



STOP DATA SHARING

PERCEPTION:

'Data moves around and outside my control'

But that is not the only reason....



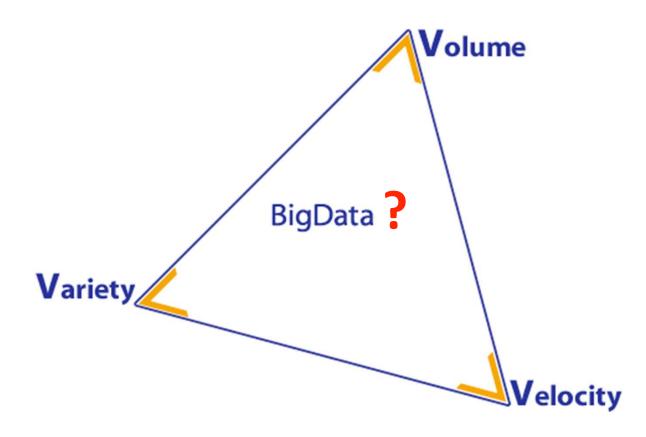
STOP DATA SHARING

Why?

1. Volume and associated issues



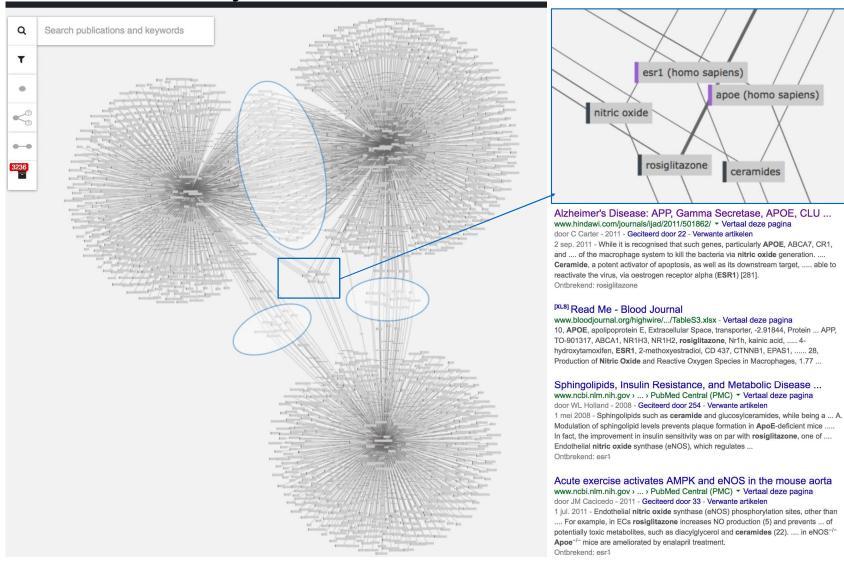
The Explicitome (LS)



10¹⁴ assertions

of the type S-P-O

Just an example: Evaluate conceptual links between diseases Here: Metabolic Syndrome, Diabetes Mellitus II and E-O Alzheimer





- One GB data transfer = 10 cents
- One TB data transfer = 100 Euros
- One PB data transfer = 100,000 Euros?
- DNA sequence data is doubling every 6-8 months over the last 3 years and looks to continue for this decade



STOP DATA SHARING

Why?

2. Sensitivity



Privacy?



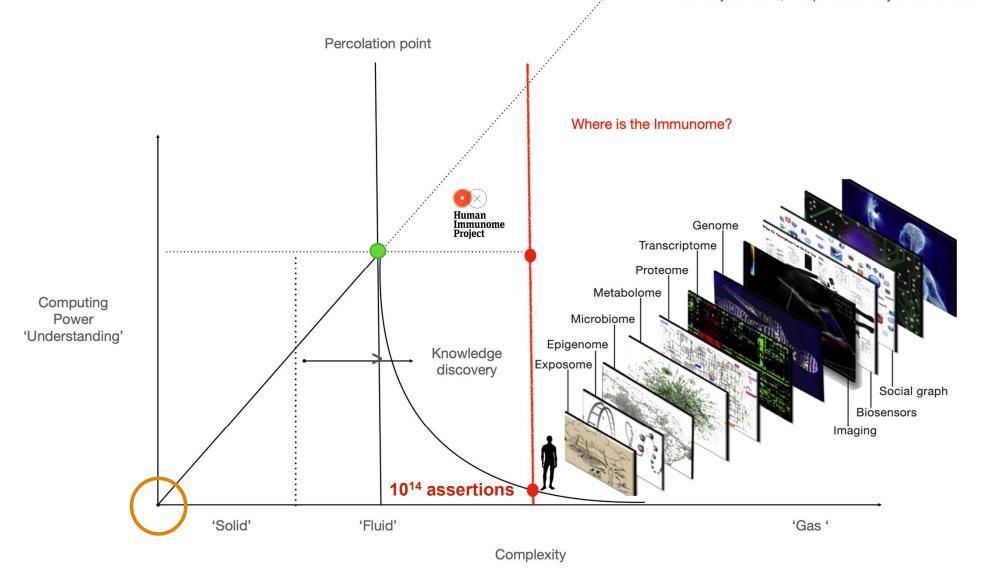


STOP DATA SHARING

Why?

3. Complexity

Chaos is just order, but perceived by a lesser mind





The end of data sharing



The Dawn of **Data Visiting**

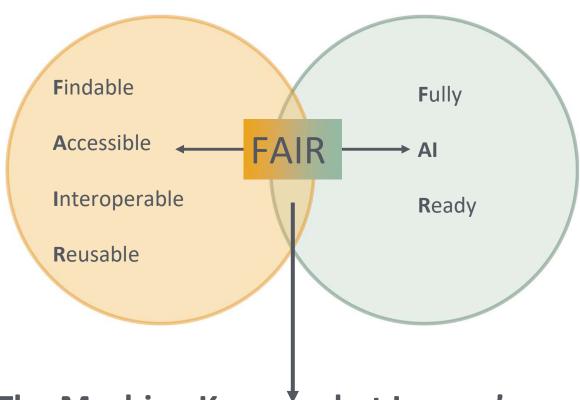




Can SPHN move to data Visiting?

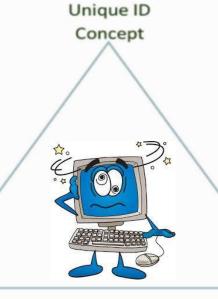


A 'conditio sine qua non'



'The Machine Knows what I mean'

The Ogden Triangle – Concepts versus words



The relations between the corners:

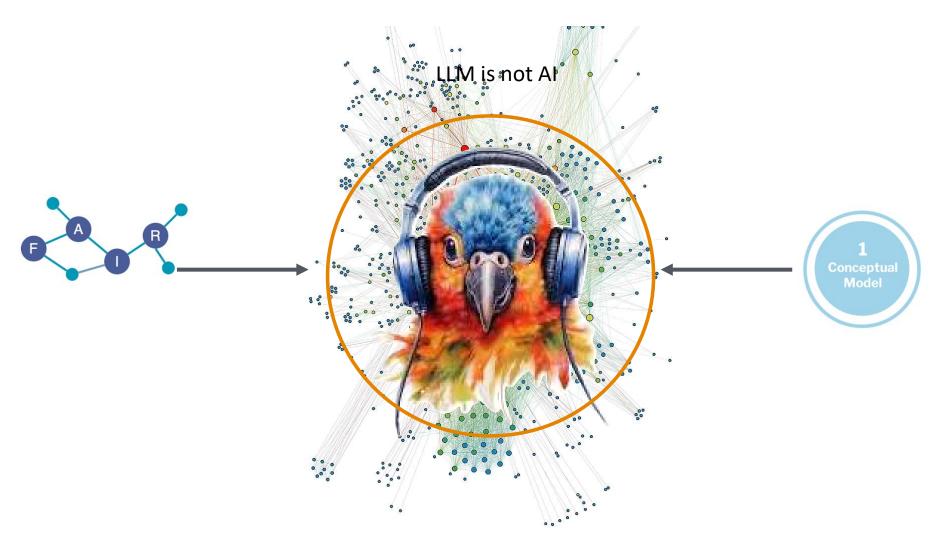
- Object evokes Concept (in writer's or speaker's mind)
- Writer/speaker uses Token to refer to Object
- Token evokes Concept (in reader's or listener's mind)
- 4. Reader/listener refers Token back to Object

Http://GOFAIR/UUID.??

Token or word or icon:

"cancer"
Malignant Neoplasms
Krebskrankheit
C0-265
Etc.

object, entity, defined meaning



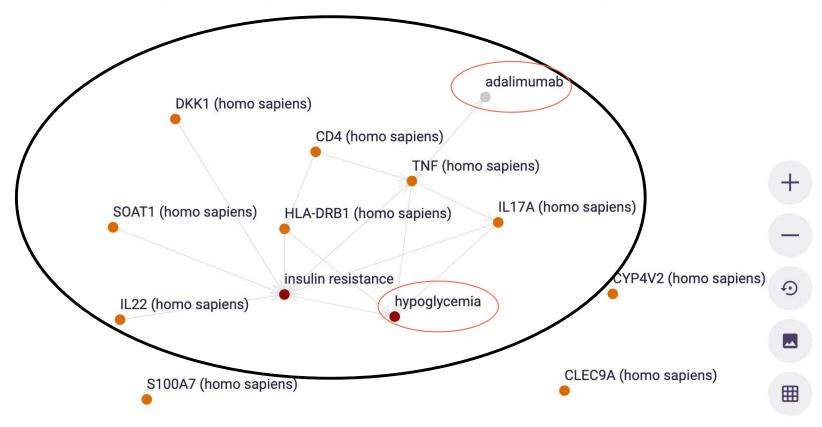
It's all hallucination, but we only **call it that when we notice it's wrong**. The problem is, large language models are so good at what they do that what they make up looks right most of the time. And that makes trusting them hard.

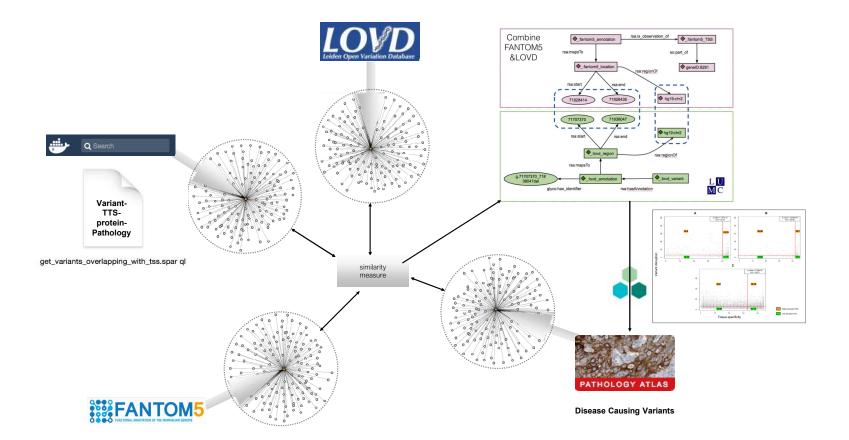
A few more examples: Drug repurposing (16.000 proteins > targets for disease?

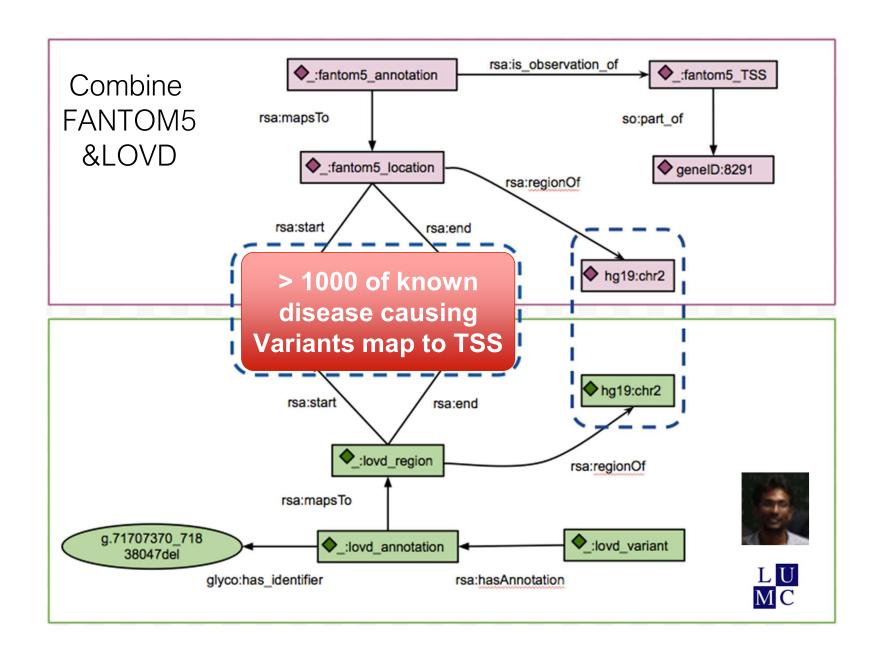


alamab-hypo 🖍

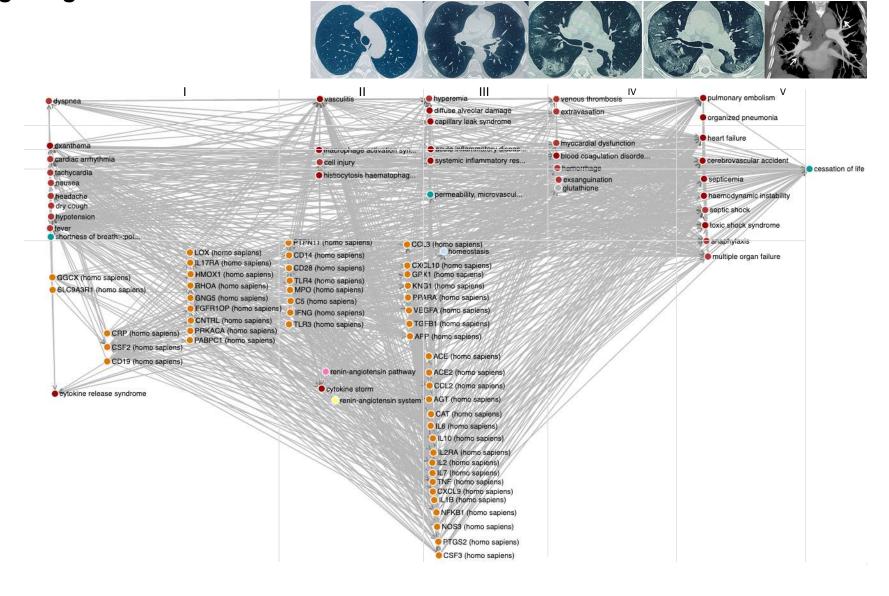
6 of the genes co-ocurring in sentences in literature with adalimumab and hypoglycaemia are annotated with insulin resistance



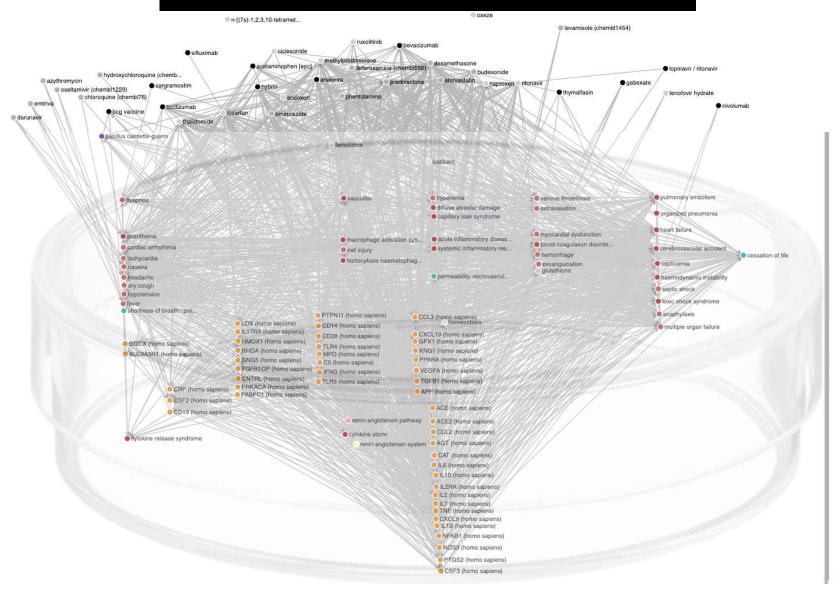




Existing Drugs for COVID?



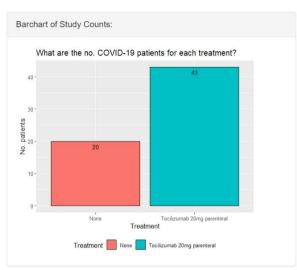
Machine-Assisted Science

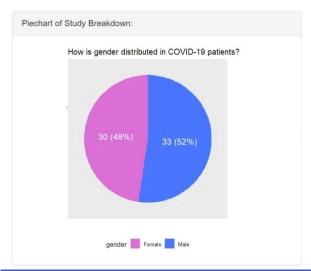


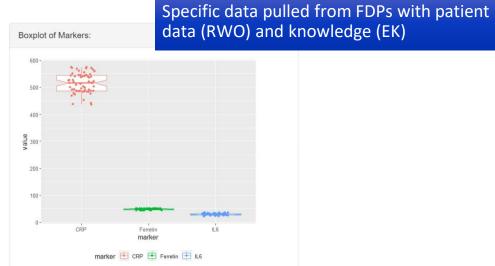


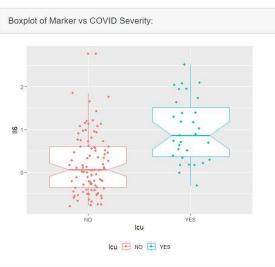


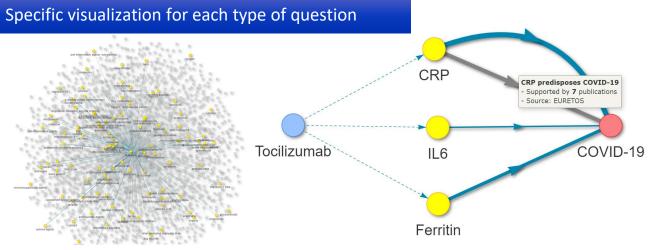
O.

















← Home

Personal Health Train – Distributed Learning Community

People and organizations interested in applying the Personal Health Train concept or distributed learning techniques to health-related topics are working together in the Personal Health Train network. The PHT concept enables health care innovators and researchers to work with health data from various sources.

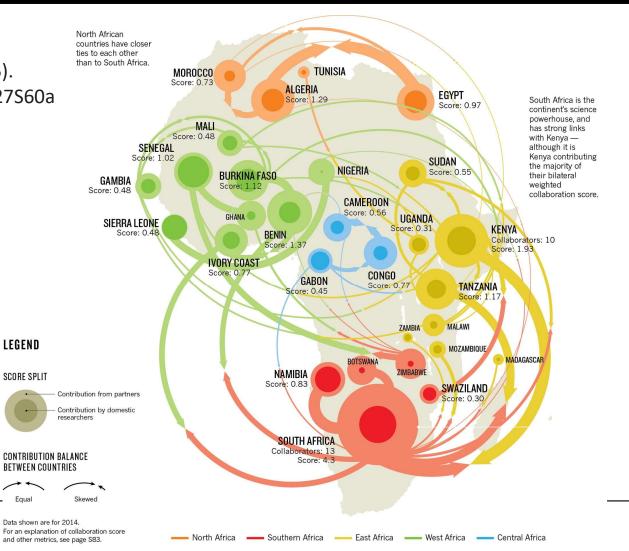
DEVELOPING PARTNERSHIPS THAT MATTER

Nature **527**, S60–S63 (2015). https://doi.org/10.1038/527S60a

LEGEND

SCORE SPLIT

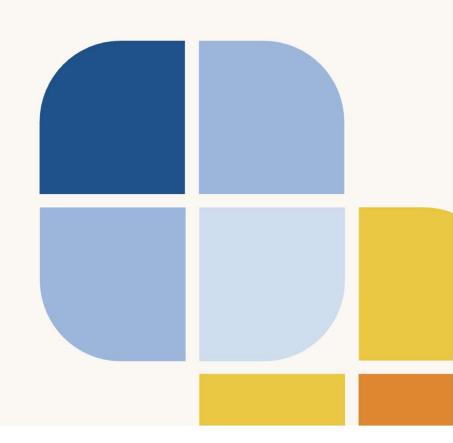
Equal





FAIR, equitable and sustainable data reuse

LIFES is a global association that unites public and private data owners, users, ASPs and communities to jointly evolve the ecosystem for FAIR, equitable and sustainable data reuse for science & innovation



Vision, Mission & Strategy

Vision

Global, FAIR and Equitable Science and Innovation as the new normal.

Mission

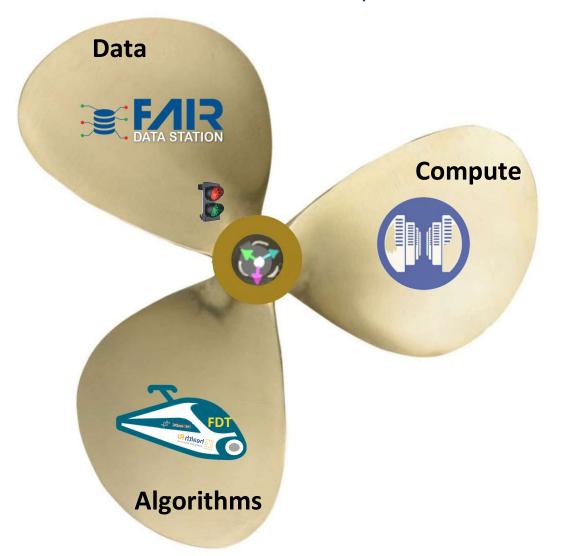
Facilitate **FAIR based**, **privacy preserving**, and **distributed** data **generation** as well as **equitable reuse**.

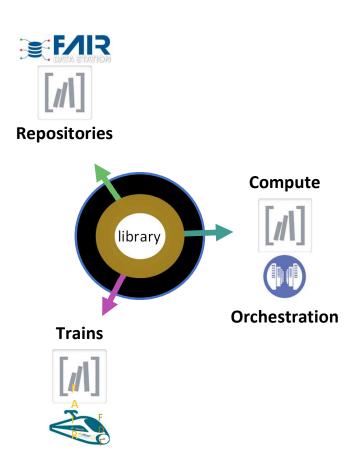
Strategy

Create and facilitate the Leiden Institute for FAIR and Equitable Science (LIFES) as a public-private partnership where FAIR data and services are the norm. LIFES will help develop and maintain the required expertise, capabilities and ecosystem for the equitable and privacy preserving reuse of data and services.

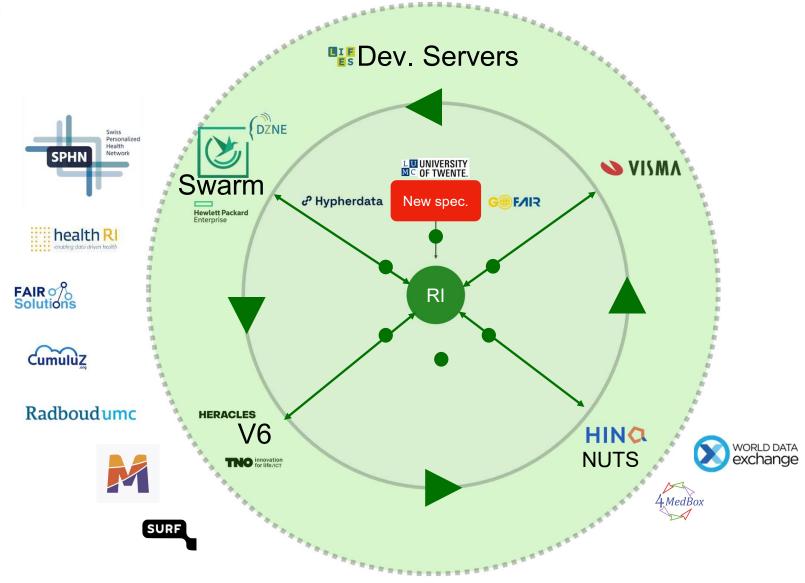


A Semantic FAIR library of instructions connects them all

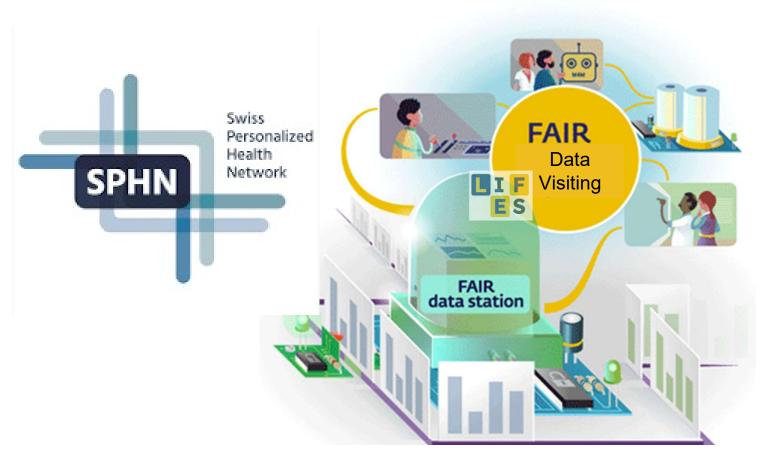












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