



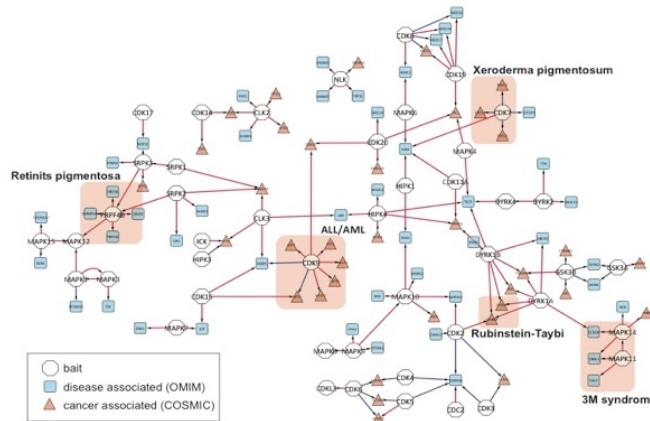
Swiss Personalized Health Network

At a glance (2017-2020)

A project of:  **SAMWASSM**
Schweizerische Akademie der Medizinischen Wissenschaften
Académie Suisse des Sciences Médicales
Accademia Svizzera delle Scienze Mediche
Swiss Academy of Medical Sciences

Vision “Personalized Health”

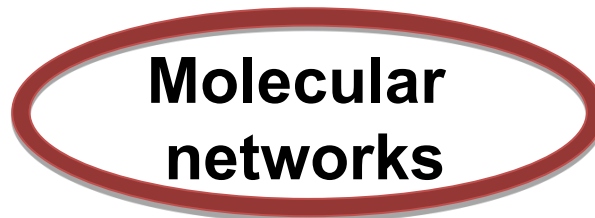
The scientific roots: Genotype - Networks - Phenotype



Environment, Epigenome

Genotype

- Patient
- Healthy citizens



Phenotype

- Patients
- Healthy citizens



THE PRECISION MEDICINE INITIATIVE



P4 Medicine

● PREDICT ● PREVENT ● PERSONALIZE ● PARTICIPATE



The Future of Personalized Health,
Epigenetics & Functional Medicine



THE PRECISION MEDICINE INITIATIVE



P4 Medicine

● PREDICT ● PREVENT ● PERSONALIZE ● PARTICIPATE

What about Switzerland ?

MEDICINE



MAYO CLINIC



CENTER FOR
**INDIVIDUALIZED
MEDICINE**



**Pharmacogenetics &
Stratified Medicine
Network**

Swiss Personalized Health Network (sPHNet)

Interdisciplinary Steering Board
(Central Administration Office)

(Data) Coordinating Center



Data storage, data mining,
data reconstituion

ELSI

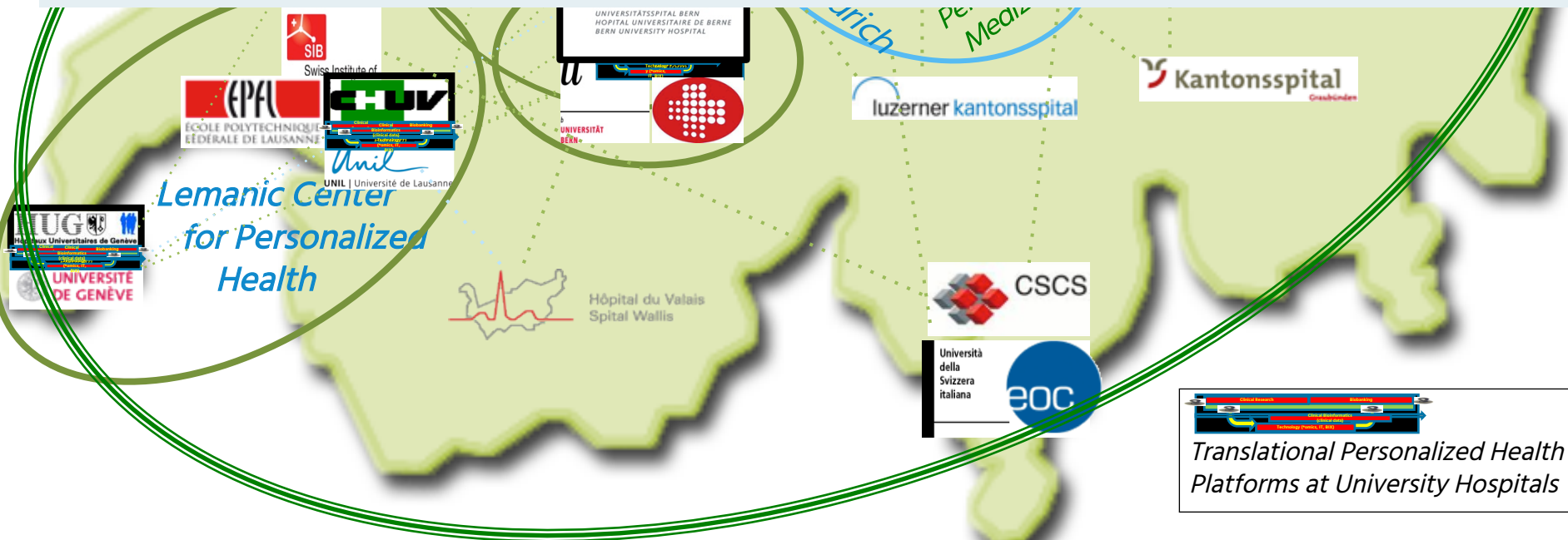
Advisory
Board

International
communication
and coordination

Nationwide Data Interoperability !!

**Lemantic Center
for Personalized
Health**

*Translational Personalized Health
Platforms at University Hospitals*



The Swiss Personalized Health Network Initiative

Initiative proposed by a SERI Core Steering Group & the Swiss Academy of Medical Sciences (SAMS)

- Preparatory work: June 2014-2015
- Implementation phase: June-December 2016



Preliminary reports:

“Personalized Health”. Report to discuss options and frame for a new Swiss Initiative.
By an interdisciplinary and inter-institutional working group, June 2014.

Konzept Nationale Förderinitiative: „Systems Medicine – Personalized Health“.
1st SERI commissioned Report by Working Group 1, September 2014.

Interoperability of clinical and -omics data in Switzerland.
2nd SERI commissioned Report by Working Group 2, February 2015

Setting up an Organisational Structure until end of 2015
3rd SERI commissioned Working Group 3



Mission of SPHN

As defined by the SERI-FOPH-SAMS service contract, SPHN's mission is:

Long-term:

*The long-term goal of SPHN is the establishment of a **Swiss Network in Personalized Medicine/Health**, in which all relevant biomedical research institutions, University (and other research) hospitals, research funding organisations, public health institutions and patient/citizen organisations are included.*

Period 2017-2020:

*To optimize the benefit for the research community, the installation of a **nationally coordinated data infrastructure** has absolute priority. This includes the assurance of the intended **interoperability of local/regional information systems**.*

SPHN is a project of SAMS

The legal and organizational framework of SPHN is defined by SERI-FOPH-SAMS service contract

- SERI accepted the *SBFI-BAG-SAMW Zusatzprotokoll* together with the Funding principles and corresponding Funding regulations.
- The goal of the *SBFI-BAG-SAMW Zusatzprotokoll* has been clearly defined: SPHN must focus on building a coordinated data infrastructure for personalized health.
- SAMS is responsible for all administrative, legal and financial issues of SPHN. SPHN is responsible for all content-related issues.

→ **More information:**

www.sphn.ch

SPHN will coordinate with relevant institutions

➤ Data Coordination Center and BiomedIT



Swiss Institute of
Bioinformatics

➤ Coordinated Call for project proposals



Strategic Focus Area

**Personalized Health
and Related Technologies**

➤ Support of Personalized Health research
within existing funding instruments



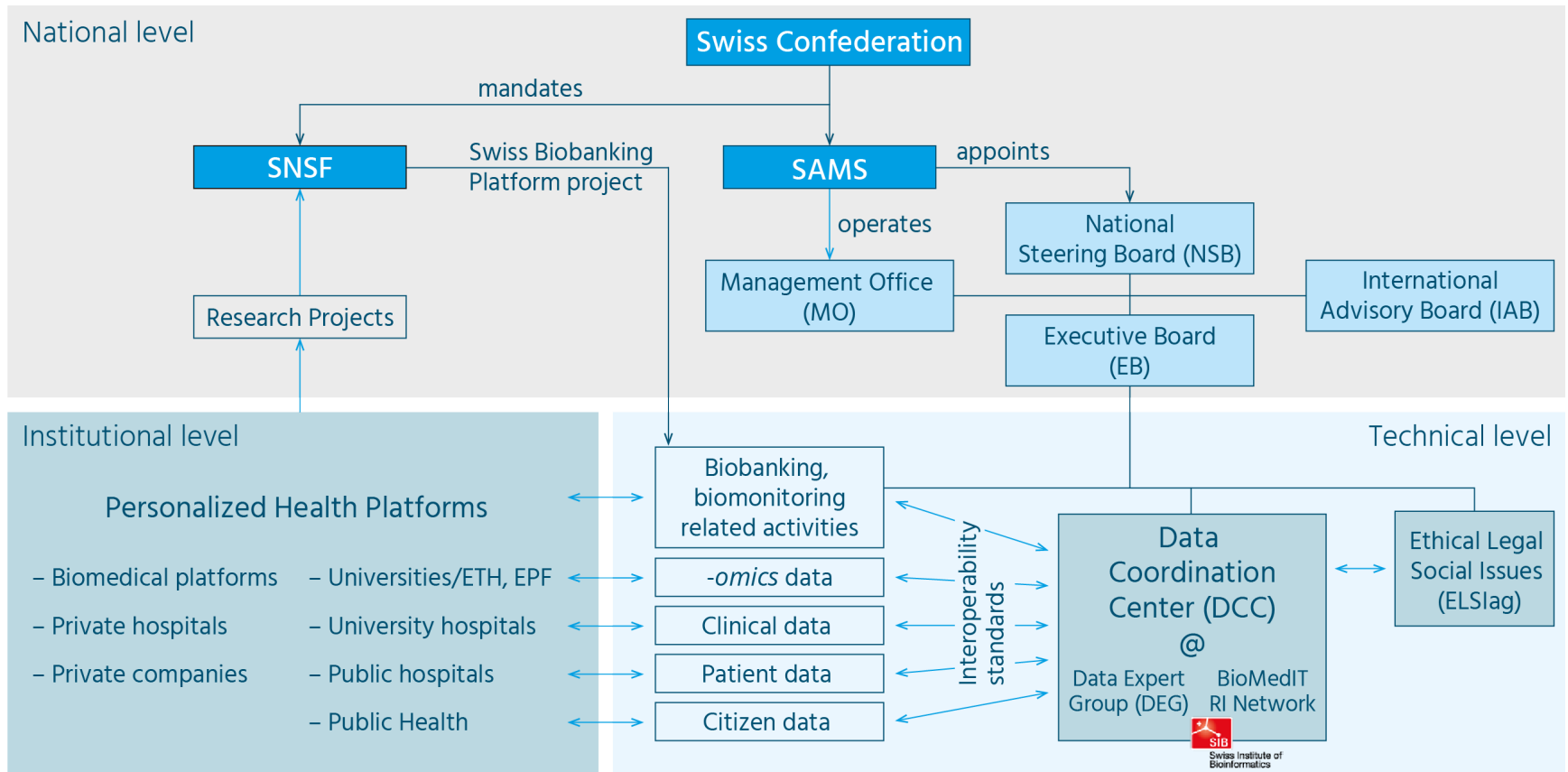
FONDS NATIONAL SUISSE
SCHWEIZERISCHER NATIONALFONDS
FONDO NAZIONALE SVIZZERO
SWISS NATIONAL SCIENCE FOUNDATION

➤ Coordination and harmonization of
biobanking management systems



And more to come...

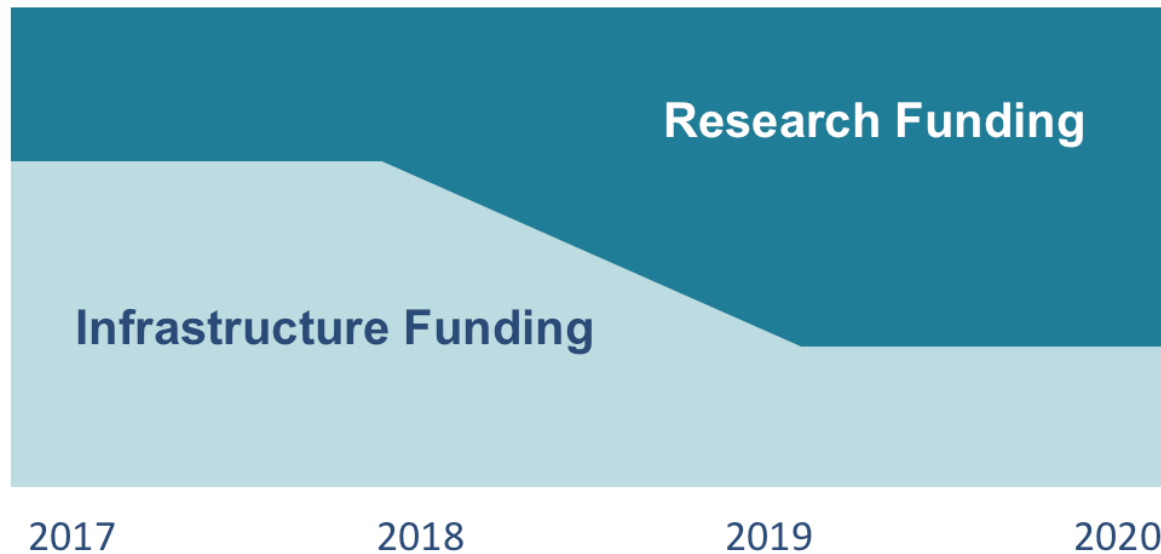
Structure of SPHN (2017-2020)



Note: SPHN starts with public institutions (e.g. University Hospitals, Universities, ETH-Domain) and shall be extended later to private hospitals and private companies.

SPHN will fund infrastructure development

The sequential phases of the SPHN initiative: focus moves from infrastructure towards research project funding.



SPHN will fund three types of projects

To develop and implement the required infrastructure, SPHN will fund the development of infrastructure using the following project types:

Project type	Description	Funding scheme
Infrastructure implementation projects	Projects that are devoted to build a progressive shareable data system enabling nationwide interoperability of molecular and clinical patient data.	Collaboration agreements
Infrastructure development projects	Projects that thrive to develop and test new technologies, methods and infrastructures for personalized health related research in connection with infrastructure implementation (<i>incl. biobanks</i>).	Call for proposals
Driver projects	These projects are based in a concrete research field (e.g. cancer research/oncology) and will push the development of clinical data management systems in all University Hospitals by testing data interoperability & data sharing principles within the whole network.	Call for proposals

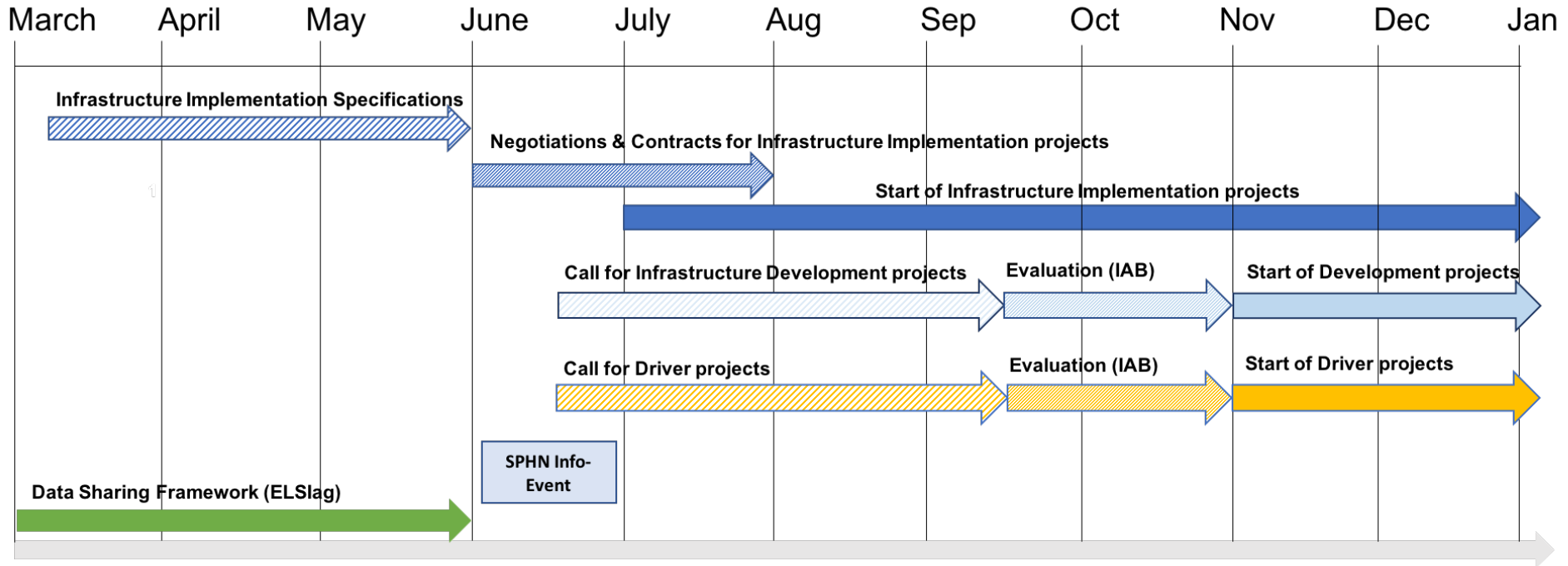
SPHN funding (2017-2020)

Based on the Funding Principles and Funding Regulations, the Swiss Government has allocated a total of CHF 68 million to SPHN for the first period (2017-2020) of which **50 million are under the responsibility of the National Steering Board (NSB) and SAMS:**

Item	CHF	Description
1. Management, bodies, symposia, workshops, etc	4.0 mio	Limit of expenses (Ausgabenplafond)
2. Instruments (in order of priority)	46.0 mio	Total engagements (Verpflichtungskredit)
- Infrastructure implementation projects	15.0	
- DCC & ELSI	6.0	
- Infrastructure development projects	10.0	
- 'Driver' projects	15.0	
3. BioMedIT (project of the SIB Swiss Institute of Bioinformatics)*	18.0 mio	Limit of expenses (Ausgabenplafond)

**The aim of BioMedIT is to establish a coordinated nationwide network of secure IT infrastructures to support biomedical research.*

Timeline 2017



Federal Act on Research involving Human Beings (Human Research Act, HRA)

Art. 1 Purpose

- ¹ The purpose of this Act is to **protect the dignity, privacy and health of human beings** involved in research.



SPHN: Current status

- Ethical Framework for Responsible Data Processing has been finalized by the ELSIag
- Technical milestones for the infrastructure implementation projects (collaboration agreements) have been finalized. Work on legal part is ongoing
- Coordinated Call for proposals (SPHN – ETH SFA PHRT) have been announced on June 15
- International Advisory Board has been constituted
- A public event for patient organizations and citizens is planned for end of august

Swiss Personalized Health Network

The Swiss Personalized Health Network (SPHN) is a national initiative designed to promote the development of personalized medicine and personalized health in Switzerland.

SPHN will lay the foundations that are needed to facilitate research projects in this area such as a system for a nationwide exchange of health-related data.

The ultimate goal is to promote health and well-being, to prevent, diagnose and treat unfavourable health conditions more precisely, thus reducing the risk of developing such conditions and permitting more effective treatments of disease states with fewer adverse effects.

SPHN Information Event

29 June 2017, Bern. ↓ [Flyer](#) **Registration is closed.**



SPHN Information Event

29 June 2017 (14.00-18.00), University of Bern.

Registration deadline: 22 June 2017

SPHN Public Event

28 August 2017, Bern. → [More information](#)



SPHN Public Event

28 August 2017 (14.00-19.00), Bern.

Registration deadline: 21 August 2017

New SPHN website

Welcome to the new SPHN website!

Please → [inform us](#) about any gaps and mistakes, so that we can fix them as quickly as possible. We look forward to receiving your feedback.

Tweets



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