



Summary Report of Sabbatical Leave

University of Bern

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1400.03.11

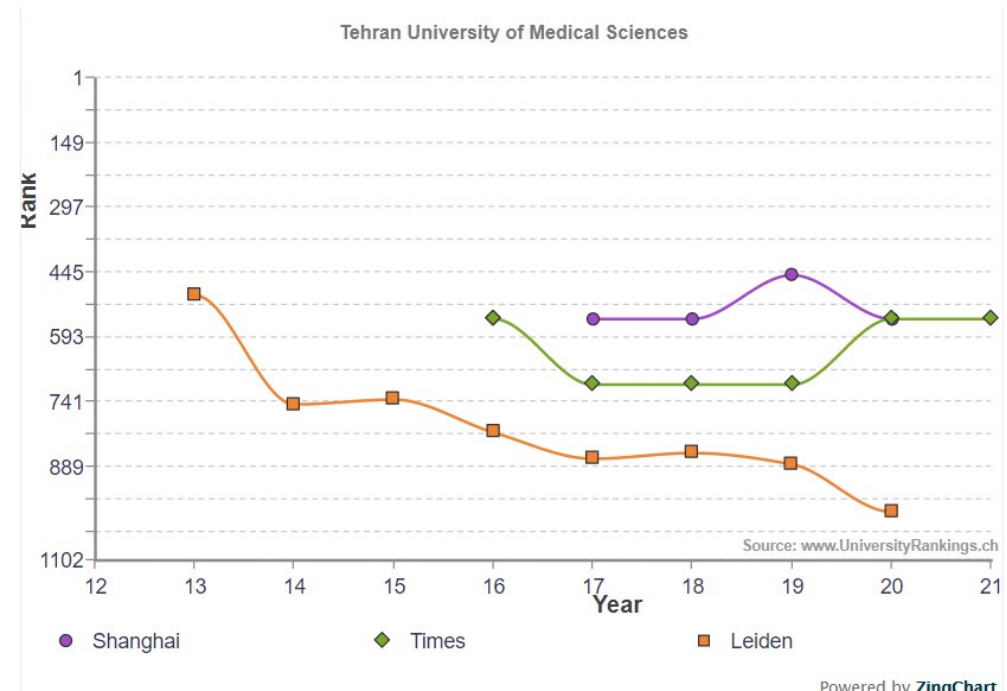
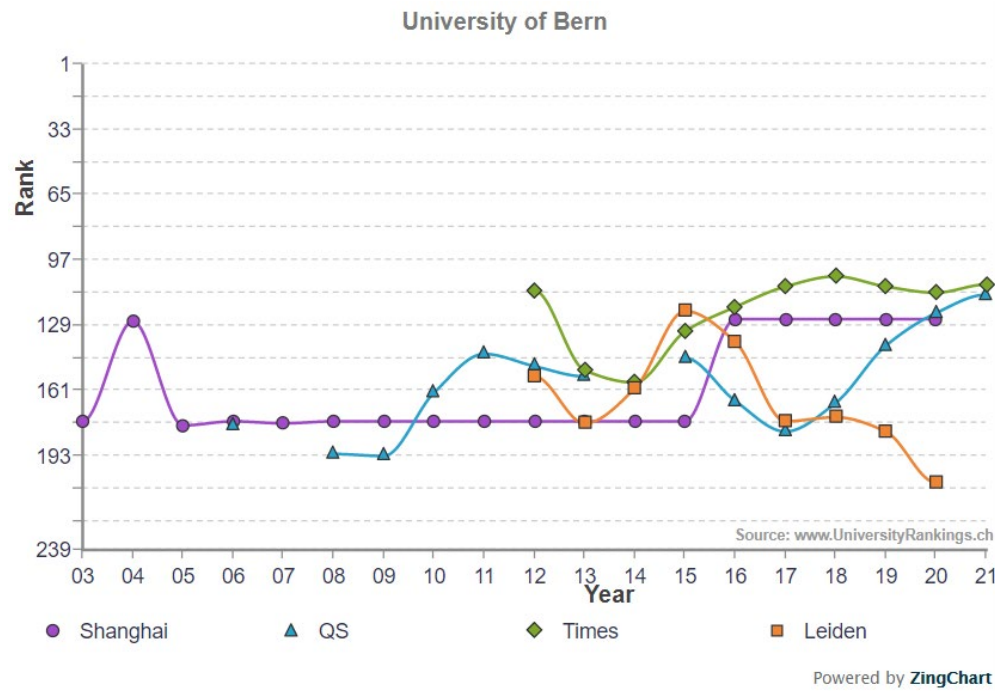


Outline

- → **Bern, Switzerland**
- → **Bern University**
- → **ISPM**
- → **About me**

- **Population: 144,000**
- **Official language of University : English**
- **River Aare**





Shanghai Jiao Tong Ranking 2020 - World

| World Rank | Institution | Country |
|------------|--------------------|---------|
| 101-150 | University of Bern | |

Shanghai Jiao Tong Ranking 2020 - World

| World Rank | Institution | Country |
|------------|---------------------------------------|---------|
| 501-600 | Tehran University of Medical Sciences | |



General standards with regard to:

- **People**
- **Research and Teaching**
- **Public relations and environment**



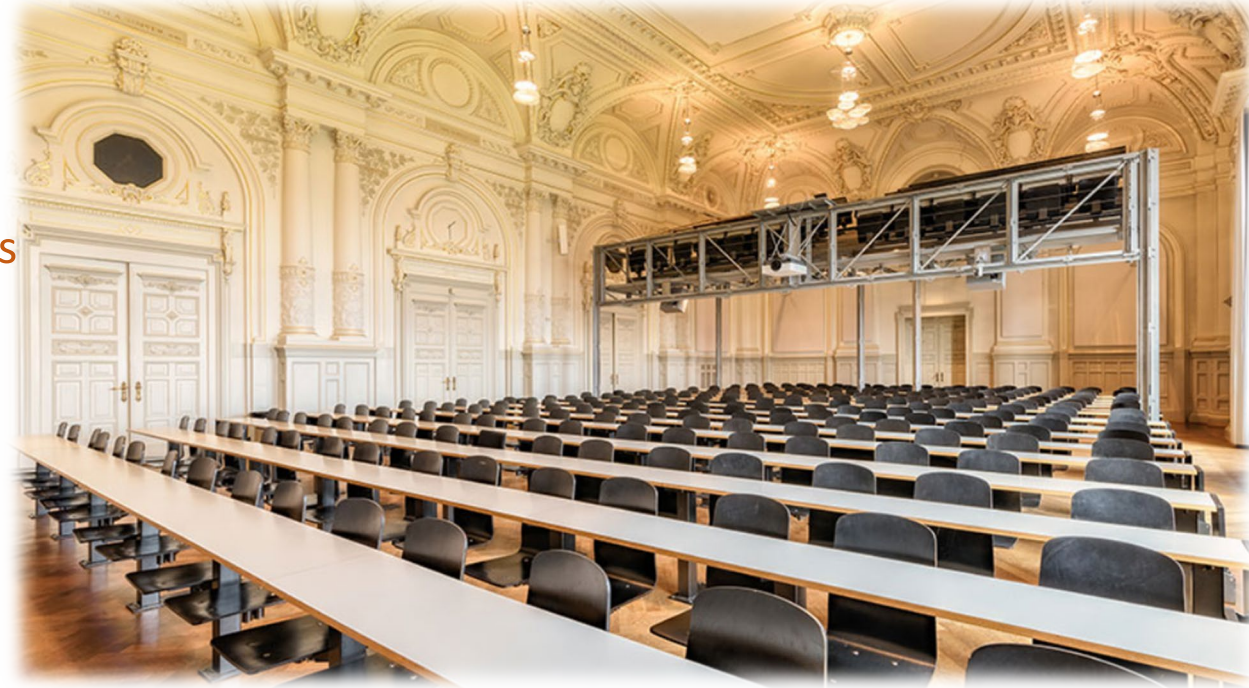


- Benefit to **science, society** and the **economy**
- Focus on **academic interests** and **societal needs**
- Promoting sustained value creation for the **economy of the Canton of Bern**

University of Bern is able to honor its obligations to the citizens of the Canton of Bern, who are the people **who enable the University to exist**

COVID and University of Bern

- Transition all courses to distance-learning solutions in March within the space of just 3 days
 - **Lecture halls that were already equipped to automatically record podcasts**
 - **ILIAS learning management platform**
- **New multidisciplinary center founded to fight pandemics**
 - **“Promotion of Innovative Teaching” fund**
- A valuable contribution by **eCoaches** since fall 2019
- **Achieve the best-possible blend of distance learning and in-person classes**
 - **Open days for first-semester students in September and received feedbacks**





Institute of Social and Preventive Medicine (ISPM)

ISPM provides:

- **Undergraduate & postgraduate education**

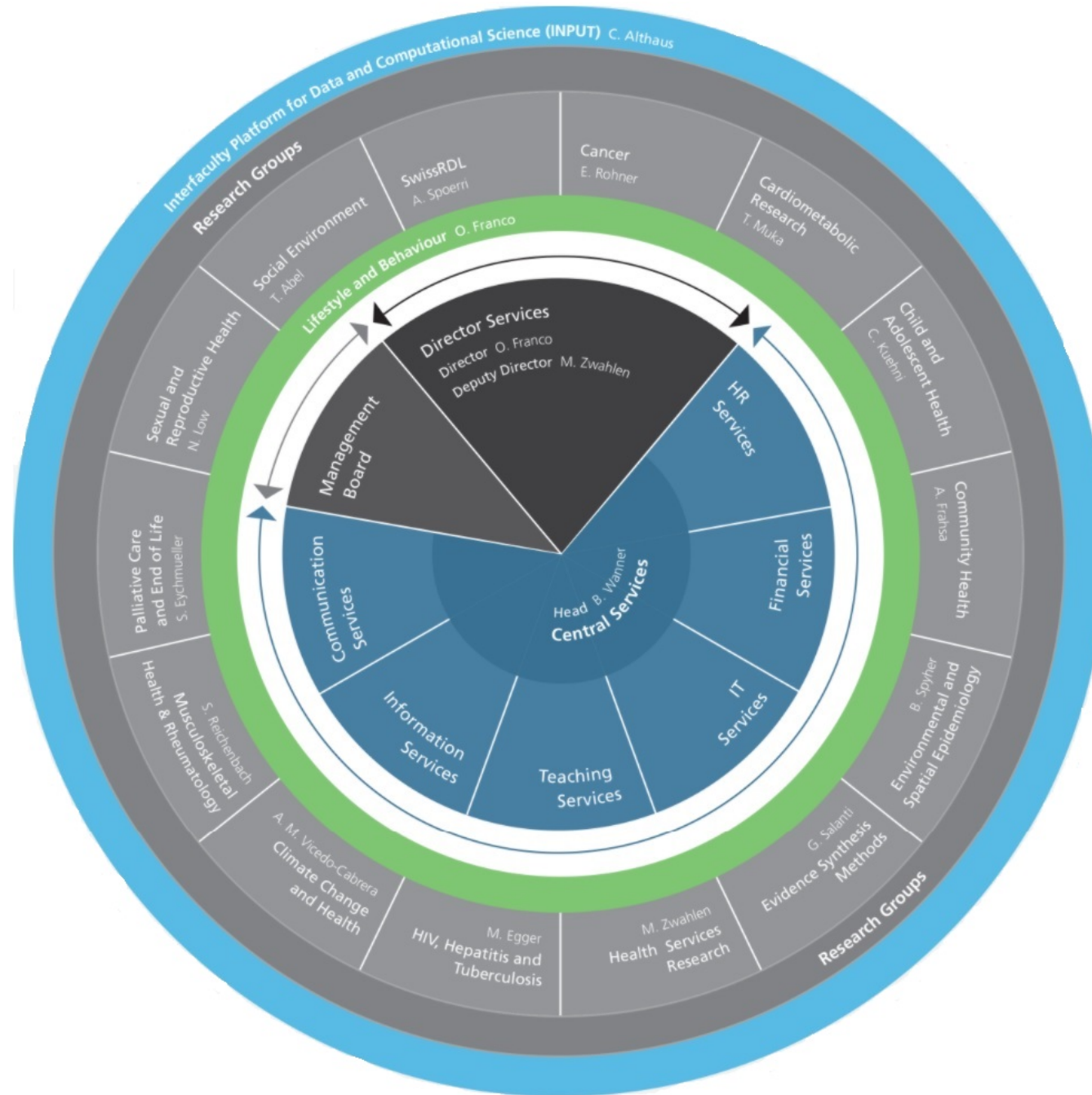
Interdisciplinary research in the fields of:

- **Social and behavioral health**
- **Clinical epidemiology and biostatistics**
- **International and environmental health**





Organigram ISPM





Vision ISPM



Vision:

✓ **Global** excellence and innovation through **local** impact

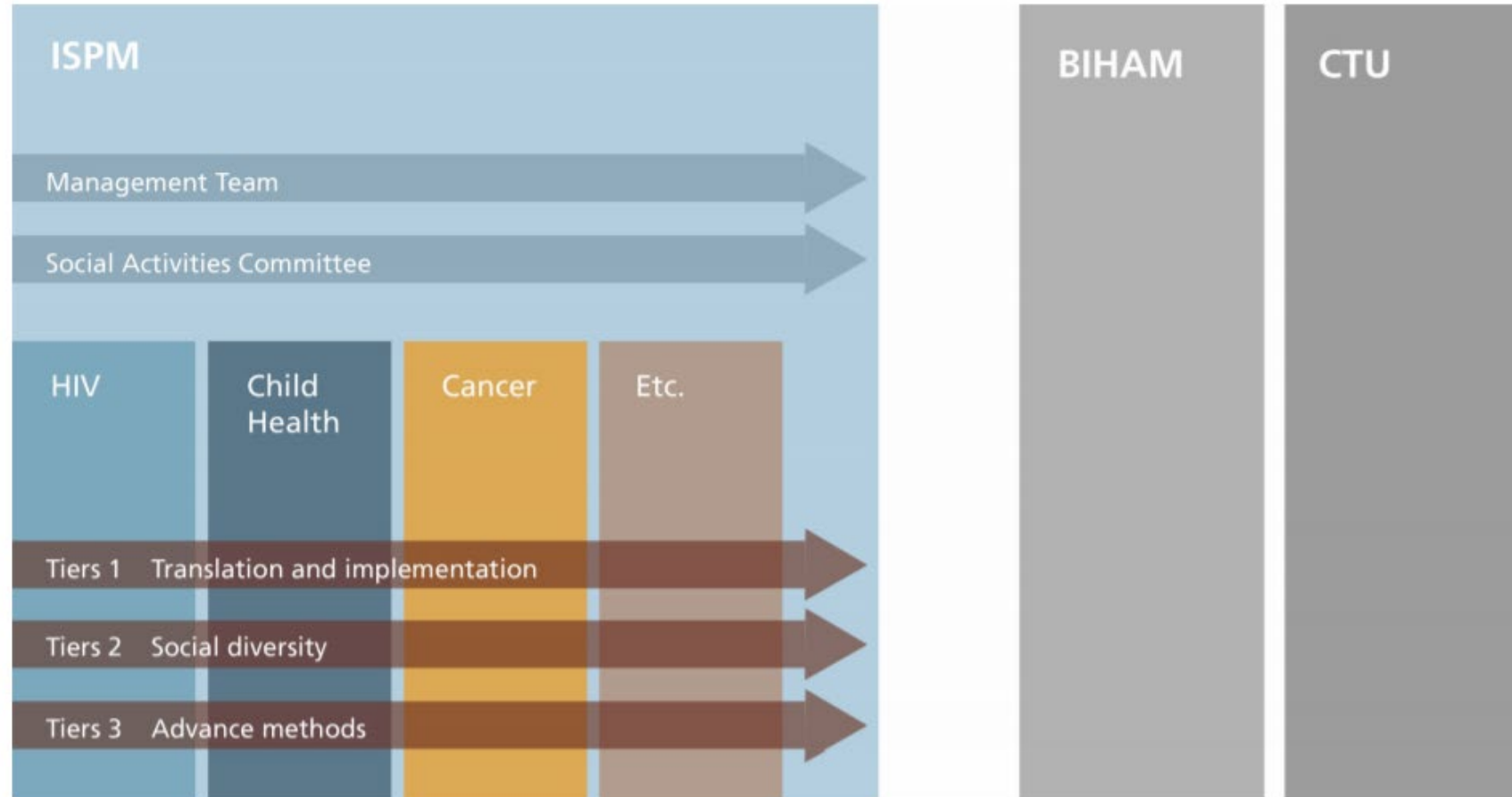




Mission:

- Improving **population** health
- Producing **scientific** and **educational outcomes** relevant to
 - prevention, epidemiology, public health, social sciences, and methodology
- Open **communication** with the academic and healthcare **communities**, and with the **public**
- Strong **collaborations** with partners at local, regional, national, and international levels
- Providing **fair access**, opportunity, and advancement for all
 - irrespective of gender, age, ethnicity and cultural background

The scientific infrastructure of ISPM



This is fundamental:

- Research findings should not be confined within a publication but be put into practice for the direct benefit of local populations and our clinical colleagues



ISPM's talent cycle



- I** Identify: we seek opportunities to encounter and identify talent.
- S** Select: after identification we carefully select talented persons who share our core values.
- P** Prepare: once talent has been recruited; we contribute actively to career development.
- M** Maintain: we seek opportunities for talent to succeed in ISPM or with associated partners.



Collaborations Internal & external



External sources of data through collaborations such as:

- Amsterdam for the “Healthy Life in an Urban Setting” (HELIUS) study
- Greifswald for the "Study of Health in Pomerania" (SHIP) study
- Canada for the Canadian Longitudinal Study on Ageing ...

Identification of potential synergies and collaboration with:

- Collaborations with Inselspital (neurology, cardiology)
- Center for Development and Environment (CDE)
- University of Bern - Collaboration with the Swiss Paraplegic Centre
- Collaboration with Fritz Sager on Policy lab
- Collaboration with astrophysicists from University of Bern ...



The five values are:



- **Scientific rigor**
- **Transparency**
- **Respect**
- **Solidarity**
- **Equity and diversity**



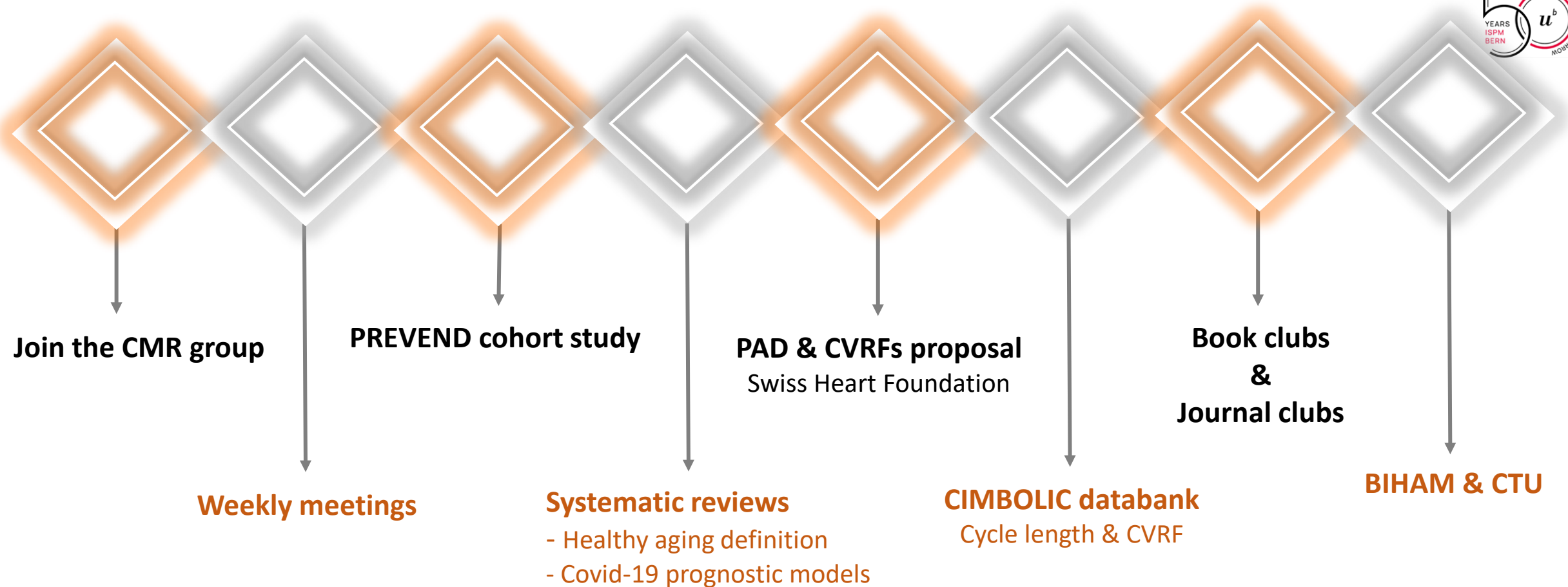
How will this success be measured?

- **Grants**
- **Publications**
- **Individual career success**
- **Effective collaborations**
- **Local impact**
- **Global positioning**



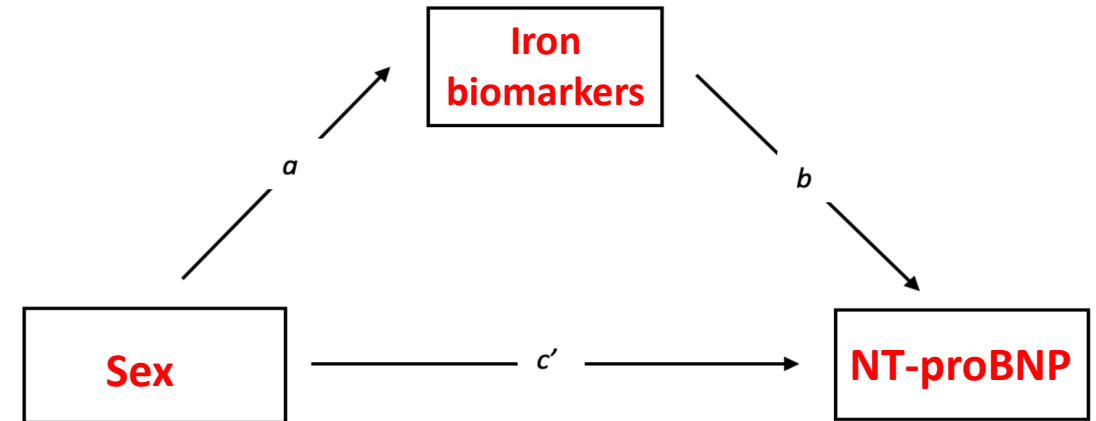


About me



Research objectives:

- Association between NT-proBNP and sex
- Association between sex and iron biomarkers
- Mediation effect of iron biomarkers/status



- IBM SPSS Statistics version 27: PROCESS v3.5 by Andrew F. Hayes
- R version 4.0.4: Lavaan packages 0.6-8



Study population

- **Prevention of Renal and Vascular End-stage Disease (PREVEND)**
- **A prospective, general population-based observational cohort study**
- **All residents of Groningen (Netherlands) between 28 and 75 years of age**





Thanks