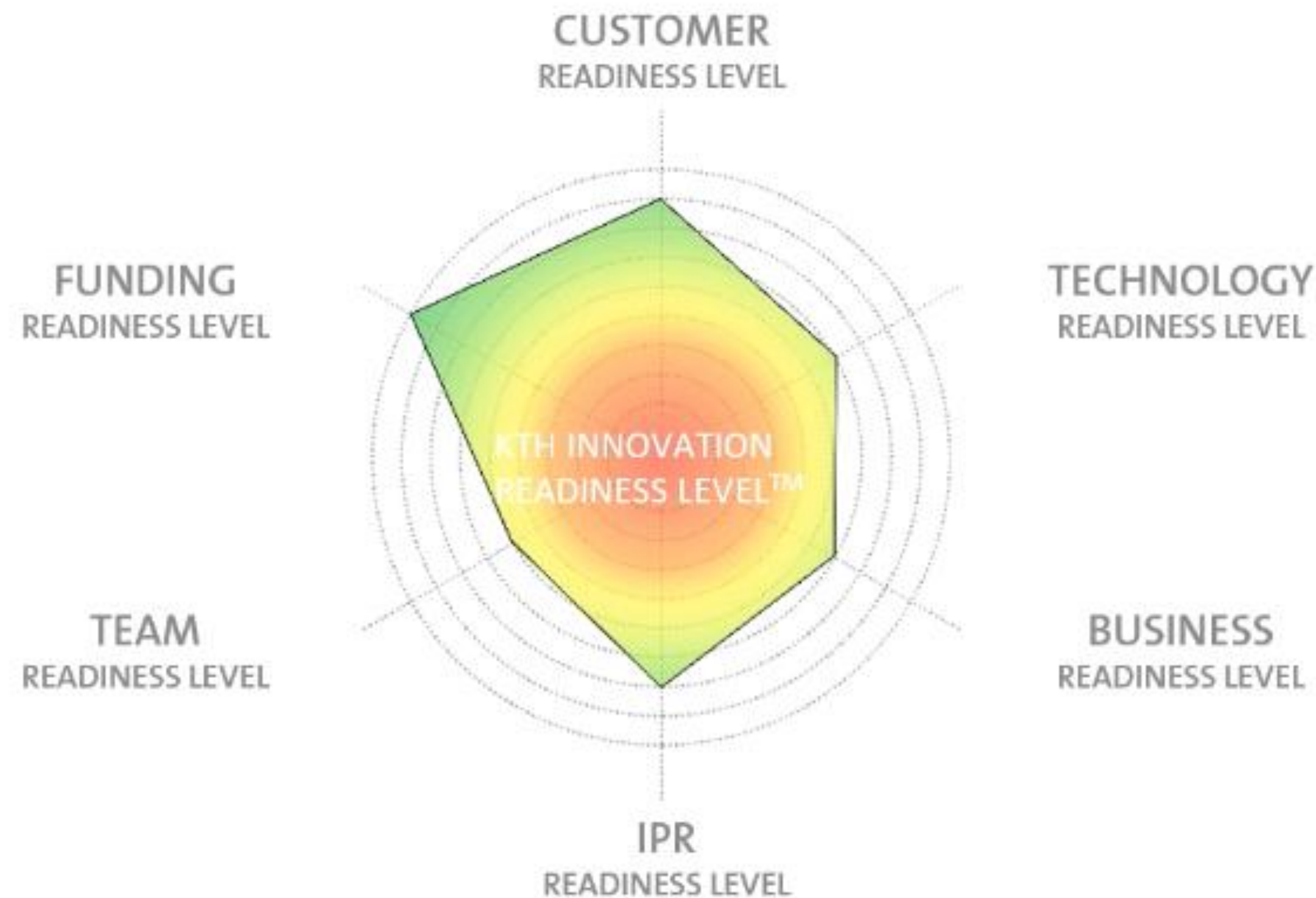
REDOING IT AGAIN AND AGAIN ..



WATCH AND BUILD READINESS!!



<https://kthinnovationreadinesslevel.com>



GUIDANCE AND STRUCTURE

The model provides generic steps and standard questions that need to be addressed and provides support for both coaches and idea owners throughout the process.

USEFULL SOURCES

A Small Selection

- https://health.ec.europa.eu/rare-diseases-and-european-reference-networks/european-reference-networks_en
- <https://www.who.int/europe/publications>
- https://www.oecd-ilibrary.org/social-issues-migration-health/data/oecd-health-statistics_health-data-en
- <https://www.statistik.at/en/medien/release-calendar>, <https://www.dzs.hr/en> or <https://stat.gov.lv/en> (and all other national statistics organisations)
- https://health.ec.europa.eu/index_en
-



Use the trust of your audience in such sources!!

SPINOFF KNOWHOW SINCE 2002 YOUR QUESTIONS, PLEASE!

