







## Atomic Units of Knowledge in Research Objects How FDOs Targeting Different Use Cases can Collaborate



## Infrastructure LAYER

**OPEN STATE** 

Distributed architecture

PORTABLE

Not bound to platform

**FAIR** 

Machine actionable

**PERSISTENT** 

Minimize social contracts

**POWERFUL** 

PIDs as APIs

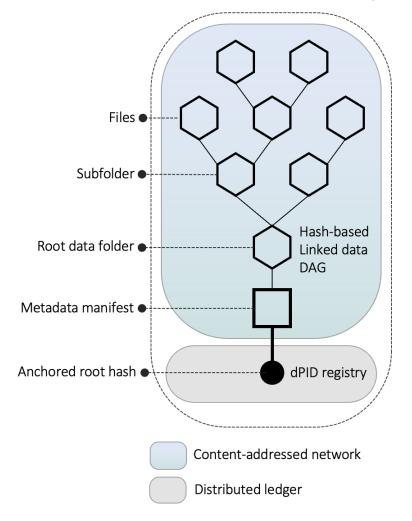
From Open State social graphs



To Open State research objects



Anchoring hash-based linked data on a decentralized PID registry



# Beyond Data Cataloging

MACHINE RESOLUTION

Al-actionable

IMPORT PAPER

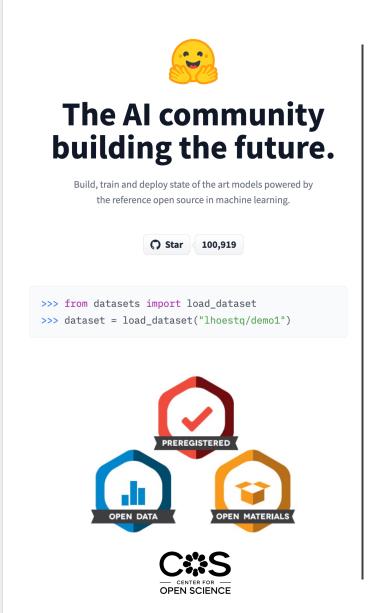
Re-use easily

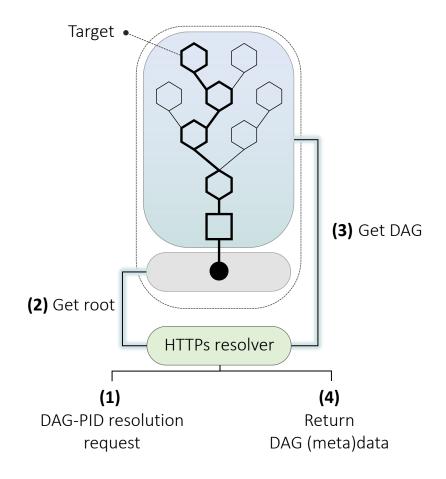
**EDGE COMPUTE** 

Send programs to data

**ATTESTATIONS** 

Address for attestation





Open state read and write (Irrevocable API)

## Application LAYER

**COLLABORATIVE** 

Multiplayer

DYNAMIC

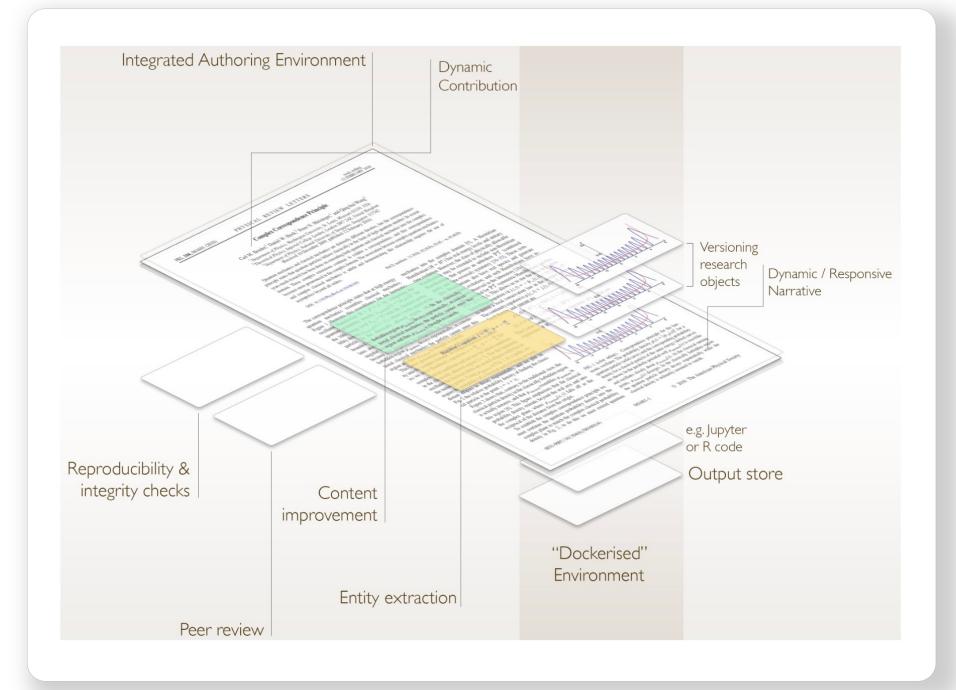
Versionable object

**OPEN** 

Record of esteem

CREATIVE

Combine components



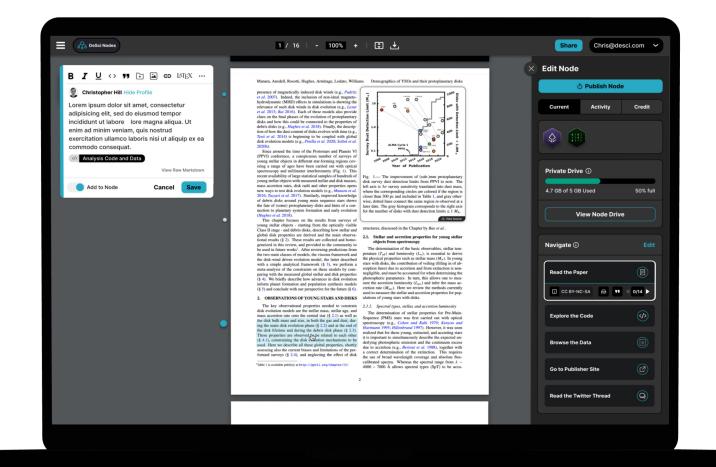
#### READER

Read/Annotate

CODE EXPLORER Explore code

DATA DRIVE Explore data

EDITOR
Build Research Object



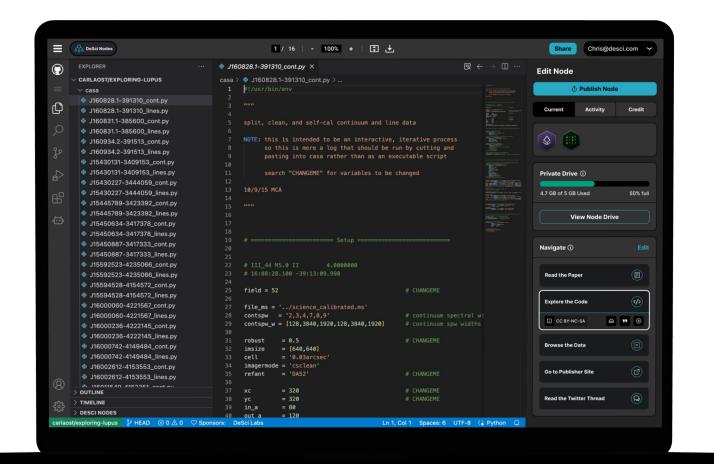
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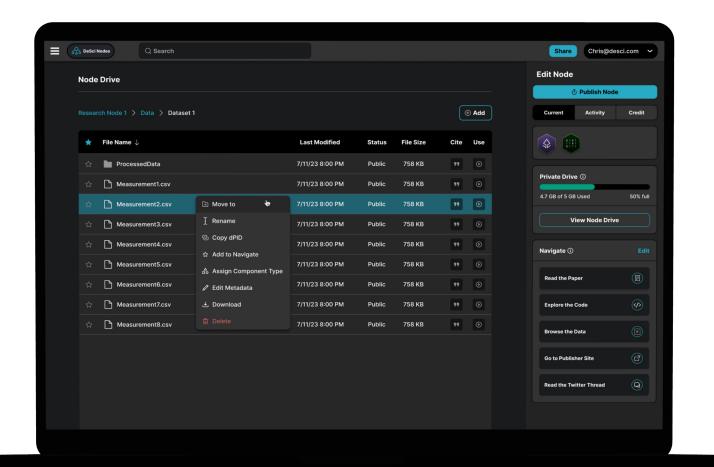


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