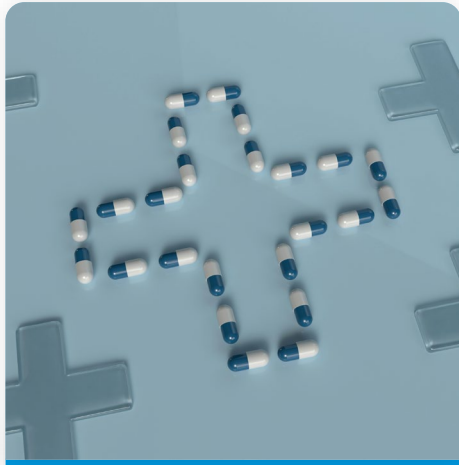


# How during the pandemic we optimized vaccine production and delivery process



## Client Success Story



### Industry

Pharmaceutical

### Client

Global pharmaceutical leader

### Challenges

**During the pandemic, our client, a global pharmaceutical leader, needed to optimise its COVID-19 vaccine production and delivery processes. Production could not be interrupted, but at the same time, we had to ensure the software was totally reliable — this meant performing thousands of tests in real-time.**

Our client required an agile, efficient and continuous testing approach. The project was particularly demanding, as the effective management of staff working remotely was a new challenge in the early stages of the pandemic. Other significant issues included:

- Slow manual testing
- Long development times for automated tests
- Insufficient automated tests in total QA activity

### Solution

We solved these significant issues by developing a set of automated tests to verify both new functionality and regression by:

- improving the client’s software delivery process and configuring automated tests for all testable stories developed in sprints,
- introducing a “Release on Demand” approach,
- establishing automated testing processes based on Agile testing principles, e.g., Test Pyramids, Three Amigos Meetings, etc.,
- implementing a process based on Behaviour-Driven Development and the Gherkin syntax,
- developing a custom platform with an advanced data module and custom Selenium packaging which increased testing stability.

### Benefits

We ran 2100 automated tests covering 92% of user stories. This resulted in:

- 60% shorter overall testing time
- 25% faster test development time