

# Annotated Research Contexts (ARCs)

## A FAIR RDM journey along a mutable data life cycle

fdm.nrw

"Best Practice Day – die Tools des FDMs"

September 19th, 2023



Dominik Brilhaus

[CEPLAS Data Science](#)

# Annotated Research Contexts (ARCs)

A FAIR RDM journey along a mutable data life cycle

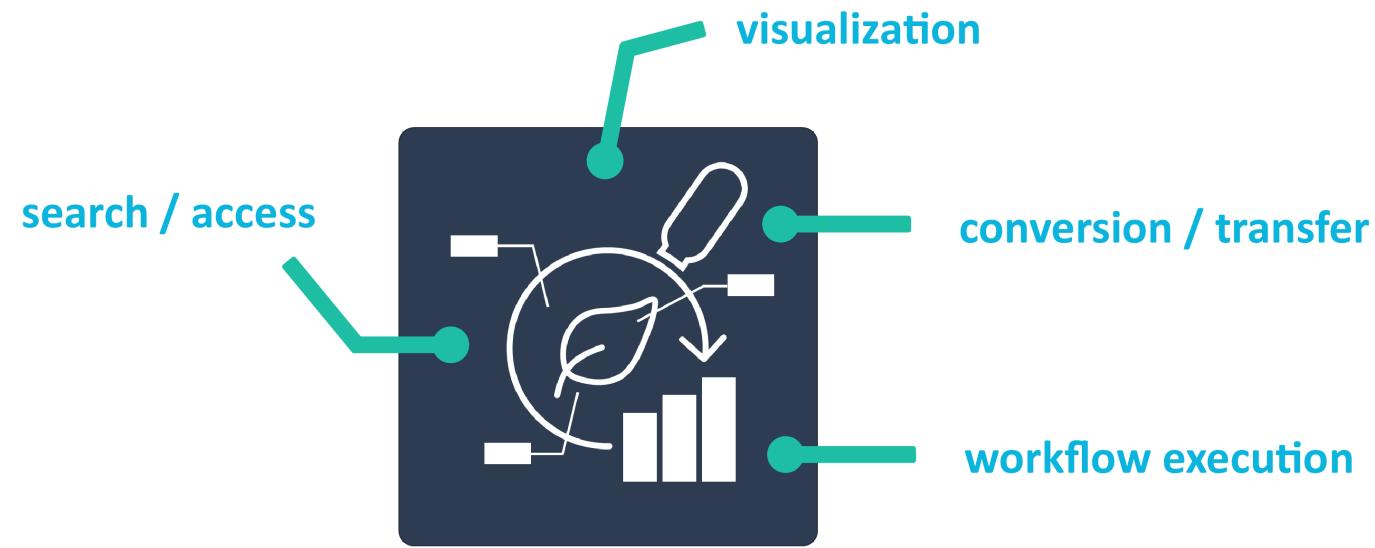
fdm.nrw

"Best **Practice** Day – die **Tools** des FDMs"

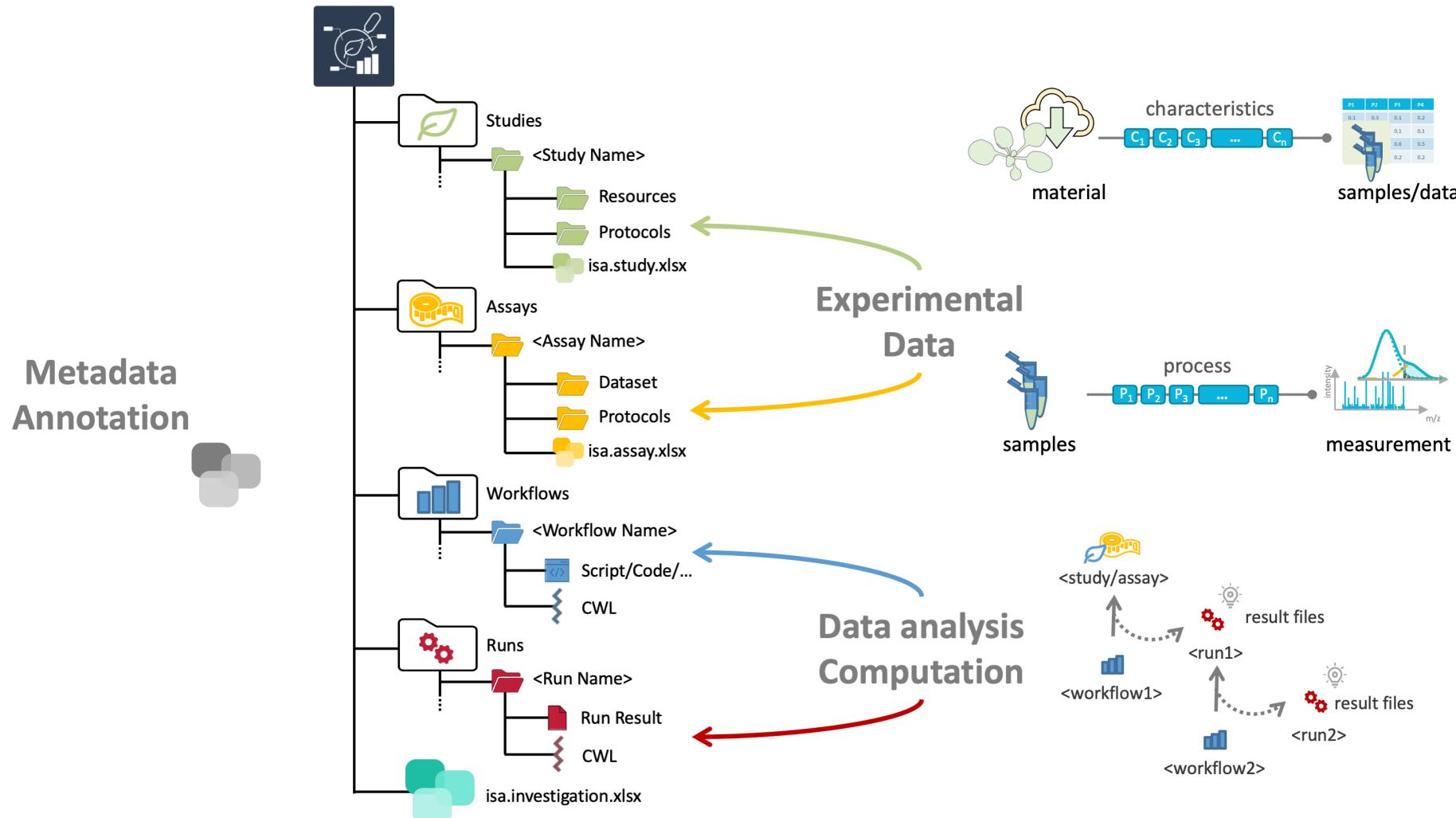
September 19th, 2023

# Data Stewardship between DataPLANT and the community

# Annotated Research Context (ARC)



# The ARC – a package for your research data

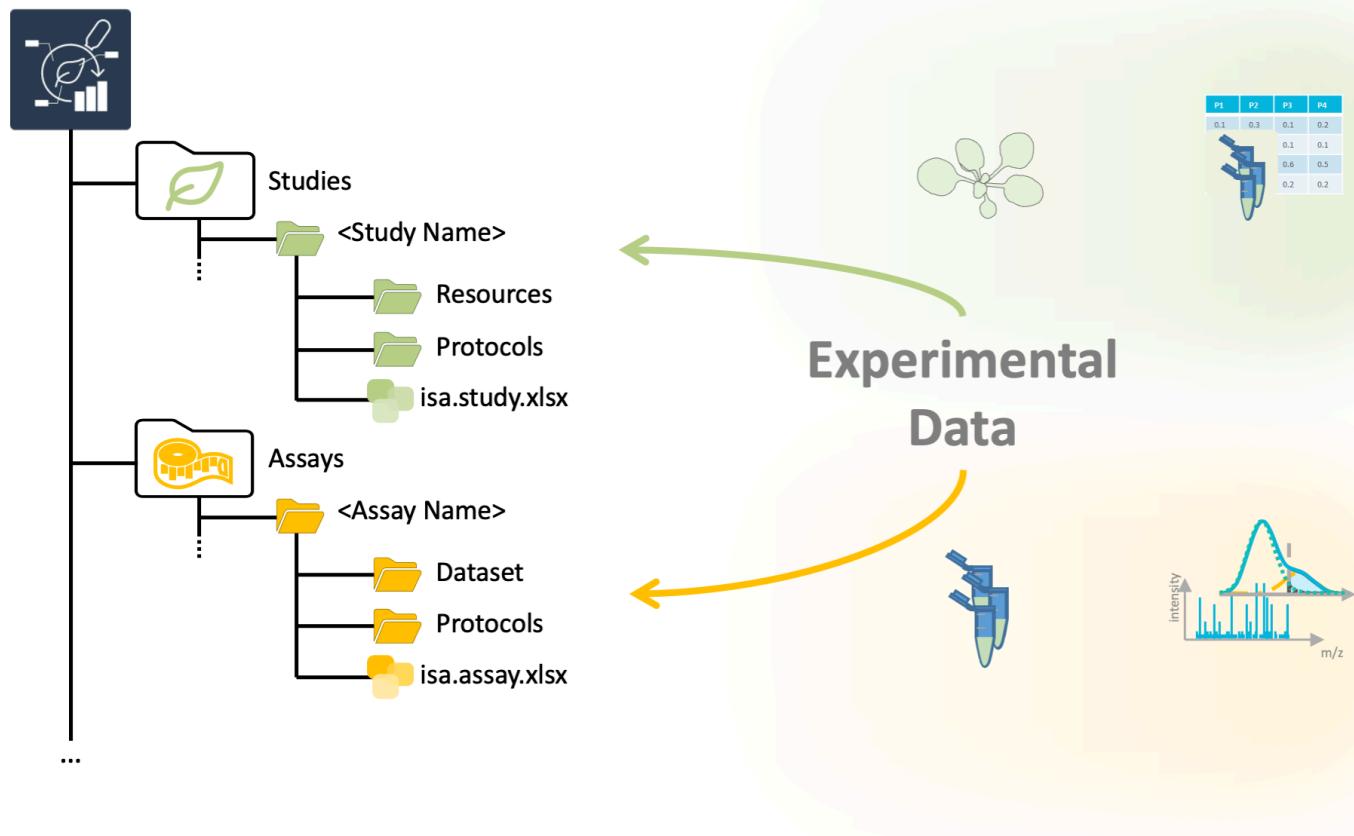


# "A FAIR RDM journey along a (mutable) data life cycle"



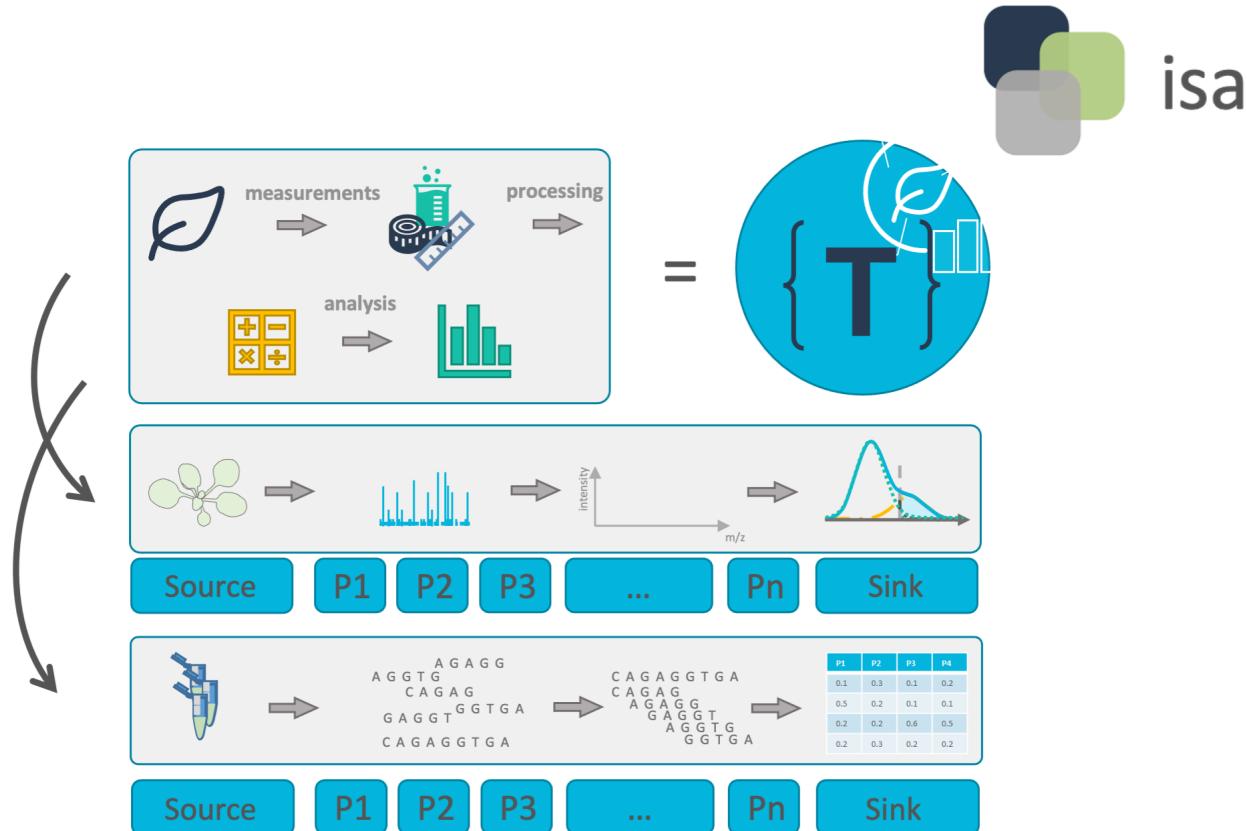


# Collect



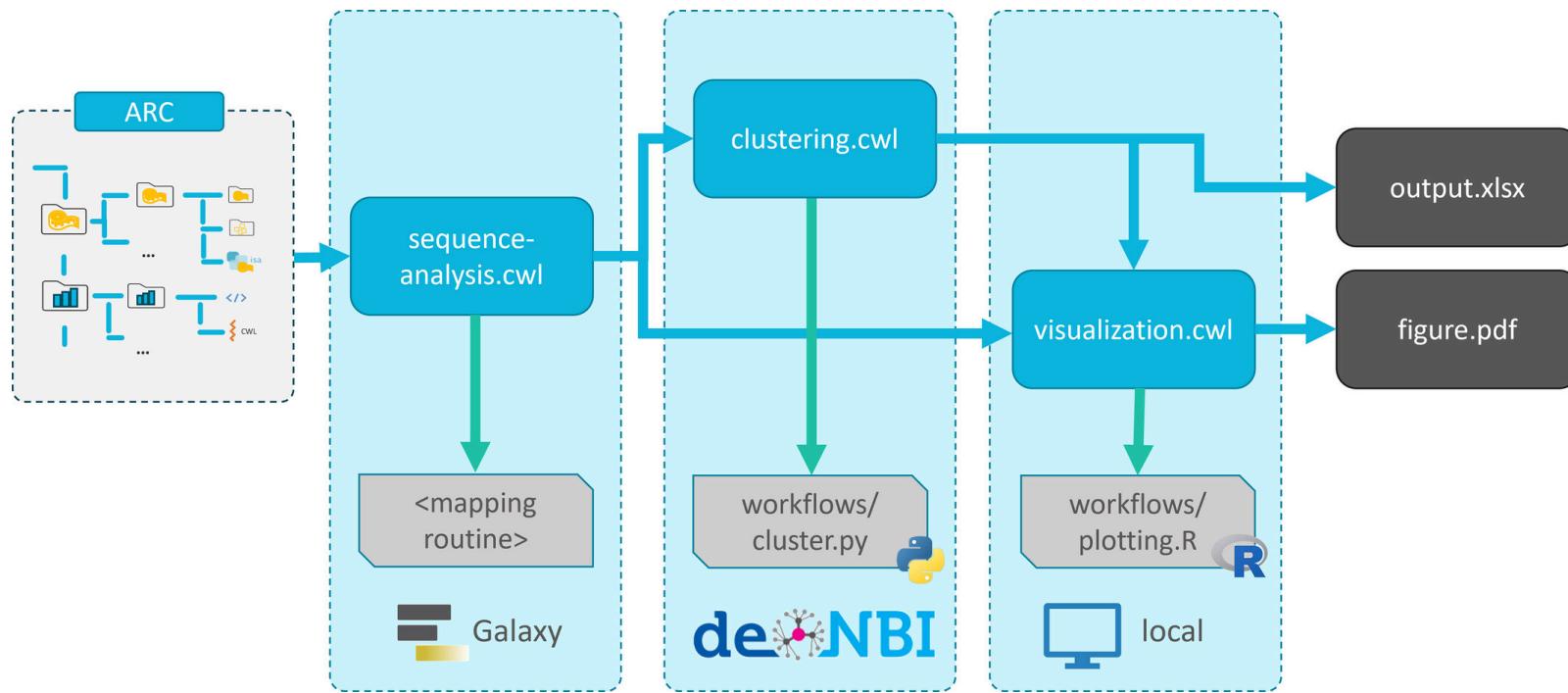


# Process (e.g. annotate)



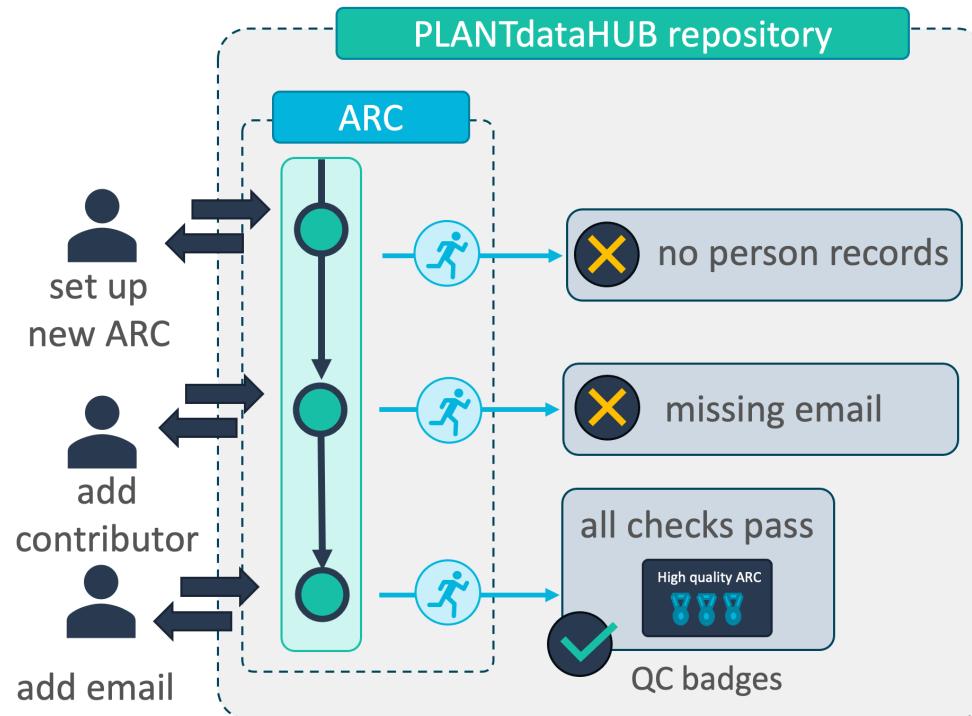


# Analyse





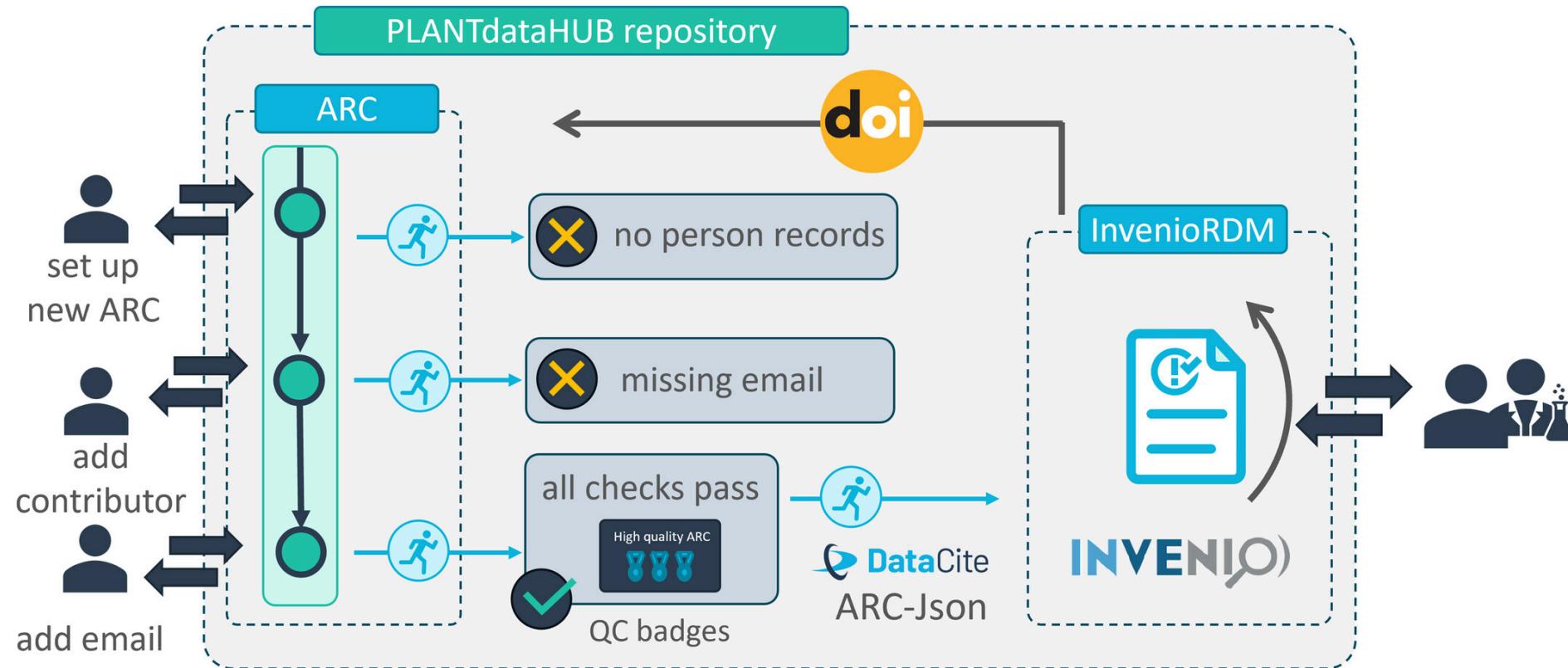
# Preserve



adapted from Weil, H.L., Schneider, K., et al. (2023), PLANTdataHUB: a collaborative platform for continuous FAIR data sharing in plant research. Plant J. <https://doi.org/10.1111/tpj.16474>

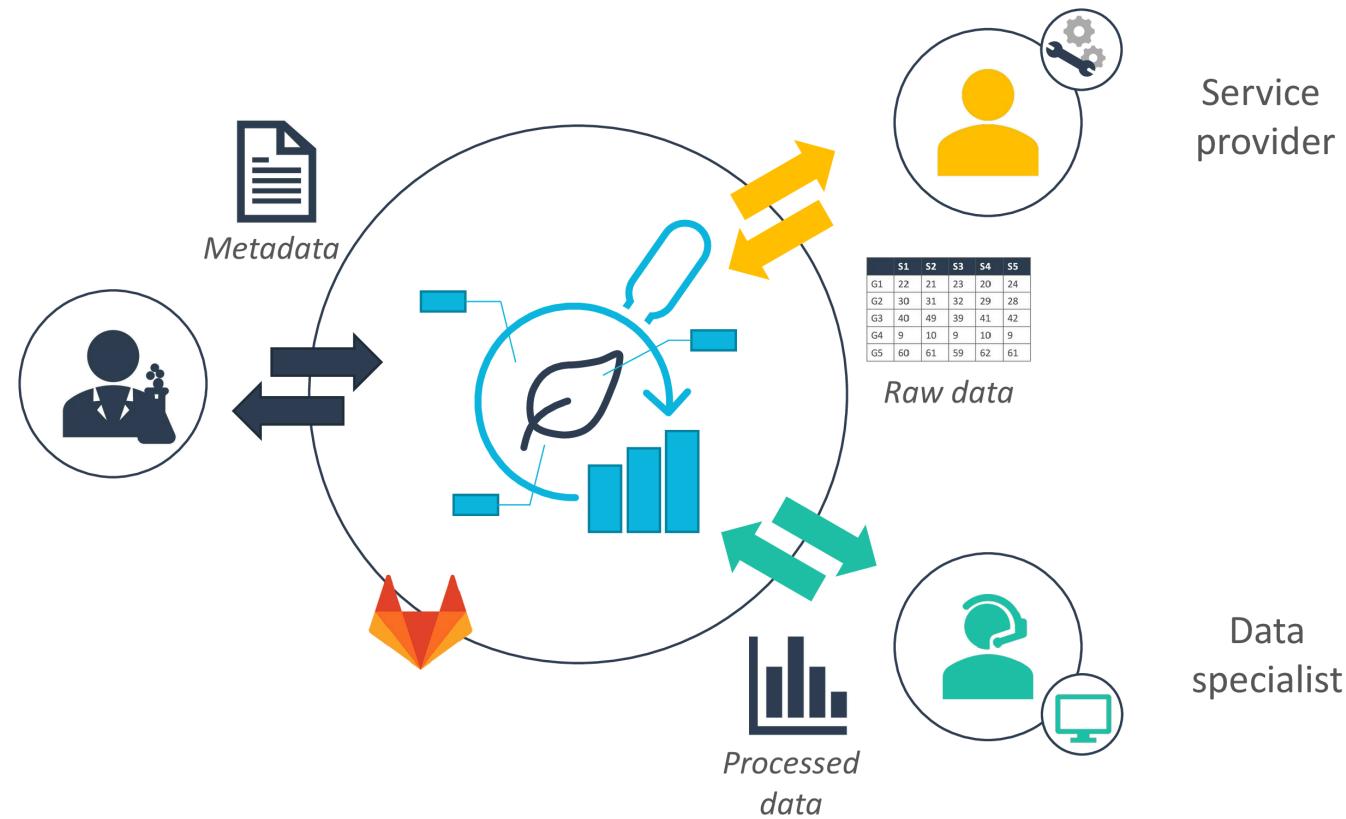


# Preserve and publish



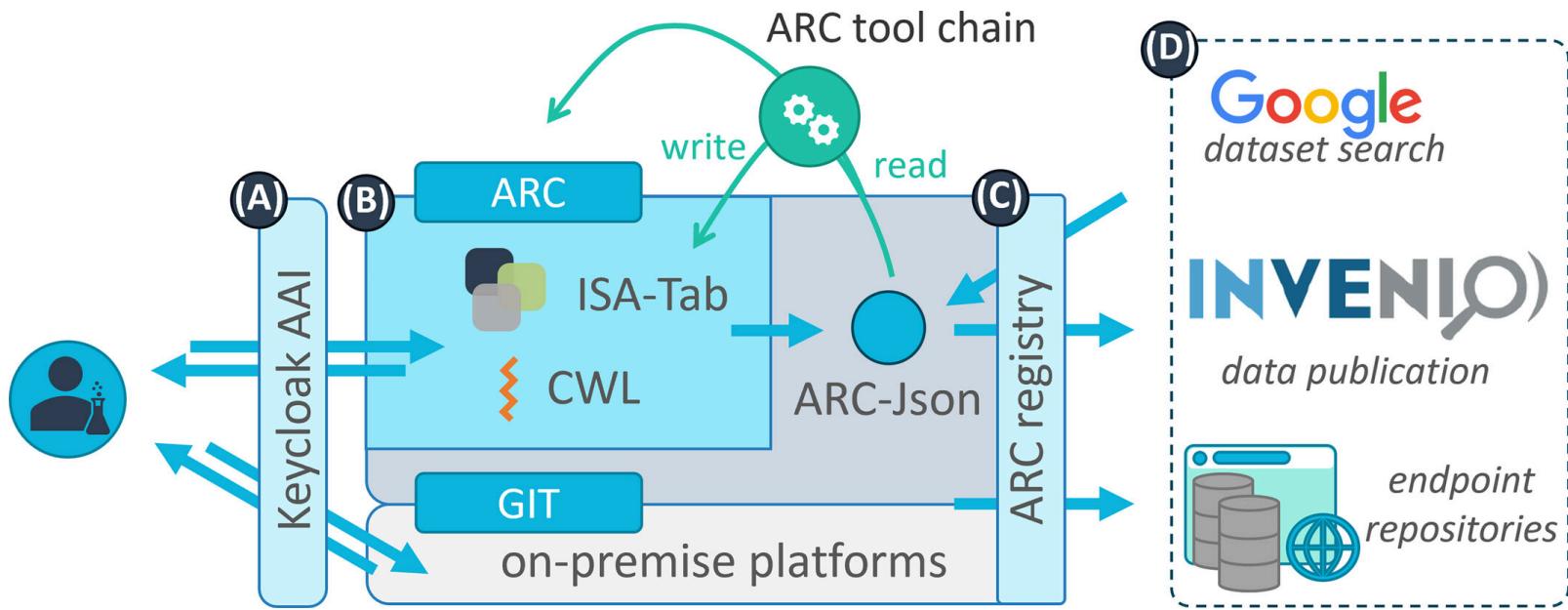


# Share and collaborate

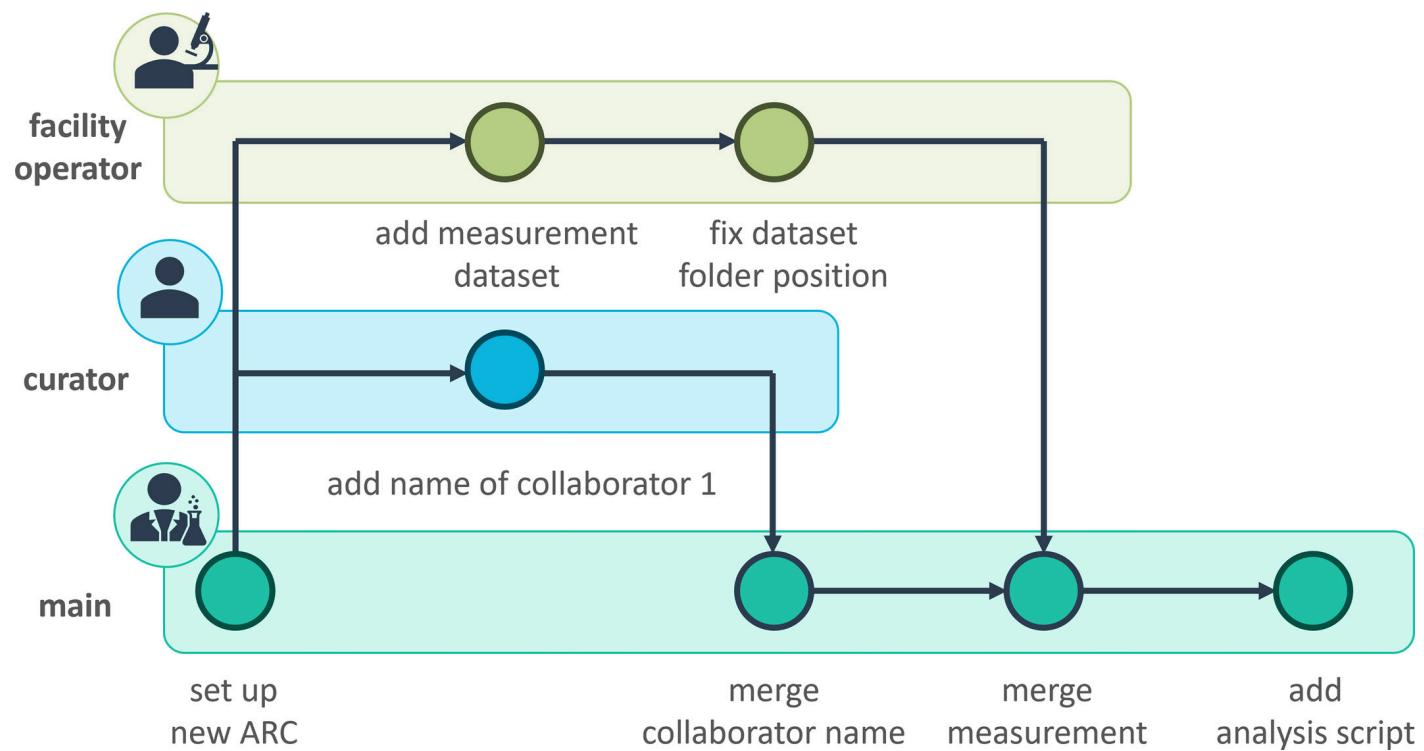




# Reuse

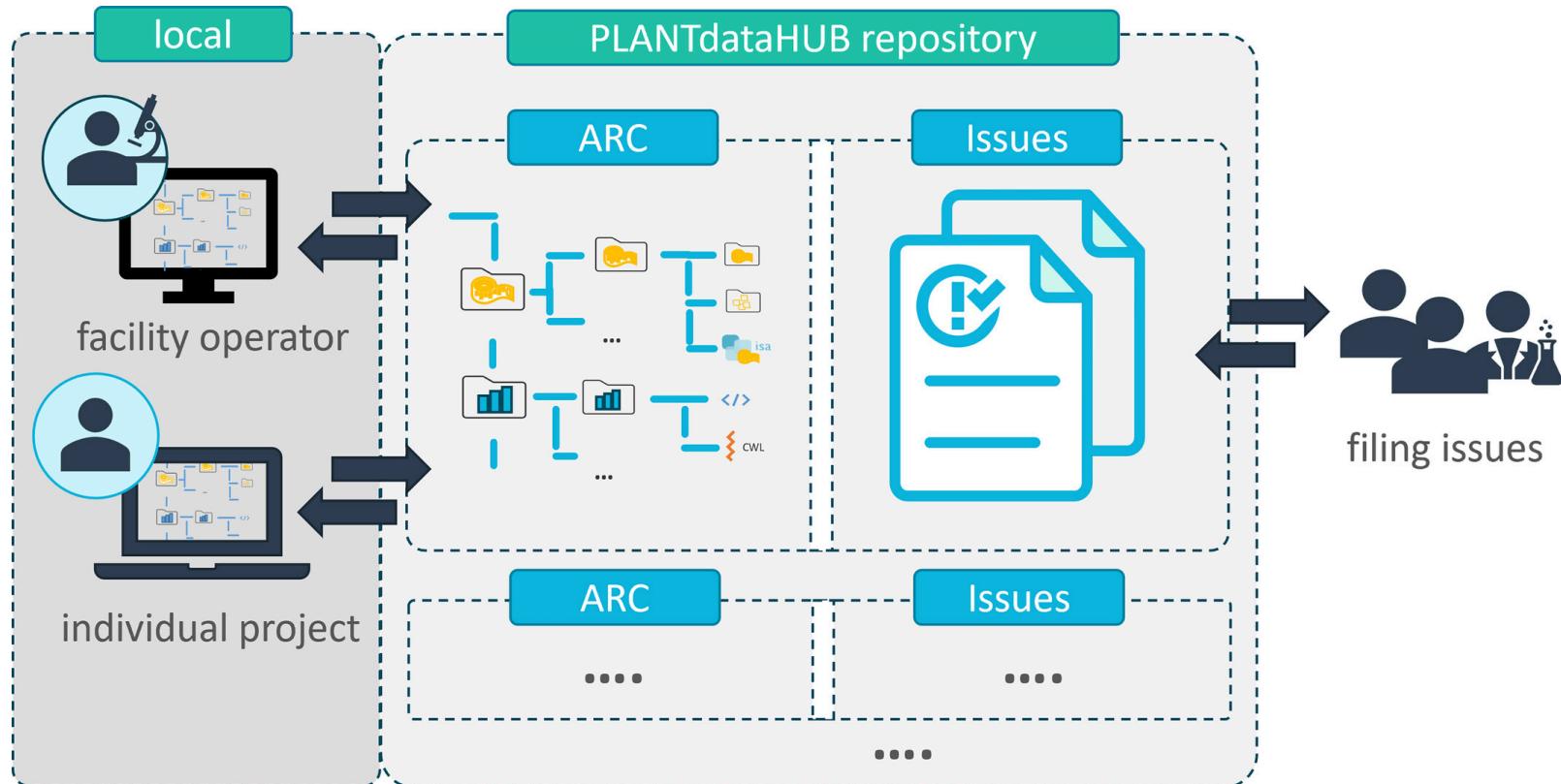


# Mutable data life cycle





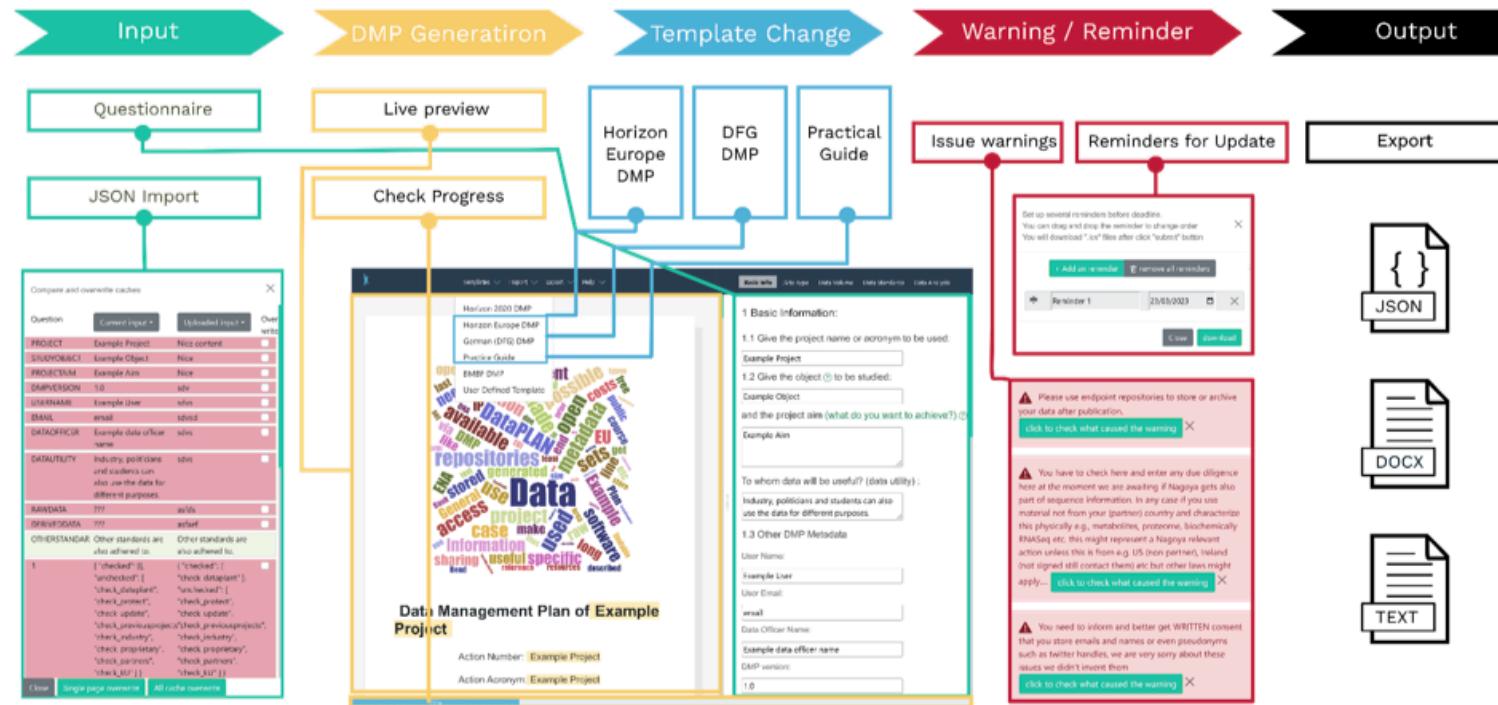
# Plan (ARC scale)





# Plan (proposal scale)

<https://dmpg.nfdi4plants.org>



Zhou et al. (2023), DataPLAN: a web-based data management plan generator for the plant sciences, bioRxiv 2023.07.07.548147; doi: <https://doi.org/10.1101/2023.07.07.548147>

# Conclusion

- ARC ecosystem support the full data life cycle
- **Data-centric:** it's more about the data than tools or implementations

# Resources



## DataPLANT (nfdi4plants)

Website: <https://nfdi4plants.org/>

Knowledge Base: <https://nfdi4plants.org/nfdi4plants.knowledgebase/>

DataHUB: <https://git.nfdi4plants.org>

GitHub: <https://github.com/nfdi4plants>

# Acknowledgements

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( ARC Commander , Swate , ARChigator )
- Jonas Lukasczyk ( ARCitect )

Freiburg: Dirk von Suchodeletz

- Jonathan Bauer, Marcel Tschöpe ( DataHUB , Swobup )
- Cristina Martins Rodrigues ( Knowledge Base )



3<sup>rd</sup> DataPLANT Hackathon – Sept. 2022