



GO INTELICANT. NEXT-LEVEL DEWATERING.

GEA Intellicant® – engineered intelligence to
monitor, automate and optimize your process.

YOUR DECANTER CAN DO MORE. WITH GEA INTELICANT®.

GEA Intellicant® ushers in a new era of efficiency in your sludge treatment process by monitoring, automating and optimizing your decanter. Specifically designed as an upgrade kit for existing GEA systems in wastewater treatment plants, this solution ensures efficiency and drastically reduced disposal costs. Unleash the full potential of your decanter with GEA Intellicant®.



GEA Intellicant® comprises easy-to-install, low-maintenance sensors, AI-supported software and a performance reporting solution. Because we care about long-term optimization, we designed GEA Intellicant® as a subscription service to enable continuous support.

GEA Intellicant® provides you with a simple overview of the real-time status of your sludge dewatering. It makes a seamless process out of obtaining and comparing data from one or more wastewater treatment plants, saving you valuable time and resources.



For clear cost transparency

With GEA Intellicant®, you can always keep track of your expenses. Our system automates sludge dewatering and provides detailed information about every cost implication.



Optimizes the performance of your decanter

The efficiency of your wastewater treatment plant is at the heart of GEA Intellicant®. Gain deep insights into how your units are running and enjoy increased performance and significant cost reductions as a result.

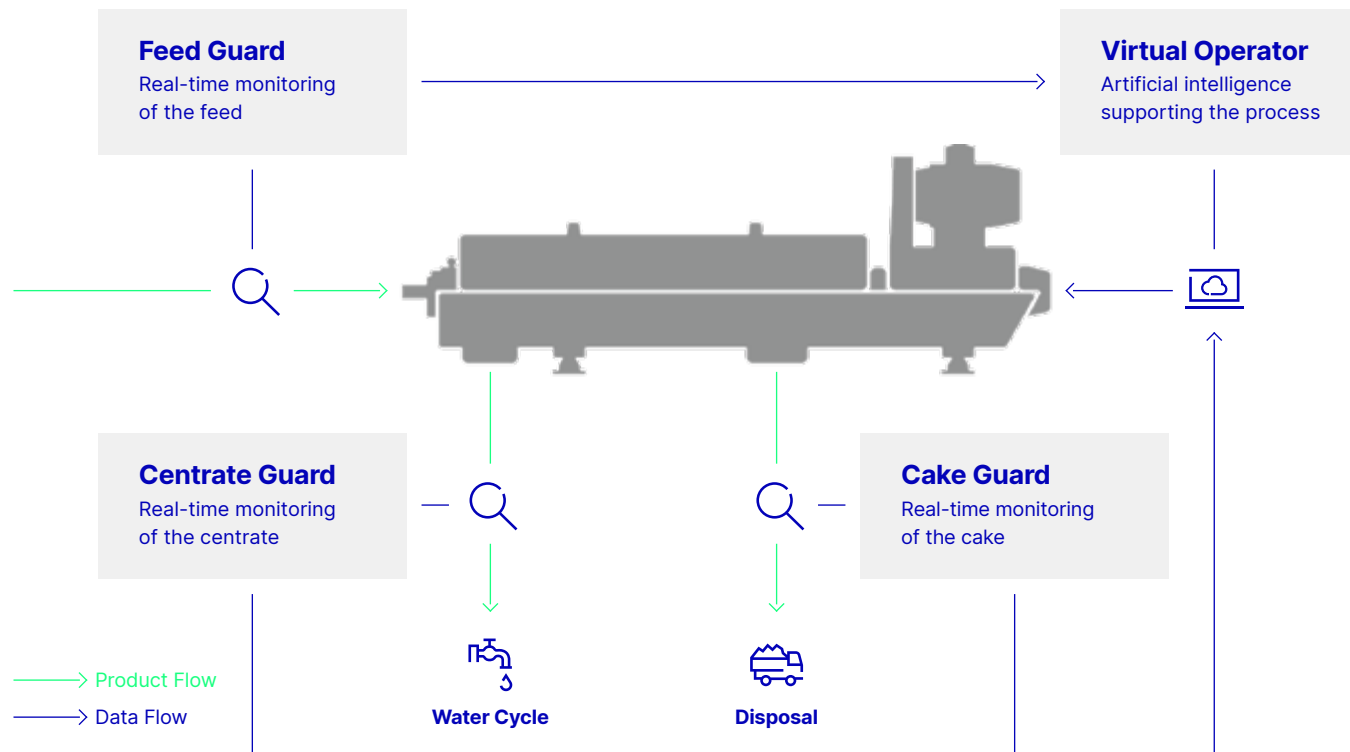


Minimizes manual tasks

GEA Intellicant® offers a future-proof solution, overcoming the global shortage of skilled workers. By automating routine tasks and providing user-friendly monitoring tools, our GEA Intellicant® solution helps you with its efficient streamlining.

THE HARDWARE PACKAGE.

Innovative sensors allow you to monitor your unit in real time and obtain information about every process stage – without you having to take samples by hand.



Feed Guard

This sensor measures and monitors the concentration of solids in the sludge supply.

Centrate Guard

This sensor measures the turbidity of the clarified liquid, allowing you to monitor the quality of the centrate and adapt where necessary.

Cake Guard

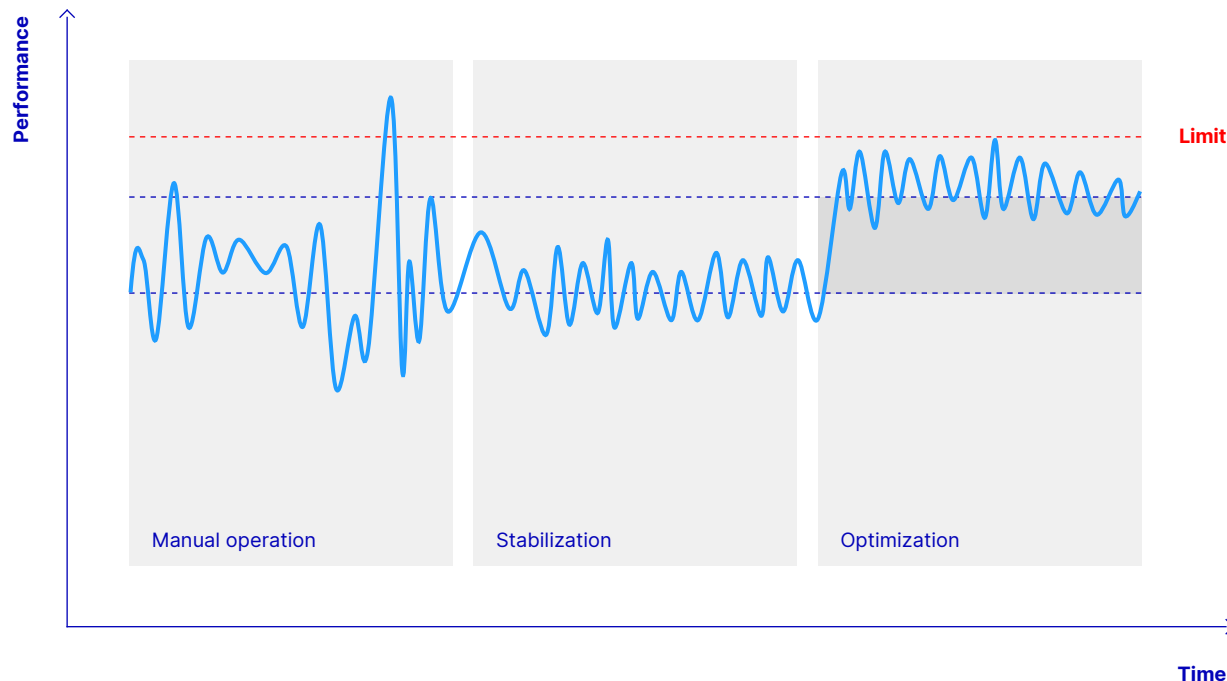
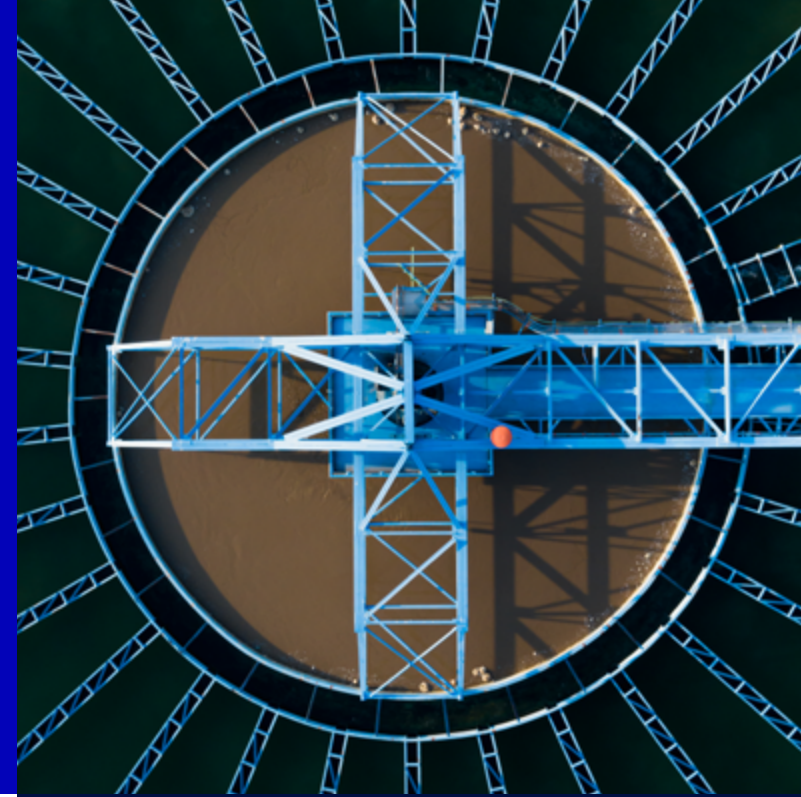
This sensor is designed to not only measure and monitor the dry substance content of the sludge dewatered by the decanter, but also to keep it at a consistently high level.

Virtual Operator

This AI-driven assistant helps you reach the optimal operating point of your decanter. It can control the decanter autonomously, freeing up your time to focus on other tasks.

THE VIRTUAL OPERATOR.

Thanks to artificial intelligence, the Virtual Operator guarantees a constant rate of dry substance, ensuring process safety and stability. Time-consuming machine adjustments are a thing of the past. GEA Intellicant® automates these processes, so you can focus your efforts elsewhere.



Manual operation

With a manually operated wastewater treatment plant, the centrate is usually measured visually at irregular intervals. This process can lead to fluctuating concentrations of solids in the dry substance.

Stabilization

Intellicant®'s ability to monitor and analyze the sludge treatment process eliminates the need for manual sampling. In turn, fluctuations in the solids content are significantly reduced.

Optimization

Our AI-supported Virtual Operator automates and optimizes the dewatering process of sewage sludge. With a defined centrate quality, the dry substance content reaches its highest possible rate at all times.

THE PERFORMANCE REPORT.

Once a month, you will receive a compact overview of all the key process data. The monthly report is a transparent and detailed depiction of your operational performance and shows where optimization potential lies. It therefore serves not only as a control tool, but also as a means of building trust in the automated process.

Impact of GEA Intellicant®

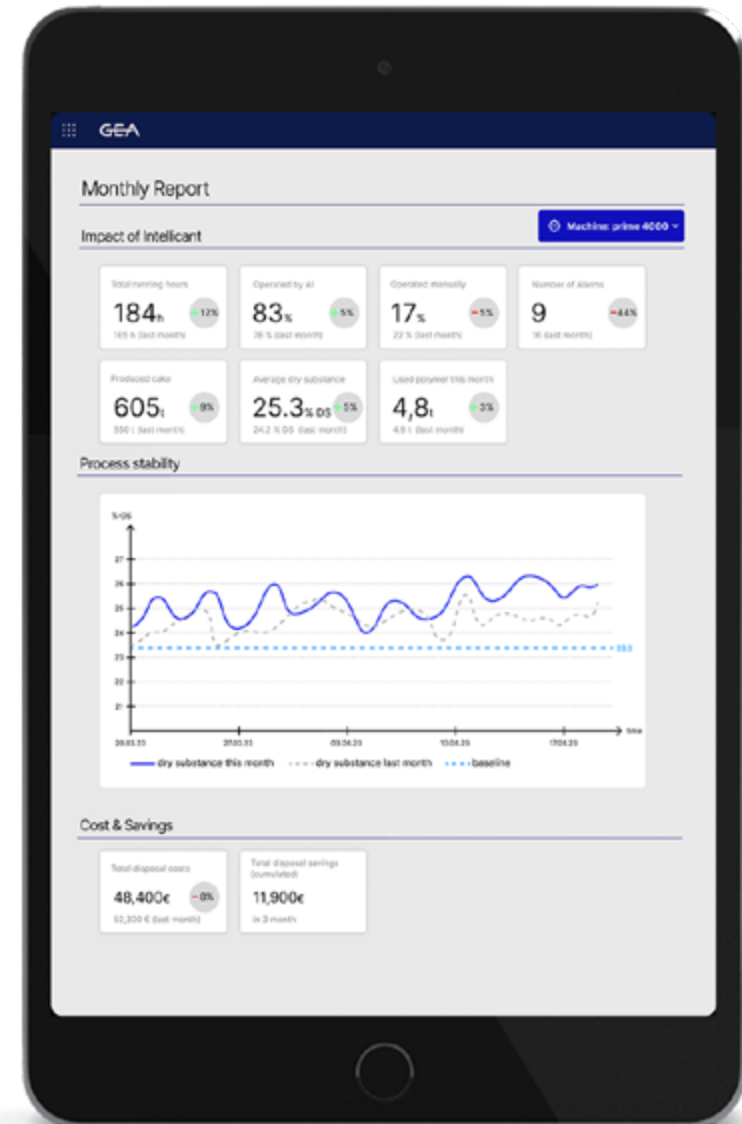
Among other things, the Performance Report highlights how much sludge has been treated and contains information on the dry substance content achieved at discharge, the use of Intellicant® automation and of polymers.

Process stability

By visualizing the effectiveness of the process, the Performance Report provides a clear and easy-to-understand overview of your decanter's performance values.

Costs & Savings

Intellicant®'s automation and forecasting capabilities give you a comprehensive monthly view of the costs and savings in terms of operation and disposal. Stay up-to-date and informed in an instant about your unit's cost-effectiveness.





Every % dry substance
can save 135,000€ in
annual disposal costs.*

GEA Intellicant® pays off.

GEA Intellicant® allows you to increase the dry matter content of your dewatered sewage sludge by minimum 1%, gaining you a significant reduction in your disposal costs. For comparison, an increase of just 1% in solids content can mean annual savings of 135,000€. This means you benefit from a reduction in your operating costs. At the same time, you make an active contribution to environmental protection by reducing CO₂ emissions during the transport and disposal of your dewatered sludge. With all these advantages, you'll soon realize that investing in GEA Intellicant® quickly pays for itself.

*) Calculation of a decanter installation in a treatment plant with a capacity of 385,000 population equivalents and with disposal costs of 60€/t DS.



THE EFFICIENCY OF A SUBSCRIPTION.

Smart investments are not only reflected in the immediate return on investment, but also in terms of long-term profitability. This is where your GEA Intellicant® subscription comes in. Whether you have technical questions, need troubleshooting assistance, or want to learn about the latest features, our GEA Service team is always here to help.



Enhanced support

Our subscription model is your guarantee of continuous remote support. If ever there is a problem, our experts will advise you.



Software updates

Regular software updates optimize the performance capability of GEA Intellicant®.

HER TOMORROW IS OUR TODAY.

In times of constant technological and environmental challenges, it is vitally important to find progressive as well as sustainable solutions to the problems of today and tomorrow. As part of the GEA ecosystem, GEA Intellicant® represents an innovative extension of GEA's decanter technology. Integrating GEA Intellicant® into these systems will increase your efficiency and further reduce any negative impact on the environment. We are on a steady path to a more sustainable, responsible future.



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