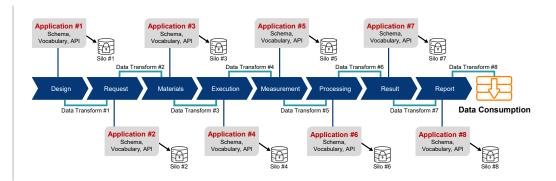


# Data Strategies

**Allotrope Foundation** is a consortium of chemical & life sciences companies formed in 2013 to revolutionize the way we acquire, share and gain insights from scientific data through the application of community-derived data standards consistently delivered via an extensible technology framework.

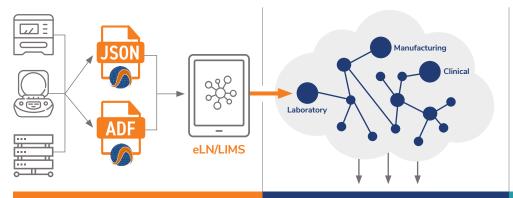
## The Current State of Research and Development is too Application-Centric

Data generated throughout R&D and Operations relies on numerous software applications and tends to be stored in multiple places. Data are transformed using many custom parsers or application programming interfaces (APIs) throughout the workflow. This approach adds unnecessary complexity and fragility to the process. There is a better way.



## The Future State: Allotrope Standard Enabled Data Centric R&D

#### Accelerate Data Standardization To Deliver Business Value





#### **DATA AUTOMATION**

"Low Code" data flow automation via Allotrope standard instrument data output.

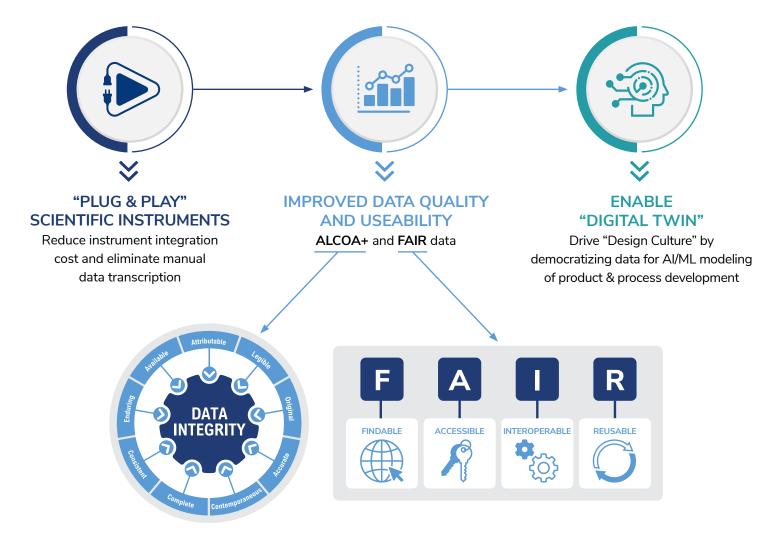
#### SEMANTIC DATA LAKE

Democratize scientific data via ALCOA+ and FAIR enterprise data lake.

#### AI/ML DATA ANALYTICS

Enable machine data query for visualization, analytics and AI/ML modeling.

## **Business Value Delivery**





# Synergize Value Delivery Across Other Data Standardization Initiatives

Allotrope Foundation's data strategies can be used as an important component of an organization's overall data strategy.

# Join the Community

Allotrope.org | more.info@allotrope.org



Foundation membership is available to any company in the pharmaceutical, biotechnology, food, chemical, consumer products, or environmental industries which utilizes analytical or other laboratory methods.\*



APN membership is available to companies providing hardware, software, or consulting services, academic institutions, research institutions, and government agencies.\*

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