



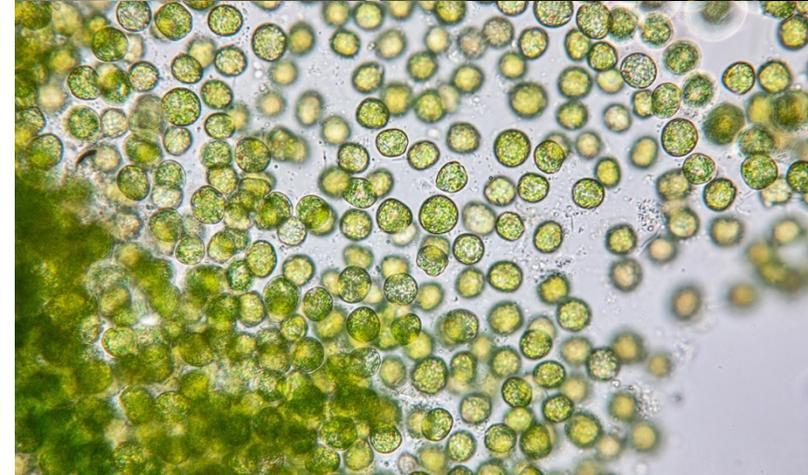
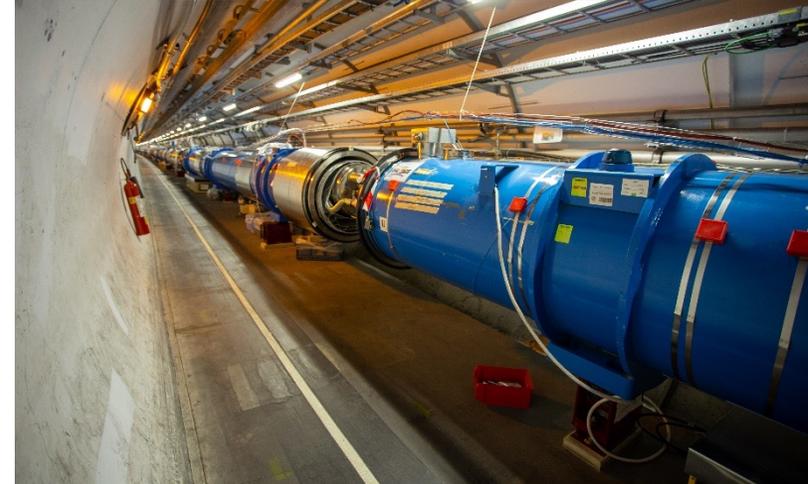
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Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
**State Secretariat for Education,
Research and Innovation SERI**

Personalized Health in the Context of Swiss R&I Policy

Gregor Haefliger, 24 August 2022
Swiss Personalized Health Day





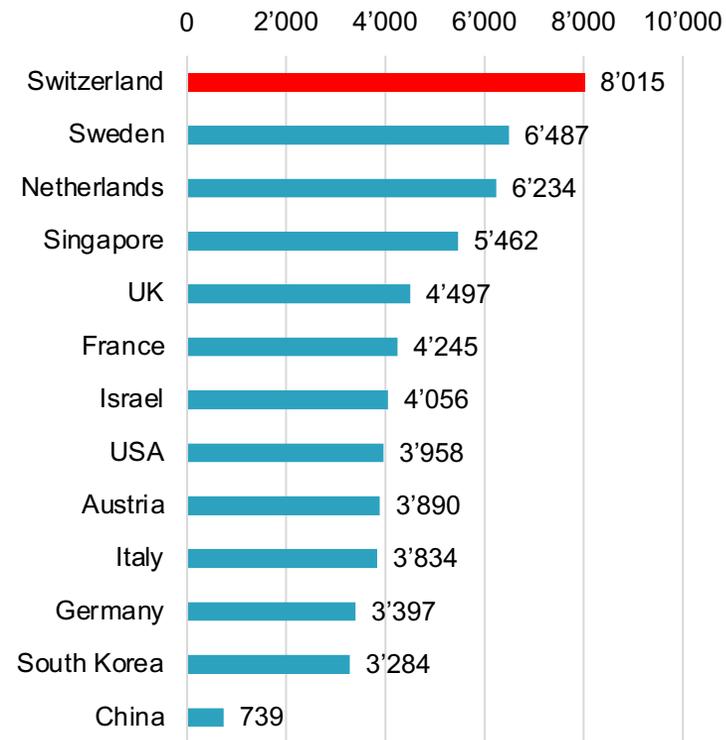
I. Context: General remarks



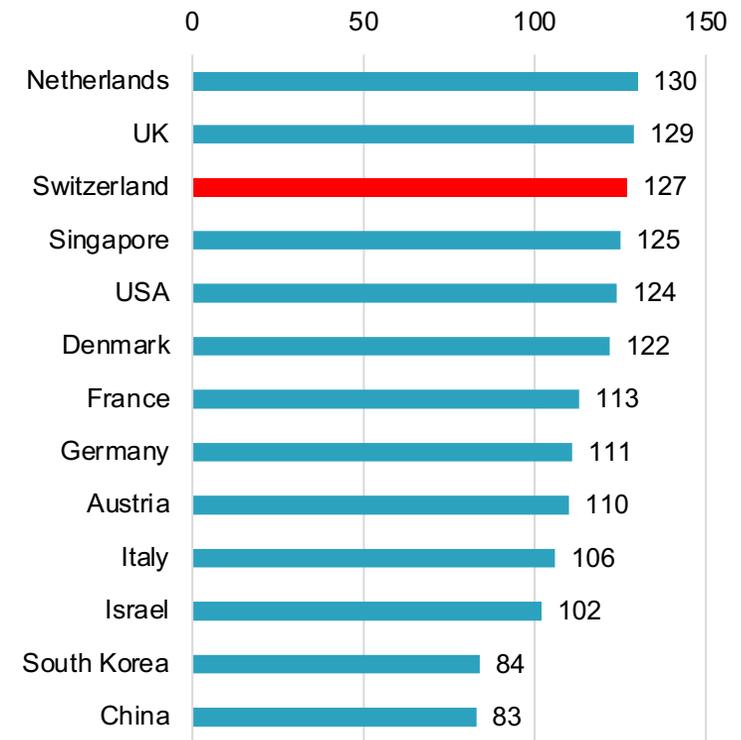
Facts and figures

Scientific papers

Scientific papers per million inhabitants,
(annual mean 2016-2020)



Relative citation indicator (impact)
from scientific articles,
(annual mean 2016-2020)

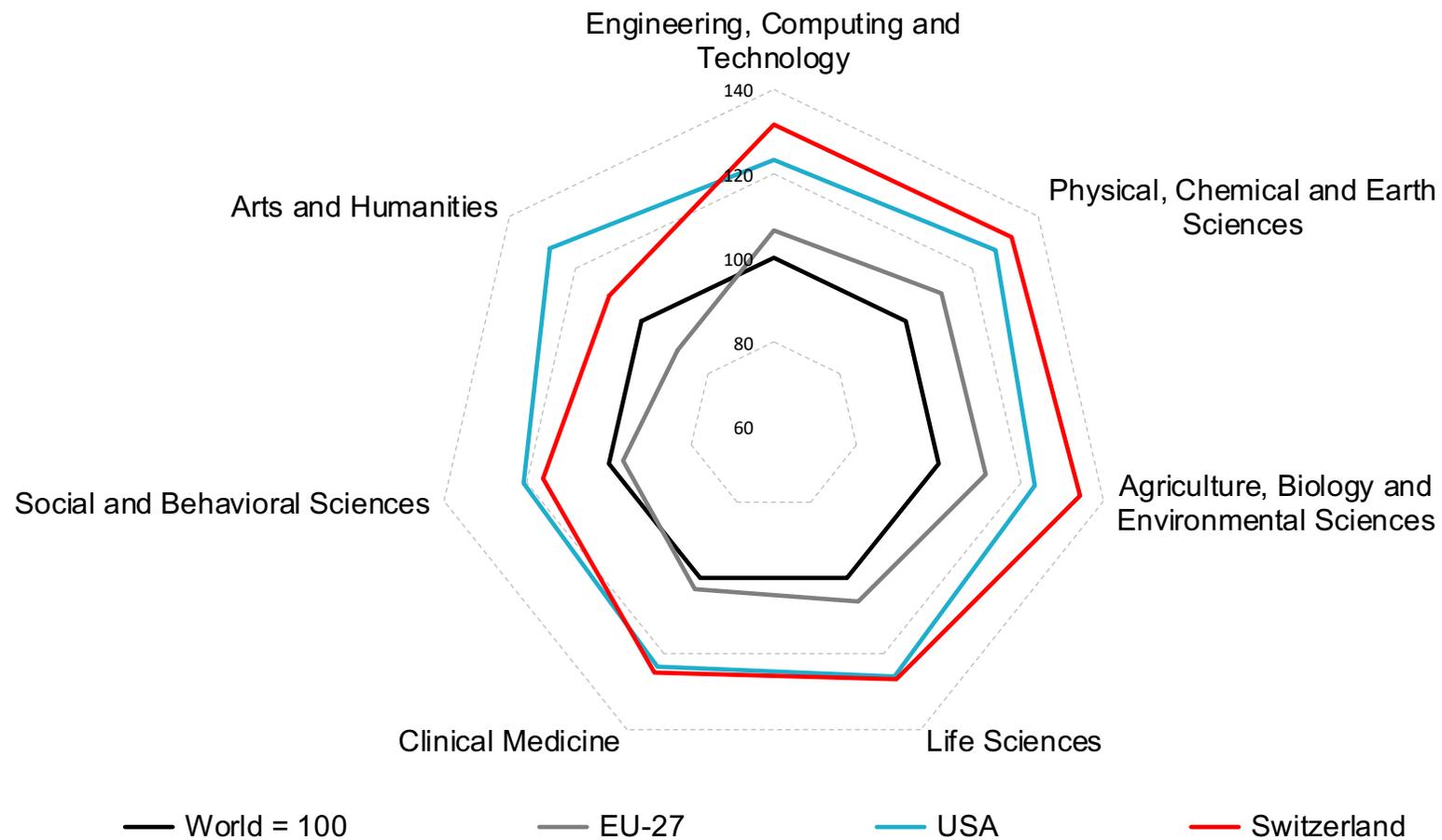


Source: SERI 2022, Scientific Publications in Switzerland 2008–2020



Facts and figures

Research portfolio



Source: SERI 2022, Scientific Publications in Switzerland 2008–2020



Context: Research and innovation policy

Key features and success factors

- International innovations ranking lists: Switzerland holds good to very good positions
- Publications und Impact: as well best positions
- Private sector provides high funding for research and development
- High autonomy for academic institutions, researchers and innovation actors
- Priority given to the bottom-up approach: researchers enjoy autonomy and take personal initiative in submission of research proposals
- Research and Innovation Agencies: Competition and criteria of excellence
- All actors international highly networked ; “open” ERI-System *par excellence*



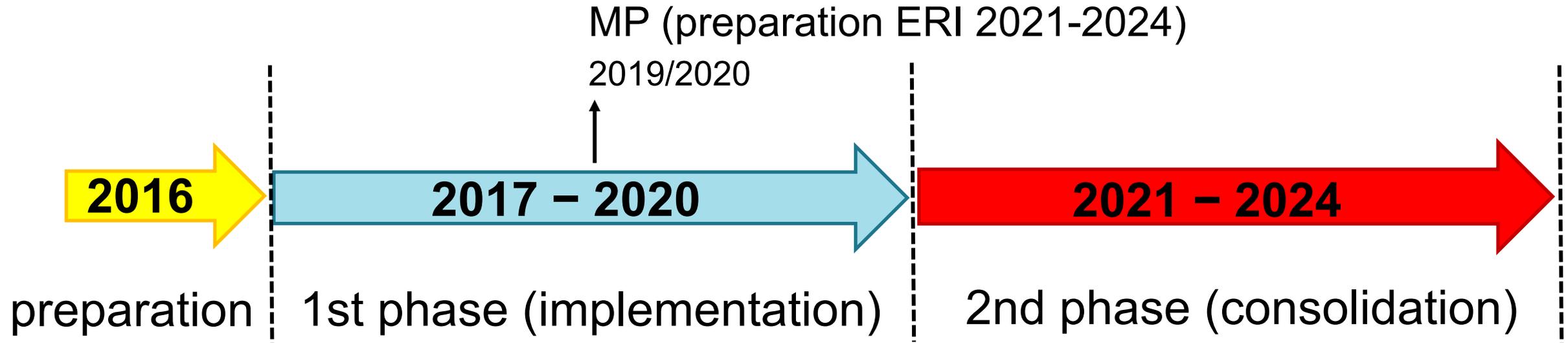
I. Context: General remarks

II. **Special Initiative PM** (*initial situation*)

Swiss Clinical Research (SCR)

- **Strong development during the last ten years**
 - ➔ Complementary to *pathology-specific* Trial organisations in the field of cancer research (SAKK; Swiss Ped Net)
 - ➔ Establishment of the Swiss Clinical Trial Organization SCTO [based on a network of Clinical Trial Units / clinical research centers at hospitals]
 - ➔ Public-Private Partnership (PPP) well established (evidence based medicine; outcome research ...)
- **High investment in biomedical research during the last ten years**
 - ➔ NCCR's; Bioinformatics (SIB); System Biology (SystemsX.ch)
 - ➔ Establishing new concepts / approaches for «translational medicine»
 - ➔ high innovation potential (for diagnostics, treatments, development of new drugs, rare diseases)
- **«Precision Medicine» to «Personalized Medicine» to (treatment of) «patients» (the individual case)**

Long term vision (SPHN-Initiative)



- Final «result»: a **National Repository for Clinical Research**
- Integration of «cohort studies»-data (infrastructures)
- Profil : «**Pathogenesis**» & «**Salutogenesis**»



I. Context: General remarks

II. Special Initiative PM (*initial situation*)

III. **Expectations (Perspective: ERI-Period 2025 – 2028)**

Research-Infrastructure (SPHN-Initiative)

SPHN is **NOT** a research-*funding* initiative (→ SNSF), **BUT** a research-*infrastructure* initiative

- ❑ SPHN has «*to build the infrastructure necessary to exploit the diversity of health related data for research and innovation*»
- ❑ *Complex task*: development of a «nationwide coordinated data- & information system»
- ❑ Harmonization of local information systems (in particular clinical data from hospitals) **and** R&D-activities (development of «tools»; testing/controlling of «tools» ...) is an **integral task** of the initiative



Goals for SPHN as defined in the «Zusatzprotokoll»

- Consolidation of the network and its actors
- Consolidation of the data coordination center
- Clarification of interfaces with other institutions
- Clarification of ethical and regulatory questions regarding clinical research data
- Establishment of guidelines for collaborations with industry and international consortia
- Consolidation of the BioMedIT infrastructure
- Completion of the initiative in 2024
- Furthermore: Preparation and clarification of the steps for extending SPHN beyond clinical routine data and university hospitals



Expectations for SPHN

(Perspective: ERI-Period 2025-2028)

1. Completion of the Special PM-Initiative by the end of 2024
2. Consolidation of the Data Coordination Centre DCC
3. Embedding the «future» DCC in an *overarching* National Data Strategy



Thanks for your attention!