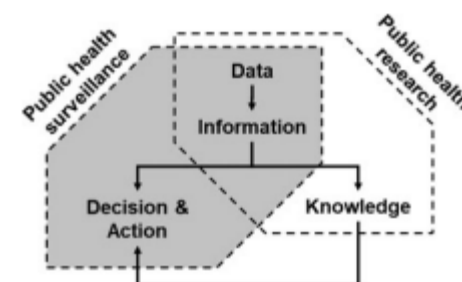
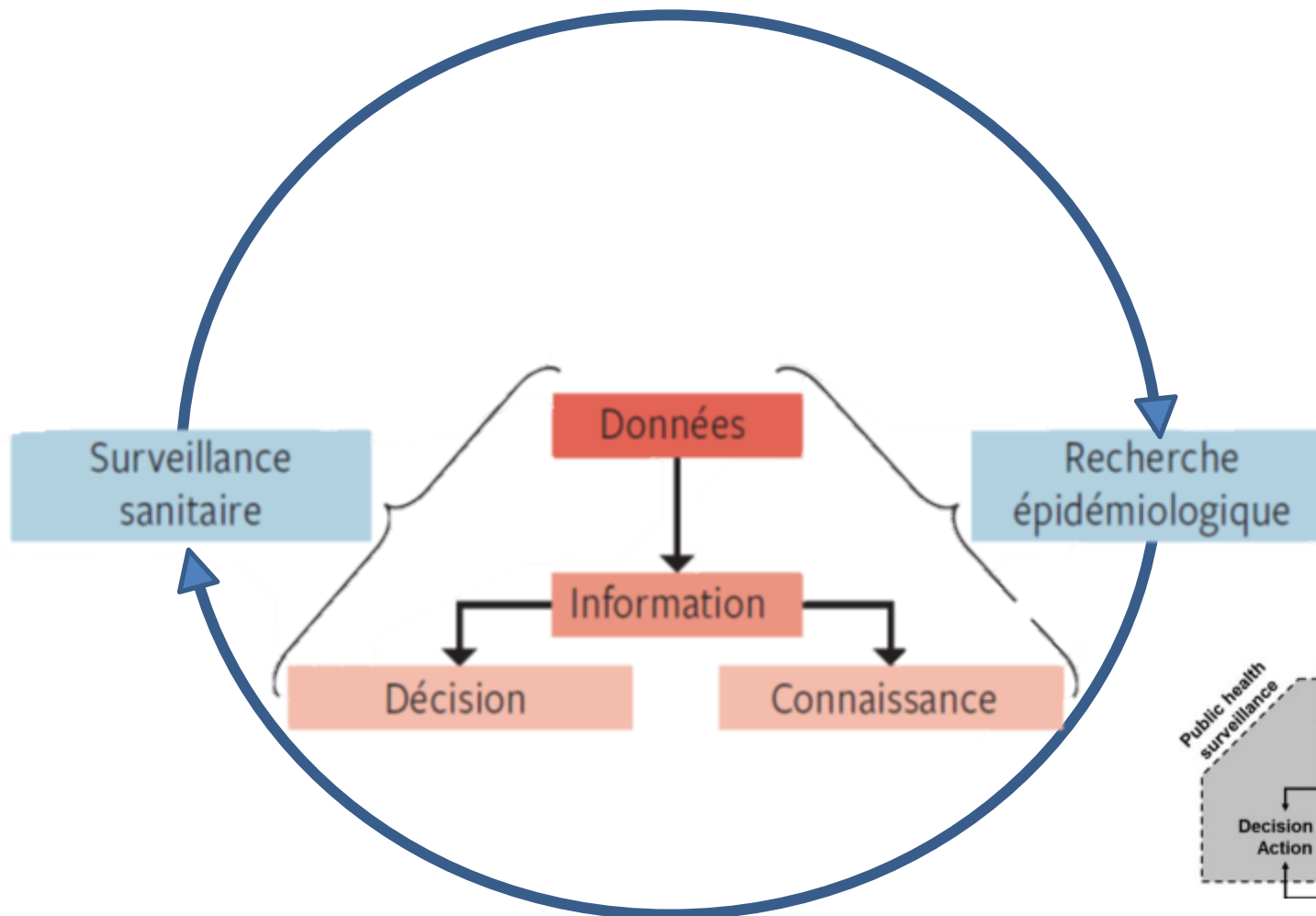


# Population Health Monitoring Meeting 2024 – The Swiss Health Survey: From Monitoring to Research

## Obsan monitoring systems: Reliable and relevant health information

Dr. Olivier Pahud & Dr. Jonathan Zufferey

Neuchâtel, 19. September 2024



Chiolero & Buckeridge (2020)  
 Chiolero et al. (2021)

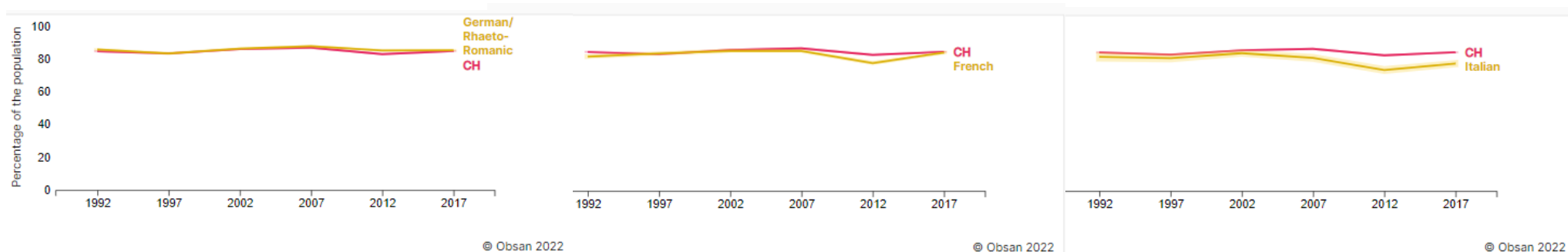
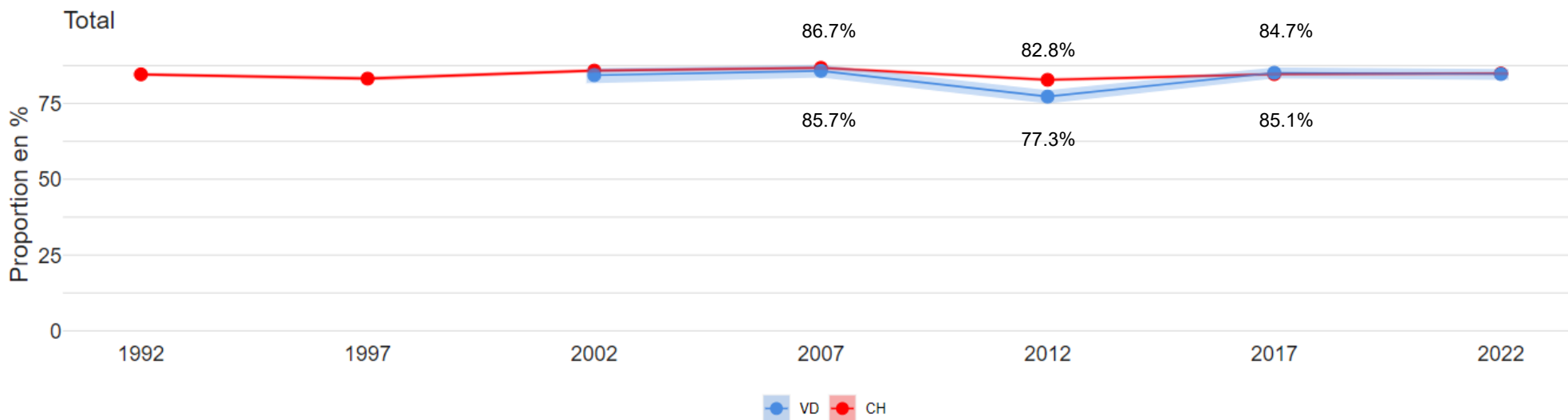
## Obsan activities with partners

- Prepare existing data
- Publish scientifically reliable and relevant health information in a user-friendly way
- Results for the purpose of:
  - Supporting health policy planning and decisions
  - Evaluation of measures, health services and (care) structures
  - Detection of system-inherent problems
  - Highlighting health problems in the population

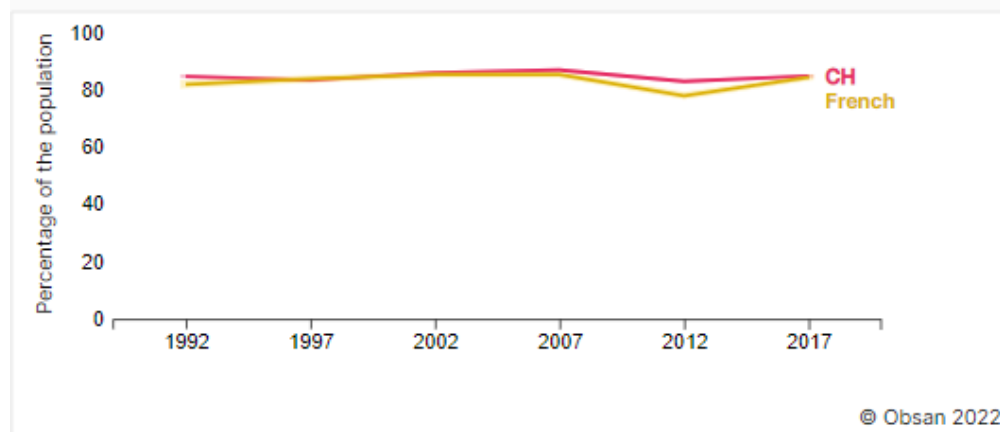
## Reliable health information

- Independent
- Transparency
- Expertise knowledge and experience
- Delve into data/topics
- Cooperative
- Critical appraisal
- Accountability and responsible communication
- ...

## État de santé auto-évalué bon à très bon, évolution de 1992 à 2022



- -3% in the German speaking part
- -8% and -9% in the French and Italian speaking part



## 1992-2007

Comment est votre **santé** en général ?

- Très bonne
- Bonne
- Moyenne
- Mauvaise
- Très mauvaise

## 2012

Comment est  **votre état de santé** en général ? Est-il...

- Très bon
- Bon
- Assez bon
- Mauvais
- Très mauvais

## 2017

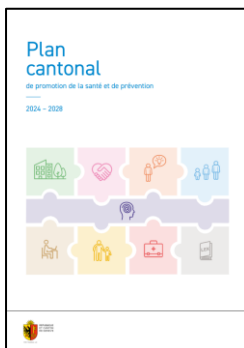
Comment est  **votre état de santé** en général ? Est-il...

- Très bon
- Bon
- Moyen
- Mauvais
- Très mauvais



REPUBLIQUE  
 ET CANTON  
 DE GENEVE

POST TENEBRAS LUX



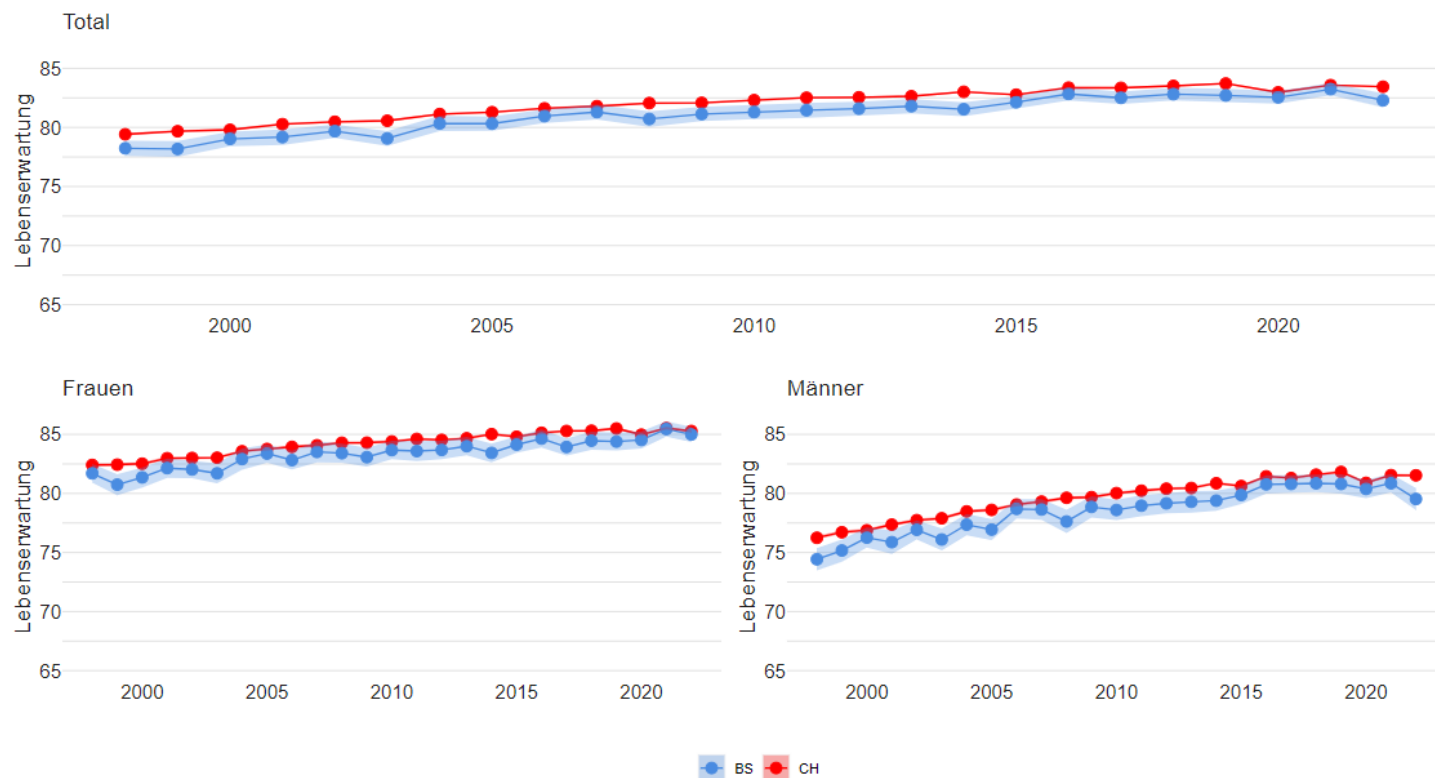
KANTON  
 NIDWALDEN

Building an  
 action plan to  
 promote  
 population  
 health literacy



Kanton Basel-Stadt

## Lebenserwartung bei Geburt, Entwicklung 1998–2022



## Organization of tasks according to focus areas

- Health reporting
- Indicator systems



Kantonale Gesundheitsreports

Nationales Monitoring  
Pflegepersonal



Versorgungsatlas



Schweizer Atlas der  
Gesundheitsversorgung



Reliable information  
needed

MonAM

Schweizer Monitoring-System  
Sucht und nichtübertragbare  
Krankheiten



Ambulant vor  
Stationär

AvS

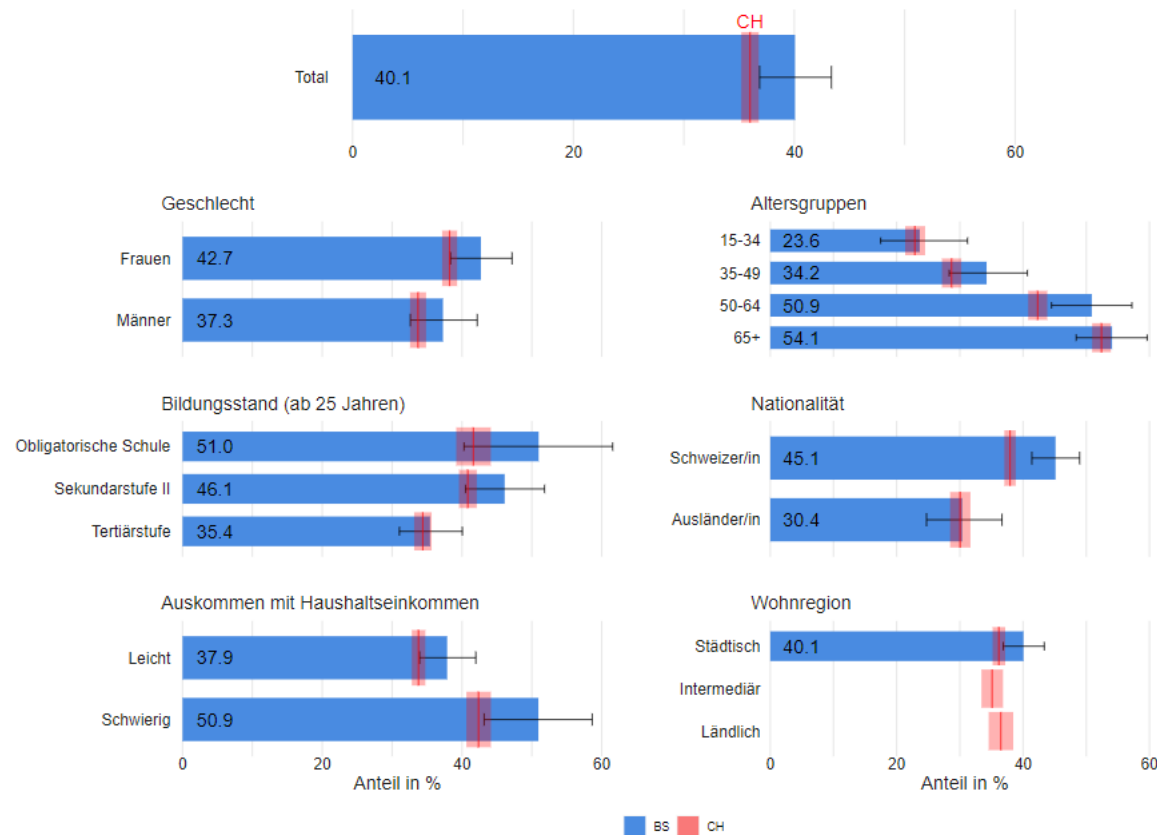
Monitoring der Verlagerung  
und der Kostenwirkung





- SHS remains one of the few sources that can be used to analyse socio-demographic differences in health.

Chronisches Gesundheitsproblem, soziodemografisches Profil 2022

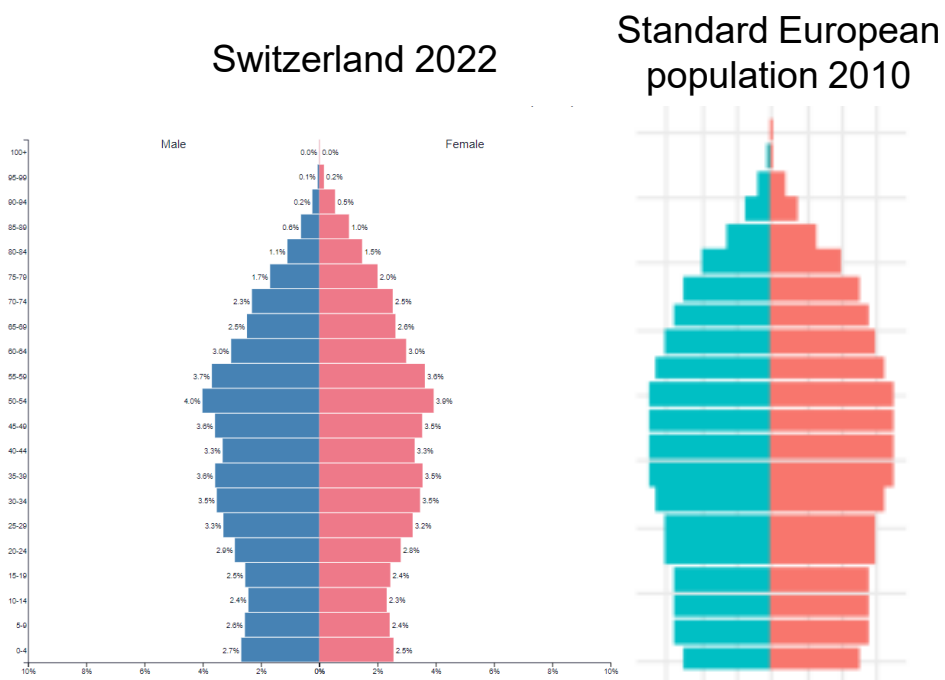


## Crude percentage VS risk ratio: what is the most reliable and relevant?

- Crude percentage
- Odds ratio, model coefficient, marginal effect
  
- **The choice of a simple and easy-to-understand measure**
- **Complementarity with research is essential**

## Age and sex standardisation

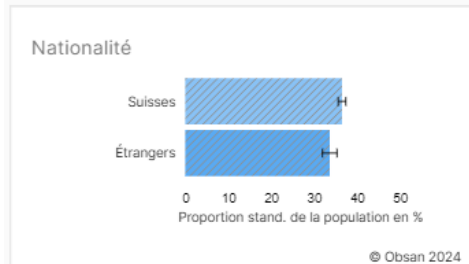
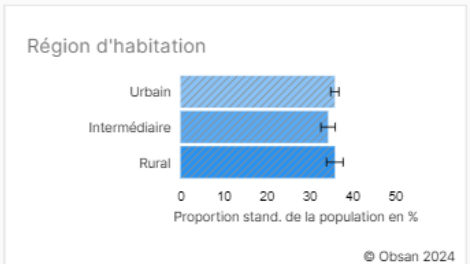
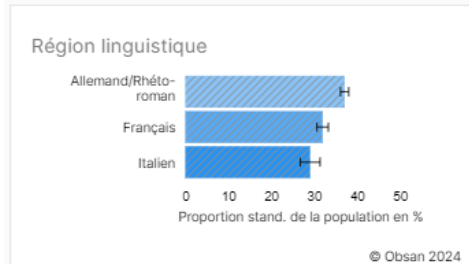
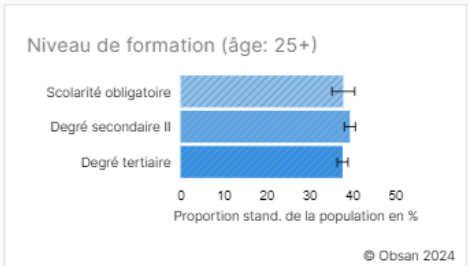
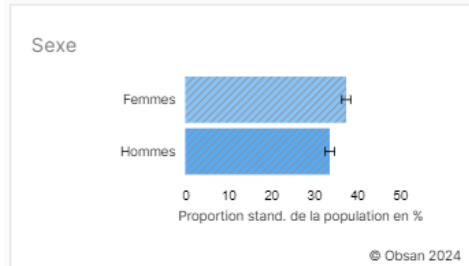
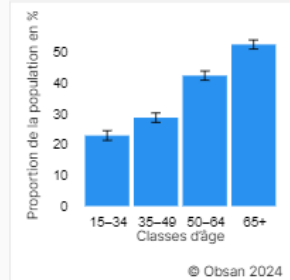
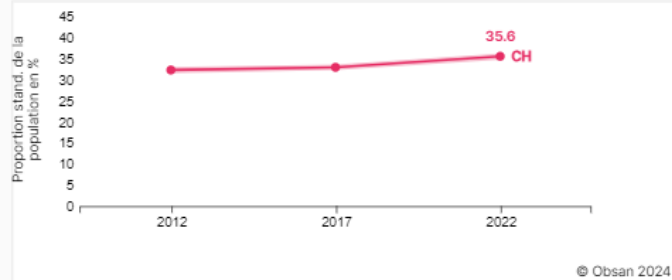
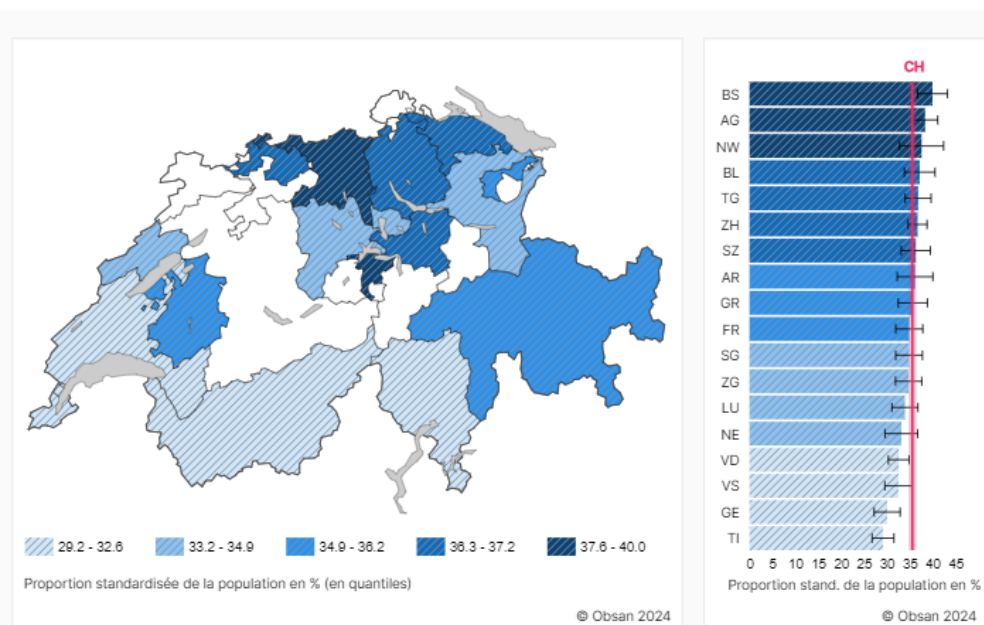
- Use of **direct** standardisation for many health system indicators
- It's new for the SHS, as an option
- Use of the 2010 standard European population as the standard



## Fréquence des problèmes de santé de longue durée

Proportion de la population vivant en ménage privé en %

◀ 2022 ▶ Total Femmes Hommes Standardisation



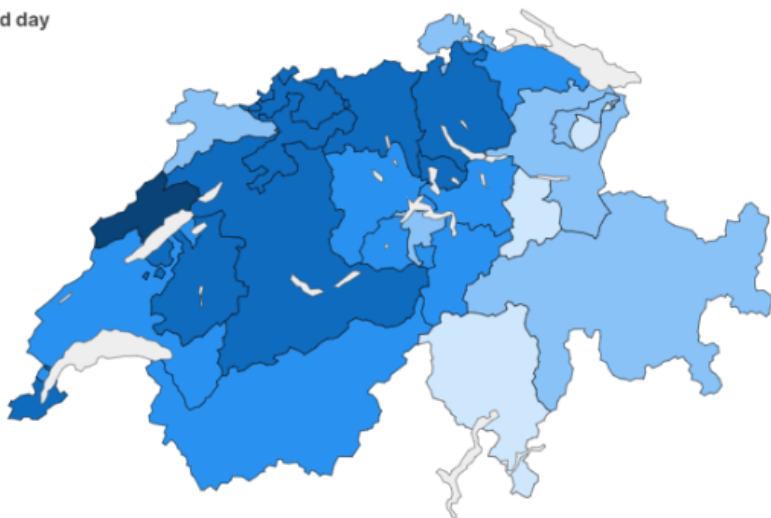
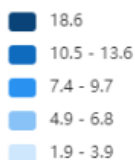
## An example of the Swiss Health Care Atlas

- The atlas documents regional differences in the use of health care services
- Spatial variation as an indicator of misuse (underuse to overuse)
  
- **They can't all be right**
- **Three indicators to measure spatial variation (SCV, EB, QR)**

## ADHD medicines

Cantons 2022

DDD stand. per 1000 inhab. and day



Measurand Defined Daily Doses (DDD) standardised by age and gender per 1000 inhabitants and day

Population Switzerland's permanent resident population aged up to 18

Data source Tarifpool

Key figures 2022

Total DDD 5 701 302

Total costs (CHF million) 11.4

Regional variation 2022

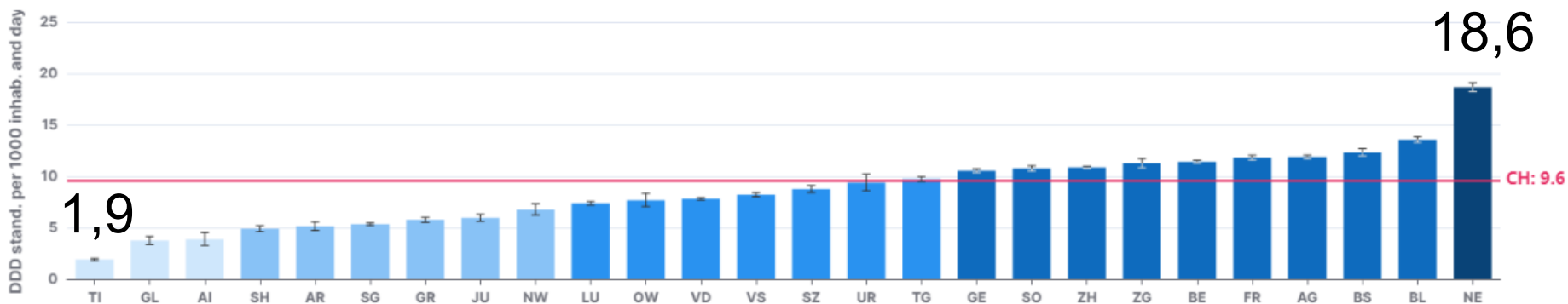
Systematic variation (SCV) 15.1

Empirical Bayes estimator (EB) 20.9

Quintile Ratio (QR) 2.14

Spatial-temporal variation 2018 - 2022

Coefficient of concordance (KCC) 0.97



## A landscape of the health status and the healthcare system



**Healthcare supply**

**Health care utilisation**

**Epidemiology**

- Obsan plays a key role in health monitoring
- Reliable processing of population's health information and advising stakeholders along the process
- Collaboration with research remains essential (mutually influential)



**Vielen Dank für Ihre Aufmerksamkeit!**

**Merci beaucoup pour votre attention !**