

# ODA Framework: Data Integration and Causal AI

## A Holistic View of Data

ODA Platform integrates and provides a holistic view of the multi-modal datasets that combines, for example in cancer care, genomic information with imaging, pathology, and clinical history as well as the most relevant scientific data and treatment options.

ODA's distributed computing platform delivers the power to compute and analyze your data at scale using a multi-modal data representation.

## ODA Platform Benefits

Save valuable time and gain accuracy in aggregation of all relevant data

Effectively integrate, analyze and visualize multiple data modalities

Select and analyze cohorts via multi-modal metrics

Optimize machine learning and statistical inference strategies fusing all aspects of your dataset

## Causal AI

Perform distributed causal inference at scale

Identify causal relationships rather than correlations

Benefit from interpretable causal models that suggest interventions

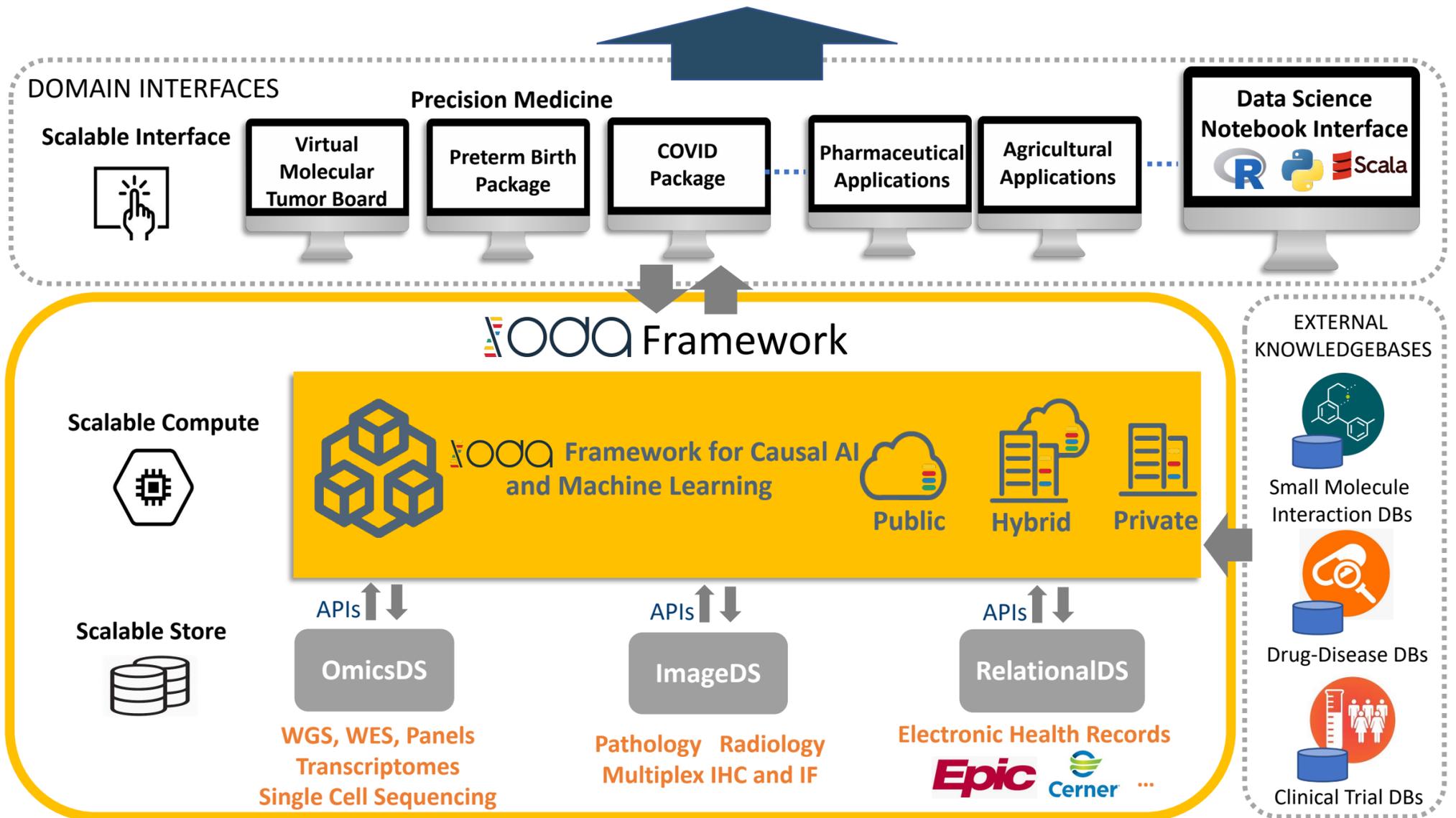
Ask and strategize with counterfactual what-if queries

Build interpretable machine learning models

Visualize causal interactions



**NOVEL INSIGHTS  
BETTER OUTCOMES**



## Your Data on the ODA Platform

Connect your data sources to the ODA Platform in your secure cloud or on-premise installation

Manage genomics, imaging and EHR data on specialized data stores

Leverage automated data ingestion

Visualize relationships in your data using 2D, 3D and VR

## Security and Compliance

Securely store and manage your genomics data efficiently in Omics Data Store on the ODA Platform

Securely store and manage your slide images in Image Data Store on the ODA Platform or connect to your image server

Support compliance with end to end audit logging

## Federated Learning

Leverage joint analysis over disparate datasets without sharing sensitive information

Increase  $N$  for greater precision

Model rare phenomena

Send Compute to Data

Only model statistics and updates are shared; individual patient data are not