

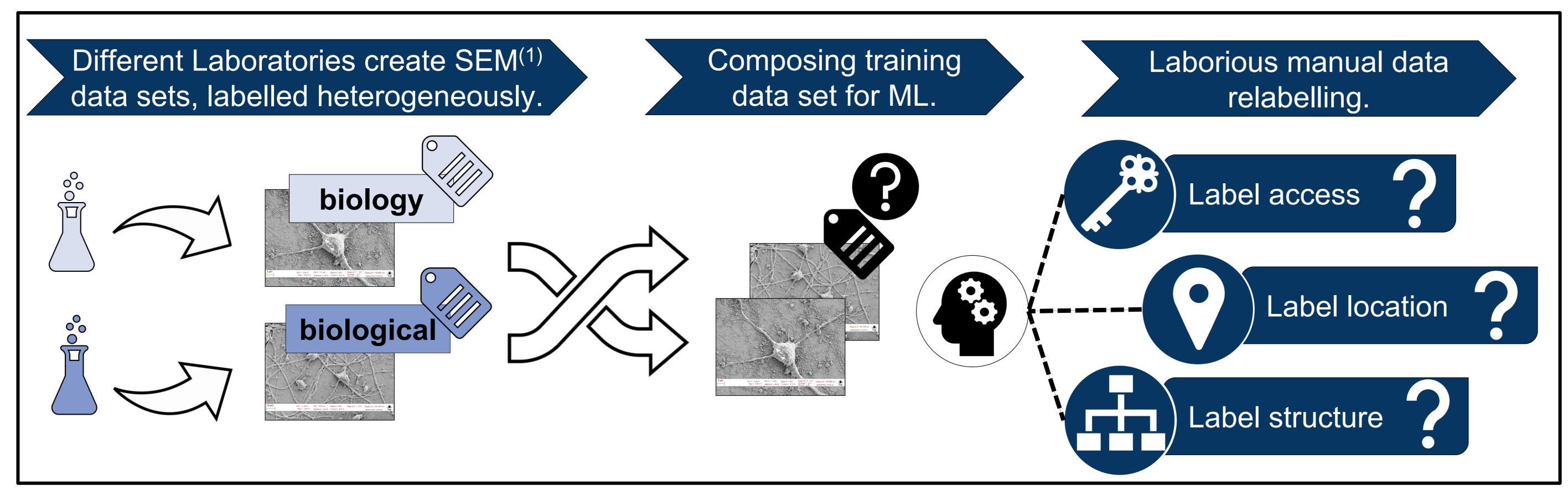




Nicolas Blumenröhr, Thomas Jejkal, Andreas Pfeil, Rainer Stotzka



Composing Machine Learning (ML) training data sets from heterogeneous sources is laborious due to their relabelling into uniform categories.



## Conclusions

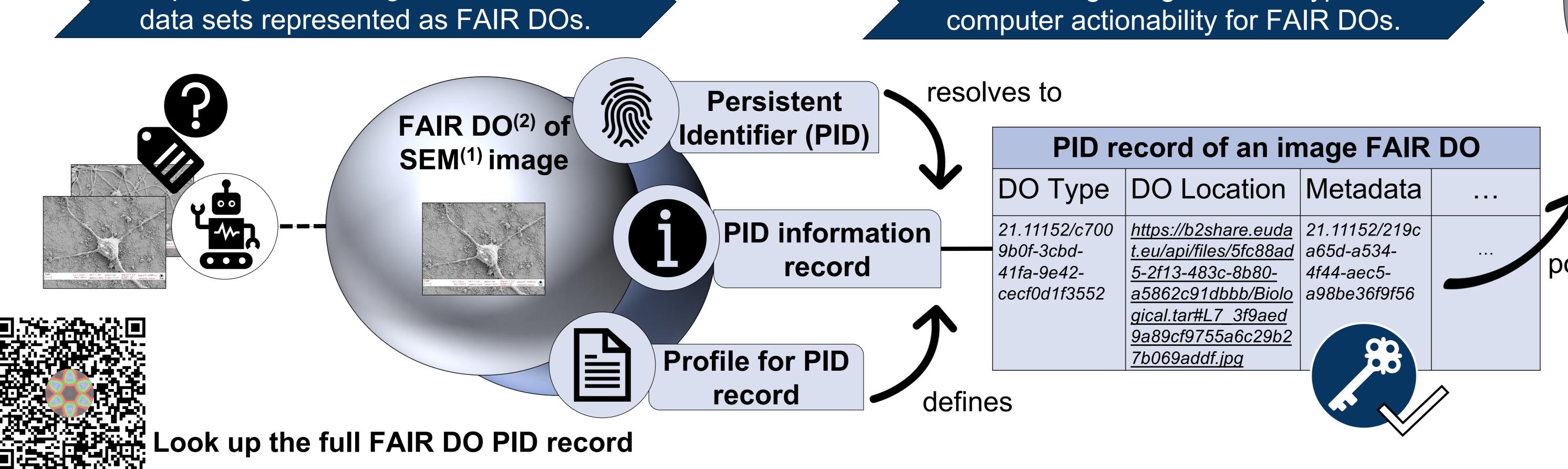
- Images and their labels represented as FAIR DOs can be located and accessed easier.
- FAIR DOs enable machine actionable decisions on the data.
- This supports automated relabelling and saves a lot of time for the scientist.



To automate this task, the FAIR Digital Object (FAIR DO) concept can be used.

Composing ML training data from SEM<sup>(1)</sup> data sets represented as FAIR DOs.

Data relabelling using PID- and type-based



FAIR DO<sup>(2)</sup> of label metadata PID resolves to PID record of a label FAIR DO points to DO Type DO Location . . . 21.11152/de2d965b http://mm3.datamanager.kit -8941-46f1-b0f0-.edu:8040/api/v1/metadata/ 94e2ca41c18c mldata biology?version=1

(1) Scanning Electron Microscopy (SEM) data set, provided by R. Aversa et. al. <a href="http://doi.org/10.23728/b2share.19cc2afd23e34b92b36a1dfd0113a89f">http://doi.org/10.23728/b2share.19cc2afd23e34b92b36a1dfd0113a89f</a> (2) Introduction to PIDs and FAIR DOs: https://kit-data-manager.github.io/fairdo-cookbook/about.html