



How did SAP's industry cloud help a new COVID-19 vaccine plant ramp up production quickly and efficiently?

Replacing paper-based processes to accurately calibrate around 3,500 machines

As one of several life sciences companies scrambling to respond to the COVID-19 pandemic in 2020, Novavax CZ a.s. needed to get its new vaccine into production urgently. Having acquired Novavax a.s., a facility in the Czech Republic, to help it rapidly scale up production, the global vaccine maker had to get this new plant up and running as quickly as possible. However, the Czech operation used largely paper- and spreadsheet-based processes. As a broader IT modernization project took place, Novavax set out to enable a team of four calibration experts to process the huge volume of data produced by newly digitalized systems. In doing so, it turned to industry cloud solutions from SAP and partners.

Featured Partner





Helping calibration experts migrate huge volumes of data to rapidly produce a new vaccine with SAP's industry cloud

Before: Challenges and opportunities

- Manual, spreadsheet-based processes at a production facility acquired to support rapid manufacture of a new COVID-19 vaccine
- Small calibration team faced with processing data from thousands of newly digitalized machines

Why SAP and NTT DATA Business Solutions

- Ongoing digital transformation of the acquired facility based on SAP solutions
- [it.calibration by NTT DATA Business Solutions](#), an industry cloud solution, for intuitive, compliant, and integrated capture of calibration records with minimal need for customization
- Smooth operation with SAP Integration Suite and the SAP ERP application
- Existing partnership with NTT DATA Business Solutions, which offered in-depth industry and software expertise

After: Value-driven results

- Near-complete automation of calibration processes for around 3,500 machines
- Enhanced traceability with the new ability to monitor changes, who made them, and when
- Increased productivity of calibration team with better-quality data and improved processes
- Robust support for producing the new vaccine and continuing with digital transformation in compliance with “good automated manufacturing practice” guidelines

“Implementing it.calibration by NTT DATA Business Solutions was a logical step in our transformation from paper-based to digitalized processes to enable robust and standardized calibration. The industry cloud solution helped us automate calibration, improve and migrate data, and comply with rigorous industry standards.”

Ondřej Štika, Business System Supervisor, Novavax CZ a.s.

71%

Estimated reduction in calibration execution time

50%

Estimated reduction in downtime

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Novavax CZ a.s.
Bohumil, Czech Republic
www.novavax.com

Industry
Life sciences

Products and services
Vaccine manufacture

Employees
1,992 (group)

Revenue
US\$2 billion (group)

Featured solutions
SAP Integration Suite
and SAP ERP

Quickly implementing efficient, validated processes to aid the prompt manufacture of a new vaccine

Novavax CZ a.s. used [it.calibration by NTT DATA Business Solutions](#), an industry cloud solution, to help digitalize a plant acquired to produce its new COVID-19 vaccine.

As Novavax digitalized paper-based processes at the new facility, the solution helped a team of just four calibration experts efficiently process the massive amount of data produced by around 3,500 machines in the SAP software environment. It integrated smoothly with plant maintenance and quality management functionality of the SAP ERP application, promoting robust, automated processes based on “good automated manufacturing practice” regulations and guidelines for pharmaceutical firms. This helped ensure validated production processes were in place to support production of the new vaccine.

Thanks to the industry cloud solution and integrated SAP software, not only calibration experts but also other teams working with calibration machines and equipment across the facility benefit from accurate online information on current machine status.

