Materials Cloud, a platform for open computational science -FAIR: findable, accessible, interoperable, reusable -open science platforms aim to replicate the publicity of platforms that share source code (i.e. github, bitbucket, gitlab) support + adopt open-source simulation codes/analytic tools; 2. provide open-souce framework for defining/managing comp. workflows; 3. offer turnkey solutions from open-source workflows and curated open datasets; 4. enable FAIR sharing of data and workflows -Material cloud: learn, work, discover, explore, archive Target audience Students and experts in LEARN Dissemination of educational and Video lectures and tutorials Partners; other Open, no registration computational materials science research content submissions considered Online simulations tools and Researchers in computational Dissemination of open simulation Open, with registration for AiiDAlab Partners; other WORK services; redeployable locally materials science services and tools submissions considered Curated datasets of calculated Dissemination of calculated materials DISCOVER Researchers in materials science Partners; other Open, no registration materials properties properties submissions considered Researchers in computational Exploration and query of the raw data and provenance of AiiDA workflows EXPLORE AiiDA databases and their graphs Open, no registration Open, with registration Computational data in any format; experimental data linked to computational data Researchers in materials science; FAIR research data dissemination ARCHIVE Open, no registration Open, with registration data scientists and storage -large focus on reproducibility -AiiDA: automated workflows for computational science -Jupyter notebooks contain instructions for AiiDA workflow manager —> interactive web apps. -Data preservation highlighted for Materials Cloud, even after the research funding is depleted -Modular architecture

the FAIR method of computational science as well as prolonging data longevity. The platform acts in a way which is similar to GitHub in which it is a centralized system for data storage whilst easily accessible to the public.

This paper discusses the platform Materials Cloud and its role as an "open-science" platform. It aims to follow