

SBP APRIL 20, 2021 **WORKSHOP**

***Connecting researchers and biobanks:
The BioLink experience.
What's "NExT"?***

Presentation of Swiss Biobanking Platform

Christine Currat, SBP Executive Director

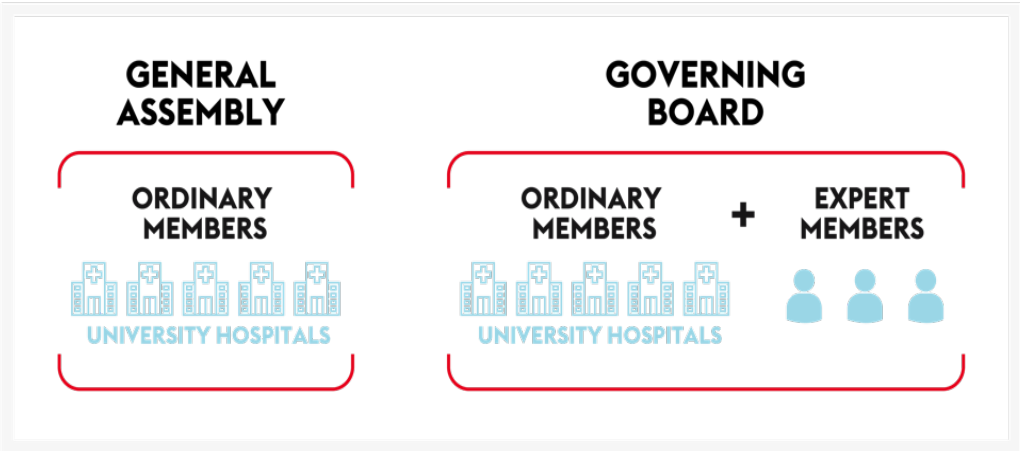


SUPPORTED BY



➤ SBP is the research infrastructure of national importance supporting biobanking activities (human and non-human domains)

Independant association
mandated and funded by SNSF



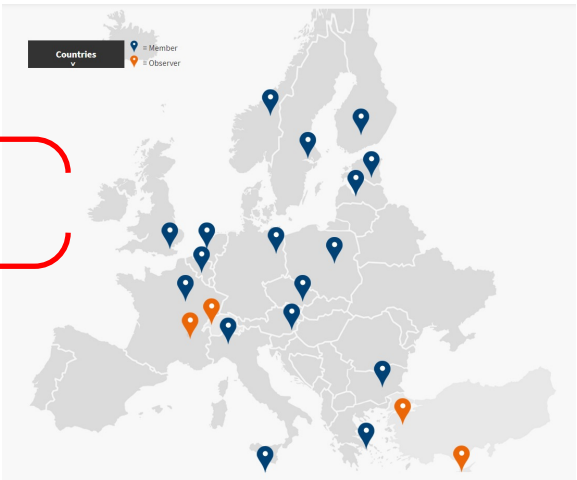
University Hospitals

Liquid
Tissue
Non-human
Experts

➤ Position CH at the forefront of research by facilitating access to and optimal usage of high quality samples

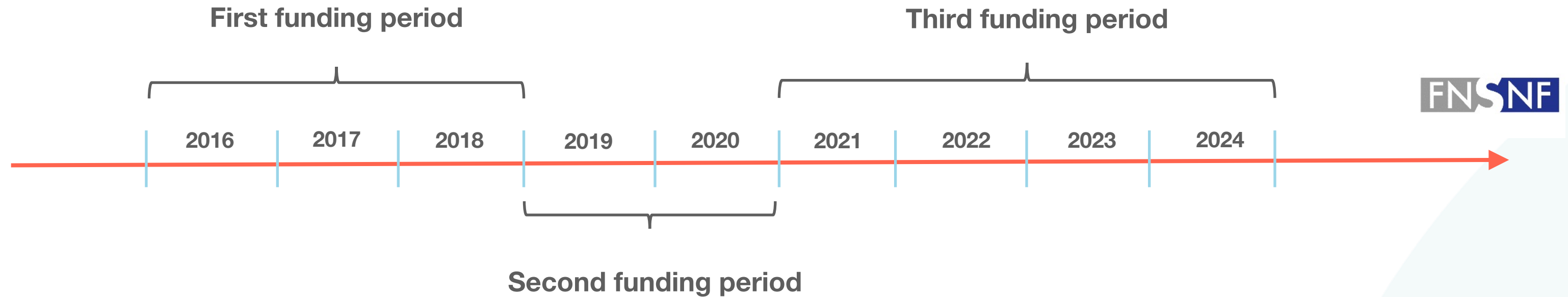
➤ Increase quality, visibility, transparency, accessibility and interoperability of biobanks

BBMRI national node



Swiss Biobanking Platform

— FUNDING AND OBJECTIVES

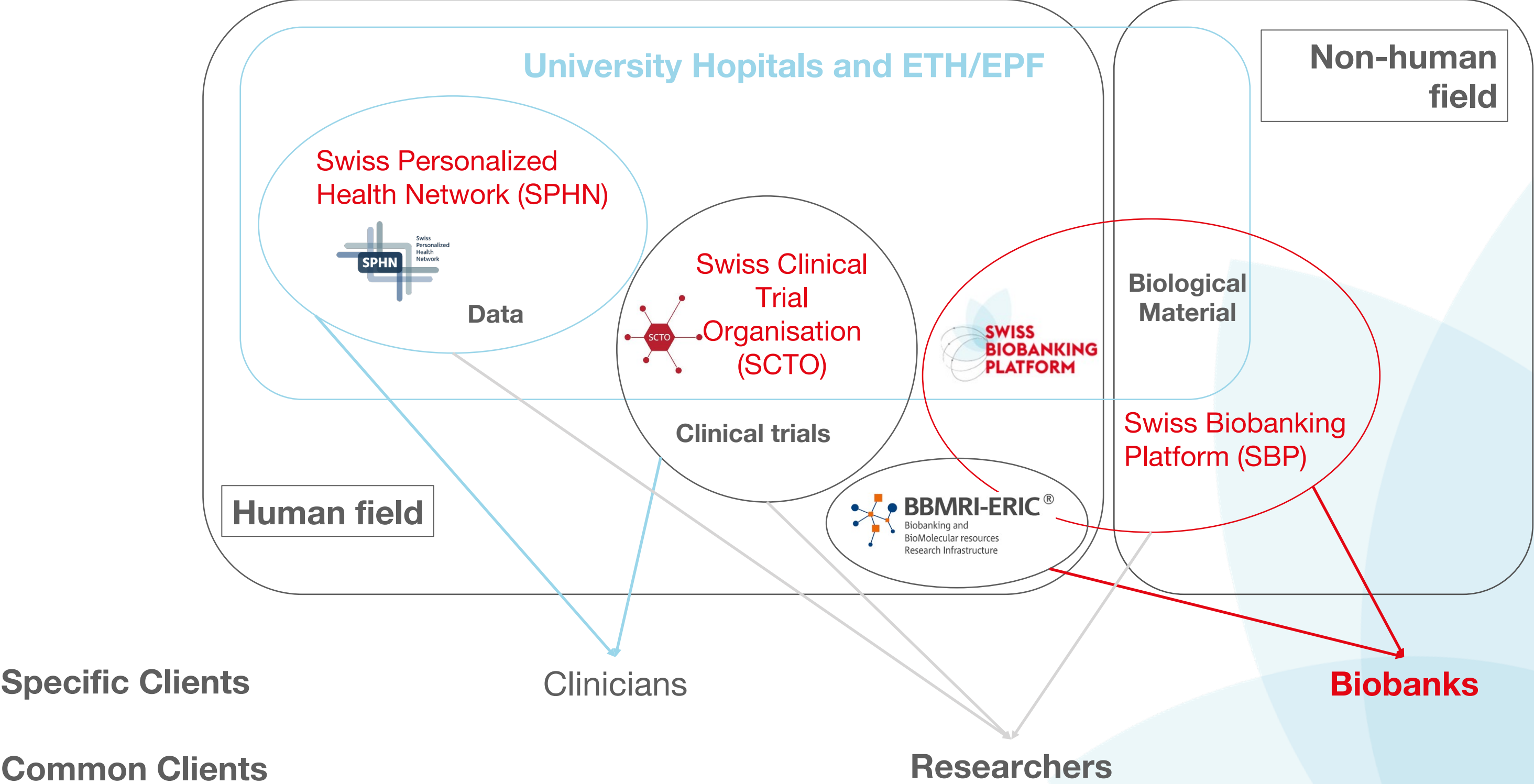


Service level agreement 2021 - 2024 : Objectives

1. SBP promotes a **quality strategy** for biobanks that serves both quality management issues and sample quality
2. SBP promotes **access and sharing** of biobanked samples for high-quality research
3. SBP supports **non-human biobanks** with specific guidelines and services
4. SBP consolidates the collaboration with the **European networks** of biobanks
5. SBP provides a concept for its **sustainable funding**

Swiss Biobanking Platform

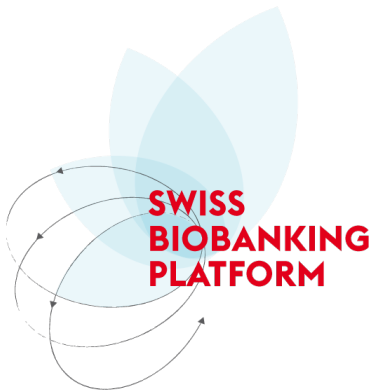
— POSITIONING IN THE NATIONAL RESEARCH LANDSCAPE



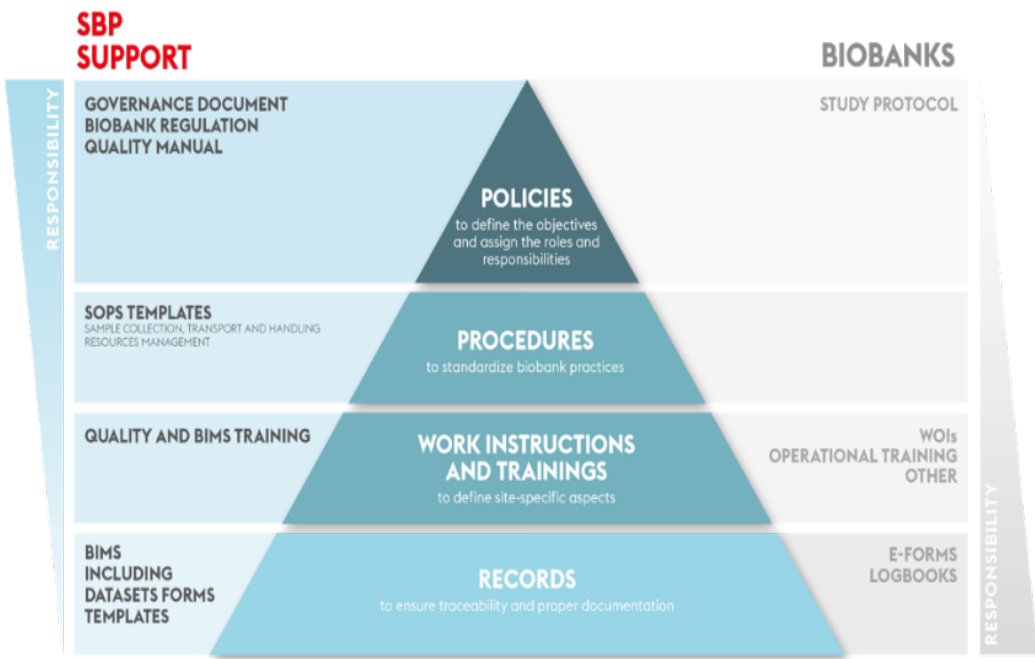
Note : Scaling of the scheme is not representative

How SBP supports researchers and biobanks ?

A combined approach with innovative processes and tools



Classical approach



SOP's, datasets,
guidelines, working
groups, ...

Publication
on website

Innovative approach

Create incentives for
biobanks to implement the
guidelines

Easy-to-use and
ergonomic tools



Swiss Biobanking Platform

— SBP CLIENTS

Biobank Infrastructures

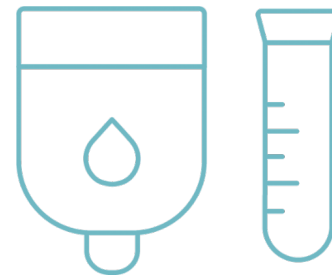
Offers services to
biobanks



- › Biobank accountability
- › Biobank labelization
- › Biobank harmonization

Biobanks

Manages samples



Researchers

Uses samples



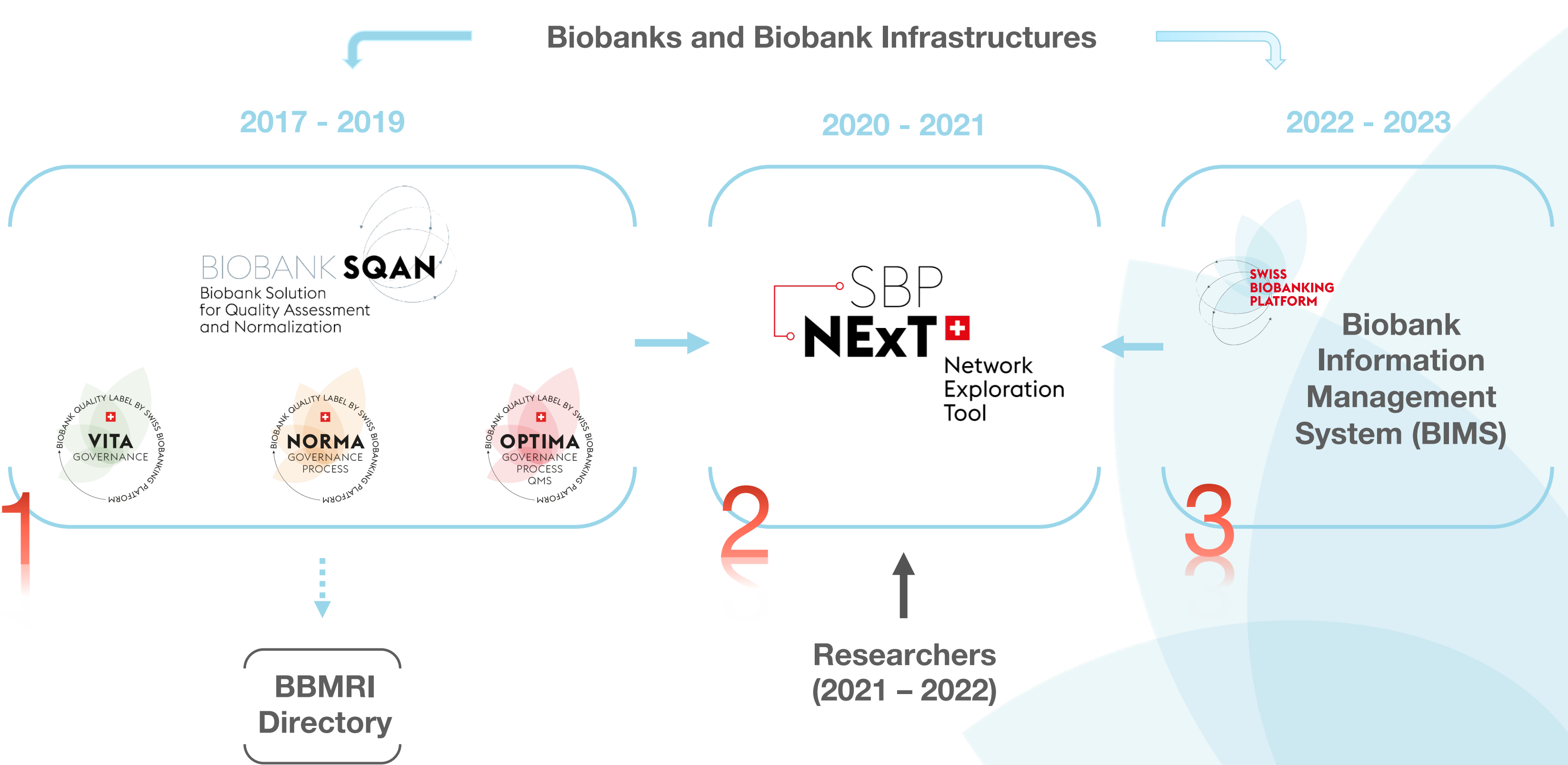
- › Trust and access in biobanks
- › Reproducibility of results
- › Sharing guidelines

Primary clients

Secondary beneficiaries

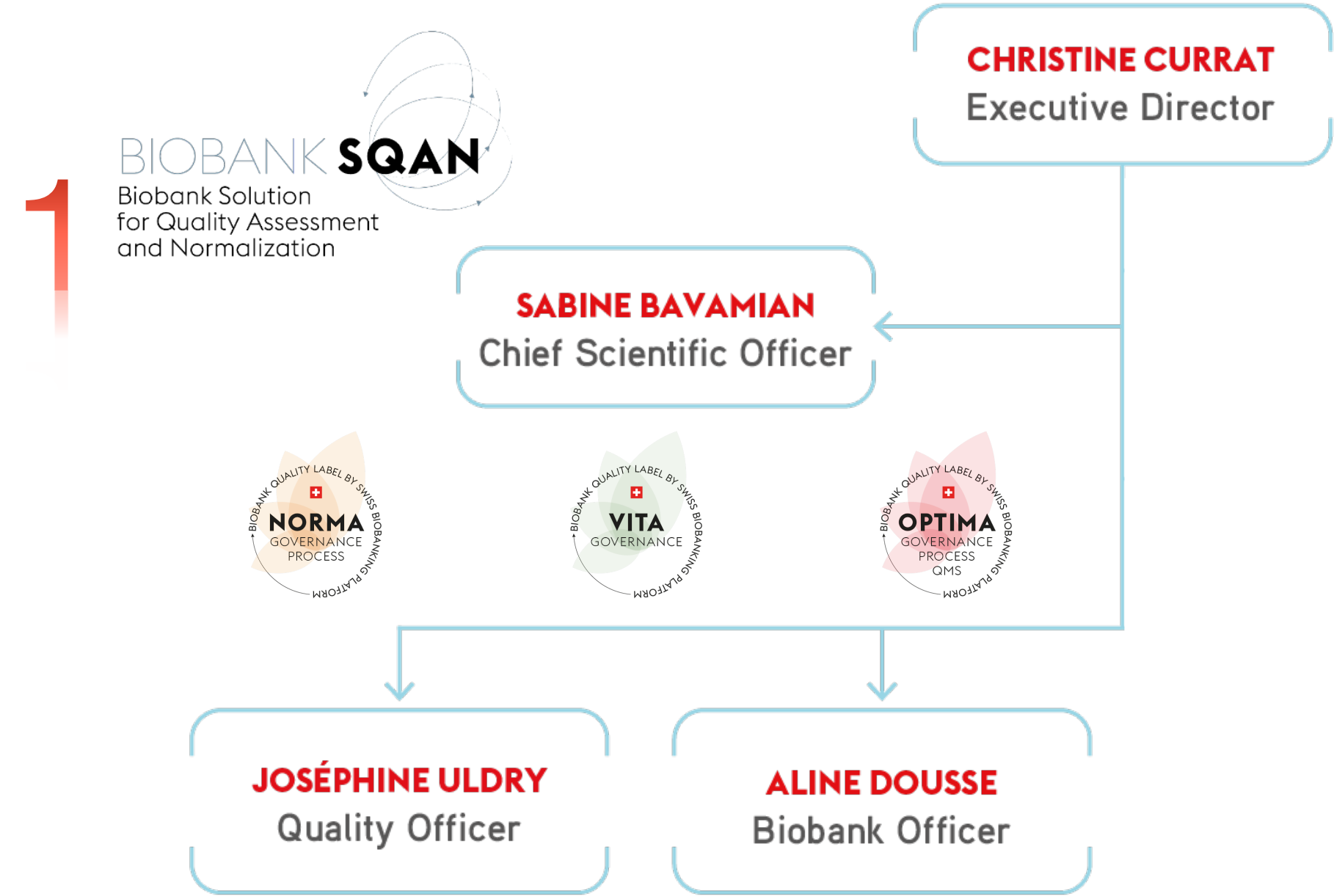
ROI is expected to show steady grows over the years with the SBP platform evolution

Swiss Biobanking Platform
— SBP TOOLS



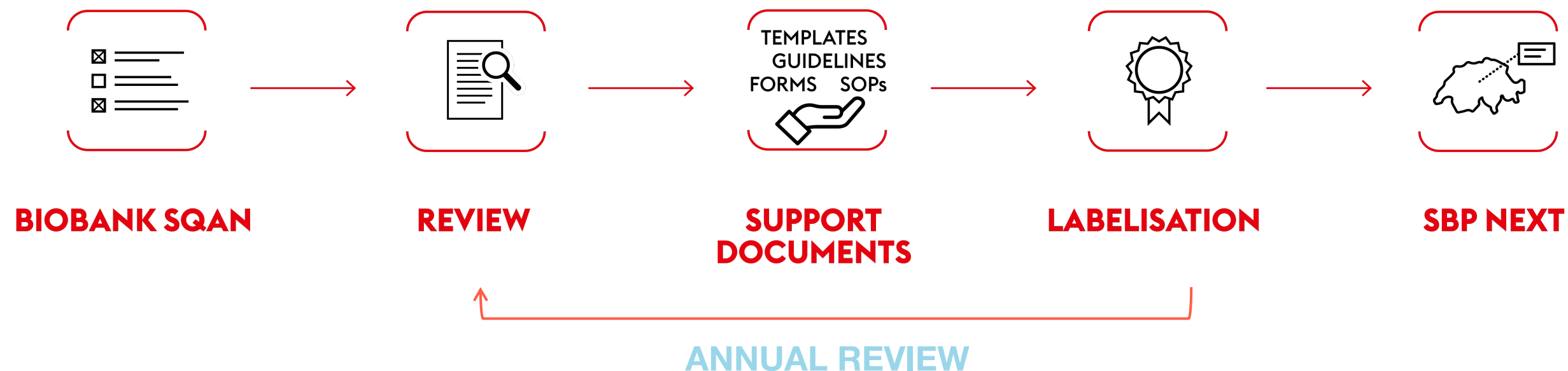
Swiss Biobanking Platform
— SBP EXECUTIVE OFFICE

A special thanks to
my collaborators



An efficient, committed and client oriented team

A step-by-step approach for biobanks to reach the minimal level of requirements



Biobank SQAN assets :

- A compliance process to evaluate and monitor your biobank
- Preparation to the new ISO norm on biobanking 20387
- Participate to biobank's education on governance and quality issues
- An innovative way to harmonise different biobanks
- Promote visibility through SBP and BBMRI directories



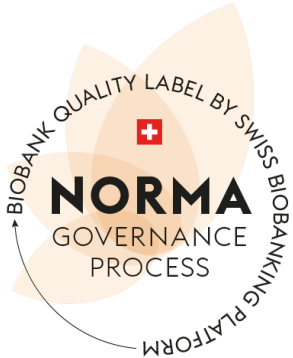
SBP labeled biobanks gain in quality, accountability and visibility

BIOBANK **SQAN**
Biobank Solution
for Quality Assessment
and Normalization

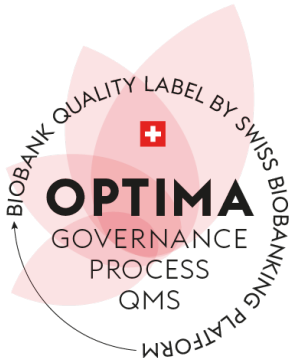
“I wish to comply with the applicable legal & ethical requirements”



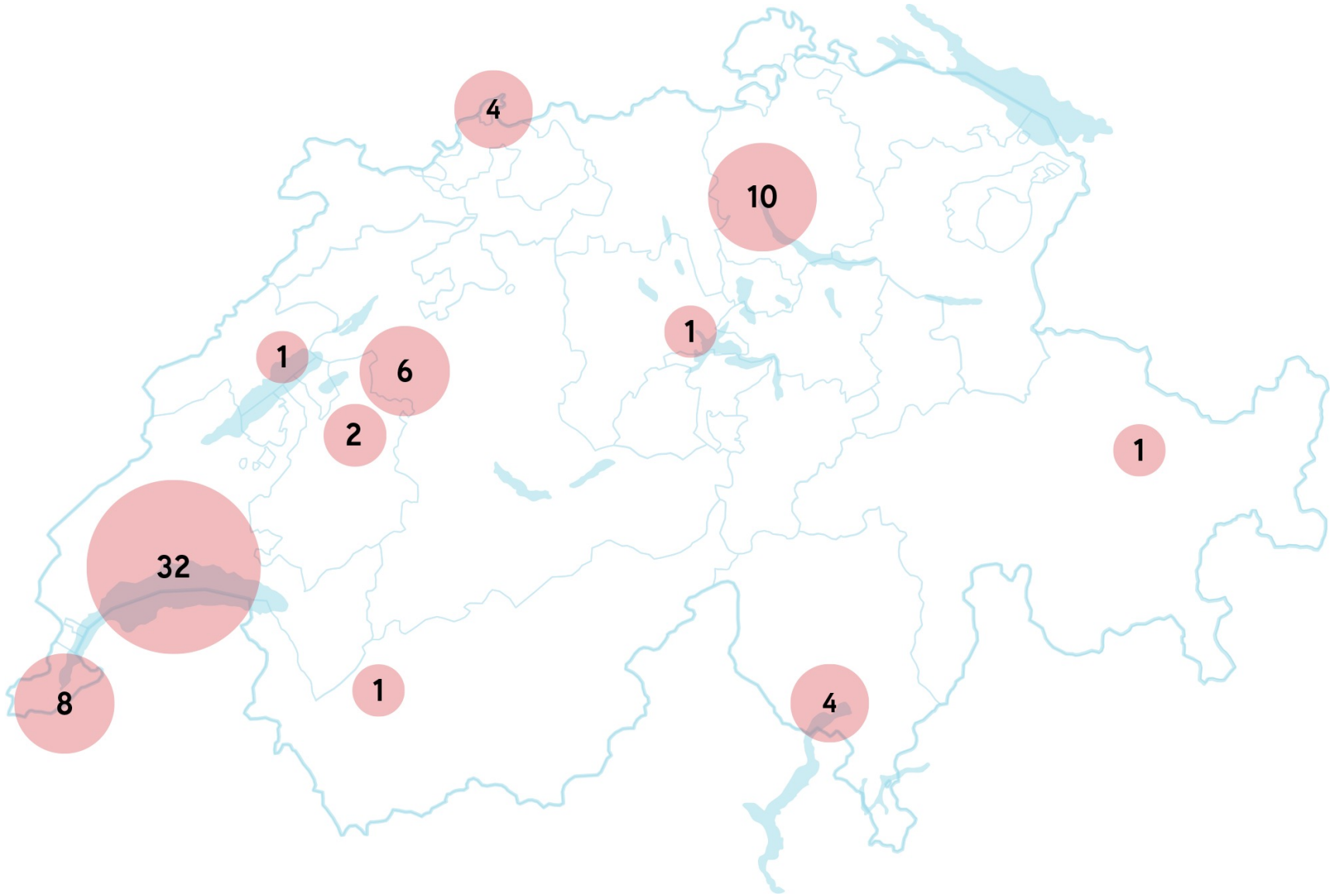
“I wish to guarantee the quality of my biobanking processes and the harmonization of my practices at the national level.”



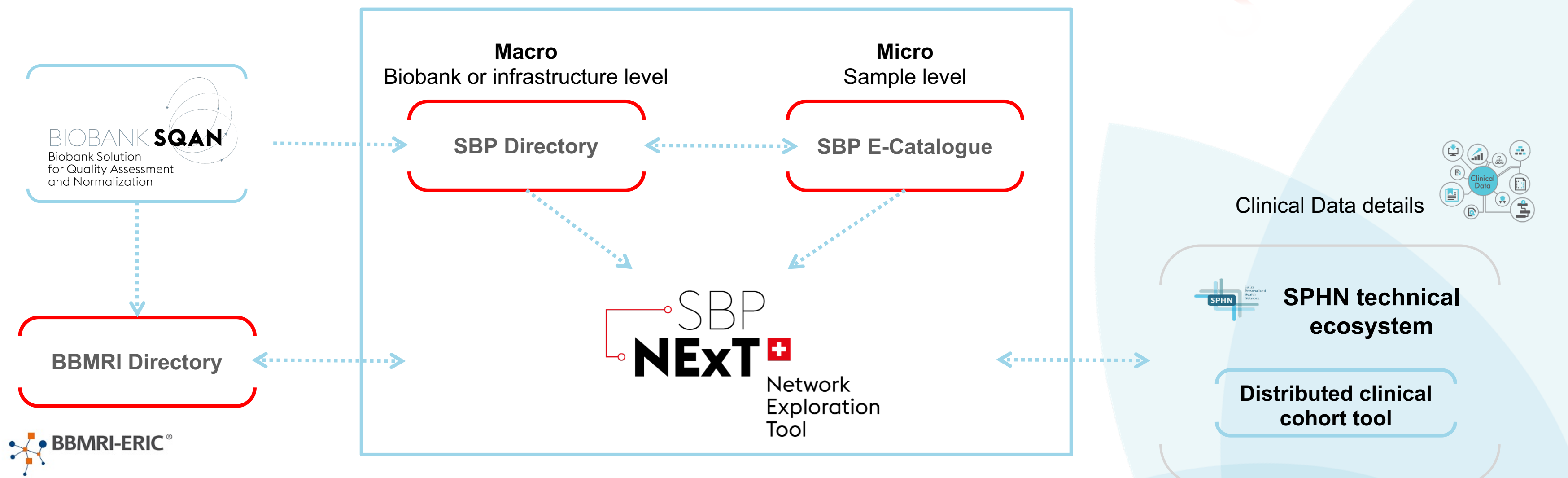
“I wish to establish a complete Quality Management System (QMS) for European projects.”



SBP NETWORK
(at least VITA biobanks are visible)



The new interactive e-catalogue dedicated to biobanks and researchers



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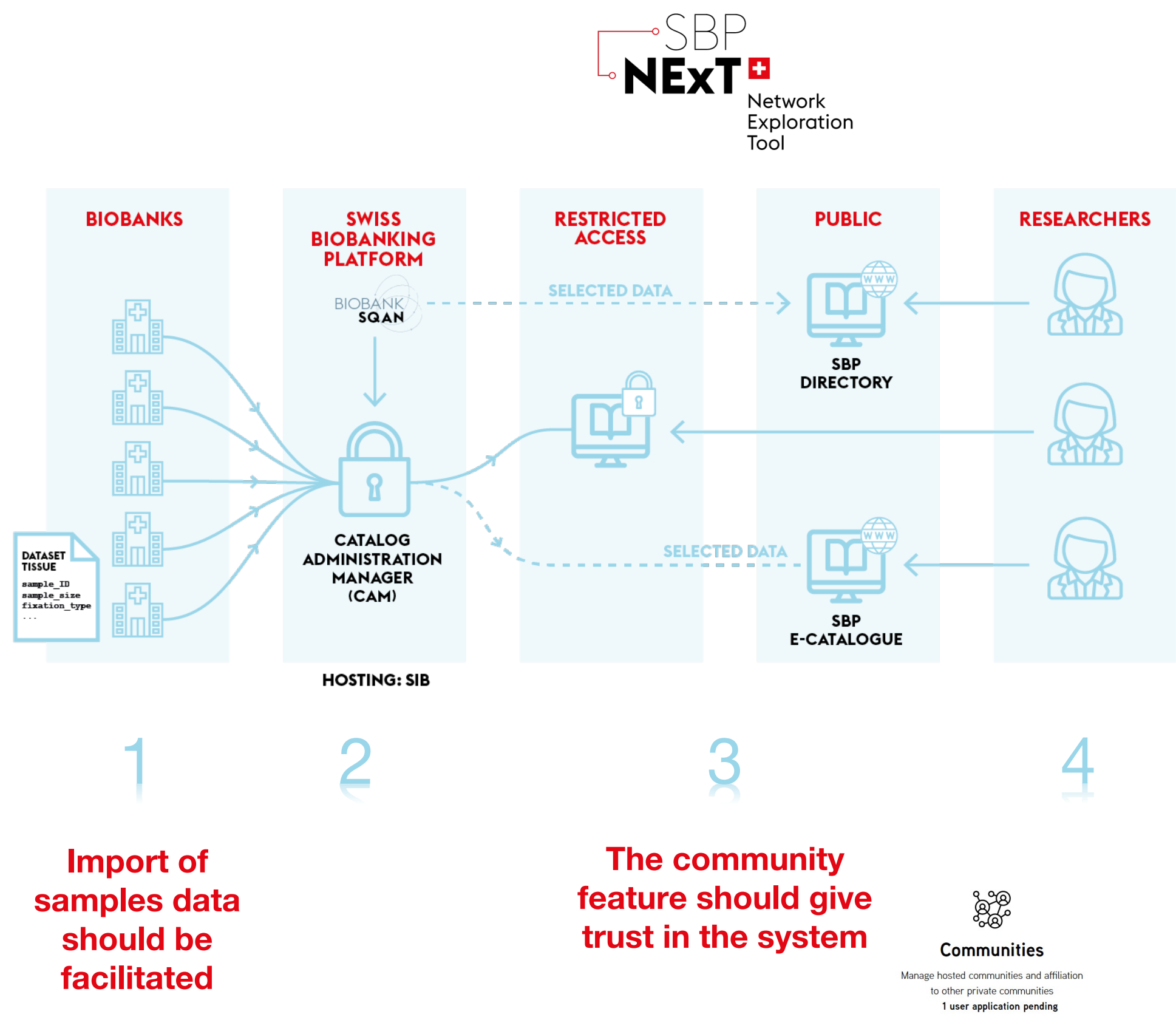
SBP
NExT+
Network
Exploration
Tool

Federated Platform
(2021 under construction)

- Interoperability**
- Create simple and efficient gateway
 - Same Subject Pseudo Identifier in both environments (mandatory)
 - Uniformization of the data pipeline processes
 - Avoid data duplications

Swiss Biobanking Platform

— SBP NExT ARCHITECTURE



Key features

- 1
 - > No tool to deploy at the hospitals or biobanks
 - > Loads on demand or automated
 - > Data quality validation before import into E-Catalogue
 - > Specific datasets aligned with SPHN
- 2
 - > Solution hosted by SIB on BioMedIT SPHN Node (leverage SPHN security)
- 3
 - > Different access rights
 - Public
 - Restricted access : communities managed by biobanks
- 4
 - > Terms of use and privacy notice for biobanks and researchers (GDPR aligned)

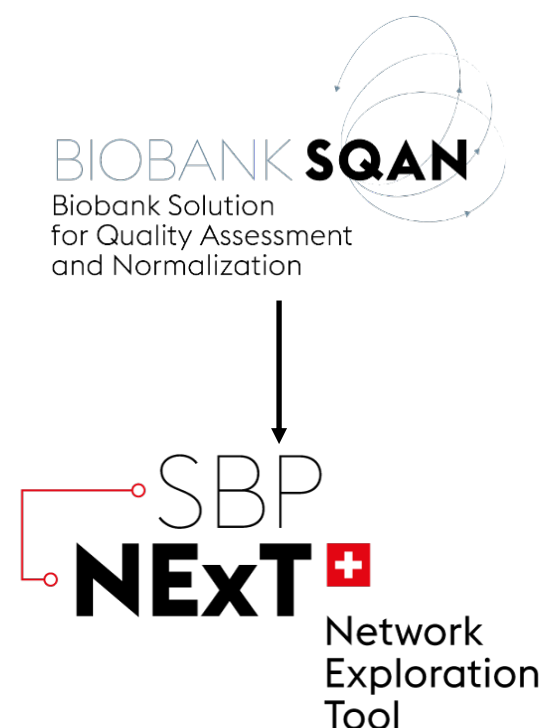
Biobanks and Biobank Infrastructures

THE MONITORING PLATFORM TO MAKE YOUR SAMPLES VISIBLE FOR THE RESEARCH COMMUNITY IS READY

**It has already been tested
and improved for you !**

Thanks to the pilot biobanks

- Vetsuisse biobank
- Bern and Zürich Pathology biobanks - Patholink
- Liquid biobank Bern (biobank infrastructure)
- Swiss Transplant Cohort Study



Register your biobank in the Biobank SQAN, obtain at least the VITA label and your biobank data will be visible in the SBP NEXt.

Then,

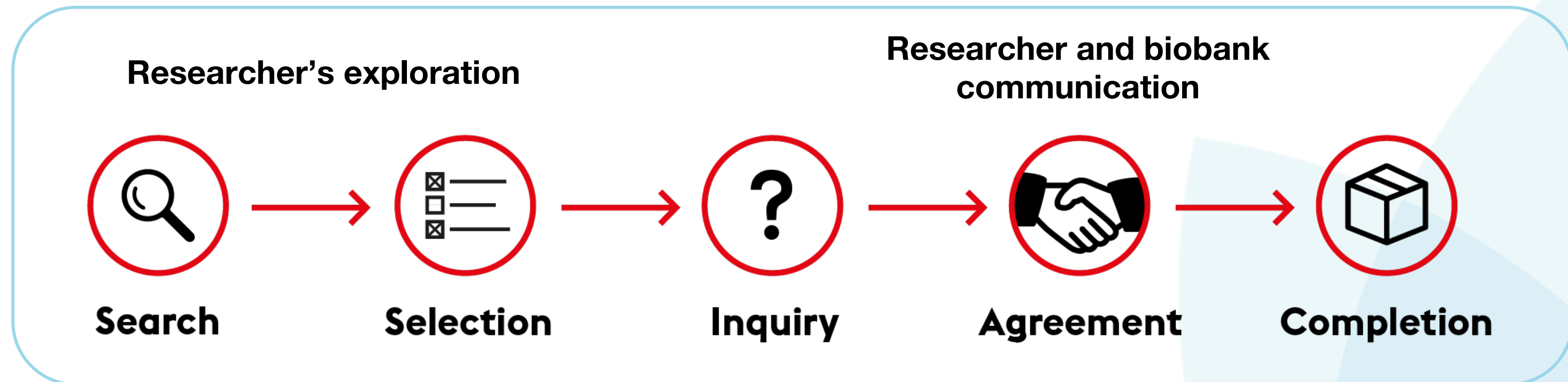
- **IMPORT** your samples data from excel sheets, with a SBP-script or from your BIMS
- Choose your samples to be visible publicly or within a selected **COMMUNITY**

If you are interested, contact us

info@swissbiobanking.ch

Researchers

WE ARE BUILDING AN INNOVATIVE PLATFORM FOR YOU



The «NExT» process :
the foundation of a future «one stop shop»

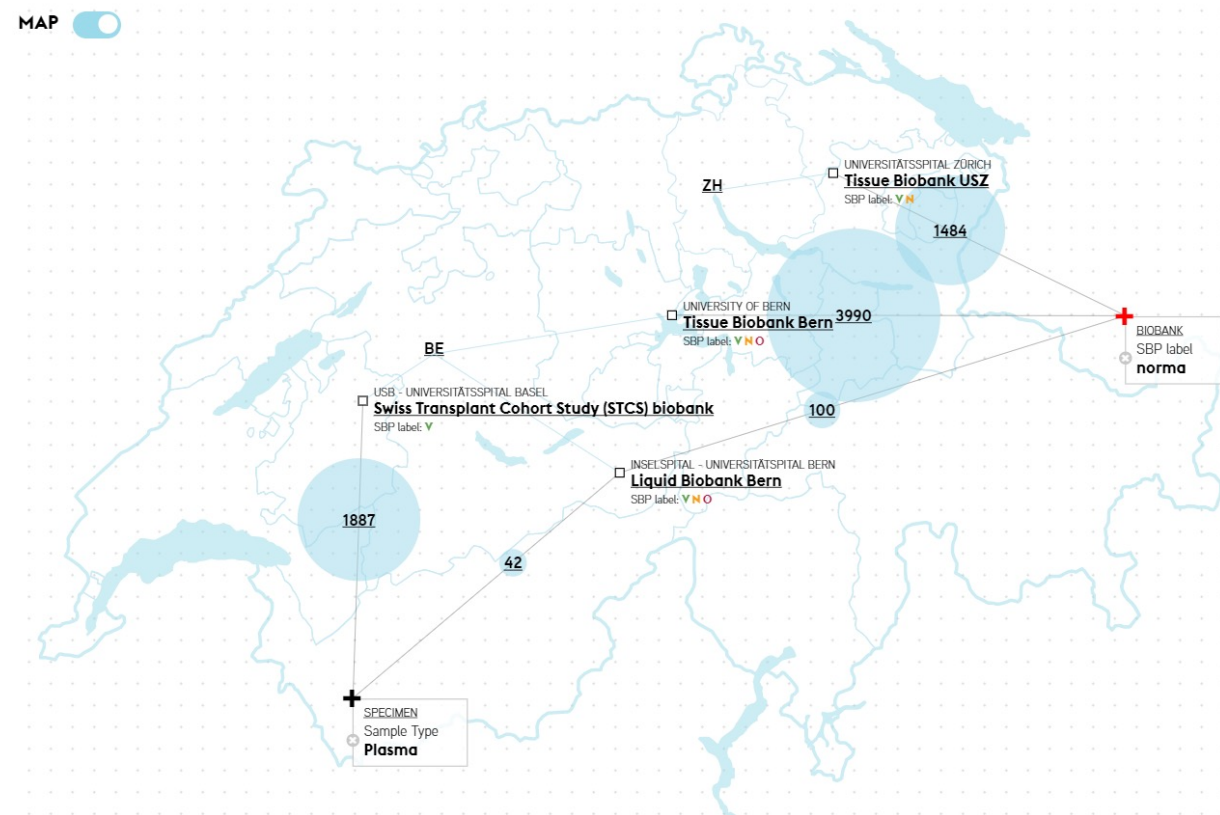


The biobank is always the only to decide if the samples are shared with the researcher

Swiss Biobanking Platform

SBP NExT is an intuitive and visual tool to discover Swiss biobank network through a simple drag-and-drop interface.

Ready to discover the NExT ?

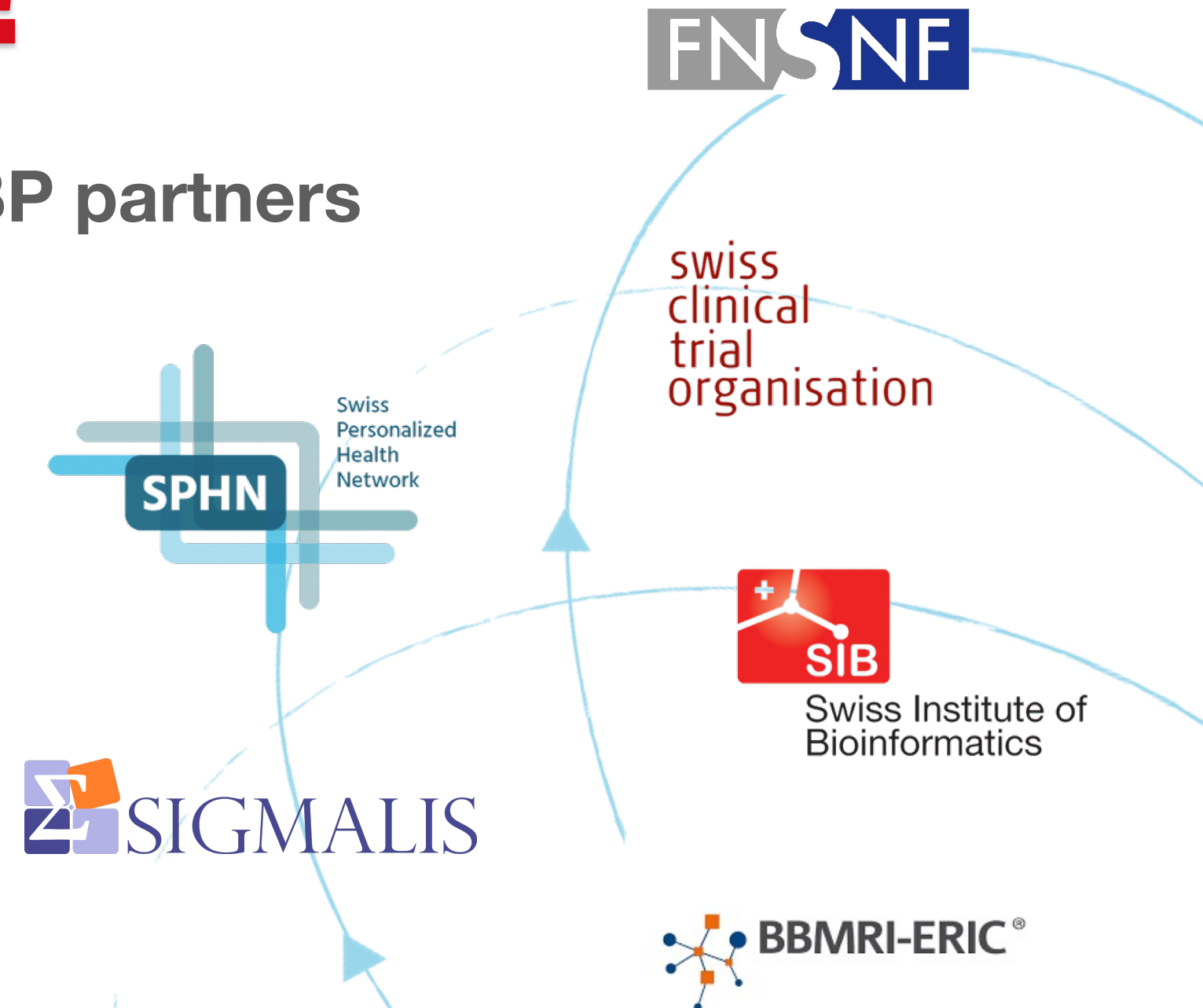


**A team work presented
by Dr Khalil Klouche, innovation officer at SBP**

Thank you!

- My team
- Members of SBP Governing Board
- SNSF privileged partners
- Biobanks part of the SBP network
- The pilot biobanks for the NExT
- Chairs of the workshop sessions

- SBP partners



E-mail: christine.currat@swissbiobanking.ch

Web: <http://swissbiobanking.ch/>