

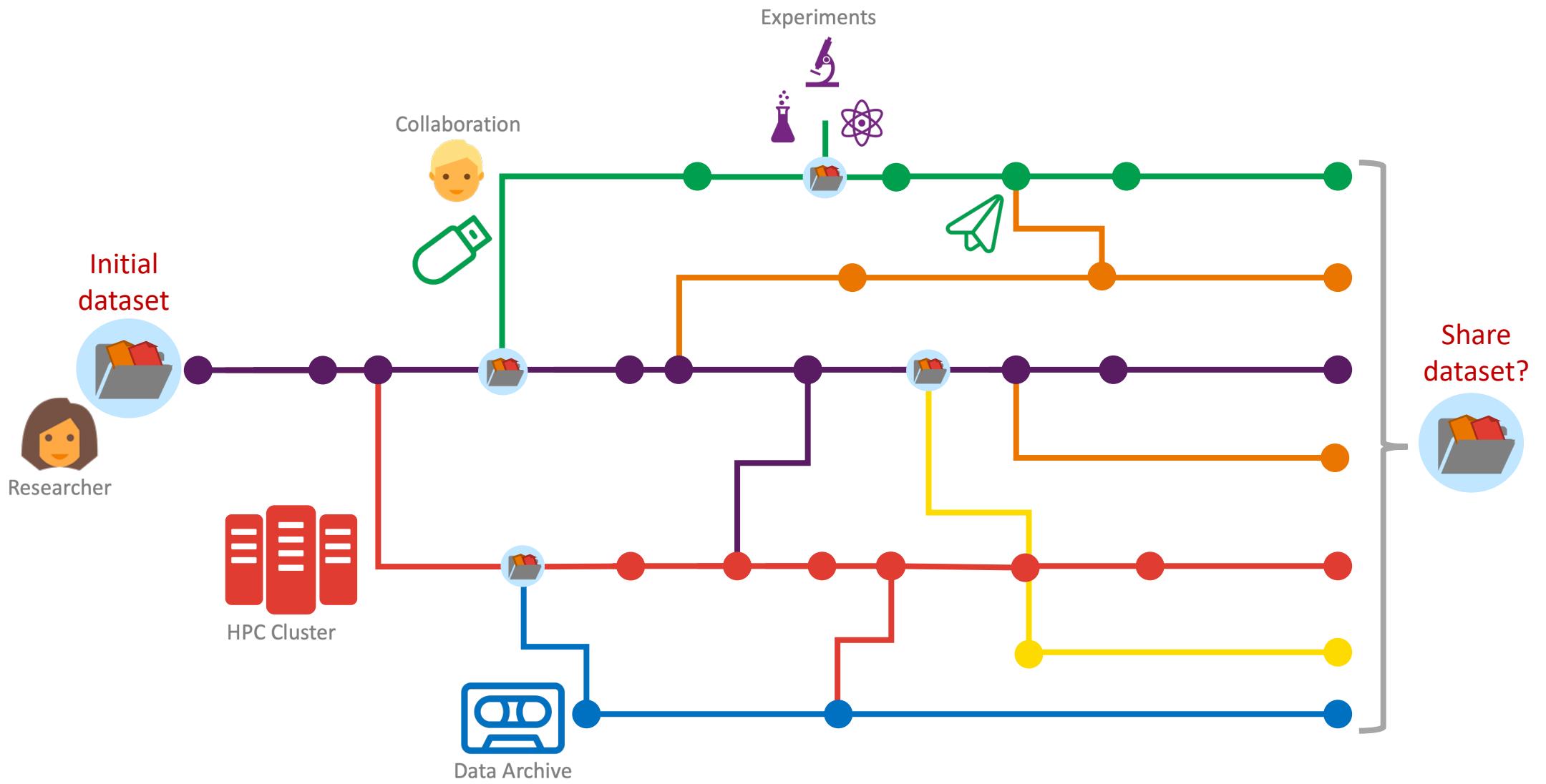


Introduction RDM with iRODS and HPC

Start at 9:00

SURF

Data, what's the problem?



Experiments

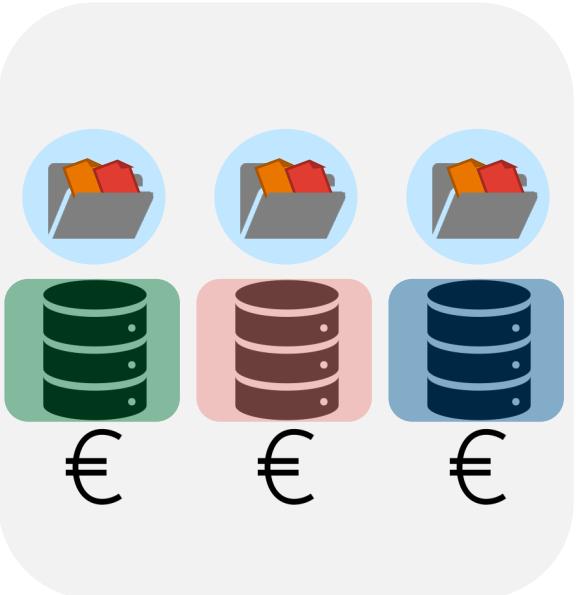


Share
dataset?



SURF

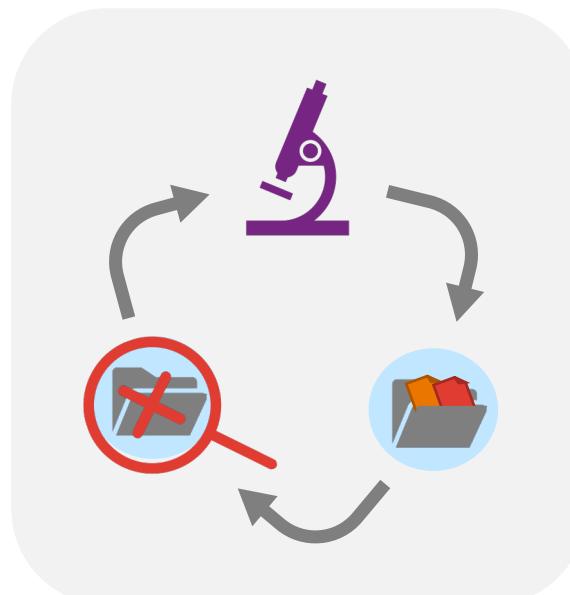
Consequences of bad research data management



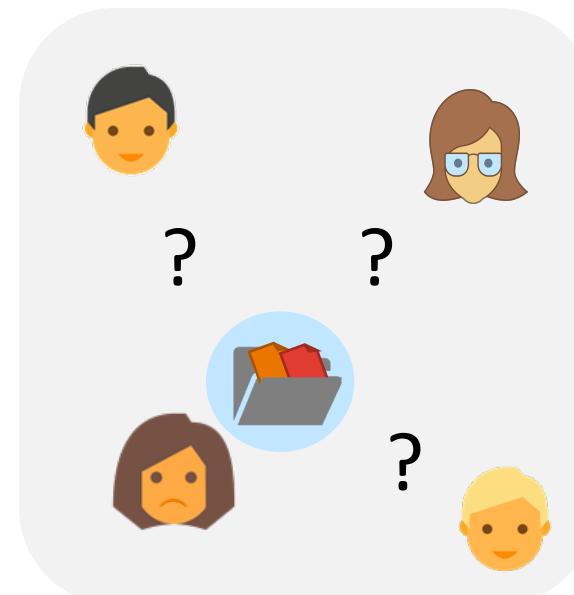
No cost effective
data storage



Data gets lost by disaster
or loss of context

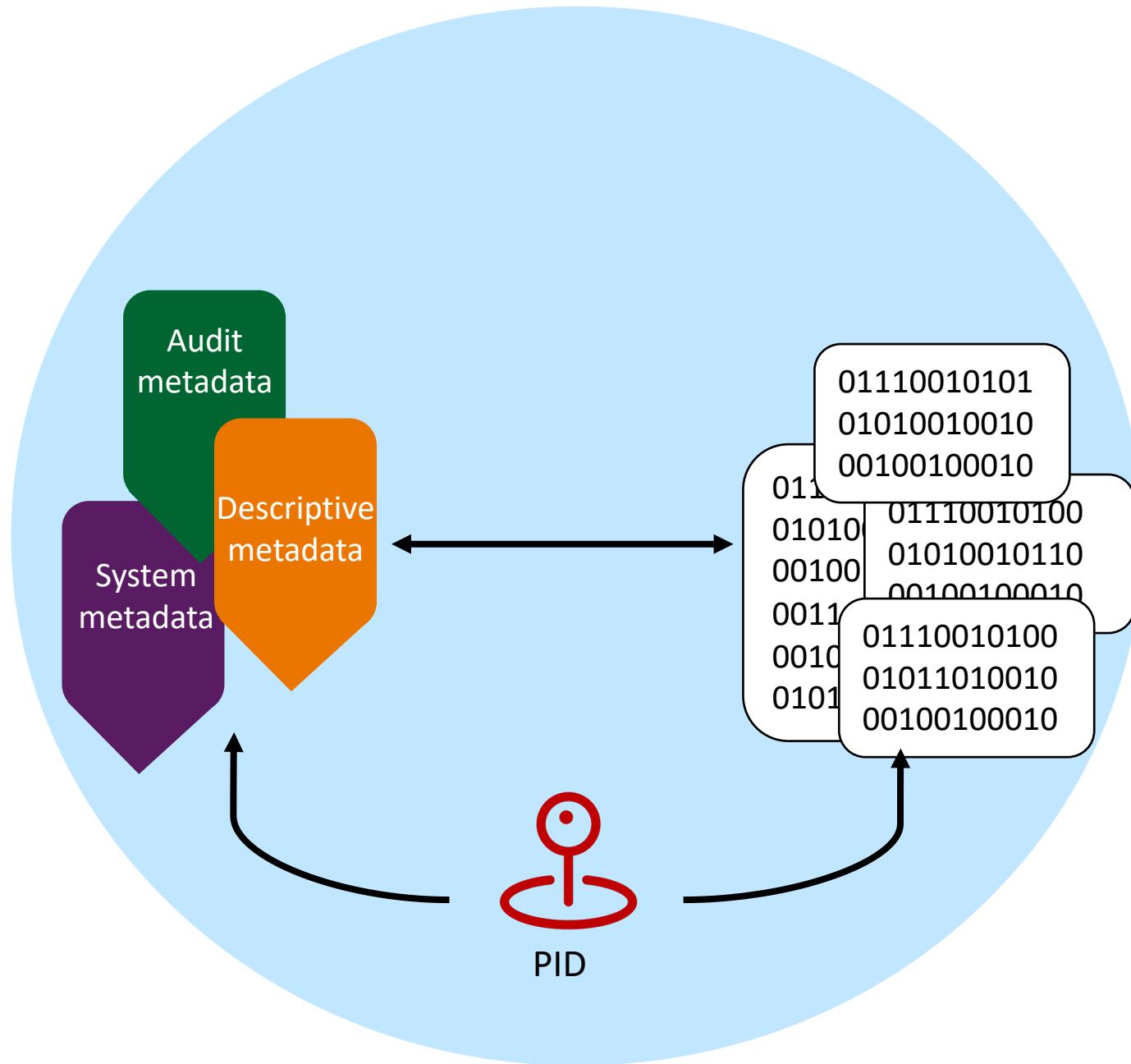
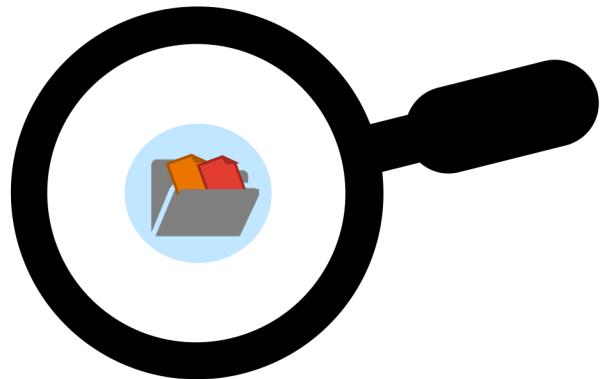


Redoing experiments and
no interoperability

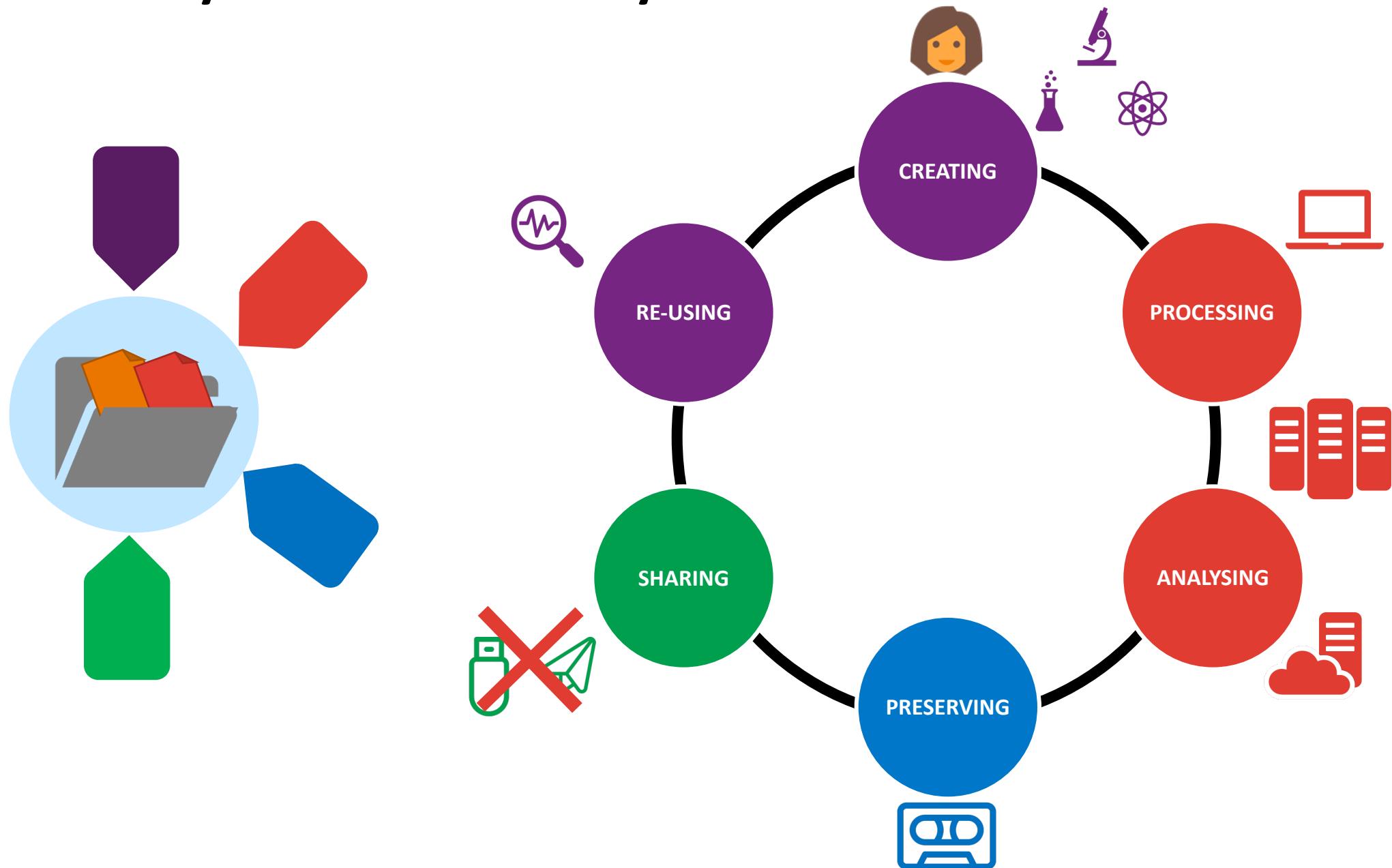


Not able or fear to
share / publish data

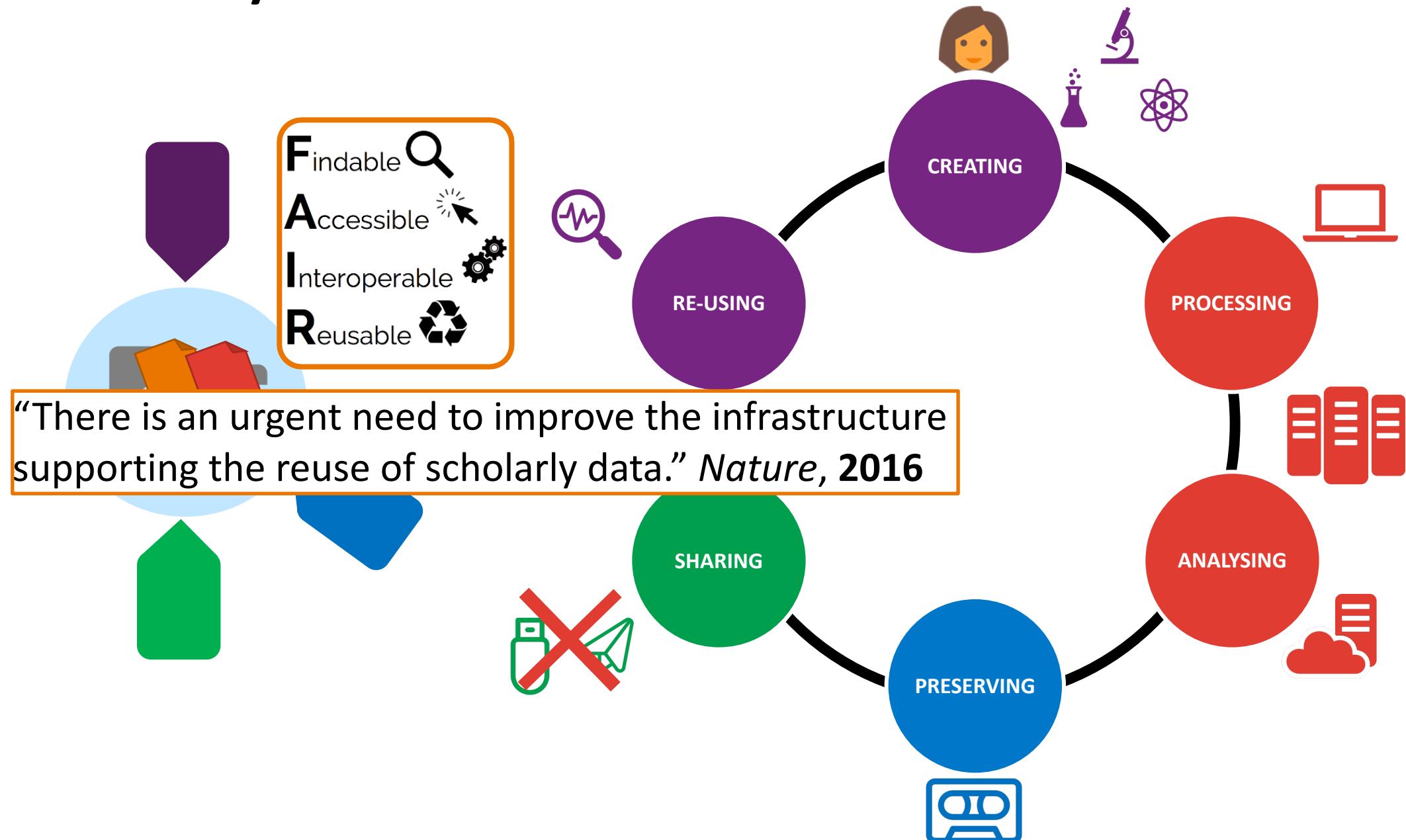
Data, what is it?



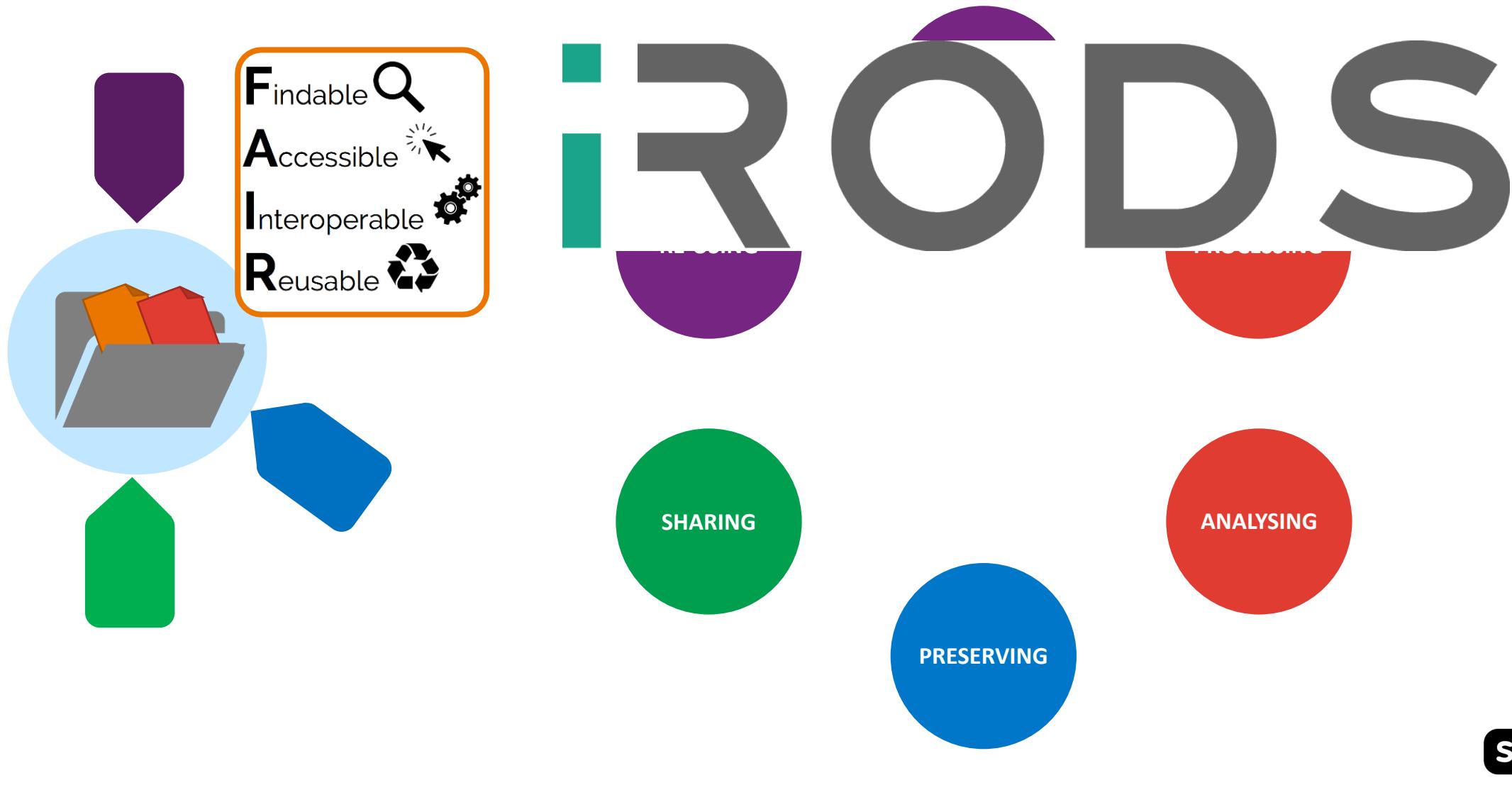
Data Life Cycle is described by metadata



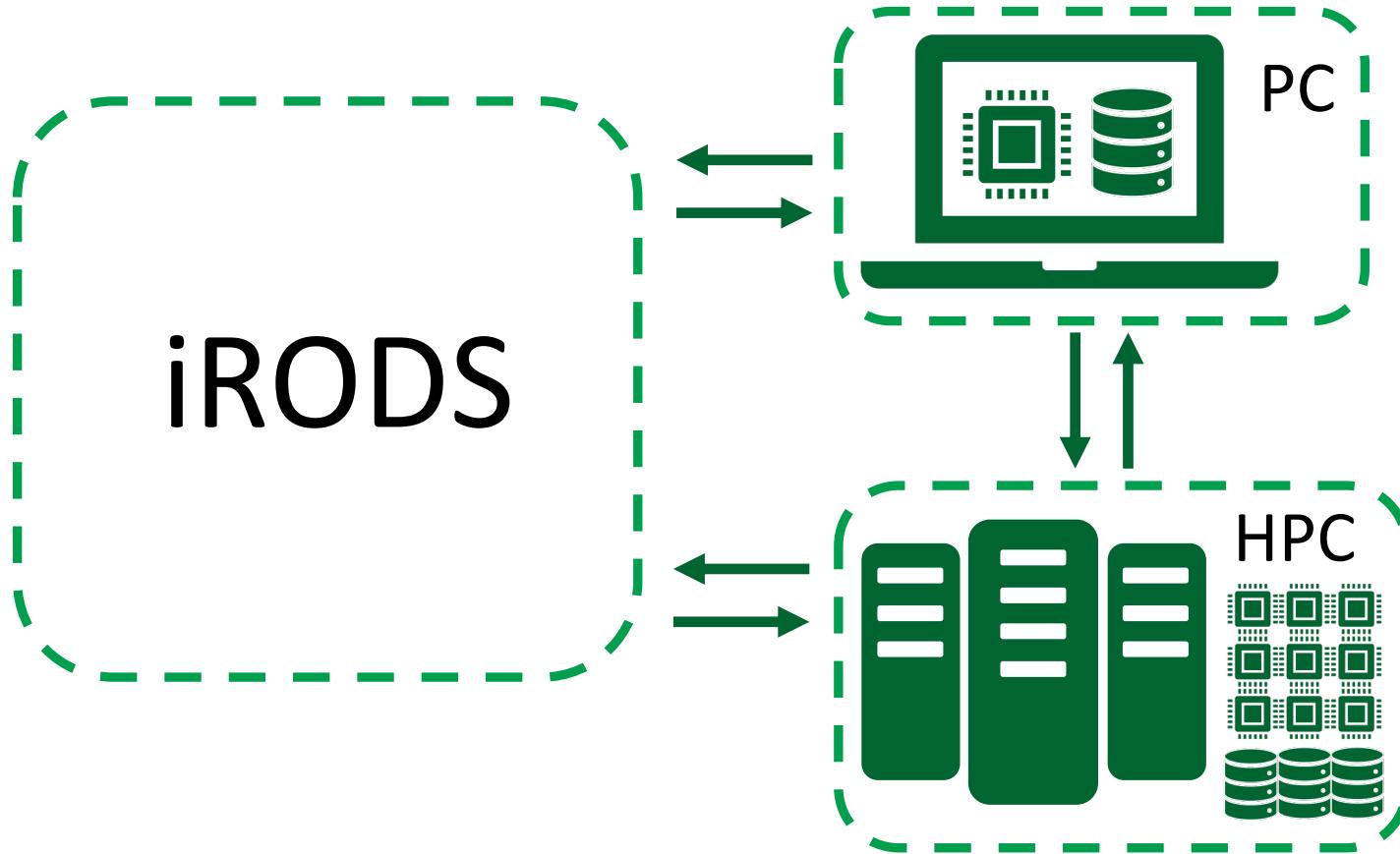
Data Life Cycle is FAIR due to metadata



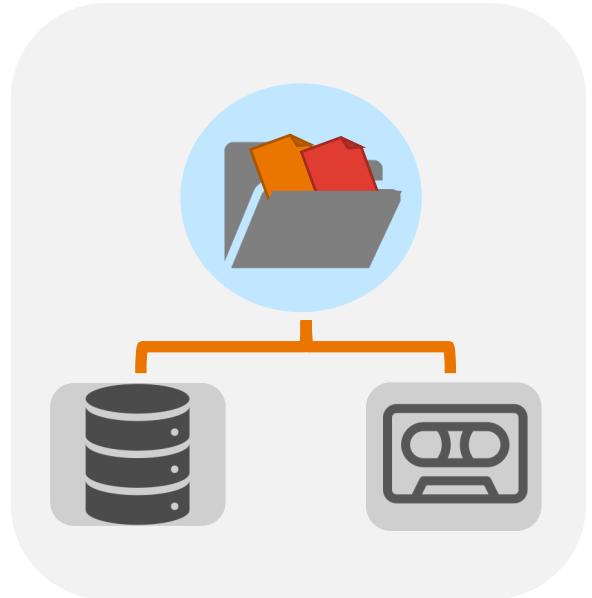
Data Life Cycle can be fully supported by iRODS



Data storage from PC to HPC

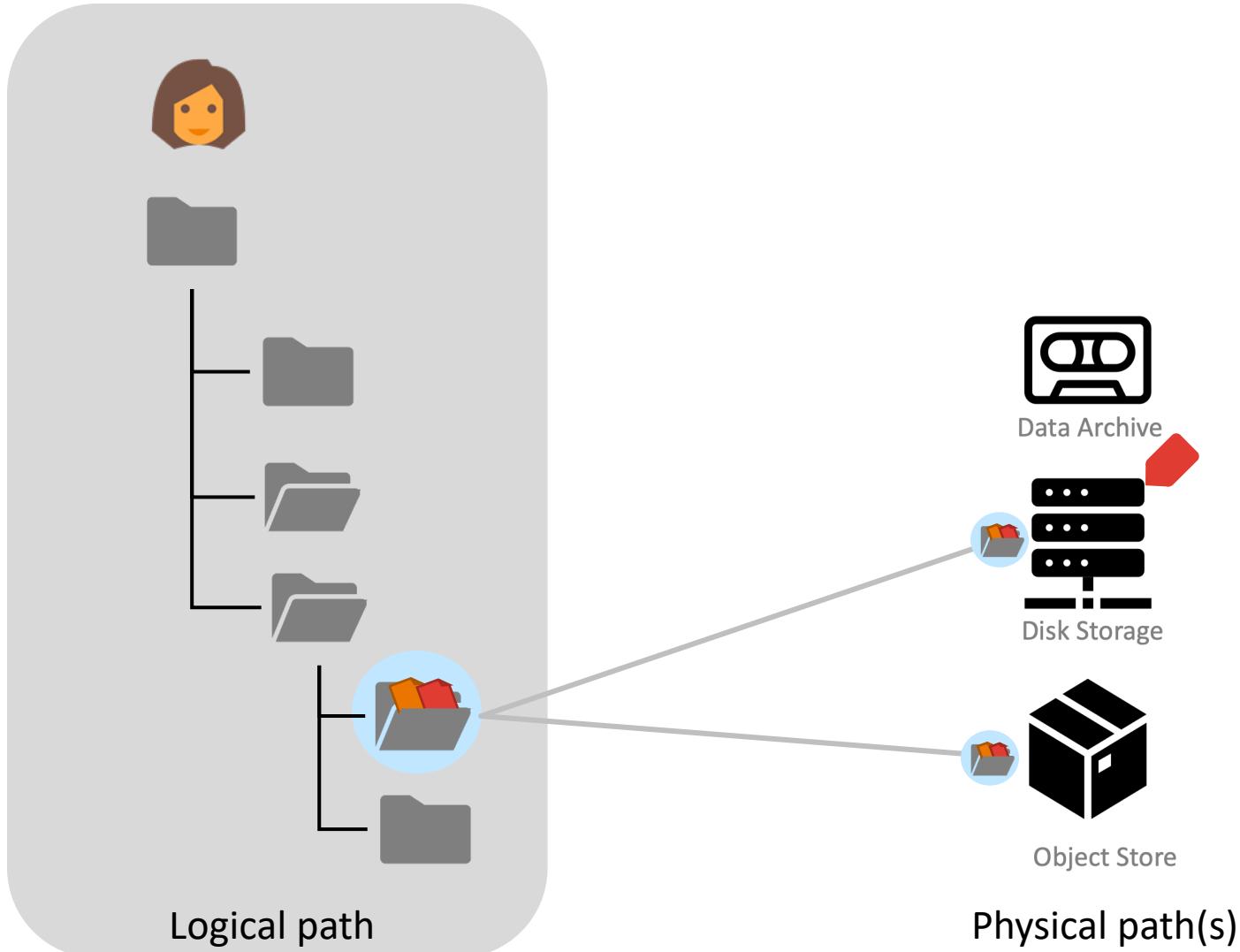


What is iRODS? - Core competencies

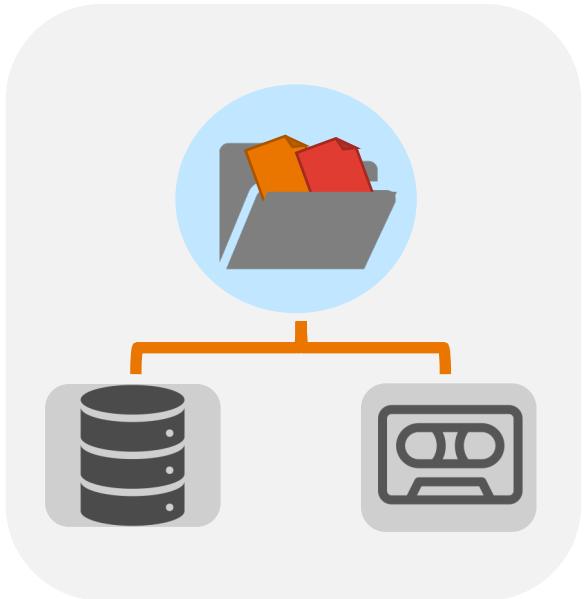


Unified storage of
disk and tape

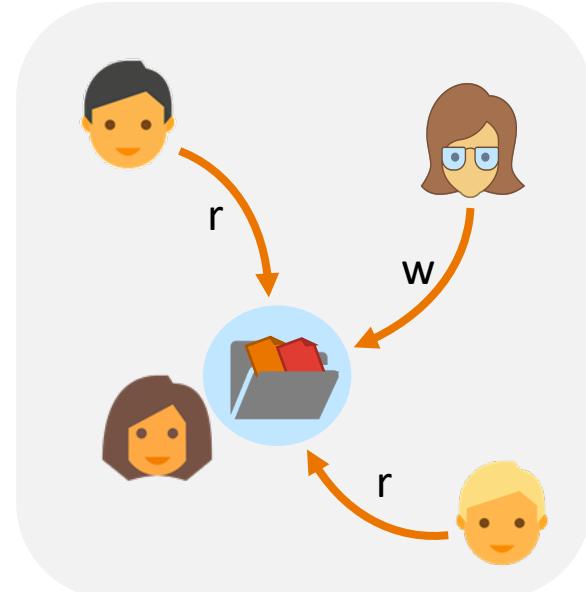
Perspective iRODS from the user



What is iRODS? - Core competencies

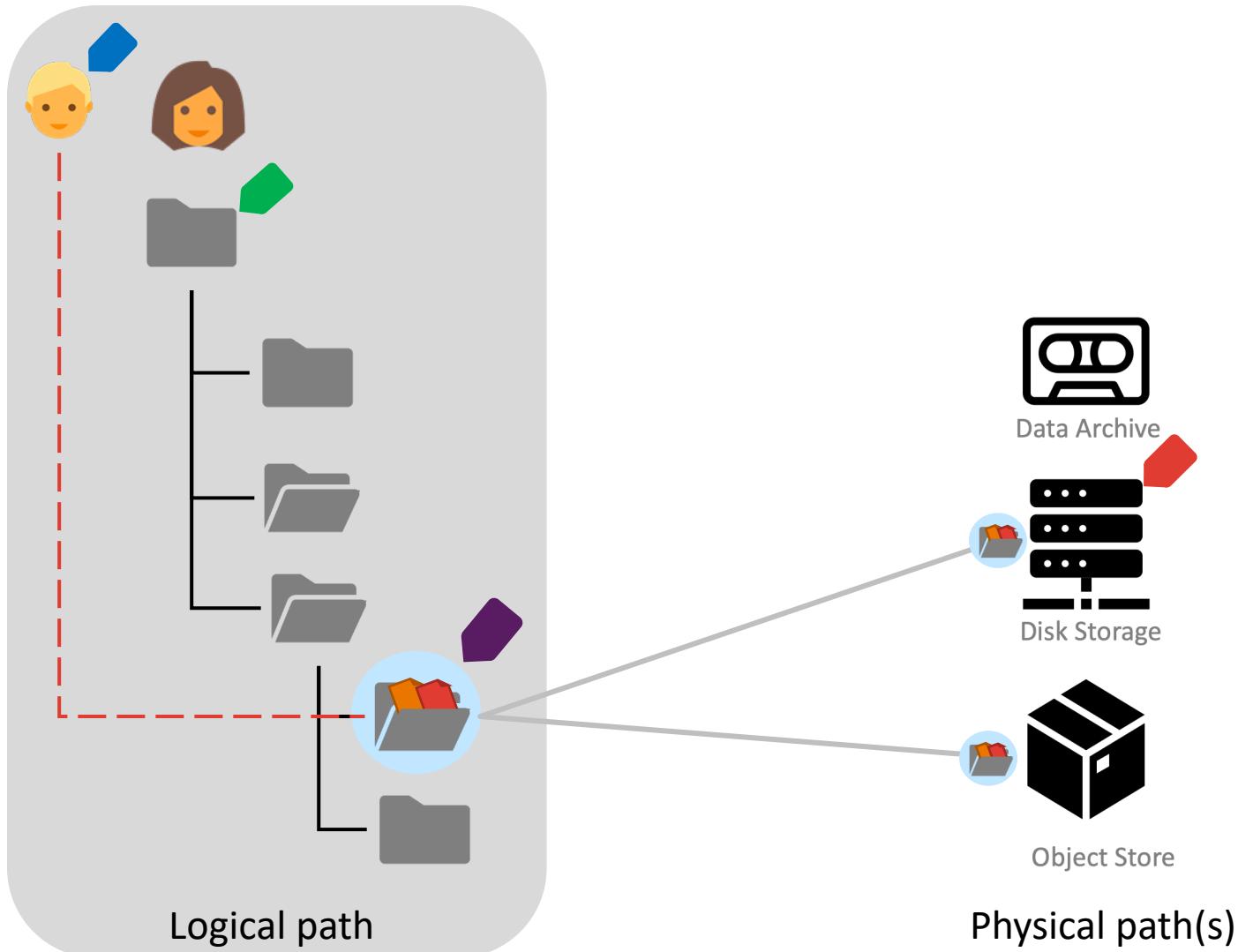


Unified storage of
disk and tape

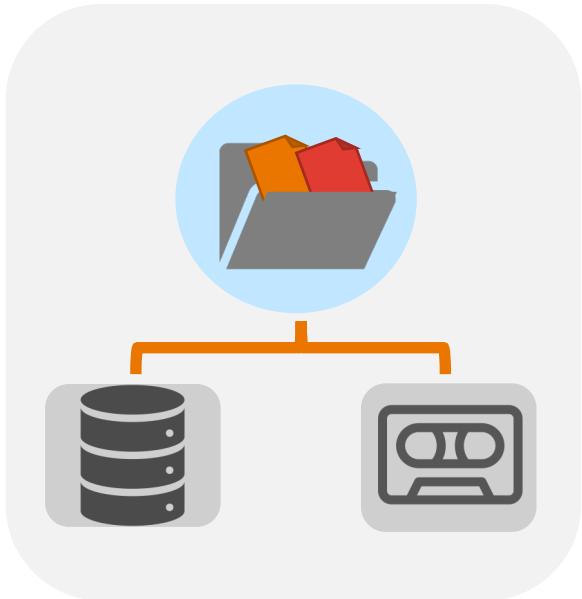


Secure collaboration
and auditing

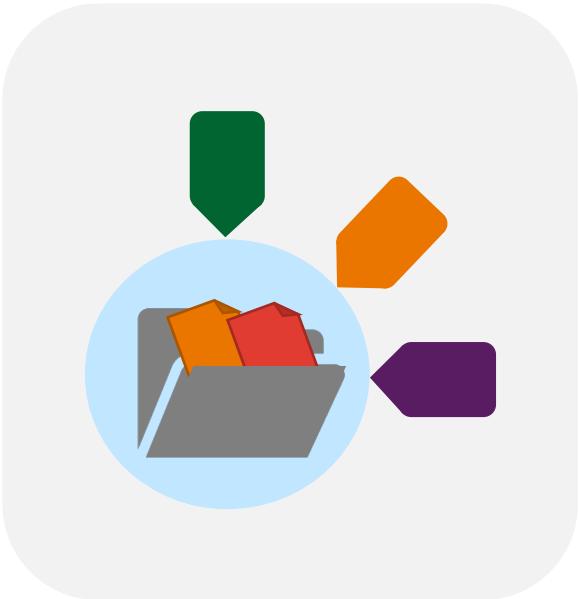
Perspective iRODS from the user



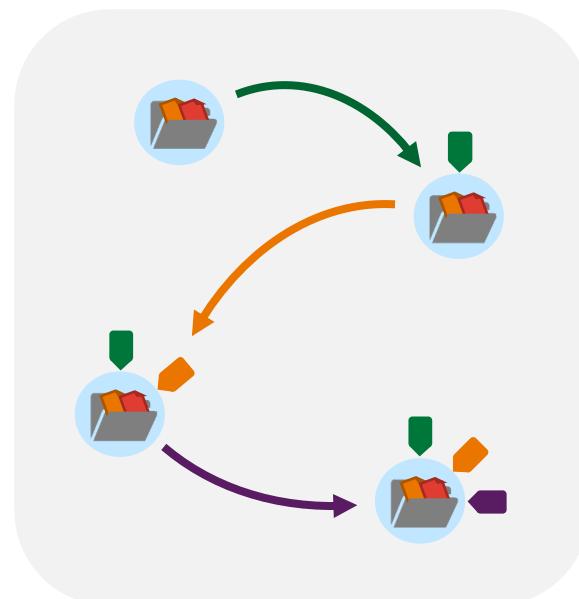
What is iRODS? - Core competencies



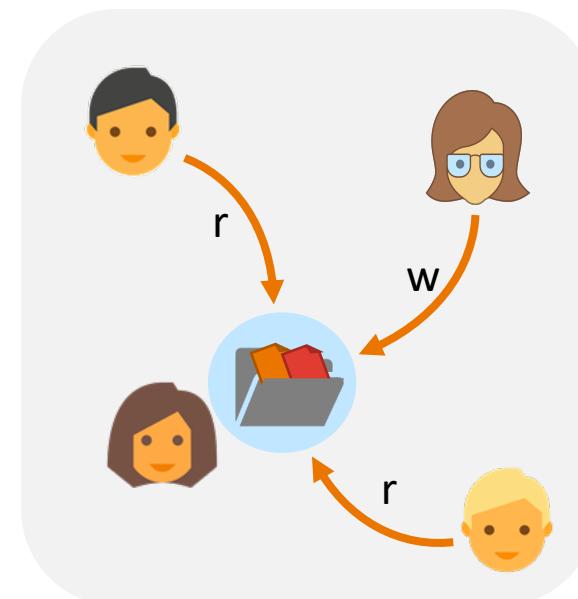
Unified storage of
disk and tape



Metadata for
data discovery



Rule engine to
automate policies



Secure collaboration
and auditing

iRODS rule engine automates workflows and enforces policy



User invocation



Time based



Event based



Different languages

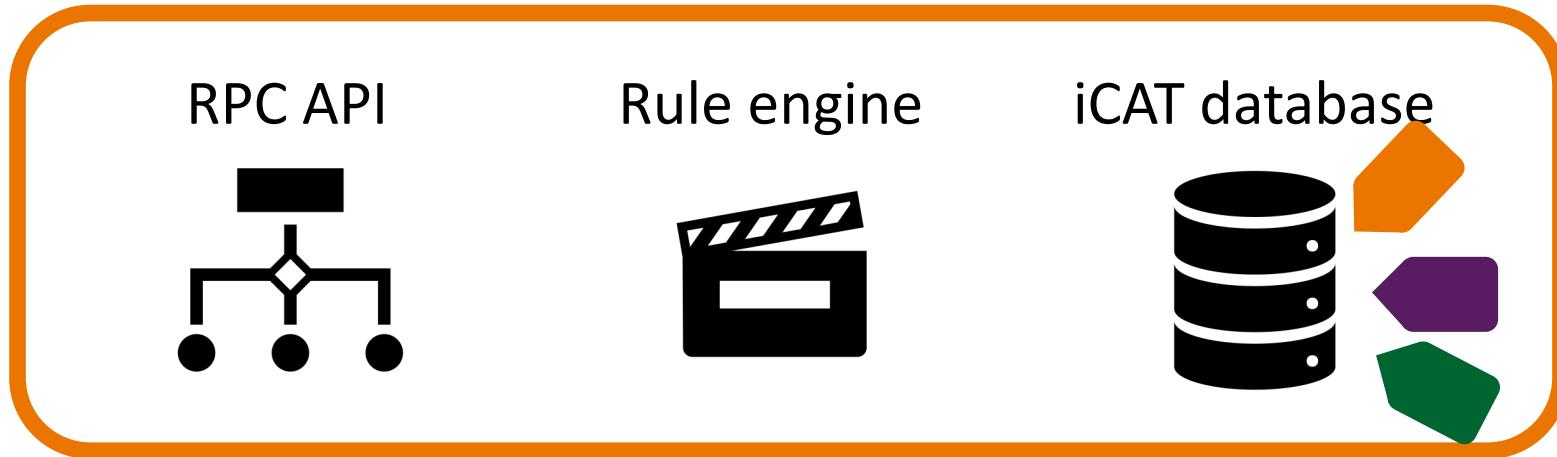
iRODS



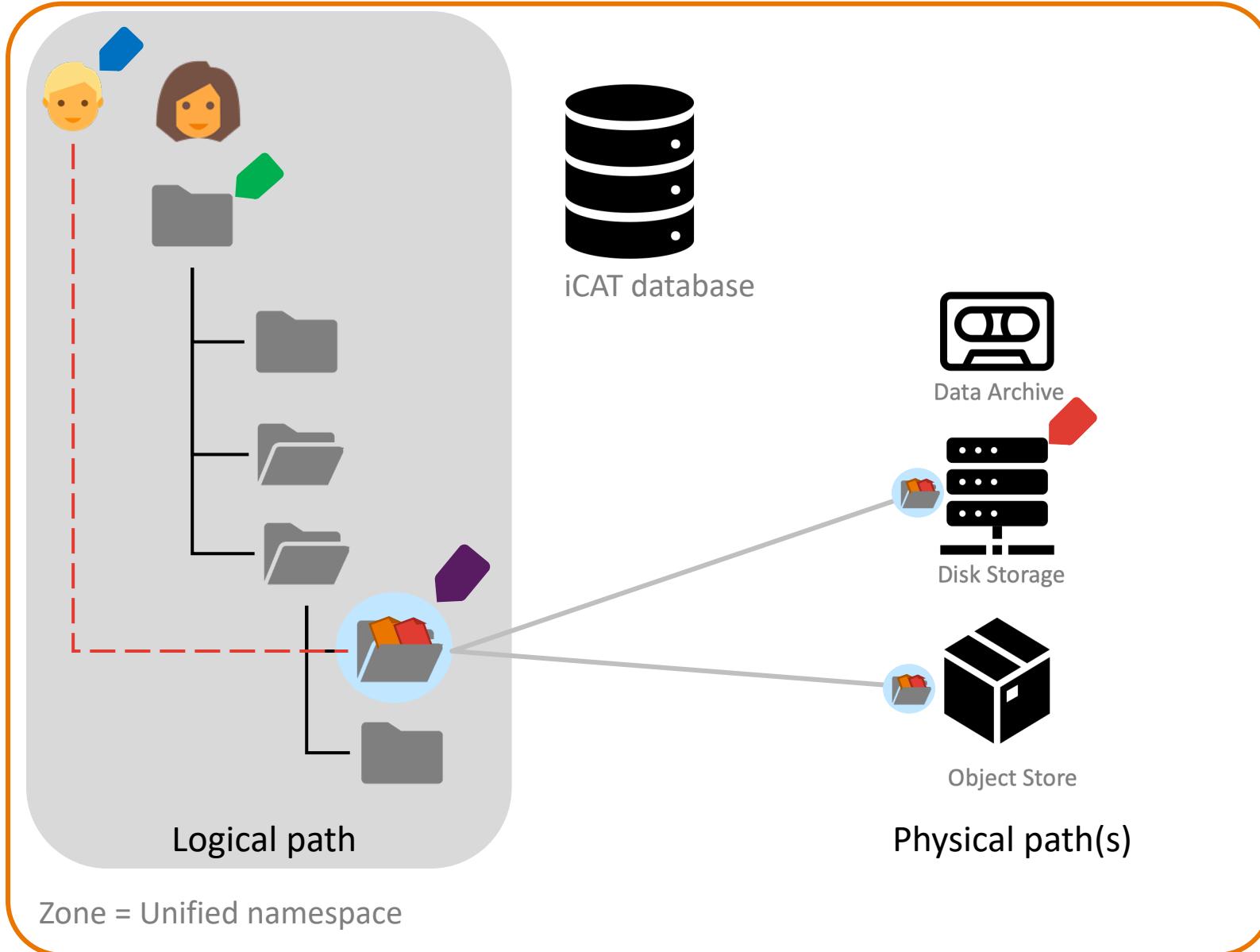
python™

SURF

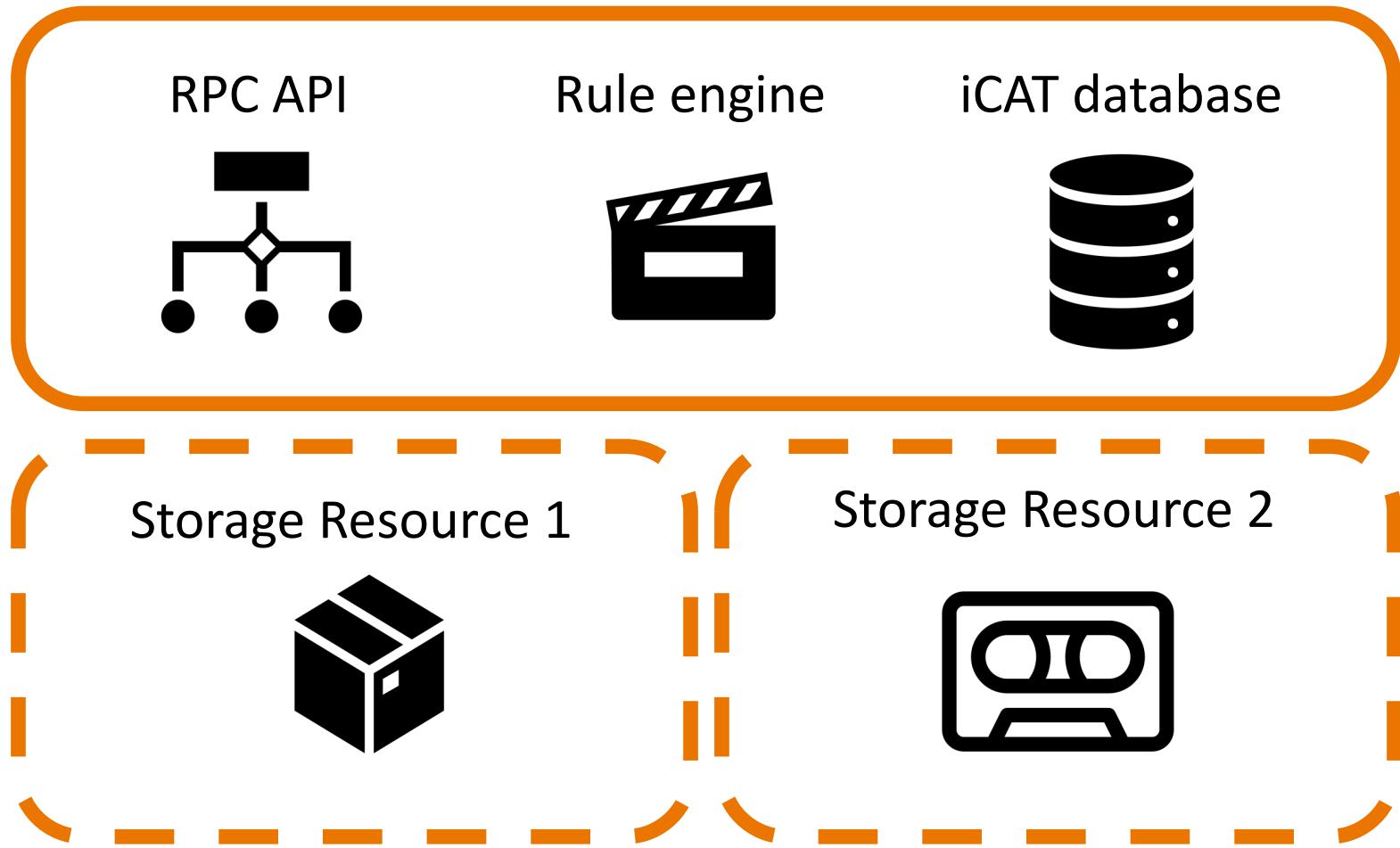
High level perspective of iRODS components



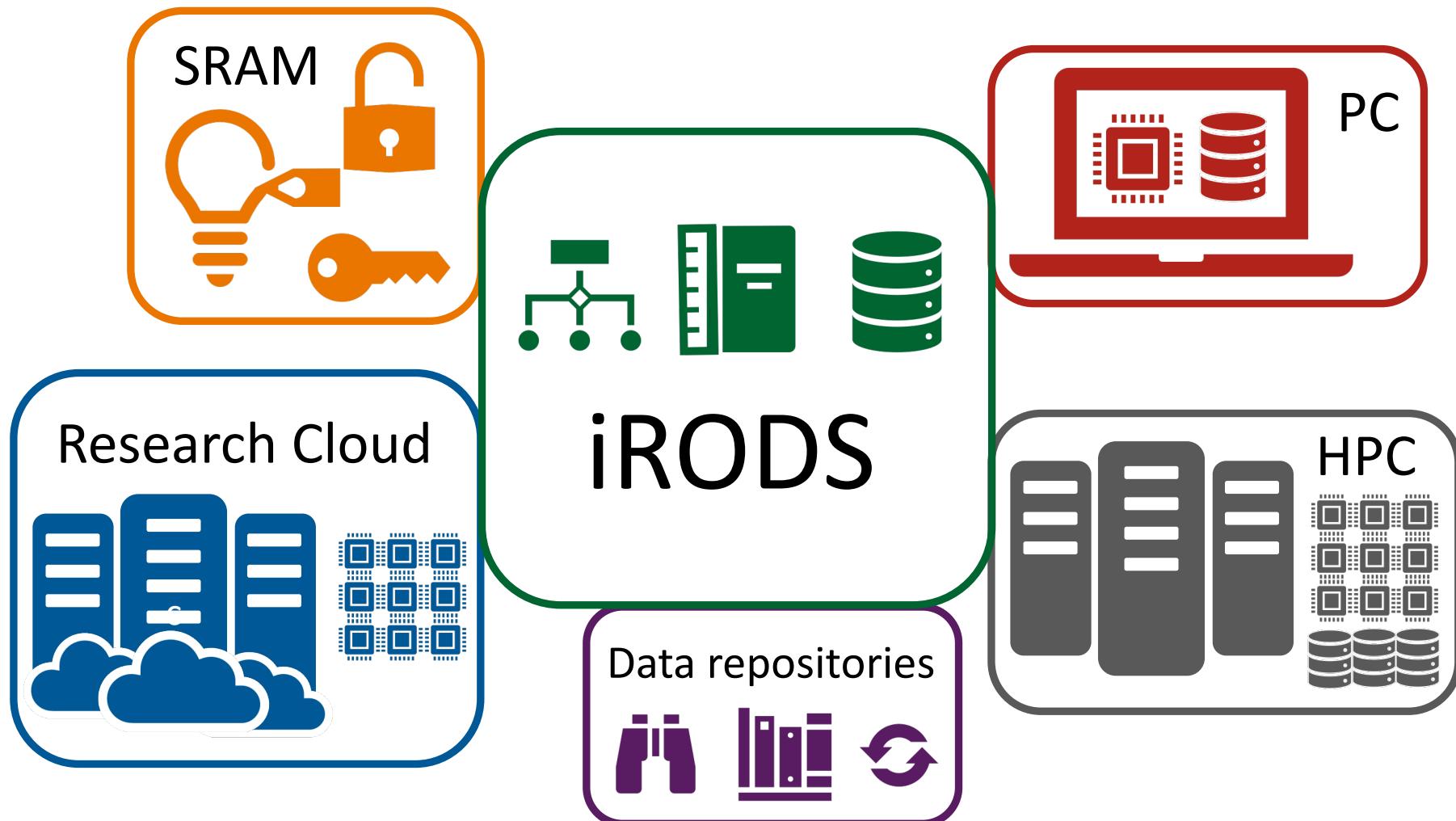
Perspective iRODS from the user



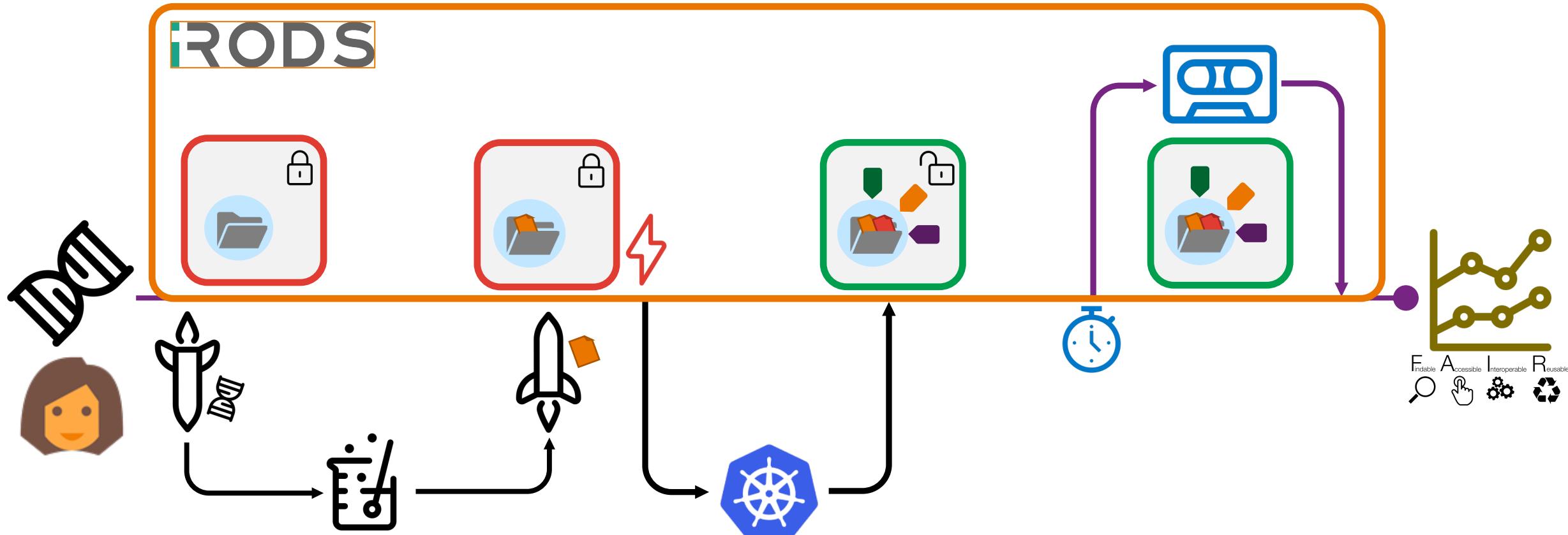
High level perspective of iRODS components



iRODS is designed to connect

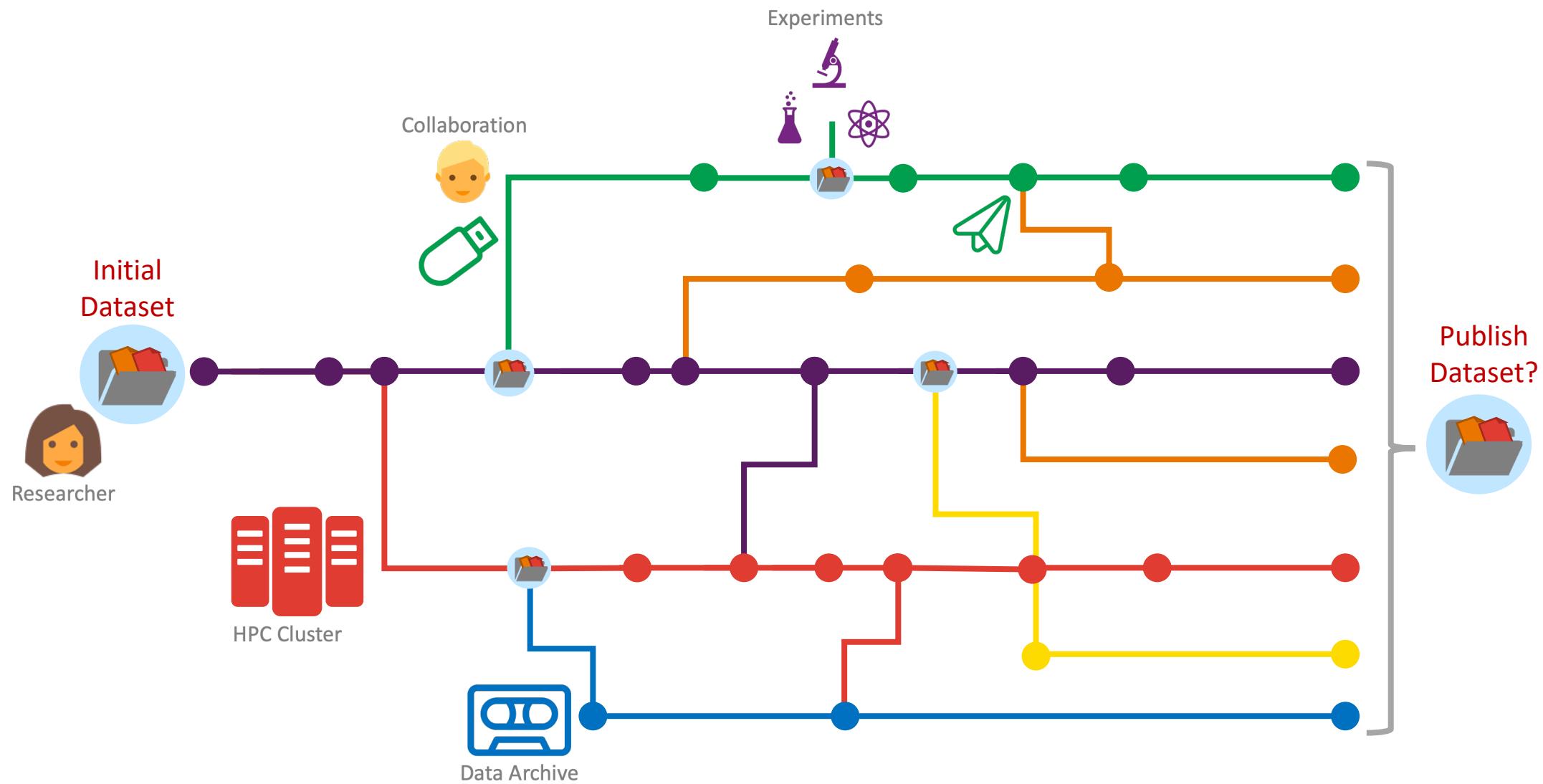


iRODS User journey: automated data processing pipeline



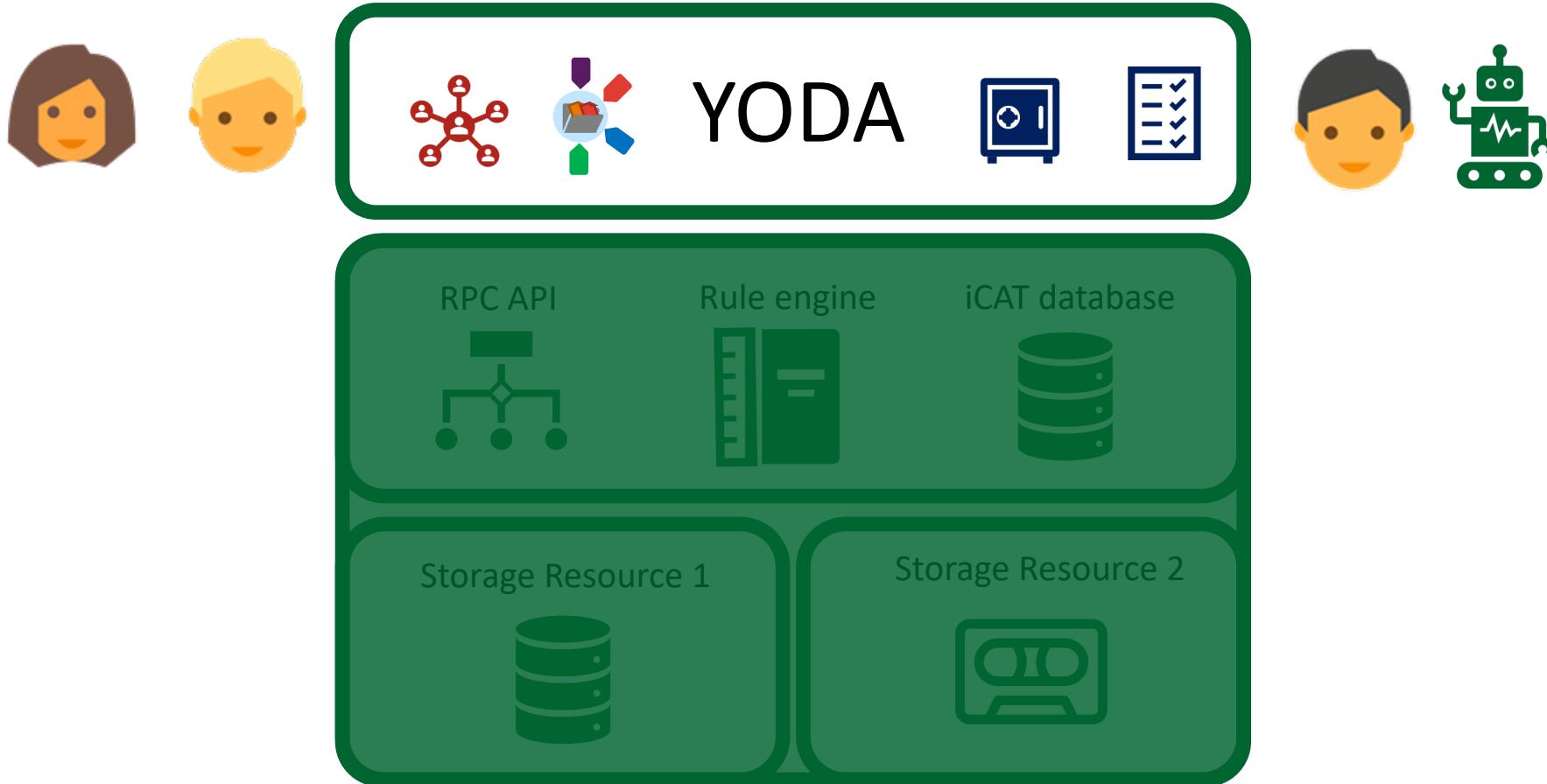
SURF

What a diff'rence 20 slides makes



SURF

iRODS with YODA web portal and YODA rules installed



Hands on for data processing with iRODS

- Learn about iRODS concepts: data objects, collections, metadata handling, querying
- Learn how to handle data via iRODS icommands
- Learn how to find data based on metadata and use it in a compute job

