

Clouver Newsletter

Clouver AI

Questions about production answered directly

We show you how Clouver has been extended with integrated AI that answers questions about production directly. And how it also takes on related questions, compares multiple data sources and derives a proposal for the next steps from them.

What was the biggest bottleneck last week and what should I tackle first?

One of our customers has already fully connected their machines to Clouver. Machine states, downtimes, produced quantities and energy consumption are continuously recorded and displayed in the dashboards – from the overview page through to the analyses for lines, machines, operators and energy.

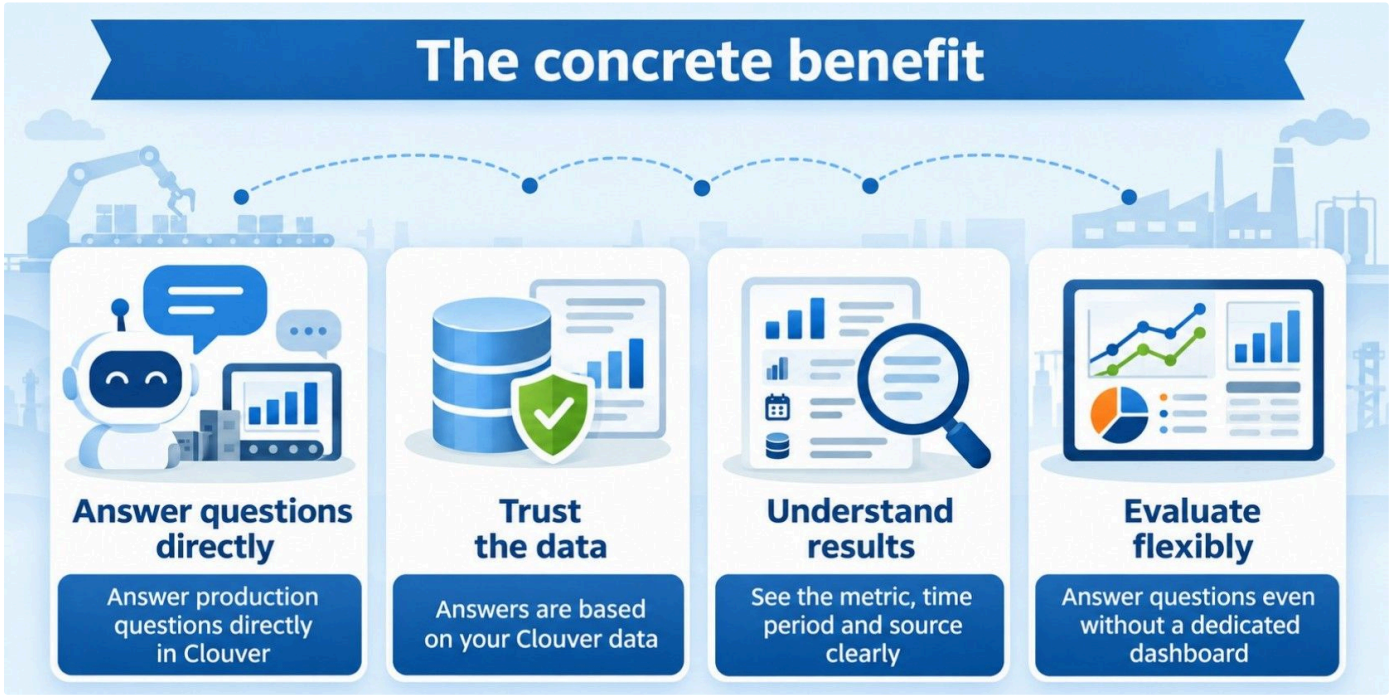
Individual values can be read off directly there. In day-to-day work, however, there are questions that affect several of these areas at once. For these, a single key figure is not enough – multiple figures must be viewed together and weighed against one another before it becomes clear where to start.

⚠ What was therefore wanted was a way to ask such questions directly and get an answer that performs this weighing.

Answers directly in the application

To meet this requirement, Clouver has been extended with an integrated AI. Questions are asked in your own words, and answered directly in the application – without switching to another tool.

The data foundation is decisive here: Clouver AI accesses only data from Clouver. The answers are therefore based on the same values that are also shown in the dashboards.



Several data sources in one answer

The biggest difference the Clouver AI makes is with questions that cannot be decided by a single value. An example from everyday production:

"What was my biggest bottleneck in production last week – and which problems should I tackle first so that the bottleneck disappears?"

To do this, the AI draws on several data sources at the same time – for example downtimes and their causes, machine states, quantities produced and quality data – sets them against each other and derives from this where the bottleneck actually lies.

The answer does not stop at the analysis: it suggests the order in which the causes can be addressed – starting with the one that promises the greatest effect.

> "This creates a targeted answer instead of a search across several analysis pages."
>
> – Andre K., Product Owner IIoT, ProCom Automation

Other questions can be answered in a similar way, for example:

Which causes of downtime take up the most time and where they occur most often.

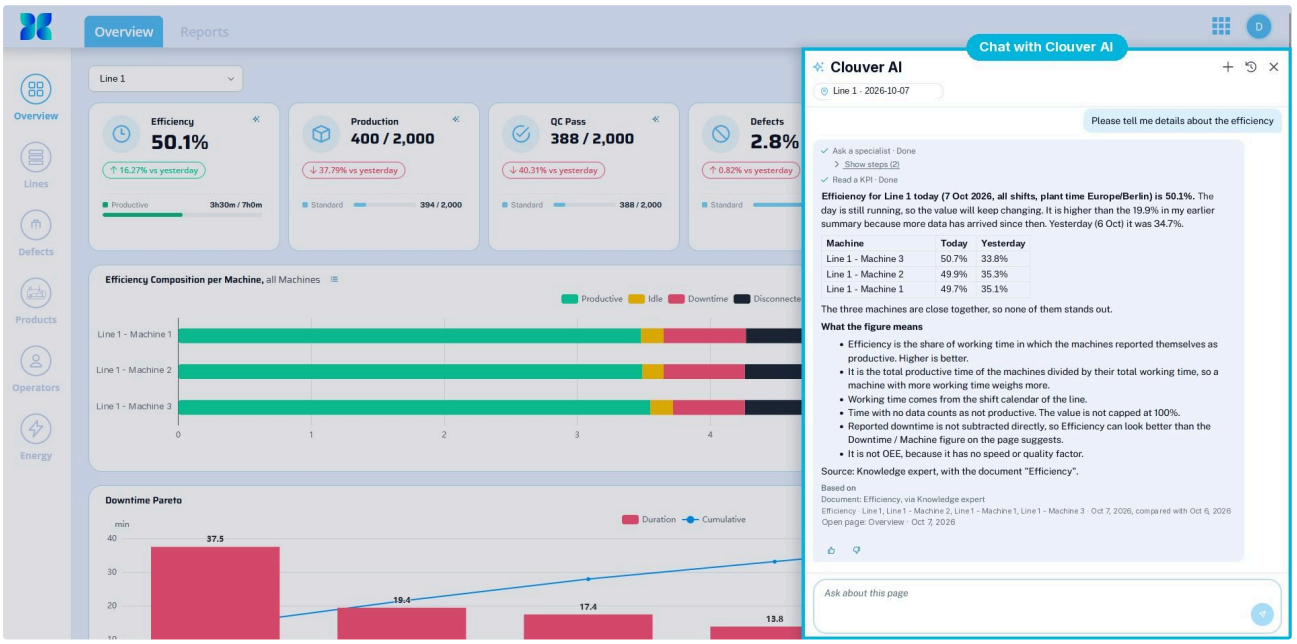
Which shift runs most stably and what causes the difference.

Where energy is consumed without any production taking place.

Analyses that don't yet exist as a dashboard

Not every conceivable analysis is set up in Clouver as its own dashboard – and for some questions there is no suitable visualisation.

This is where Clouver AI can be used: it accesses the same data and compiles it in text form. This produces an analysis of the question that is currently pending.



The answer to a question about efficiency – with a concrete value, a comparison to the previous day and a breakdown by machine.

Every answer shows what it is based on

For decisions in manufacturing, the source of a figure matters as much as the figure itself. The AI therefore shows which metric it read, for which line and period, compared to which day, and on which page the value can be found.

On request, it additionally explains how the metric is calculated: efficiency describes the share of working time during which machines reported themselves as productive, the working time being taken from the line's shift calendar, and it is explicitly not an OEE, as the speed and quality factors are missing.

This is just as important in practice as the value itself, because two metrics with similar names are often calculated differently.

Clouver AI is generally available to all customers who use Clouver.

Typical Pitfall and How to Avoid It

The biggest hurdle is not the technology but the type of question. Anyone who uses the AI like a search mask and queries individual metrics will get answers that could just as well appear on the overview page. The real benefit only emerges with questions that span several areas and lead to a decision.

It is therefore sensible to ask questions the way they would be raised in a meeting – with a time period, context, and the question of the next step. Maintained data is a prerequisite: if reasons for downtime are missing or the shift calendar is not up to date, even the best question will be answered imprecisely.

Quick Win of the Month

Before your next weekly meeting, take five minutes and formulate a single question whose answer would otherwise require several evaluation pages. Bring the answer to the meeting and compare it with your team's assessment. If both agree, your priorities are confirmed. If they differ, you have the point worth discussing.

Book a free consultation today!

Would you like to know how you can integrate and use Clouver in your production?

Then book a personal consultation with us – **free of charge and non-binding**. Or write us an email with your questions. We look forward to your message.

contact@procom-automation.de

Book an appointment now

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