



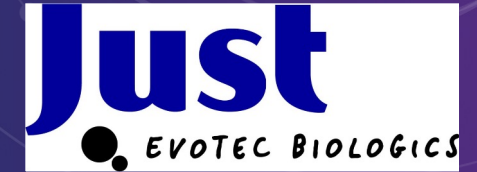
Building Data Infrastructure to Support and Expand Continuous Manufacturing

Andrew Williams

Process Engineer, Modeling,
Technical Operations



Disclaimer

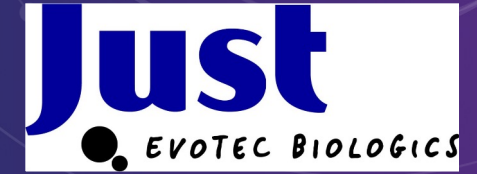


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Intro to Just-Evotec Biologics



Design and apply innovative technologies to dramatically expand global access to biotherapeutics



Highly Experienced Team

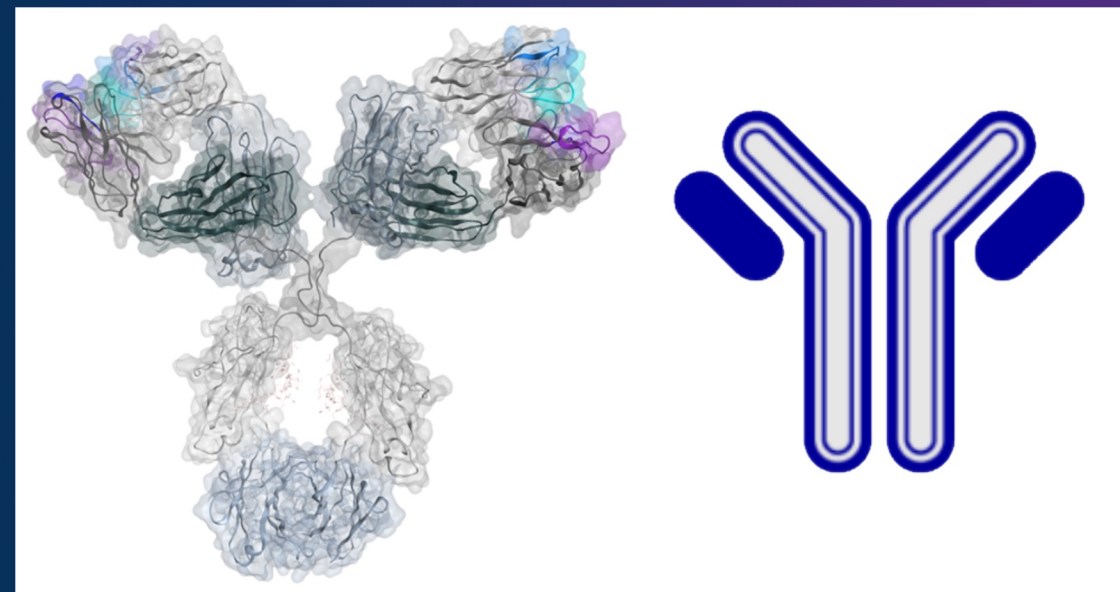
Integrated Technology Platform

Strategic Partnerships

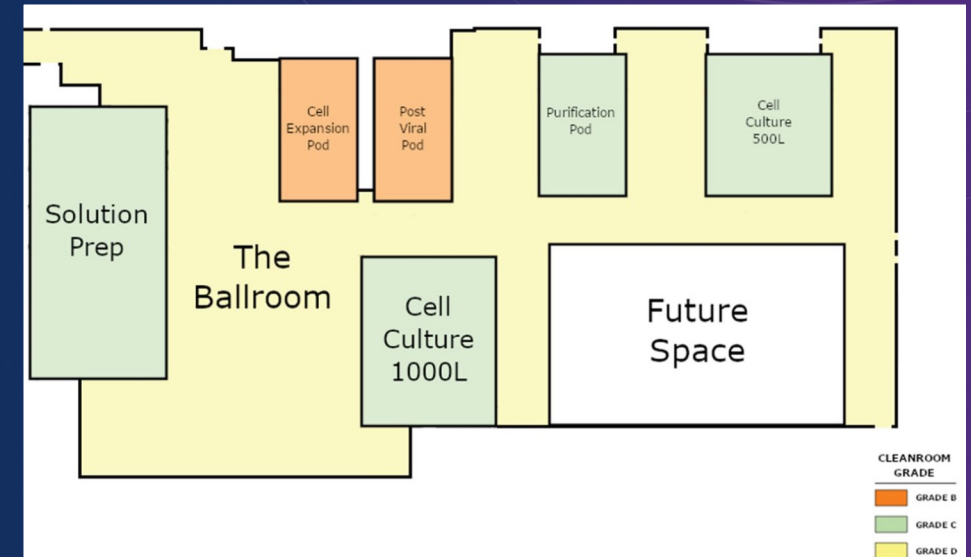
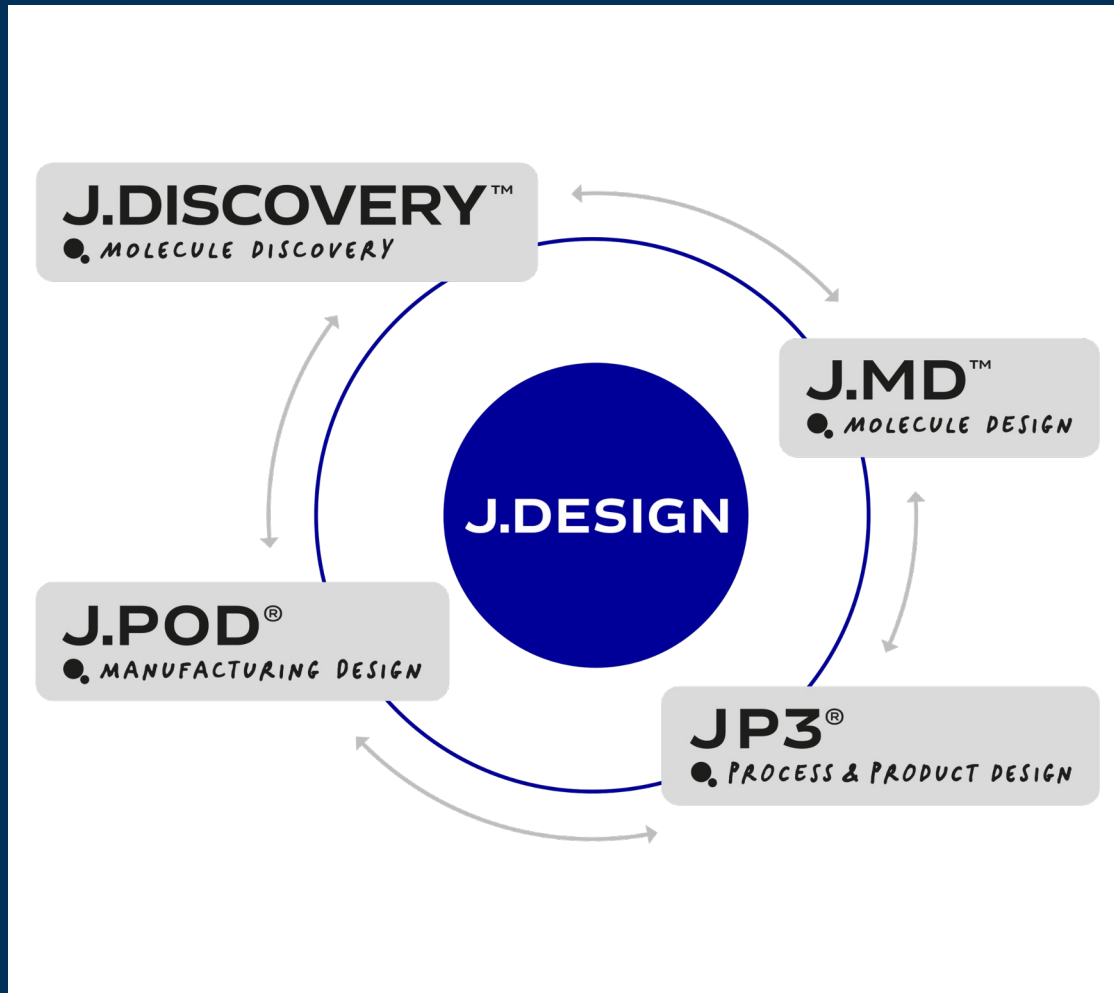
Where We Are and What We Make



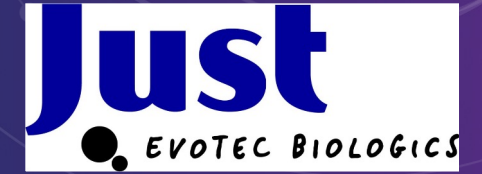
Monoclonal Antibodies



Our Integrated Production Platform

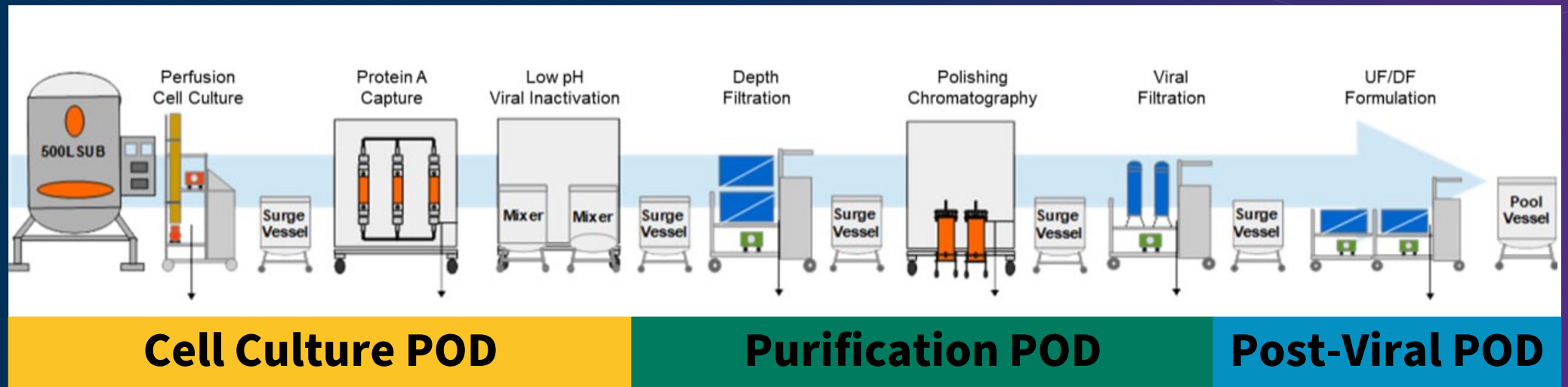


Our Continuous End-To-End Process



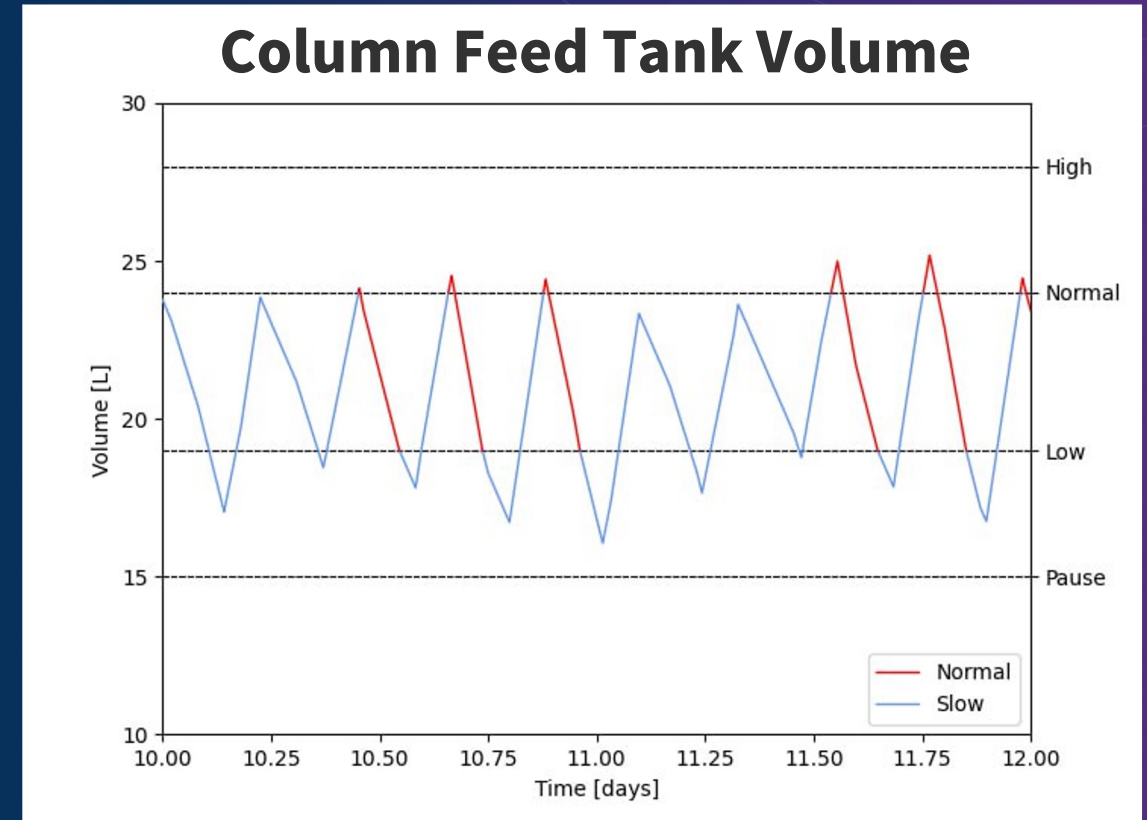
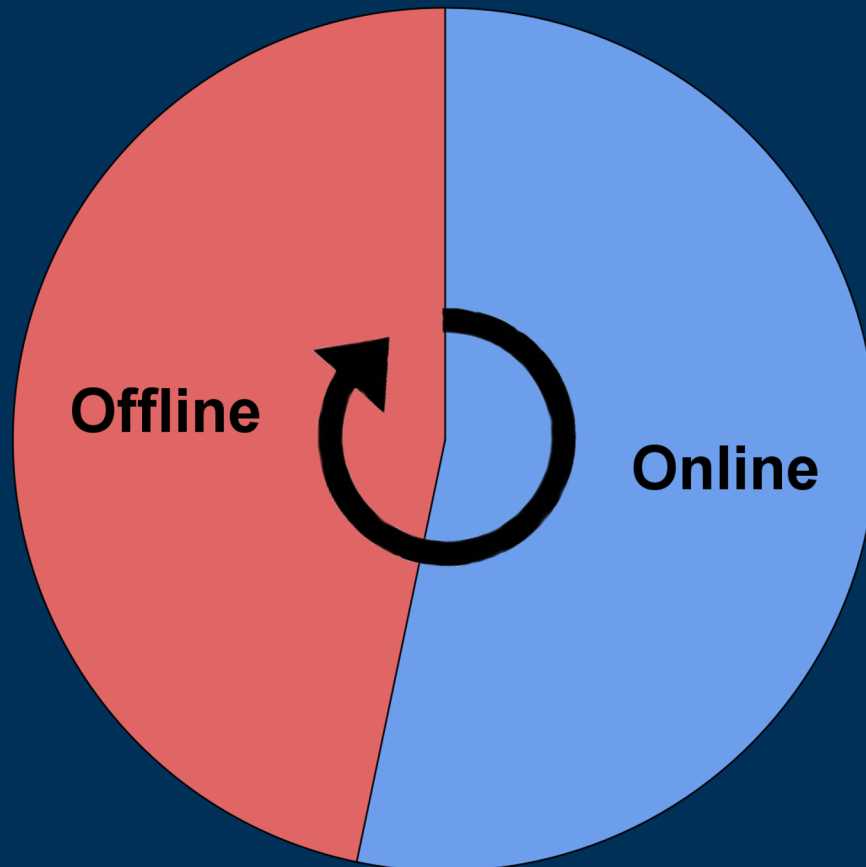
**Fully
Continuous
Process**

PODs

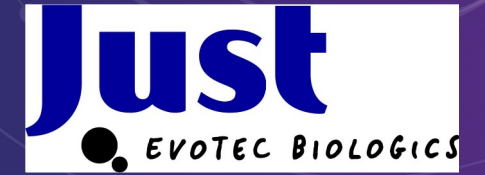


Examples of Process Automation

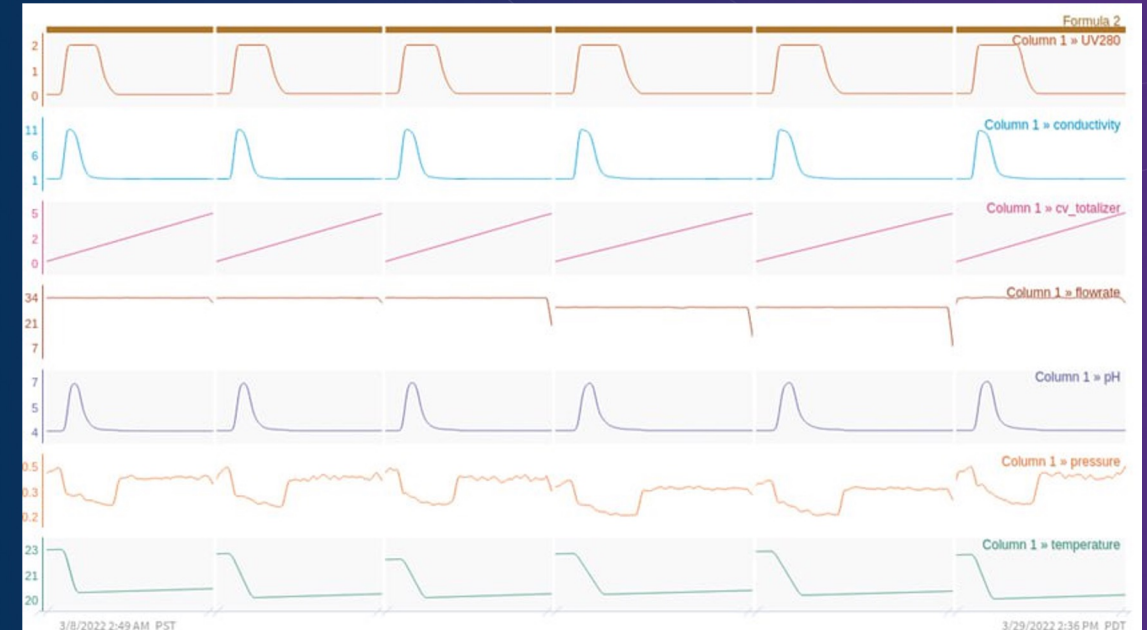
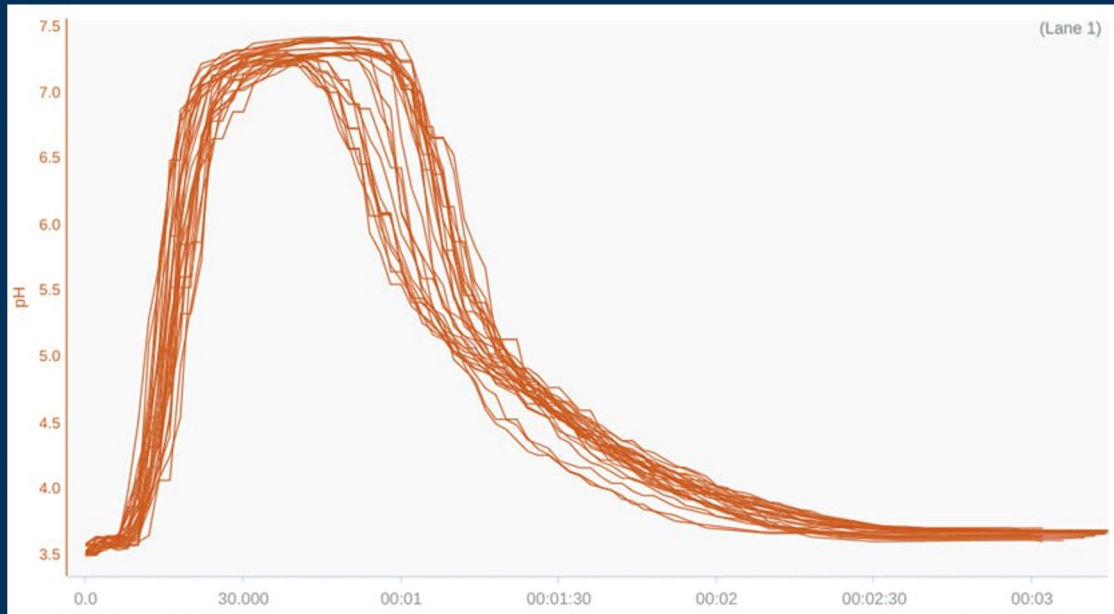
Chromatography Column Clock



How We Use Seeq

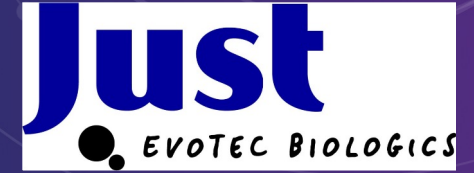


pH Cycling Plot



Column Health Model Parameters

Bringing Users and Data Together



CHALLENGE

Onboarding Users and Equipment into
Seq



SOLUTION

Designing New Data Infrastructure



RESULTS

Impacts of User-Oriented Design

Automation Tags



Automation Tag

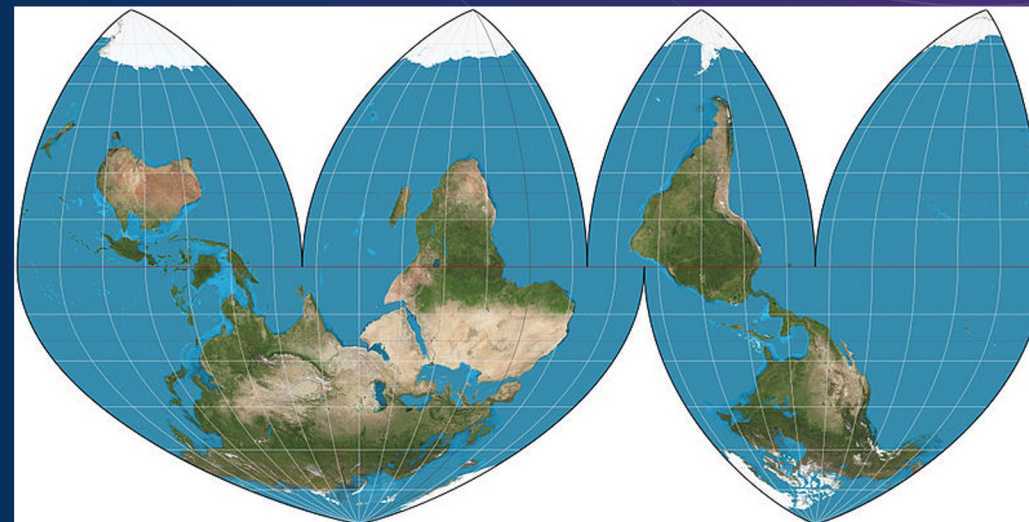
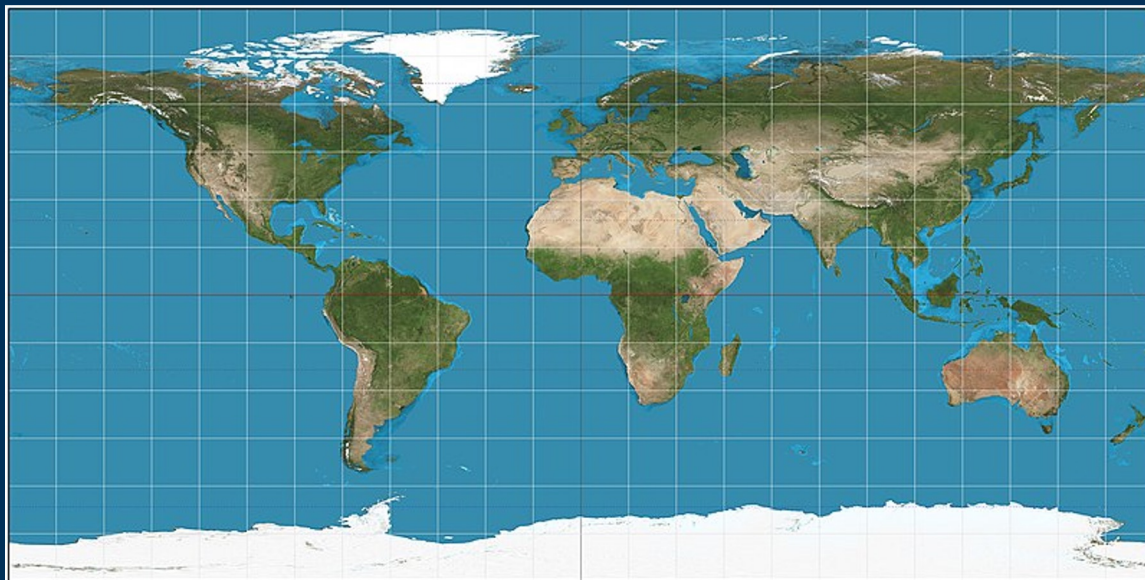


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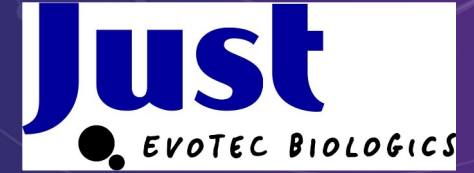


Too Many Large Workbooks

As an analogy, workbooks are like maps...



Solution: Designing New Data Infrastructure

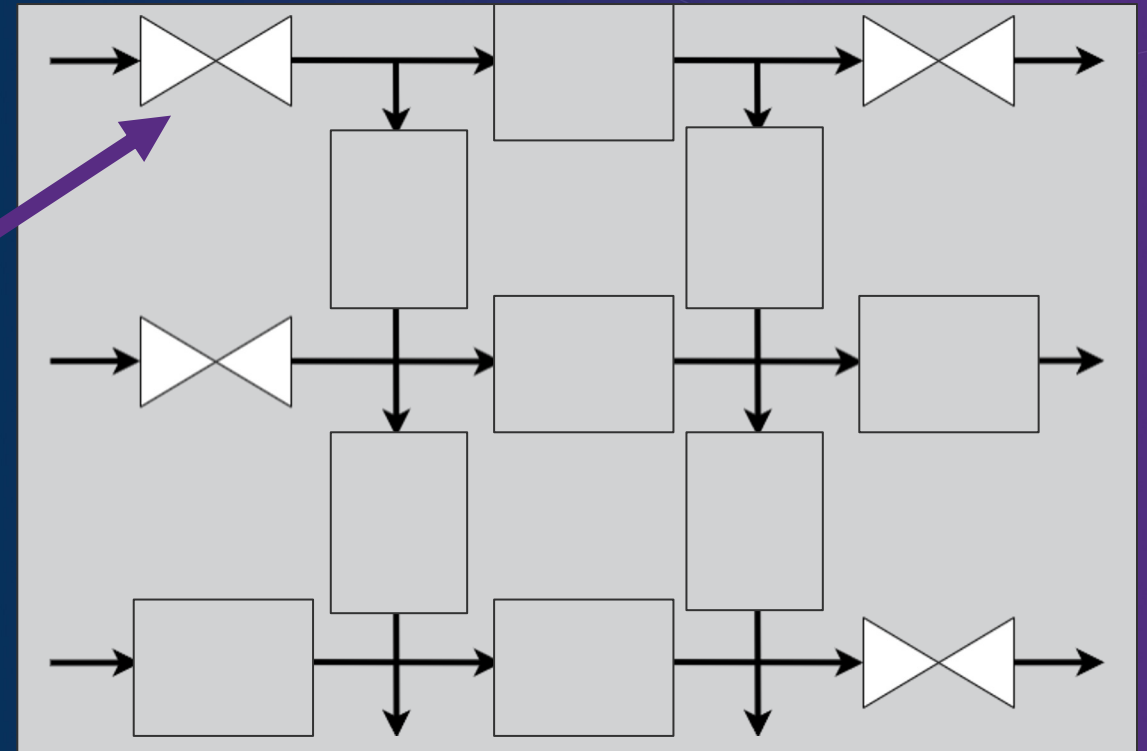


We want...

1. Users to be able to find what they are looking for easily
1. Common calculations and visuals to be standardized
1. A solution that can be automatically deployed for new equipment

Step 1: Renaming Automation Tags

Simplified Valve Manifold



Work with users to:

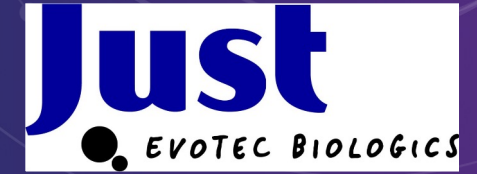
Identify what is relevant

Establish meaningful names

Tag: 2CS8221-V-A-13

New Name: Column 1 Feed Valve

Step 2: User-Oriented Asset Trees

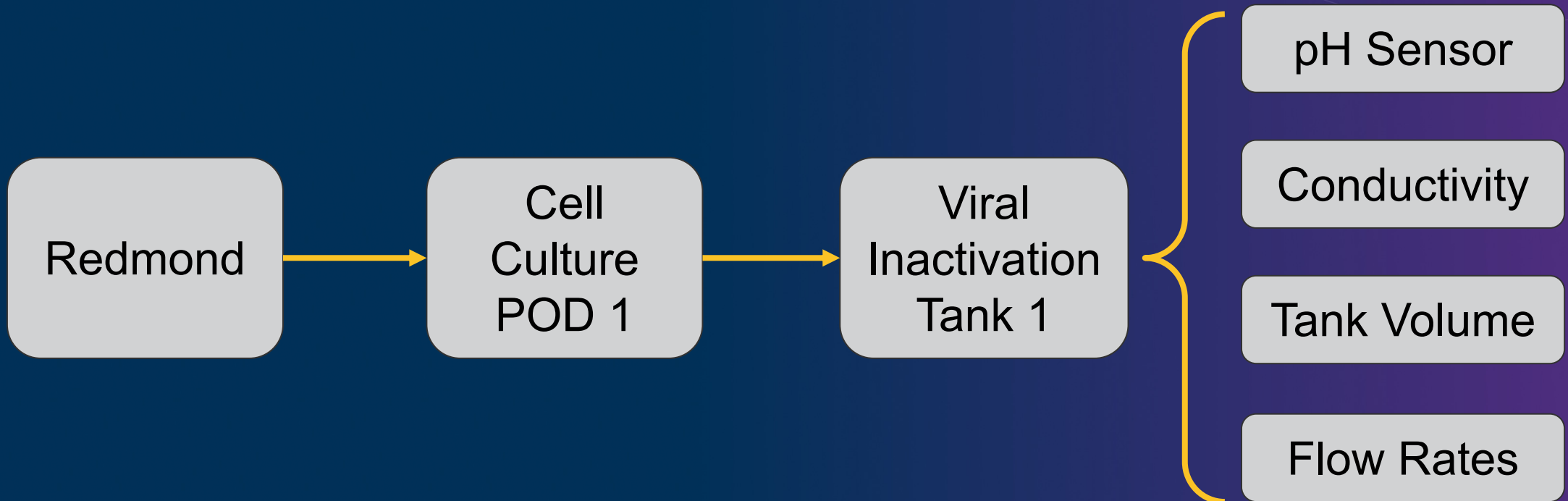


Facility

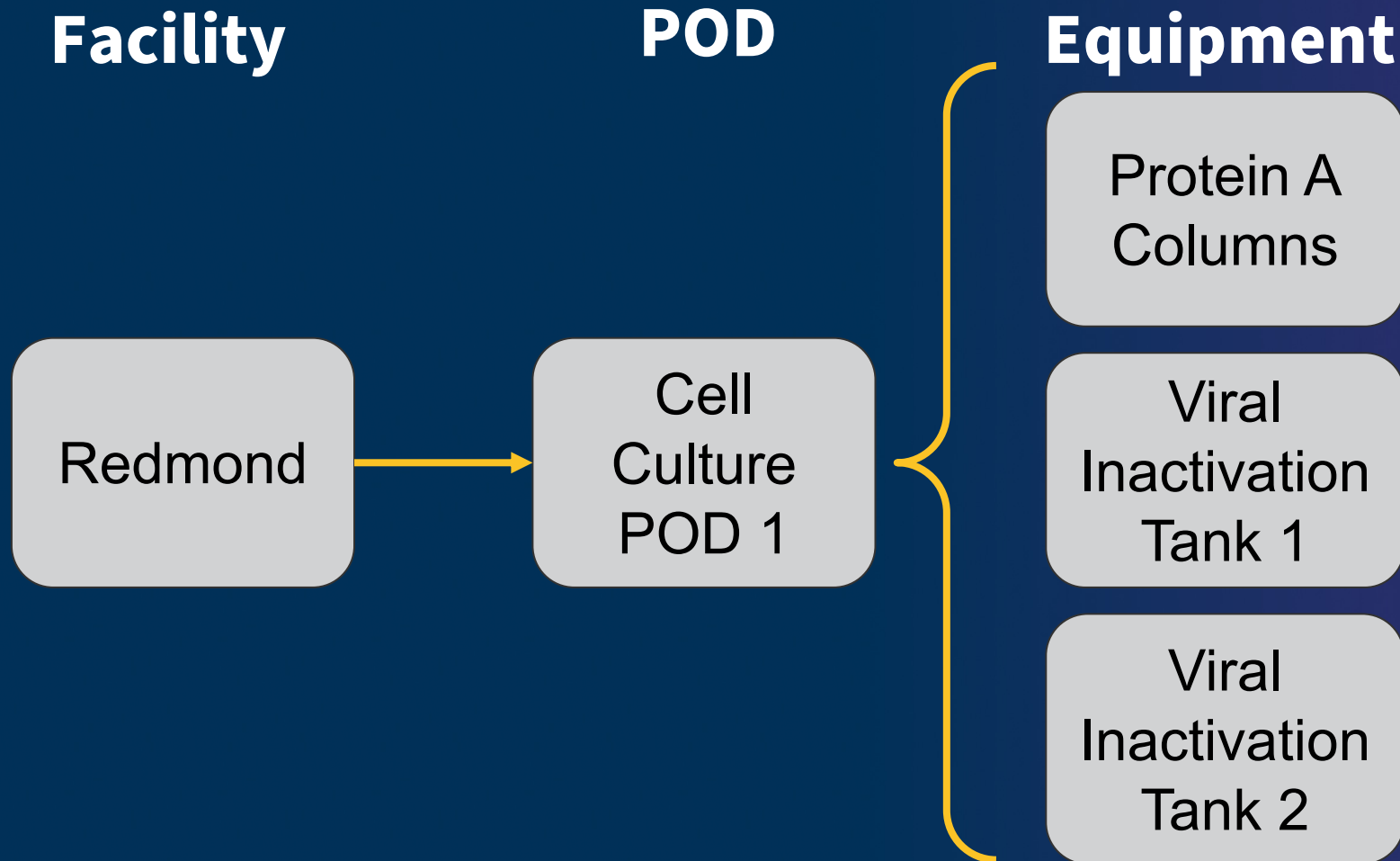
POD

Equipment

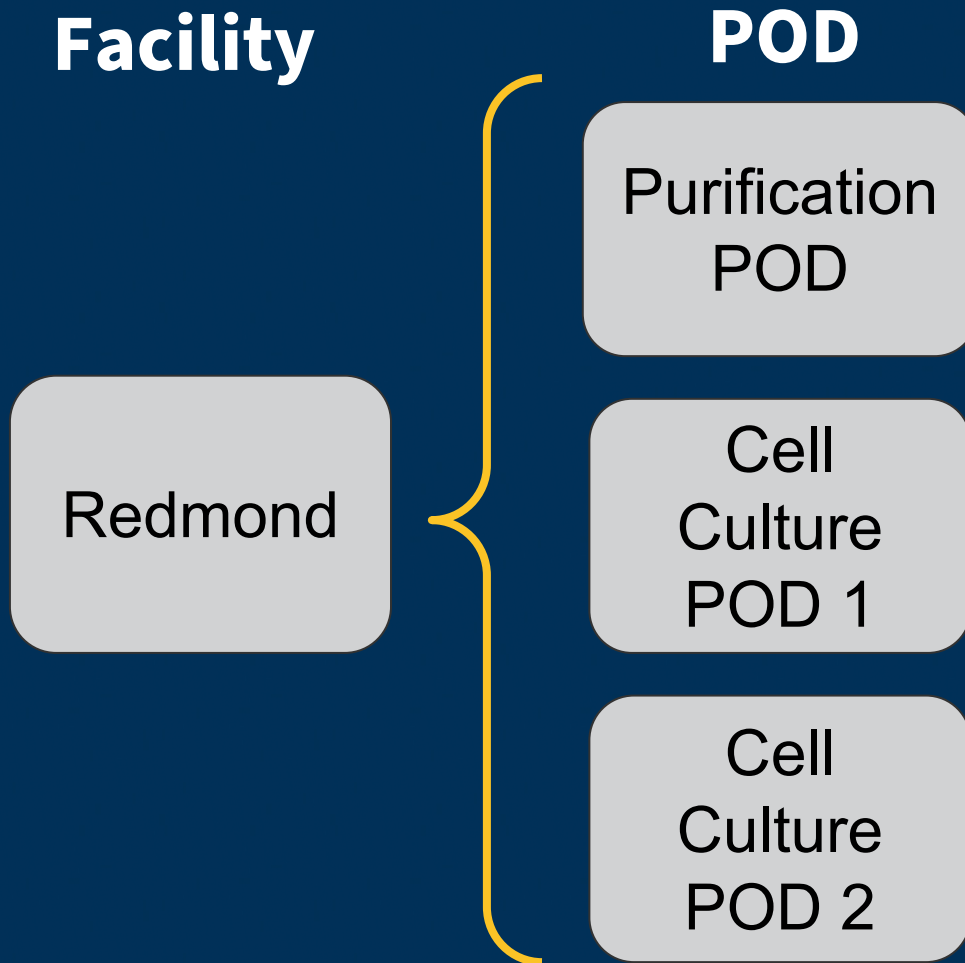
Signals



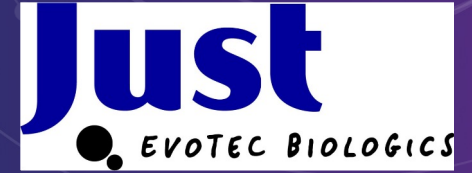
Step 2: User-Oriented Asset Trees



Step 2: User-Oriented Asset Trees



Step 2: User-Oriented Asset Trees



Facility

Redmond

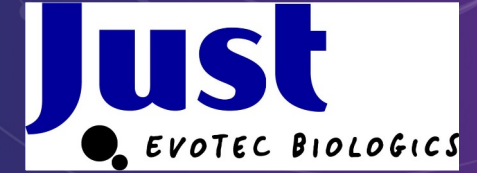
1 asset tree for each facility

Facility >> POD >> Equipment >> Signal

Seattle

All signals are at most 4 clicks away

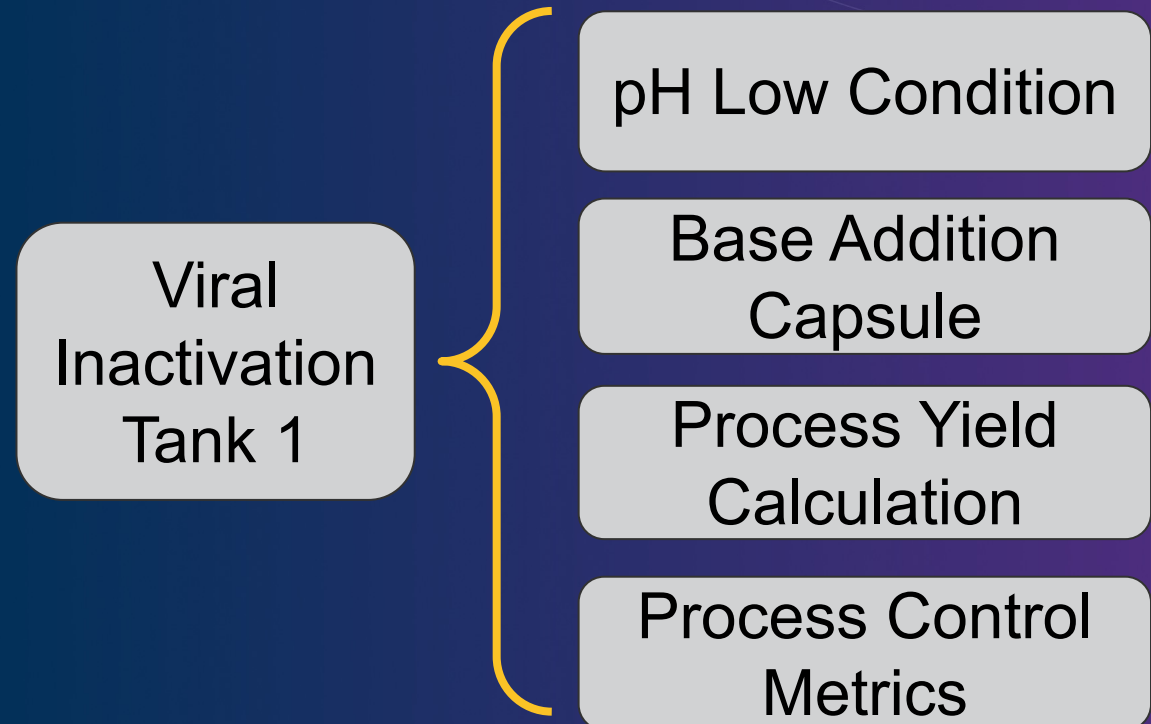
Step 3: Standardizing Calculations



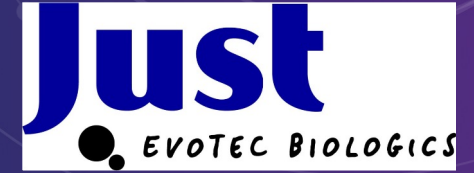
We can standardize:

- Conditions
- Capsules
- Calculated Signals
- Scorecard Metrics

And add those standards to our asset trees for all users



Step 4: Automatic Deployment



Manually maintaining large asset trees is not sustainable long-term.

Seeq[®] DATA LAB

We can programmatically define and deploy our asset trees using Seeq Data Lab.



Defining Equipment Classes

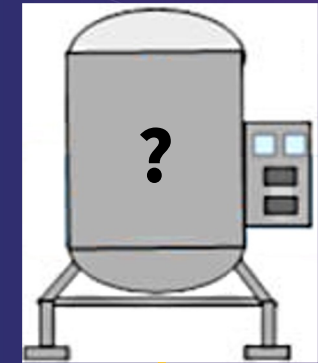
Bioreactor 1 in Cell
Culture POD 1



Bioreactor 2 in Cell
Culture POD 1



A new bioreactor in
Cell Expansion POD



Similarities

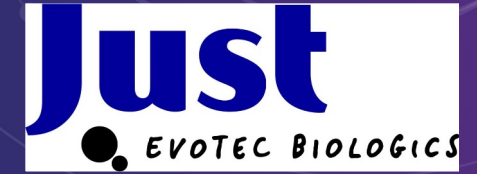
- All Sensors
- All Metrics

Universal Bioreactor Class

Differences

- ID Tag/Number
- POD

Onboarding New Equipment



Only 1 additional line of code per equipment

Bioreactor(3, “Redmond > Cell Expansion POD”)

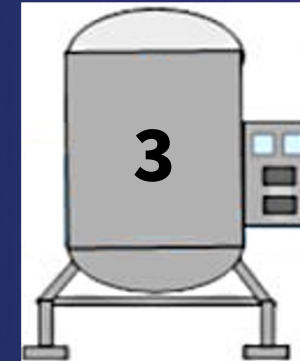
Equipment Classes:

Bioreactors

Columns

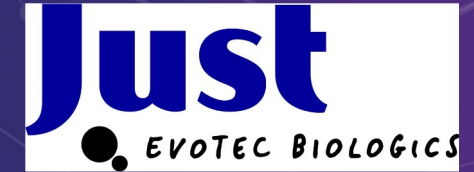
Filters

Tanks



New Bioreactor 3 in
Cell Expansion POD

Results: Impacts of User-Oriented Design



Anecdotal:

- Positive feedback

Quantitative:

- Internal Seeq user count doubled from previous year!
- Multiple teams have newfound interest in Seeq
 - This would again double our current user count

Thank you

