

Optimiser

The Machine Learning Optimisation Application for BioSolve Process

Part of our new BioSolve Analytics package, Optimiser is a proprietary tool that employs Bayesian inference statistical methods to automate the daunting task of multi-variable and multi-objective bioprocess modelling.

40
DECISION
VARIABLES

10
MINUTES
TO SET UP

90%
REDUCTION OF
MANUAL INPUTTING

<30 min
TO ACHIEVE
RESULTS



Using BioSolve Process with Optimiser

- 1 SET OBJECTIVES**
 Set Objectives, such as maximum yield, shortest time, or lowest carbon footprint
- 2 DEFINE VARIABLES**
 Set Decision Variables: operational parameters such as cell culture capacity and No. of Column Cycles

 Optionally Set Constraints: lower and upper limits such as min. and max. bioreactor volumes
- 3 RUN THE OPTIMISER**
 Generate the optimal process configuration that resolves competing objectives

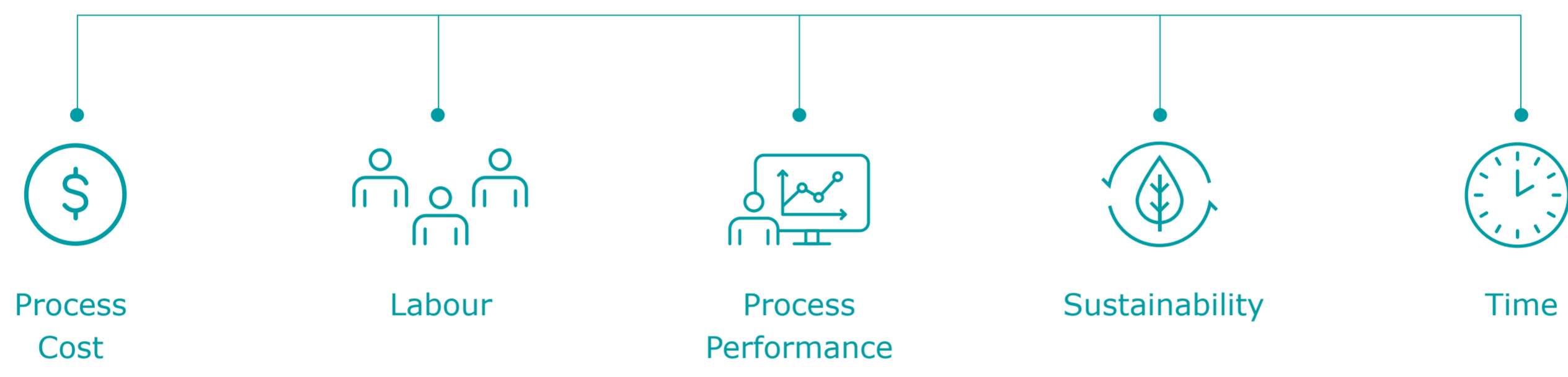
Make the Impossible Possible

Manually creating process simulations is time-consuming and not feasible when you have multiple objectives and dozens of decisions to consider in your design space.

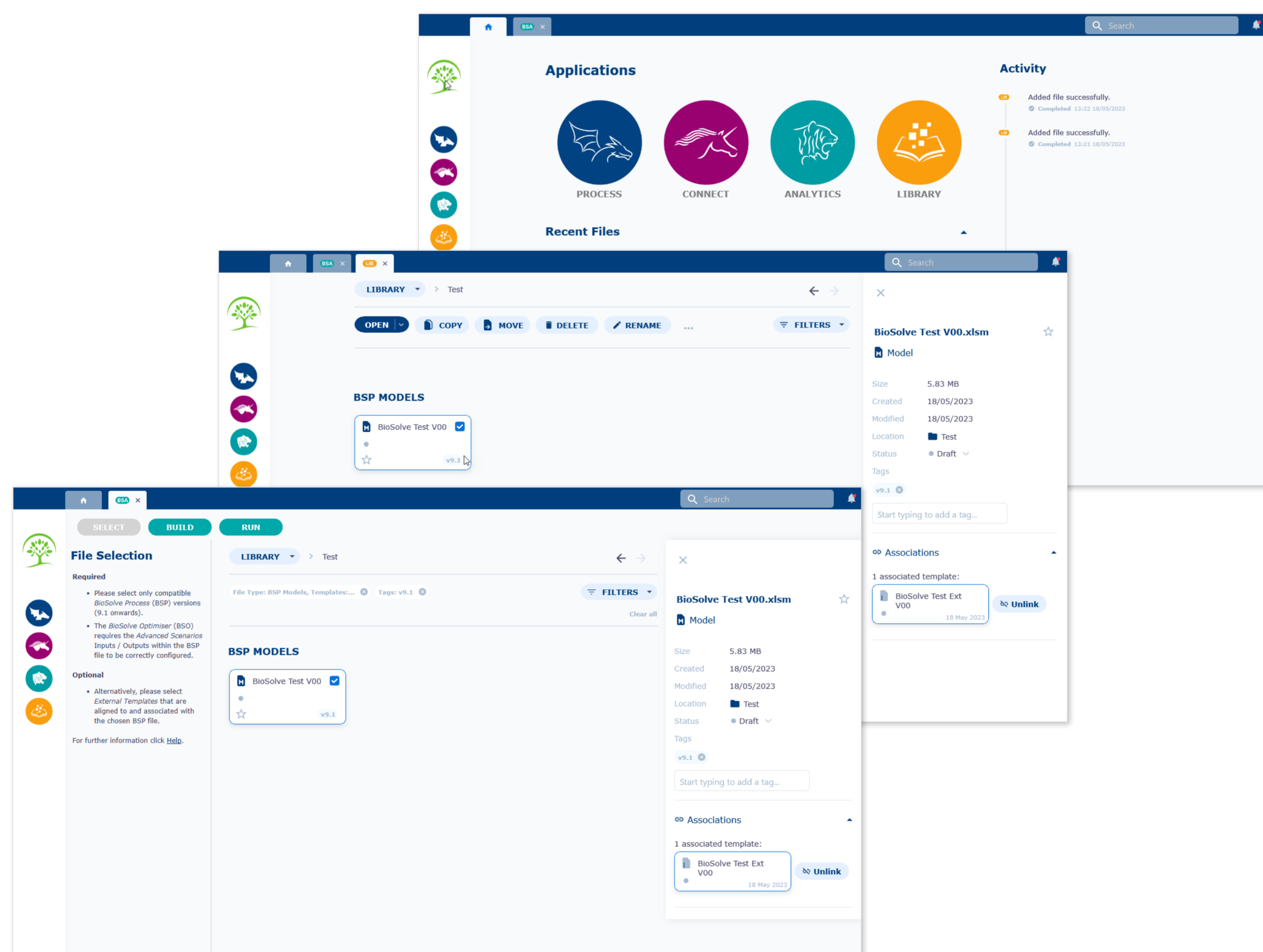
Optimiser solves this matter by unwinding complex, intractable issues to generate optimal solutions that solve multiple objectives—all within tens of minutes.

What Are Your Objectives?

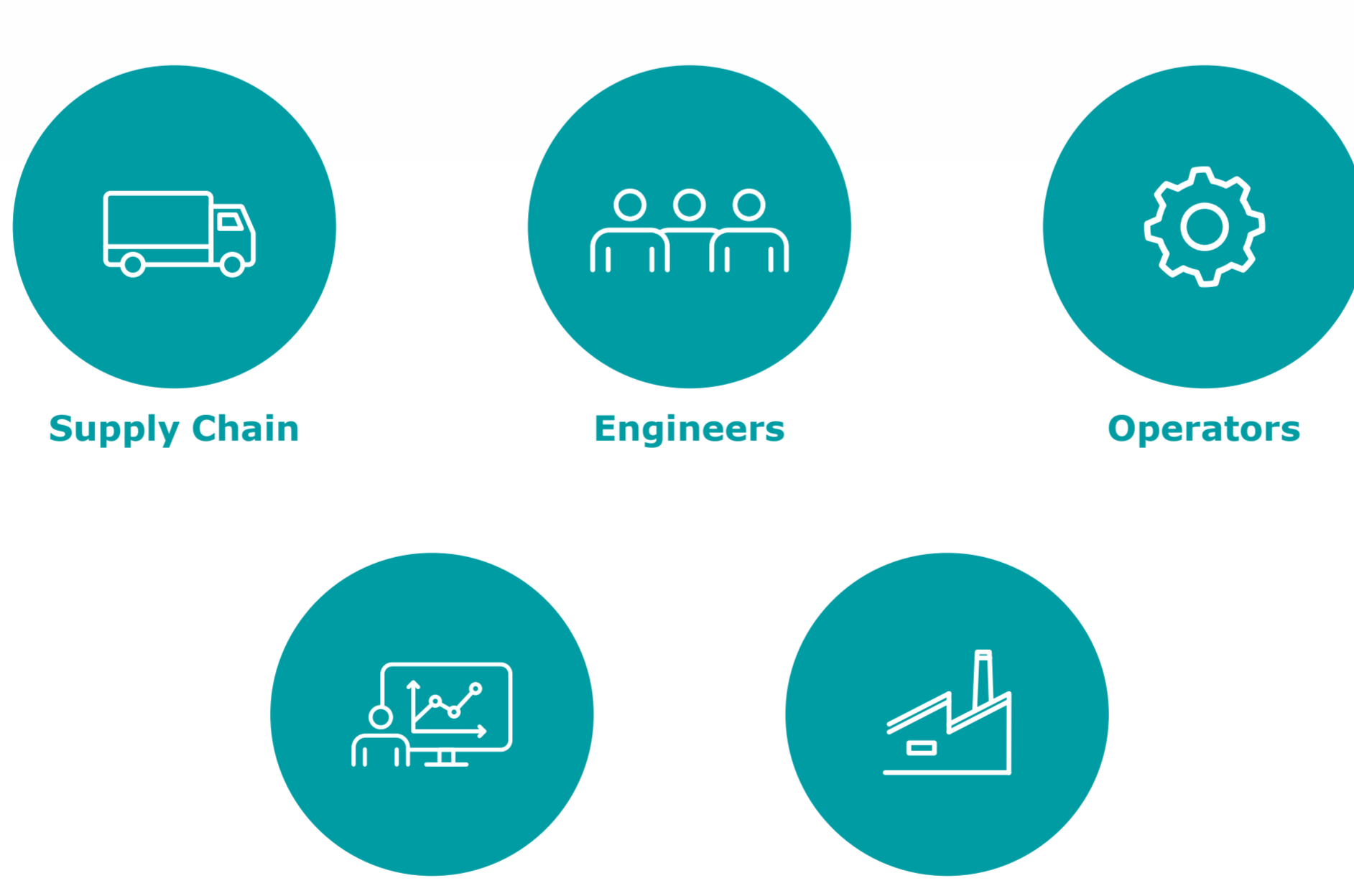
UP TO 3 OBJECTIVES CAN BE SELECTED DURING OPTIMISATION



AND MORE!



Who Should Use Optimiser?



What Is BioSolve Analytics?

BioSolve Analytics is a new suite of tools to enhance the BioSolve Process user experience.

Our first BioSolve Analytics module is the Optimiser. Additional BioSolve Analytics tools, including Visualiser, a new visualisation tool, are coming soon.

Unleash the Power of BioSolve Process
 By actively learning the problem space, Optimiser automatically finds solutions to complex bioprocess optimisation targets.

Learn more at biopharmservices.com