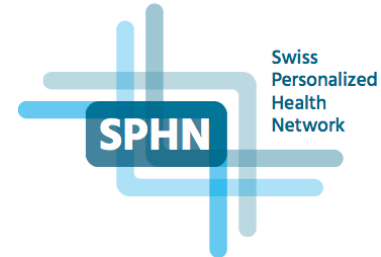


Tuesday, 29<sup>th</sup> January 2019, Basel

Strategic Focus Area  
**Personalized Health  
and Related Technologies**



# SPHN/PHRT driver project: Personalized Swiss Sepsis Study

Adrian Egli, PI SPHN

**SPHN/PHRT Driver Team:**



# SPHN/PHRT Network for Personalized Swiss Sepsis Study

20 mi



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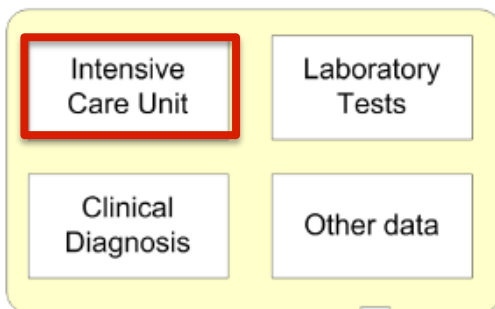
SPHN/PHRT  
collaborative network



University Hospital Domain  
Basel, Zürich, Lausanne, Geneva, Bern



BIMS



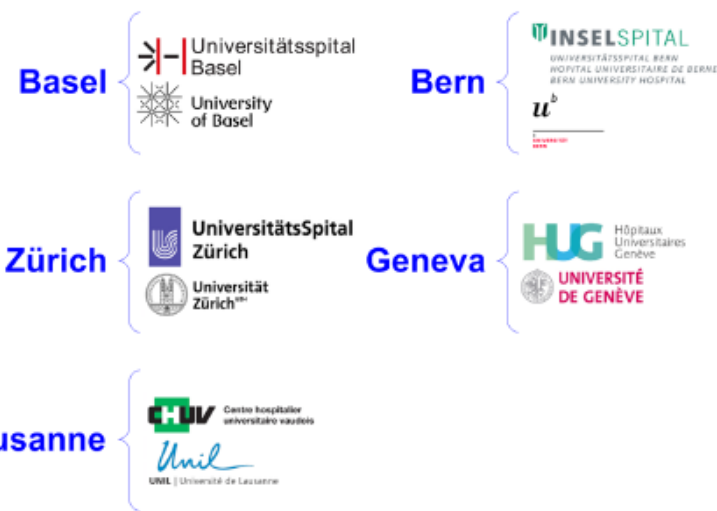
Data Integration Layer  
(at each center)



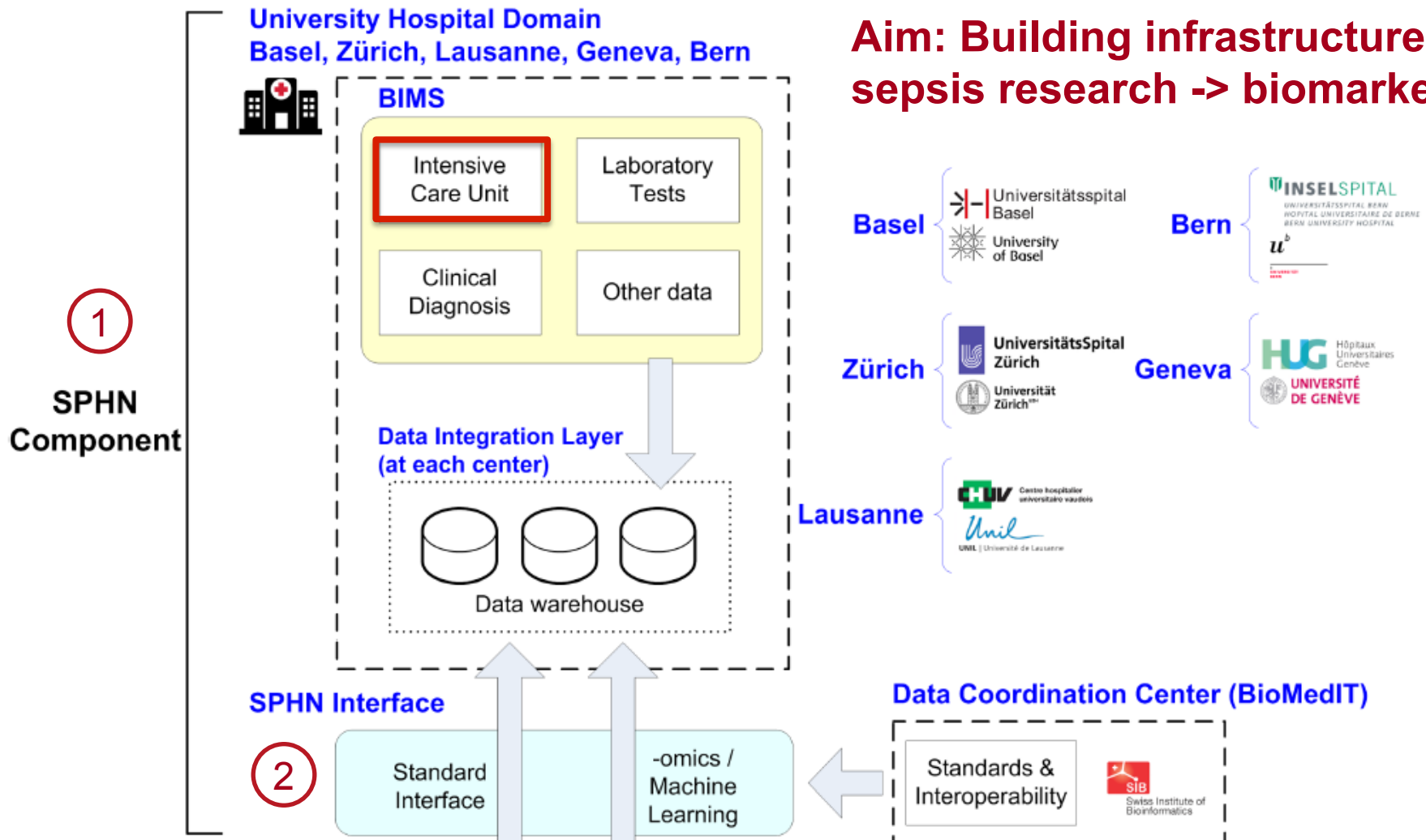
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SPHN  
Component

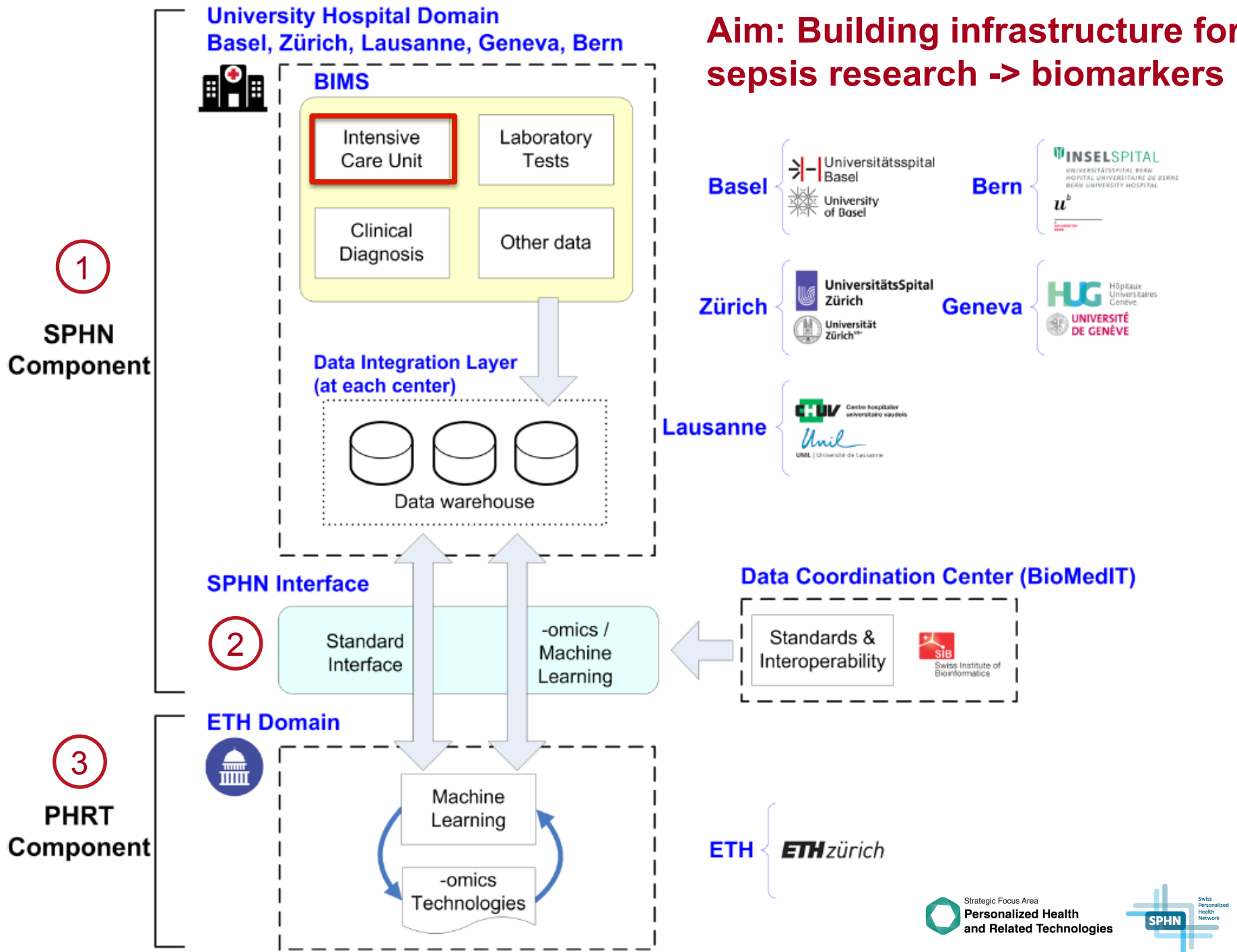
**Aim: Building infrastructure for  
sepsis research -> biomarkers**



# Aim: Building infrastructure for sepsis research -> biomarkers



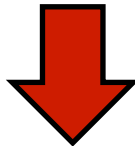
# Aim: Building infrastructure for sepsis research -> biomarkers



# How we will establish this network

- **Two studies**

- - digital biomarkers: sepsis (>10'000 patients)
- - omics biomarkers: severe CAP (n=400)



- Allow to practice/establish:

- Governance and collaboration structure
- - digital: Data collection, transfer and analysis
- -omics: Logistics of patient recruitment, sample collection, registration, storage and shipment, transfer of -omics data within the network

# Challenges

- **Scientific coordination**
  - Project would benefit from a full time coordinator
- **Governance**
  - Who can sign what legal document e.g. DTA?
  - Expectations e.g. publications
- **IT/Dataware house**
  - Specific expertise e.g. Snomed CT
- **Semantic**
  - More coordination

# What we have achieved so far...

## ■ Governance

- Executive and scientific board
- Publication guidelines
- Collaboration agreement
- Data Transfer agreement

## ■ Studies

- Agreed on content -> ethical proposal in prepare

## ■ CLINICAL Data Warehouse

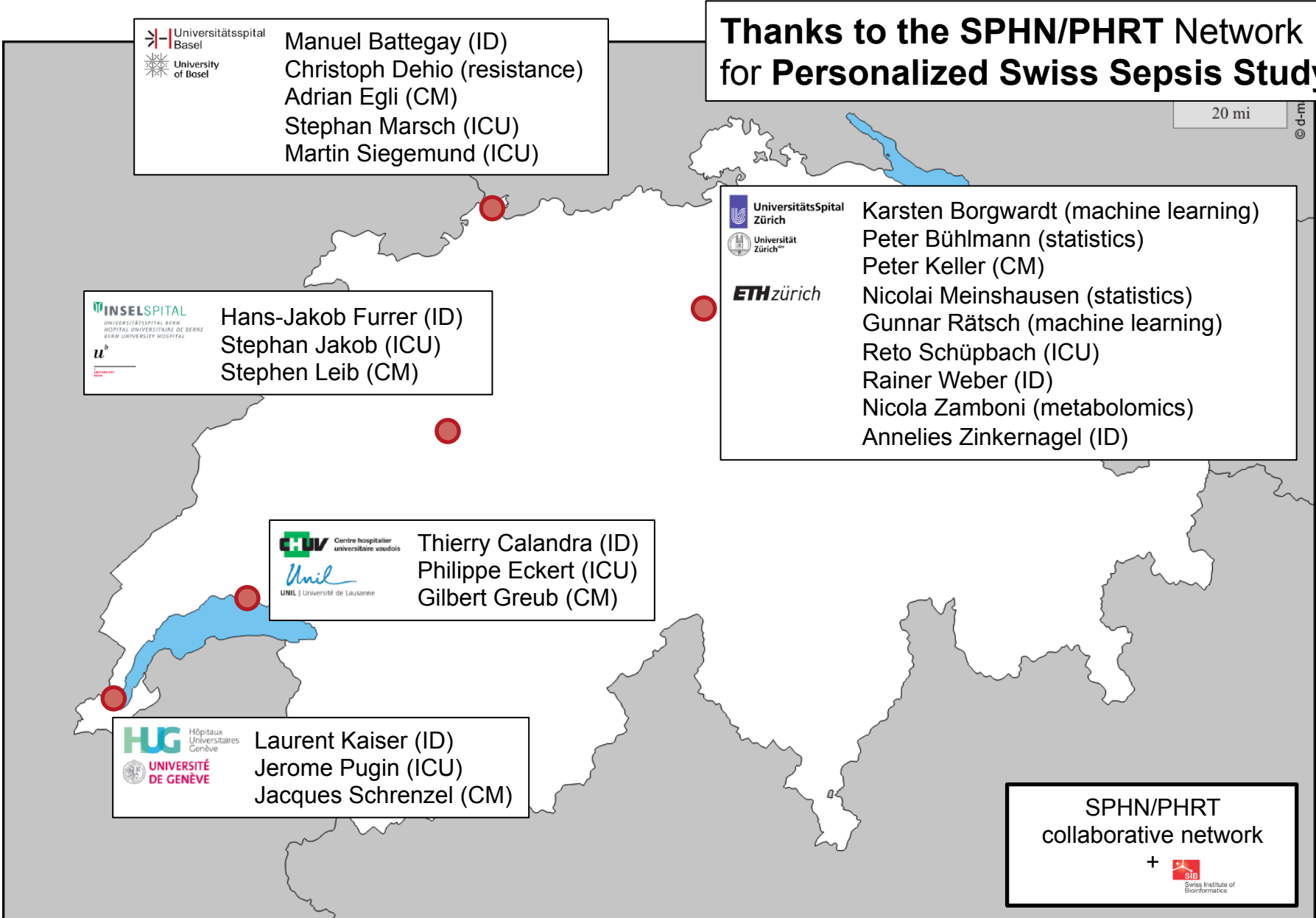
- Variables for collection identified, >500 items
- Transfer: ICU -> CDWH -> BioMedIT -> Leonhard Med



# Next steps

- Check and sign all legal documents: collaboration agreement and DTA
- Submission of ethical proposal to EKNZ (lead ethics)
- Studies:
  - Start collection, transfer and analysis of data (digital biomarkers)
  - Start recruitment of patients (-omics biomarkers)  
→ Delay in recruitment due to regulatory aspects

# Thanks to the SPHN/PHRT Network for Personalized Swiss Sepsis Study



# Questions? Ideas?

- **Contact:**

**Any team member of the Personalized Swiss Sepsis Study**

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