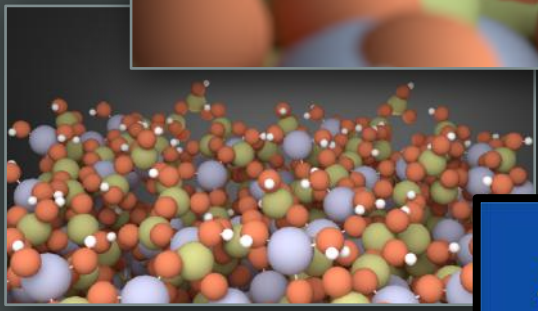
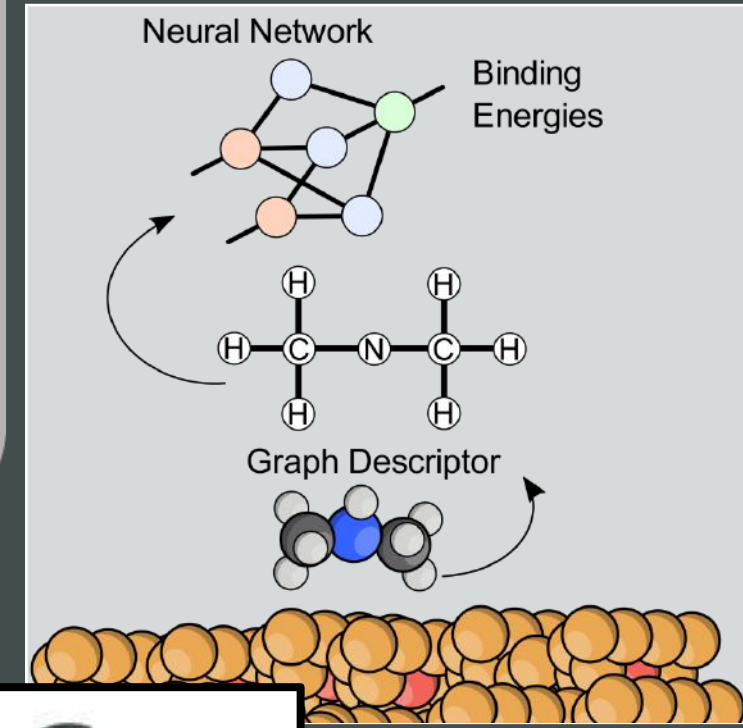
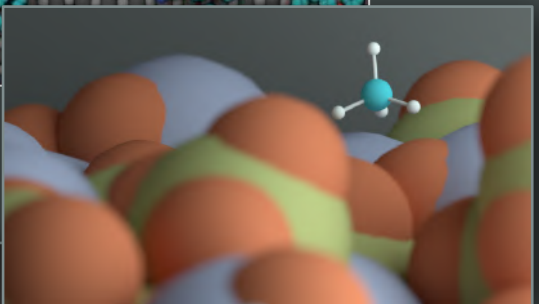
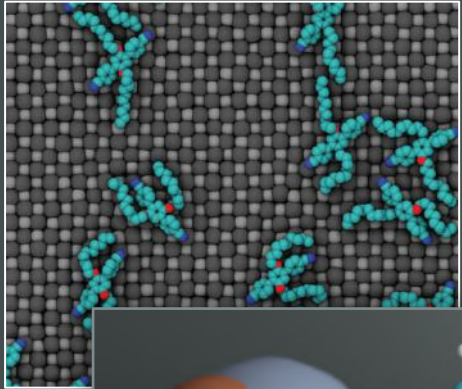
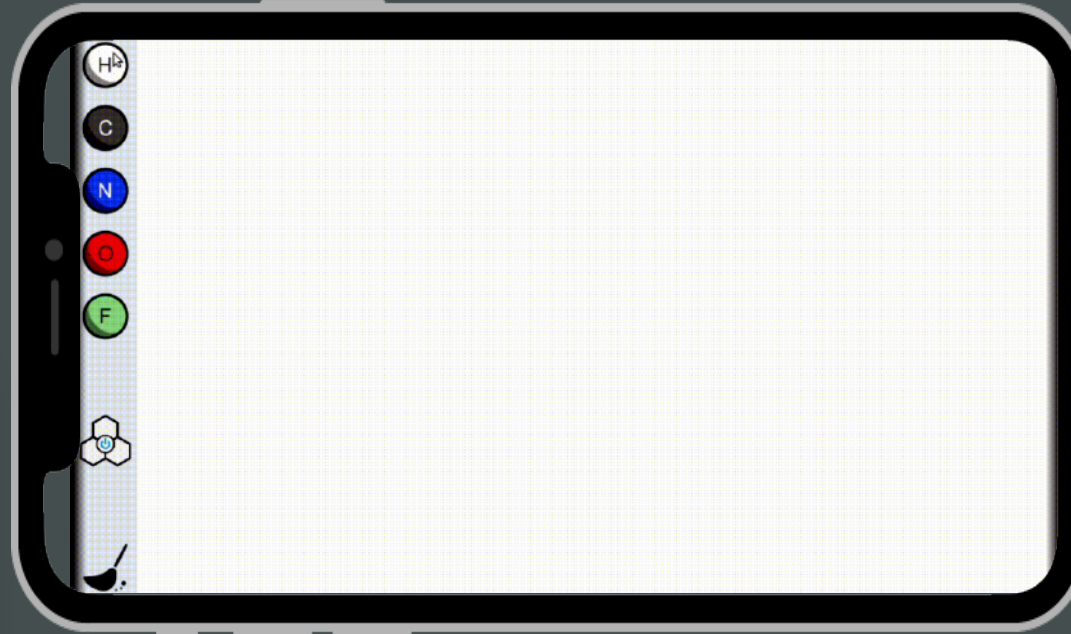


Leveraging Scientific Data for Materials Design



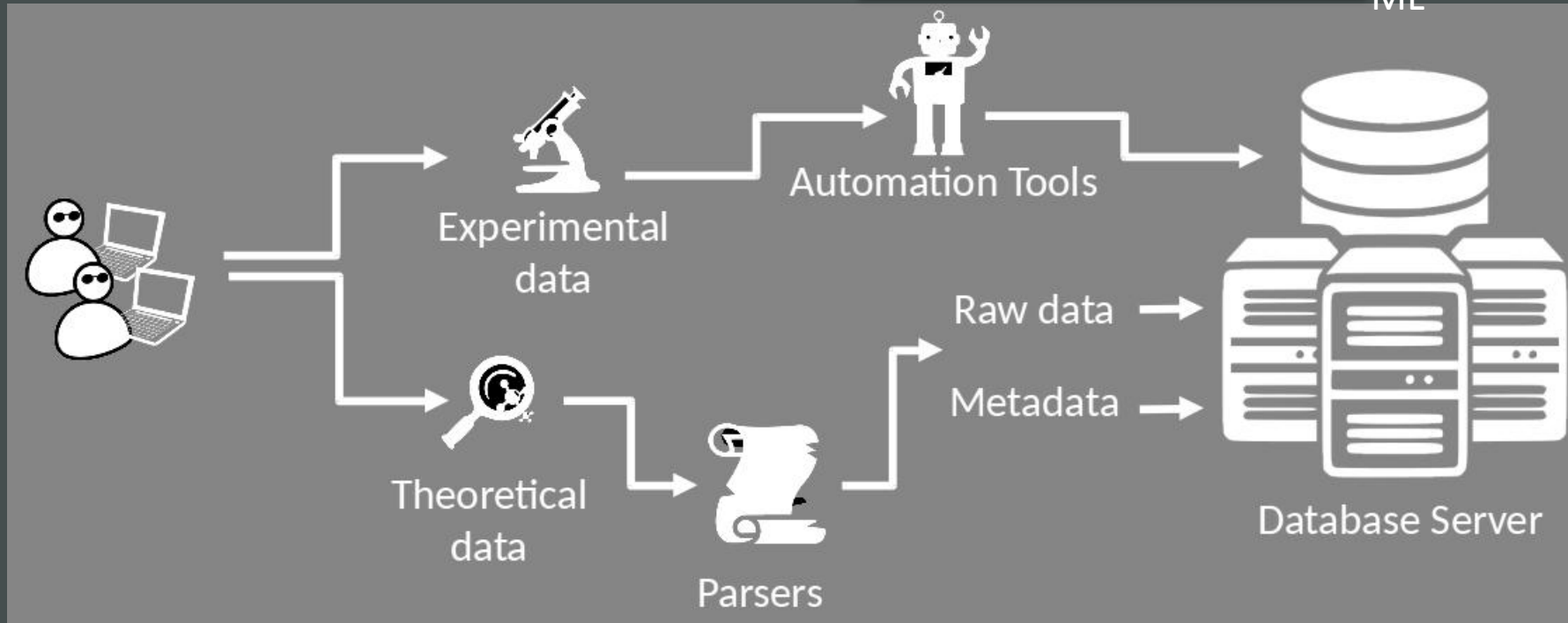
Integrating Experimental and Theoretical Data

Combining Bespoke Systems With Available Solutions

Open Source
Experimental
Repositories



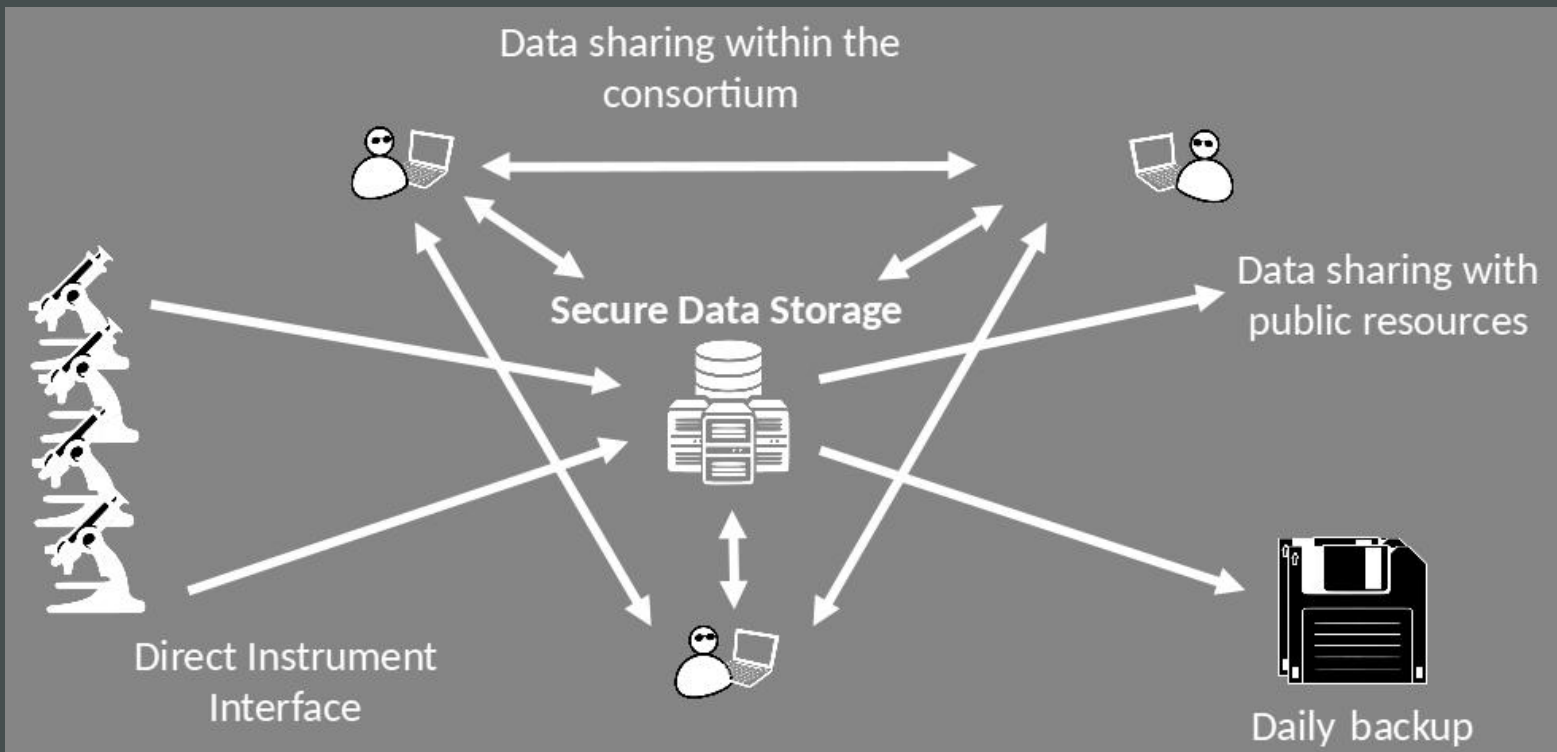
Bespoke Tools,
Image Recognition,
ML



Open Repositories
for Materials Data

Project Consortium Solutions

Data Management and Secure Storage



- Theoretical Data:
 - CWA for materials modelling – Terminology, classification and metadata
 - Review of Materials Modelling
- Experimental:
 - YAML based custom database with lightweight GUI

type: Experimental

state: Raw

type: Silica

support: TiO2

active_phase: Pd

CAS:

DOI:

ftir:

- probe_molecule: methane
- temperature: 273
- pressure: 1
- pretreat:
 - neutralized with base
- resolution:
- sampling_technique: transmittance



Tranquility

Powered by
 nanolayers
research computing

Data Type: State of Data:

Material: Support:

Promoters:

Author: CAS No: Date:

Search

Reset
Form