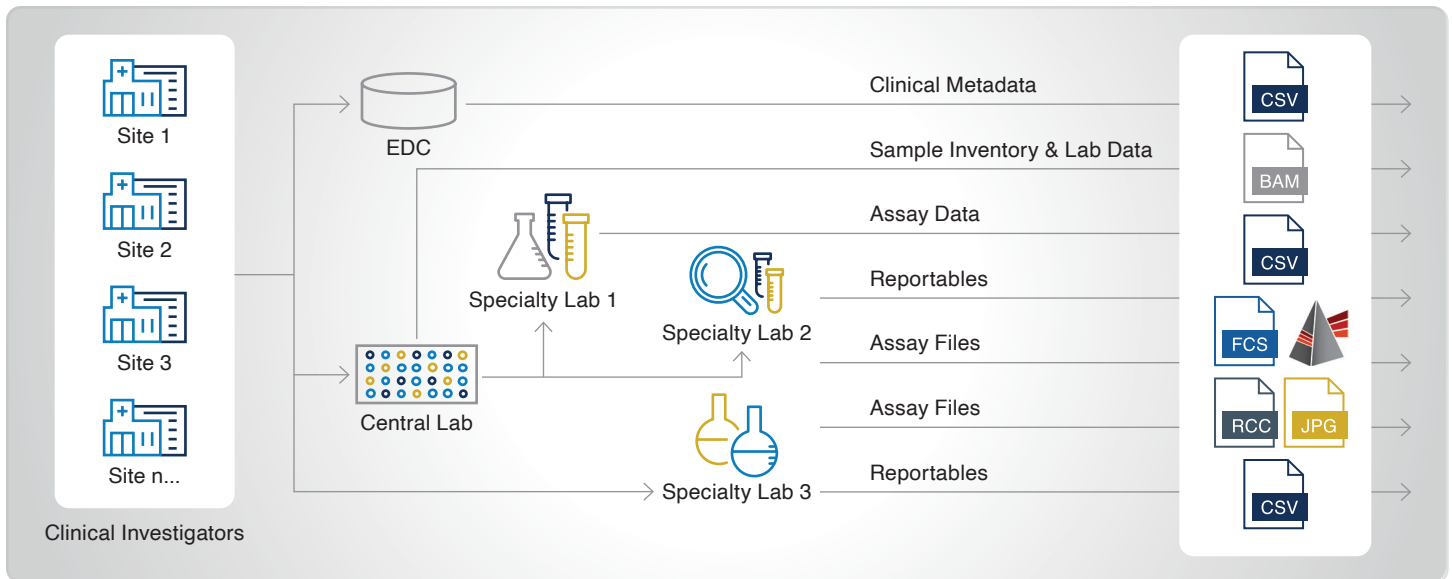# Biomarker Data Chaos in Modern Clinical Trials

Clinical trials frequently generate complex exploratory biomarker data, supported by a distributed network of specialty labs, which results in siloed data formats and inconsistent annotations across labs.

Clinical, PK, and biomarker assay data (e.g. 'omics, flow cytometry, IHC/mIF) exist in disconnected systems, creating data silos that act as barriers to analysis

Siloed data requires manual and time-consuming efforts to compile and prepare the right information for any individual analysis

QuartzBio's Technology-enabled Solutions Centralize & Harmonize Historically Siloed Data

Data Acquisition & Indexing

Harmonize data from any lab and data type – no required data structures

Processing & Smart Mapping

Processing and QC pipelines map metadata to a common data dictionary for sample, patient, cohort, assay, visit, and more.

Data Platform: Flexible Collaboration

Access data via API or web-based UI to sort and export data to Prism, Spotfire, or CSV formats

Integrating Diverse Data in One Unified Platform

The QuartzBio® data platform is purpose built to centralize and integrate biomarker, PK, and clinical data silos – enabling translational and clinical teams to spend less time "wrangling" data, and reach insights more efficiently

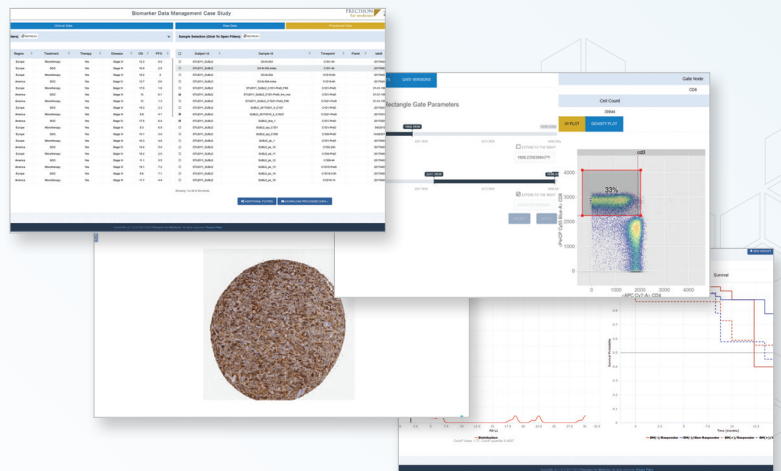|	
EDC & eTMF Clinical Data	ORACLE Health Sciences InForm · OpenClinica · medidata RAVE · castor · REDCap · medrio
Central Labs Assay Data	eurofins · ICON · PRA Health Sciences · COVANCE · PPD
Specialty and Screening Labs Assay Data	AKOYA BIOSCIENCES · Q² Solutions · parexel · PGDx Personal Genome Diagnostics · ALTASCIENCES · Quest Diagnostics · NEO GENOMICS · PBL Pacific BioLabs · BioAgilytix · htl BIOTECHNOLOGY · PRECISION for medicine · UNIVERSITY OF OXFORD
Biorepositories Sample Data	EPL ARCHIVES · avantor · ATCC · labcorp · PRECISION for medicine
Public Data Sources	TCGA · CGCI CANCER GENOME CHARACTERIZATION INITIATIVE · GEO Gene Expression Omnibus · CCLE Cancer Cell Line Encyclopedia · reactome

PRECISION quartzbio®

The QuartzBio® Data Platform

All your data in one location – findable, downloadable, analysis-ready

- Harmonize biomarker data from sites, central and third-party labs with clinical metadata
- Assay-agnostic system accommodates complex biomarker data including FCS, RCC, VCF, BAM, image files & more
- Secure, 21CFR part 11 compliant audit trails

Designed for Translational Exploration & Collaboration

- Web-based user interface provides visualization, reporting, and deep analytical capabilities for easy collaboration within and across studies
- No-code analytics facilitate interrogation of 'omics, flow cytometry, and imaging data - across subject IDs, time points, response status, and treatment groups.
- Centralized data accessible via API, or downloaded through web-based UI with rapid filtering and flexible export options.

Built on a foundation of experience & evidence

- Deployed Across Hundreds of Active Clinical Programs
- >90% Client Retention

Learn more at
www.quartzbio.com/biomarker-data-management

PRECISION
for medicine