

# Moving forward the Allotrope Transformation

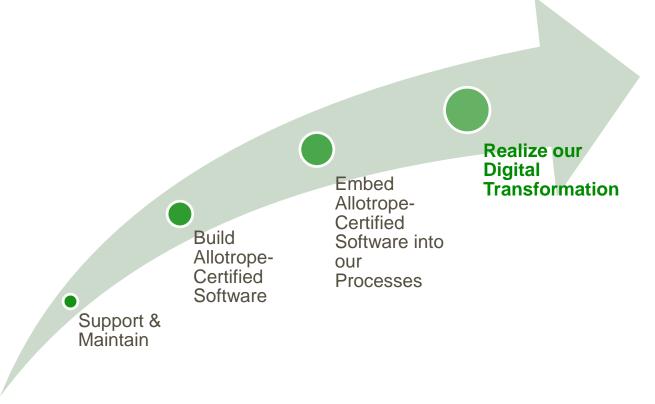
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### Celebrate our successes

- 1. Stand back and think about it... you/we've done something amazing!
- 2. As a pre-competitive consortium we have
  - developed and delivered a foundational technology designed to address nearly every pain point in our data lifecycle
  - given our senior leaders across IT / Tech and "the business" a toolkit they can use to revolutionize their digital data and analytics
  - created a large community of competitors that is collaborating
  - created a better approach to how pharma will receive and use commercial off-the-shelf software

### The Allotrope Framework

is ready to use as a foundation in our digital transformation



### Success means commercial software in use in our companies

- 1. The Framework is now fit for purpose new enhancements to it should be made primarily through the development of commercial solutions
- 2. Pharma companies should be helping the vendor community use the Framework (and enhance it where necessary) to develop software to meet industry needs
- 3. APN vendor companies should bring their own new innovative Framework-enabled solutions forward (and engage their own senior leadership and development teams to ensure this happens)

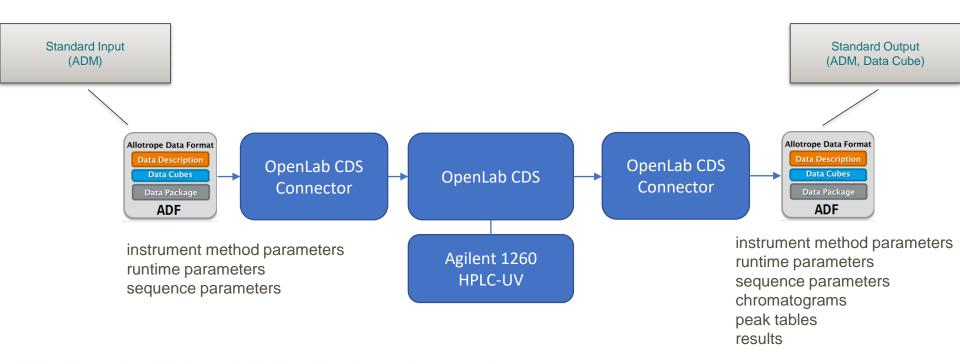
#### **EXAMPLE:**

GSK and Agilent are collaborating to codevelop Framework-enabled solutions that target first-time-in-human (FIH) analytical activities. Senior leadership and development teams at both companies are engaged.

### Our path toward Framework-enabled solutions

- Objective: one public "digital standard" for LC-UV
- Others in Allotrope are delivering an LC-UV 'output' data converter and data model
- Our work is focused on how to utilize an LC-UV 'input' data connector and data model for use with any CDS, any instrument – a "digital method"
  - we are supporting the collaboration with Pistoia and Allotrope
  - we are testing the data model through use with software, instruments and experiments being run in laboratories at GSK and Agilent

### Our path toward Framework-enabled solutions



ADM = Allotrope Data Model, a standardized graph-based, semantic representation of metadata that has been approved through the Allotrope governance process (*i.e.*, a released, public digital standard)

### Agilent's Allotrope activities

Allotrope Connect Workshop Vélizy-Villacoublay

Ralph Mueller
Product Marketing Manager

April 9<sup>th</sup>, 2019





### Agilent Allotrope Engagement





#### **Active Projects**

#### Commercial

- ADFExport for OpenLab CDS ChemStation Rev. C.01.09
- ADFExport for OpenLab CDS Rev. 2.4

#### **Prototypes**

- ADFExport for ChemStation → for LC, GC, MS-SQ rawdata
- ADFExport for OpenLab CDS → for LC, GC, MS-SQ rawdata
- ECM ADF Filter: Upload, search ADF data and view using ADF Explorer
- <u>ECM WebServices</u>: ECM Server-side ADF export of ChemStation data

#### **Allotrope Integration Projects**

- GSK Collaboration
- Merck ADFExport
- BMS MassHunter BioConfirm
- Pistoia Alliance MethodDB
- MS metadata to ADF
- Lab balance integration

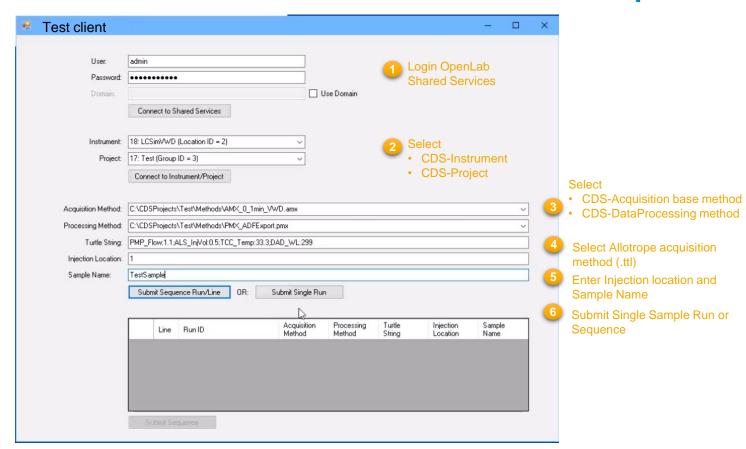
#### **Allotrope Contributions**

- Complete LC-UV model
- GC data model
- MS data model
- Raman Spec DataCube model



### Allotrope Integration Project\_GSK collaboration: OpenLab CDS connector OpenLab

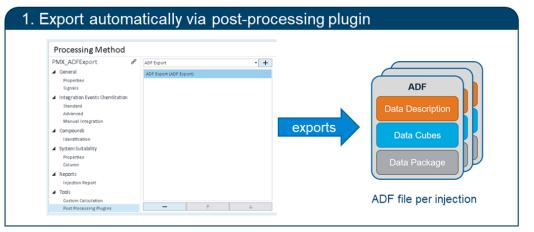
# Standard Input: Test client UI



### Agilent commercial product: ADFExport for OpenLab CDS



**Standard Output:** 



Automatically at the end of a run



Interactively from DA UI

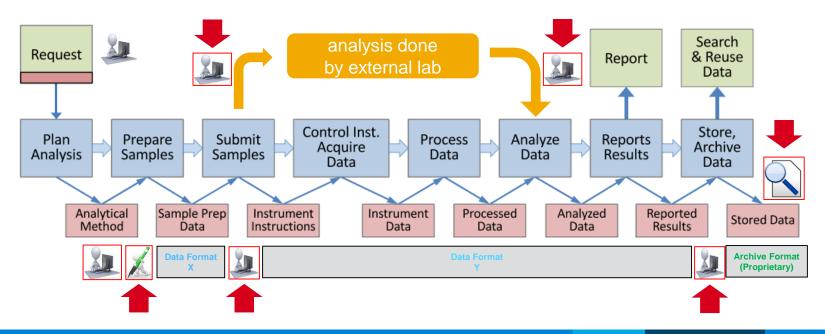


### Allotrope end-to-end workflows

## **Open**Lab

#### **Selection of Pharma pain points**

- Long-term archiving in a proprietary data format → not able to view data in 10-20 years
- Along the workflow no re-use of data because of data silos & different terminologies
- Not possible to efficiently exchange data with: external contract labs/ vendor proprietary formats









www.allotrope.org



