BY GILLES MOERMAN, PROJECT ENGINEER, VINTECC

POPPIES

QUALITY INSPECTION SYSTEM AT POPPIES

EXPERTISE

MACHINE VISION, OPTICAL SORTING, DATA ANALYTICS

vintecc

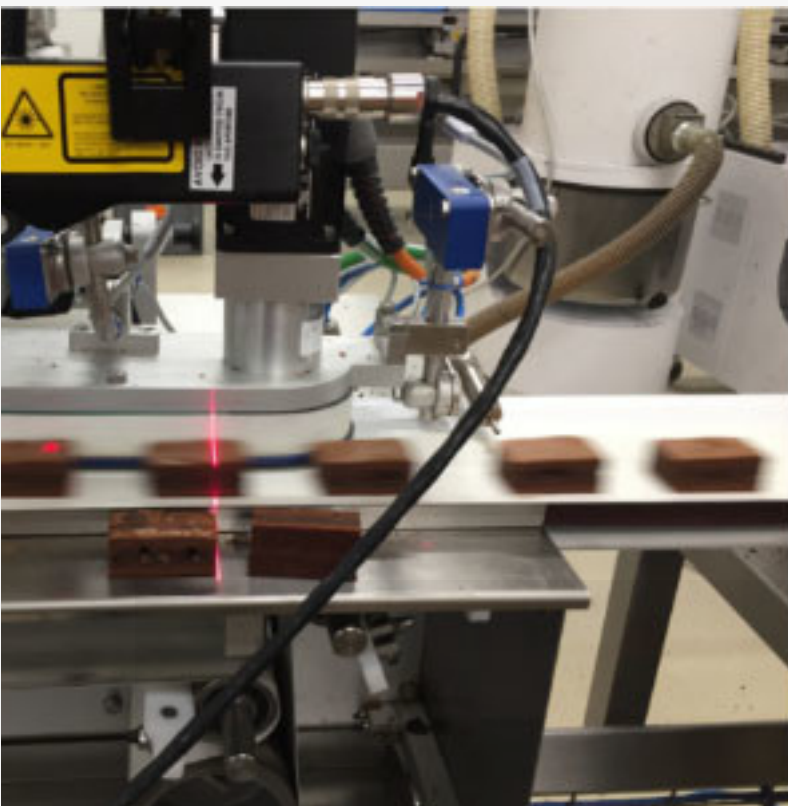CREATING SMARTER
MACHINES

PROJECT DESCRIPTION

Brownies are marvellous cookies!

They should also look perfect in shape.

Poppies, producing brownie cookies amongst others, strives for this type of perfection, not only in taste, but also in shape.

Therefore, cookies with an imperfect shape (amount of cracks, depth of cracks, length, bulge volume ...) should be filtered out.

Poppies asked Vintecc to build a quality inspection system that could just do that. The challenge for us was not only getting perfect, high resolution data, but also processing it at an amazing speed.

ABOUT POPPIES

Poppies is a global company specialised in the production of cookies, pastries and desserts for true gourmets. Achieving a constant high quality output is key for the company.
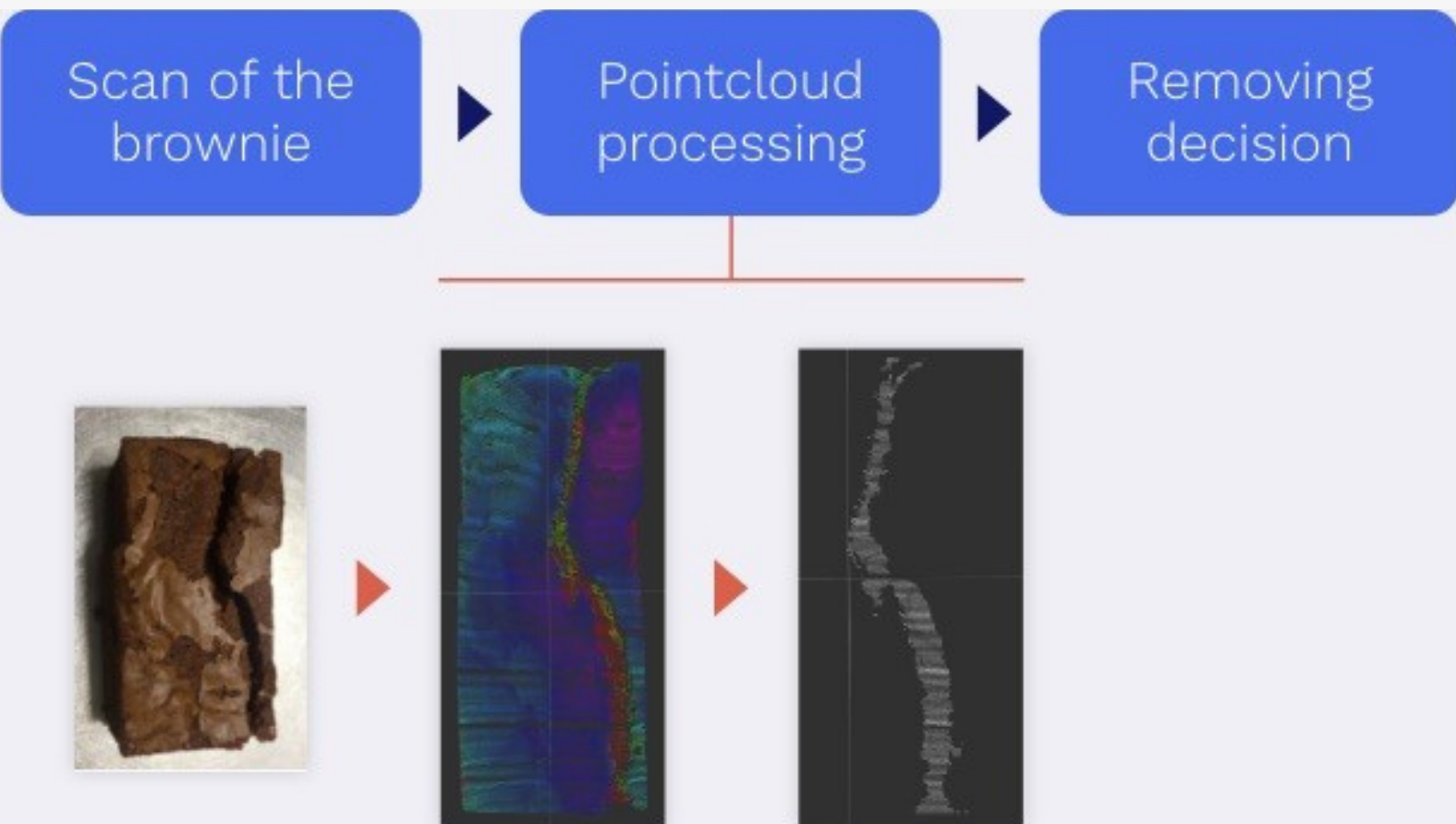
POINTCLOUD TECHNOLOGY

The Solution

To process the data at this rate a specialised sensor was selected and integrated. The sensor is able to scan at a rate of 1500 Hz giving us a pointcloud of each cookie with **a precision of 0.8 mm.**
To process these pointclouds for the quality control, we used different machine vision techniques to highlight cracks, bulges and to check the dimensions of the brownies.
Finally a bad brownie was removed with a pneumatic ejector.

The Result

The intensive collaboration led to a performant quality control system which met all predefined targets. On top, our data logging platform Capture registers all quality data and sends out condensed summaries of the quality statistics every last x hours.

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CREATING SMARTER MACHINES

THE QUALITY CONTROL SYSTEM MET ALL PREDEFINED TARGETS. ON TOP, OUR DATA LOGGING PLATFORM CAPTURE REGISTERS ALL QUALITY DATA AND SENDS OUT CONDENSED QUALITY STATISTICS.

About Capture

Capture is a highly customisable, scalable and flexible datalogging framework for collecting, exploring and processing data.
You wish to gain insights based on company-wide data captured by a datalogging framework tailored to your needs?

That's exactly why we built Capture!

Alerting _
Plugin _

_ Visualisation
Plugin

Synchronisation _
Plugin

capture
COLLECT EXPLORE
ADAPT

_ Reporting
Plugin

Collector _
Plugin

_ Data
Transformation
Plugin

Insights as a key enabler

Create insightful dashboards in order to improve and optimize your processes, machines or even your products.
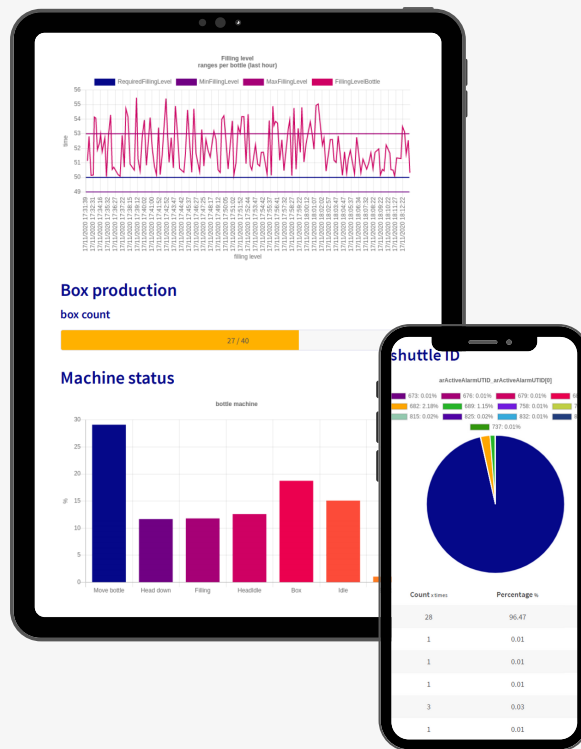
Reporting & Alarming

Capture's Reporting plug-in is a great tool to visualize KPI's, status and performance of your assets in just one condensed report.

Get regular report updates or trigger them through the Alerting plug-in. Define your own set of alerting rules to prevent downtime, malfunctioning or failure.

Transform data into true business value.

Built a successful data strategy in 3 steps

1. State your vision: What does true business value of data mean for you?
2. Mark your point B: What is required to integrate collection, exploration and data processing into your organisation?
3. Get the right tool: Discover how CAPTURE can fit your needs!