

Virus Outbreak Data Network (VODAN)

FAIR Data Points as a service for data-driven research
(COVID-19 pressure-cooker use case)

[Home](#) › [Implementation Networks](#) › [Current Implementation Networks](#) › Virus Outbreak Data Network (VODAN)

The VODAN Implementation Network is one of the joint activities carried out by **CODATA**, **RDA**, **WDS**, and **GO FAIR** ([Link to the Data Together Statement](#)).

Read the full statement on [Data Together COVID-19 Appeal and Actions](#).

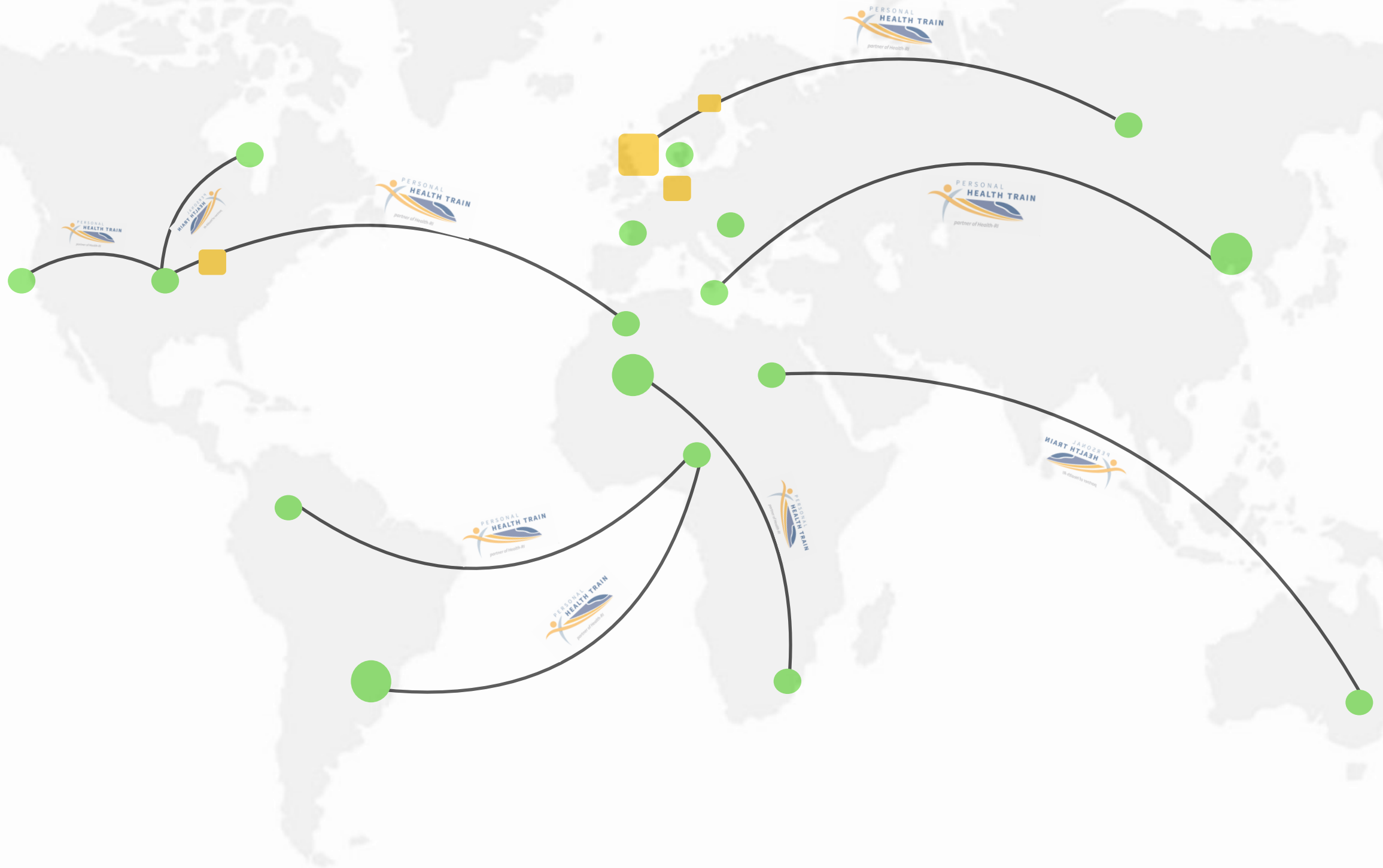
Active GO FAIR Implementation Network

The spread of the virus causing the COVID-19 outbreak is far from over. During this epidemic and in earlier occasions, we have seen severely suboptimal data management and data reuse. Moreover, access to the immensely valuable data of past and current epidemics is not always equally accessible for different affected populations and countries. For instance, the data from the past Ebola epidemics are very difficult to find, to access, and if accessible, they are not interoperable, *let alone reusable*. Under the urgent need to harness machine-learning and future AI approaches to discover meaningful patterns in epidemic outbreaks, we need to do better and ensure that data are FAIR (in this sense also meaning **F**ederated, **A**I-Ready).



The VODAN-IN approach: distributed analytics over FAIR data

<https://vimeo.com/143246458>



FAIR reference (EK) data stations



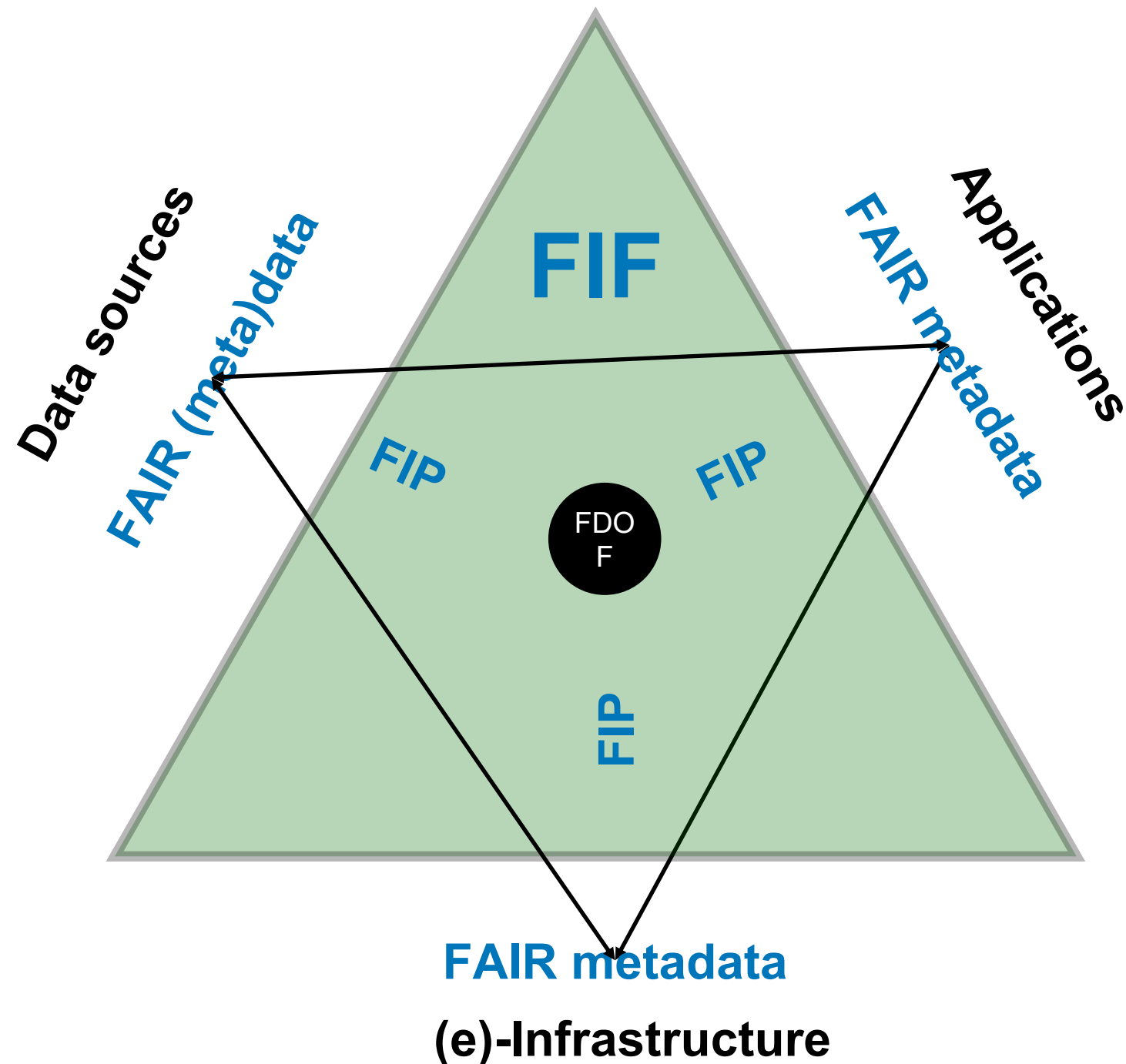
FAIR RWO data stations

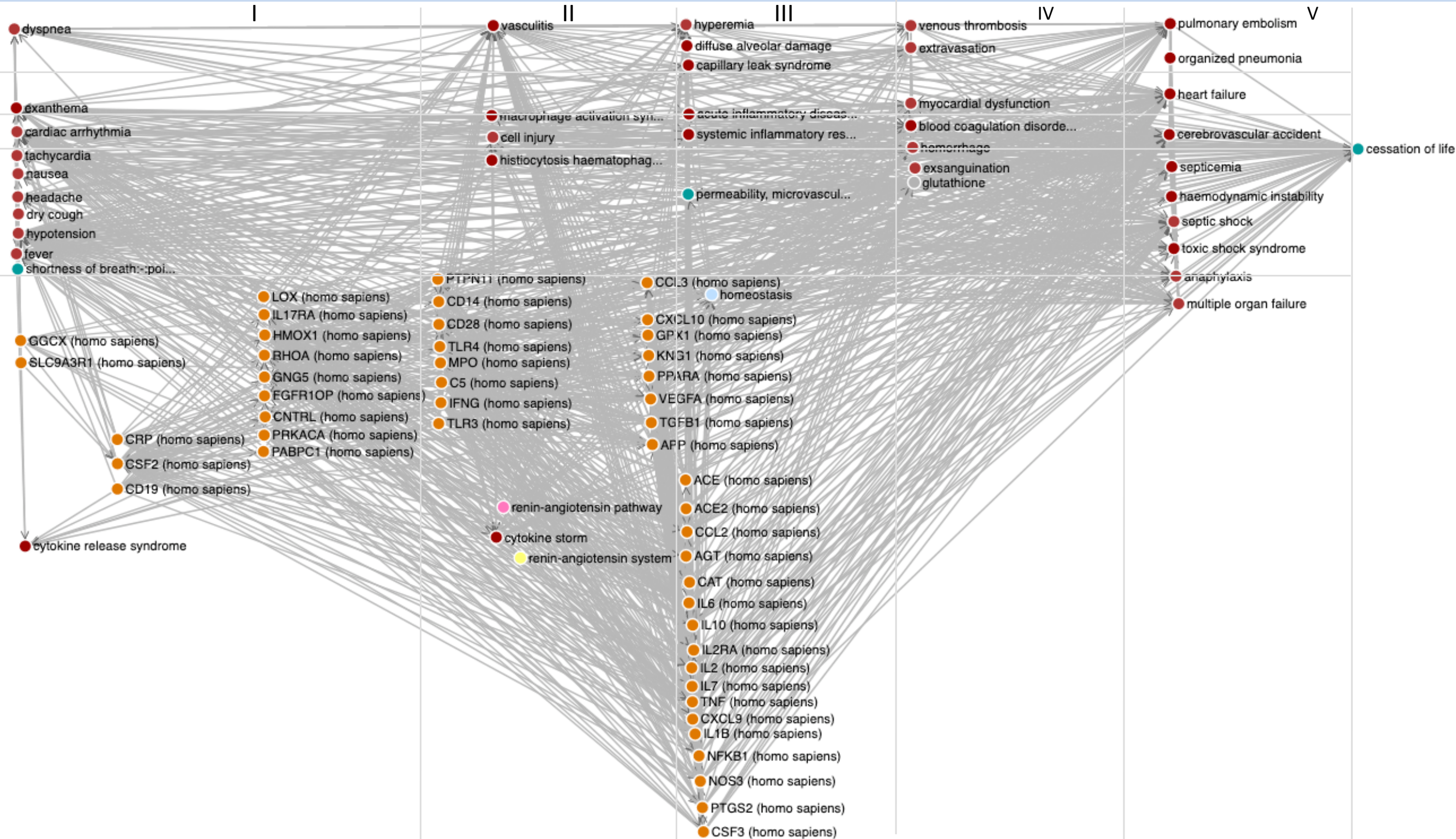
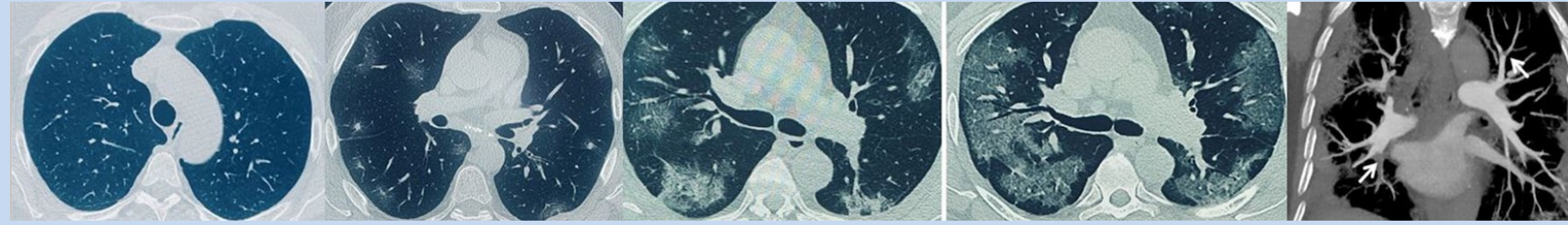


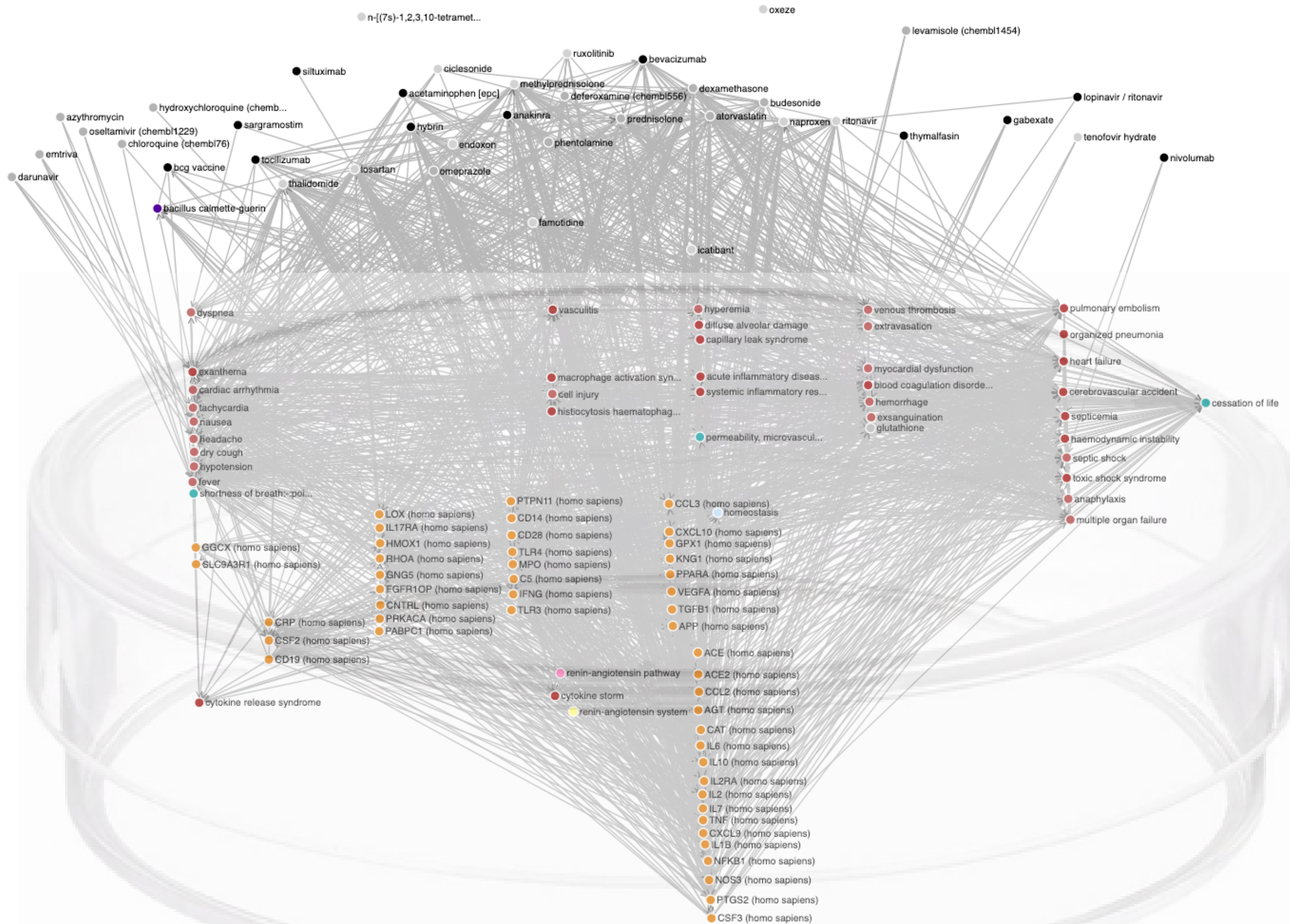
Trains - FAIR algorithms

IFDS: 2: Basic Implementation Choices

- ✓ Based on FAIR GP
- ✓ Implementation is FAIR implementation Framework (FIF)
- ✓ Architecture FIF based on FD(o)F
- ✓ All elements have FAIR metadata, some data are FAIR
- ✓ All elements become 'inter'-actionable via FAIR implementation profiles (FIP)







Example: The Trusted World of Corona

