

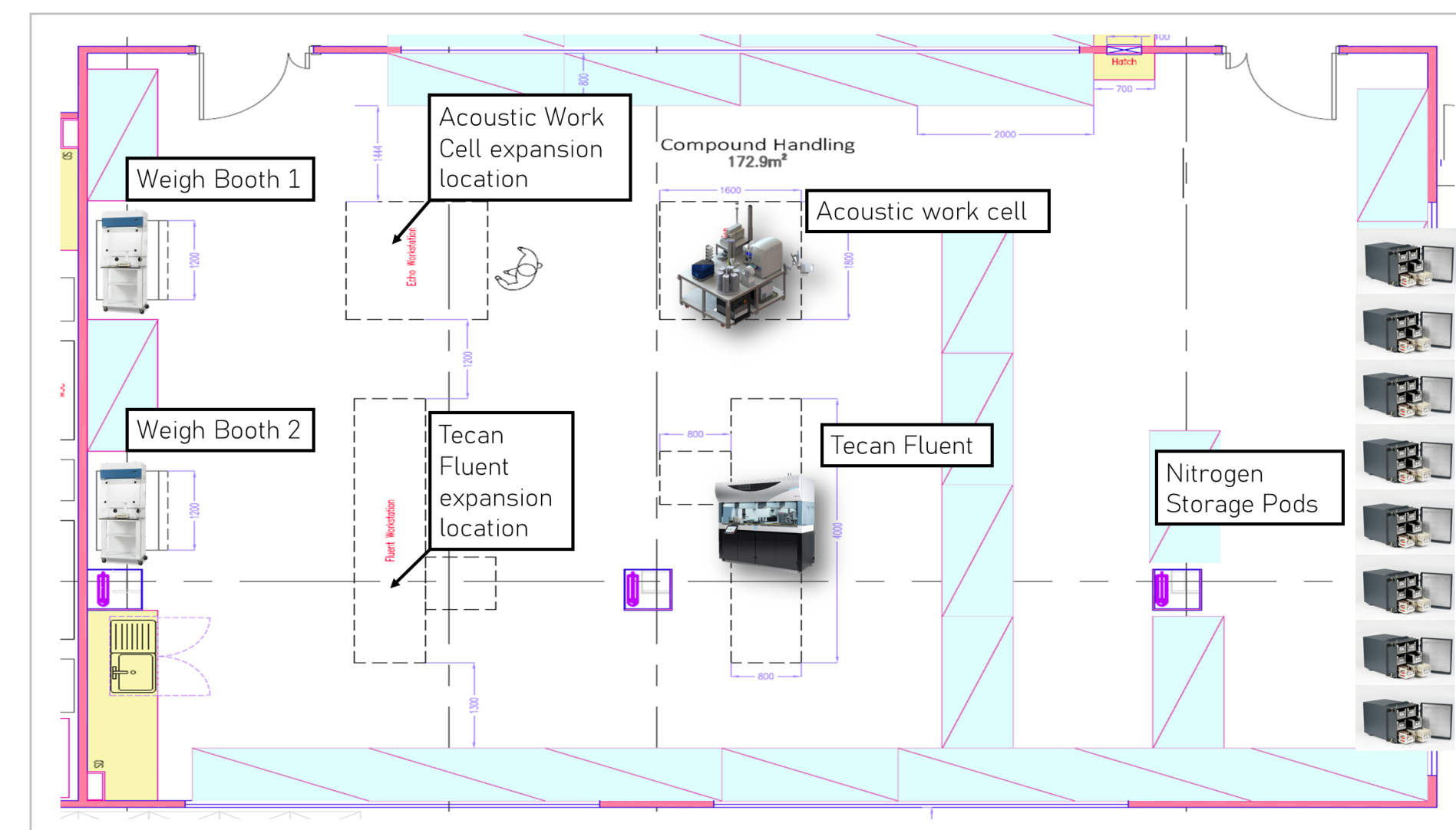
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Cyprotex New Sample Management Dept

New purpose-built Sample Management Laboratory at Alderley Park Facility Block 22

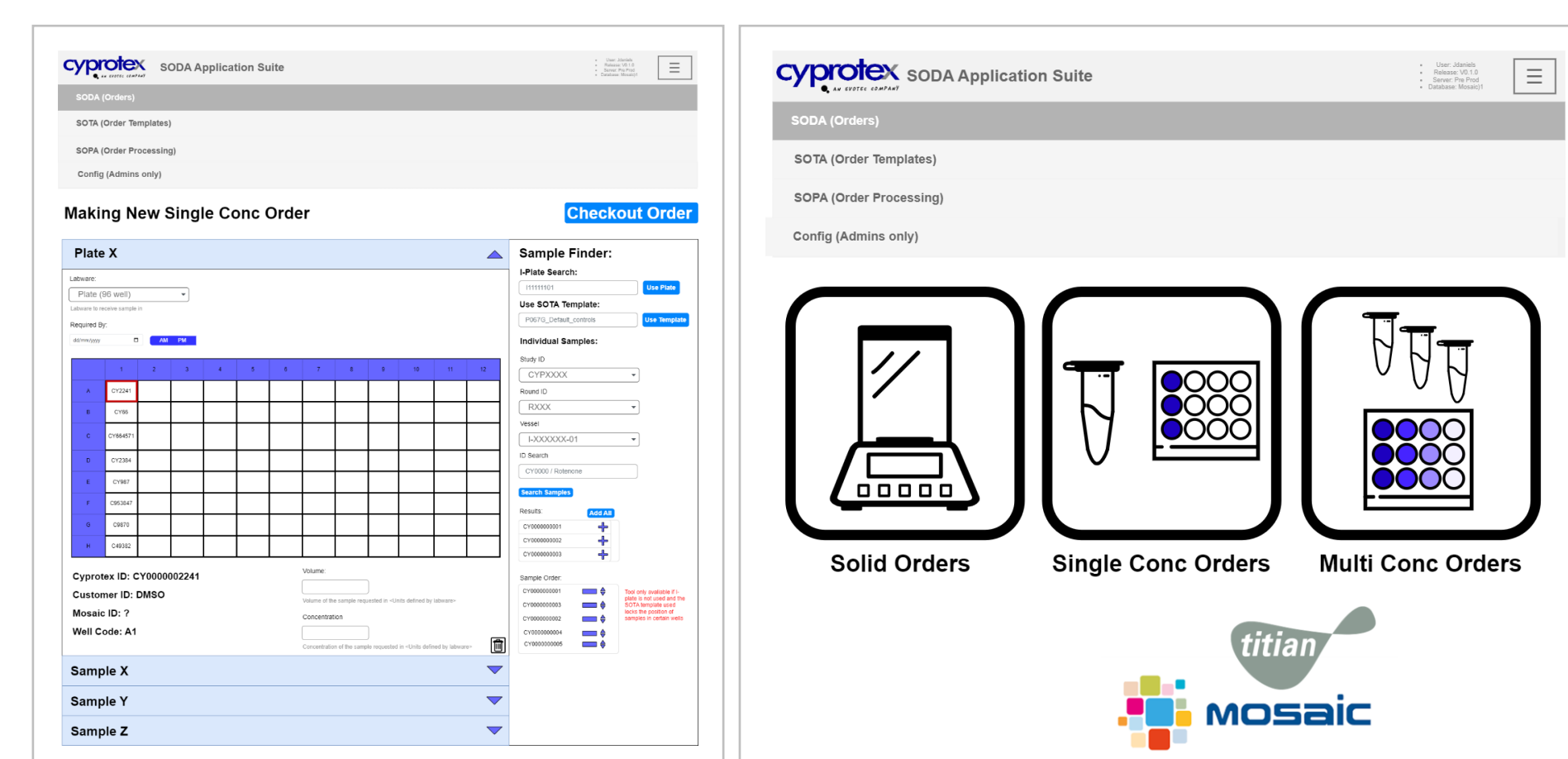
We have been tasked with creating a world class Sample Management facility delivering solid aliquoting and both conventional and acoustic liquid dispensing utilising cutting edge technology and Titian Mosaic software. Our new Sample Management will underpin our strategic growth plan.



Cyprotex Sample Management are employing the latest generation of solid weighing and liquid handling technology coupled to Titian Mosaic to provide a seamless on-line and tracked process flow.

We operate a PAA Acoustic work cell utilising the Beckman Echo 655, Tecan Fluent Automated Liquid Handler and Roylan Nitrogen Pod storage system. Two weight stations with Mettler Balances with full anti-static systems are available for solid requests. We intend to grow both our hardware (to provide greater capacity and redundancy) and our team to deliver on our ambitious goals for the dept.

Figure 2: Cyprotex Sample Management Laboratory



Our Cyprotex Mosaic Instance will interface with the broader Evotec Mosaic to allow a truly Global Sample Management network. All business LIMS software is integrated into Mosaic via API to provide direct ordering. Our Sample Management strategy for Global IT infrastructure is to provide direct inter-site ordering, shipment and data transfer unified under Evotec One Mosaic.

Figure 3: Cyprotex Sample Management Software system

Cyprotex Sample Management Workflow

Fully Integrated Sample Management Process

Increased efficiency of process and improved quality of data...

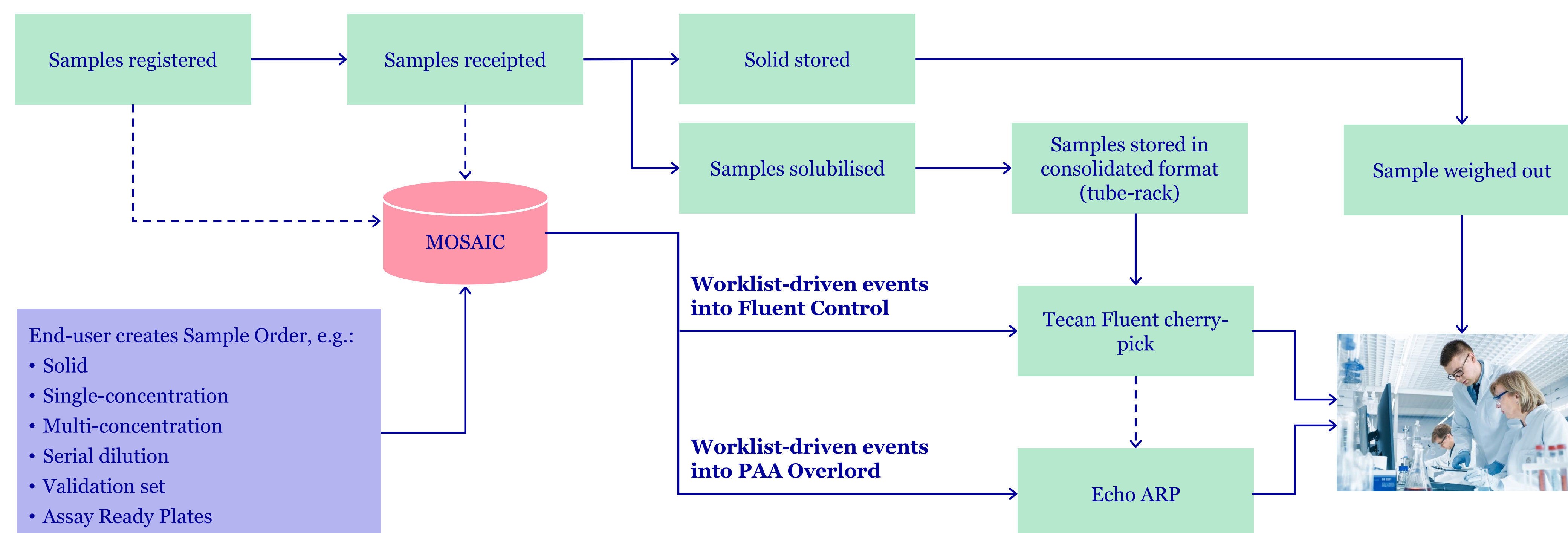


Figure 4: Cyprotex Sample Management Workflow



Figure 1: Cyprotex Alderley Park

Sample Management Benefits

Automated, Harmonised and Centralised

Through centralising, automating and harmonising production processes Sample Management, as an enabling science, increases capacity for screening teams to deliver high impact science. This is achieved by reducing assay setup time (leading to more per-day assay potential) and optimised consumable usage (labware, samples, reagents and reduction in FTE time for manual sample prep). With our automated workflows Sample Management reduces manual process errors and can help eliminate mis-placed samples with digital tracking.

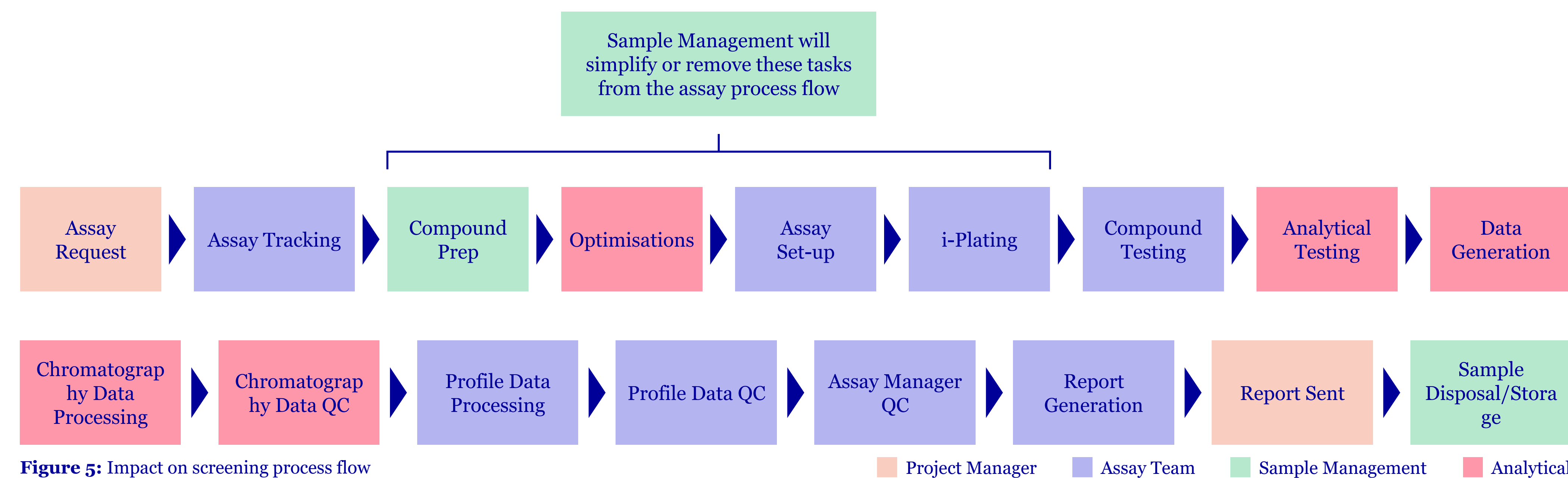


Figure 5: Impact on screening process flow

For example, in our last round of screening our Toxicology colleagues would usually assign 30 minutes for i-plate preparation per source. This would have equated to 29 hours of preparation time. However, we were able to complete this work for them in ~9hrs.

The real impact of this way of working is that our scientists can start screening immediately because the i-plate is already available which has meant our throughput has been optimised. Toxicology have managed to perform 4x runs in a day using extended working, but having the Assay Ready Plate available has meant being able to comfortably run 3x runs a day, previously that would not have been a struggle.

The estimated FTE savings Sample Management can provide in the short term is ~1x FTE. Medium to long term projection ~6-7 FTE. This equates to an FTE cost saving to the business of €142,120 in Year 0. A further €426,360 in Year 1. €568,480 by year 2 and ~€852,720 by year 3. FTE savings in the screening labs increases with growth. As Sample Management requires less overall FTE increase to deliver on the increased demand than each separate screening team performing this work we can gift back to our screening areas money, time and capacity.

Cyprotex Sample Management Facility Highlights

- Library storage and management for external partners
 - ✓ reduce turnaround times by storing your compounds on-site
 - ✓ free up space at your facility
 - ✓ save on shipping costs
- Acoustic ECHO liquid handling technology
 - ✓ precise and accurate dispensing in nanolitre quantities which maximises compound usage
 - ✓ rapid pipetting with non-contact dispensing to eliminate risk of cross contamination
- Assay-ready plate production and plate reformatting
 - ✓ rapidly reformat and prepare plates for assays to speed up the screening process
 - ✓ select only the most relevant compounds for screening
- Titian Mosaic sample management software
 - safely track and trace your compound at our facility
 - integrate and connect securely to external Mosaic platforms to allow you to order directly and track compound usage at our facility
- Range of storage options for product providing safety, quality and longevity
 - various cold storage options (+4°C, -20°C and -80°C)
 - hermetically sealed, nitrogen blanketed, room temperature storage environment – minimises exposure to oxygen and prevents ingress of water to samples stored in DMSO reducing