



AI-powered MRI for in-ovo sexing

Enabling *No-Kill* eggs

Orbem

Orbem is a fast-growing AI company from Munich funded by the European Union.



€ 7.2M acquired funds since 2019



Successfully implemented first customer installation



Award winning technology funded by the European Union

Company History

Orbem was founded as a spin-out from the Technical University of Munich and has raised €7.2M (€4.5M equity-free) in funding.

Idea is born out of research

2019

Company foundation

Originated from years of research in biomedical imaging, physiology, and embryology



Funded by the German Federal Ministry for Economic Affairs and Energy



Product development kick-off

2020

Product development

Development of a fast, accurate and safe product for object classification

First pilot in Orbem's lab

Pilots and product launch

2021

Pilot at customer hatchery

System development and integration

First product sales



Funded by pre-seed round and EIC Accelerator Program

Scale up to new customers

2022

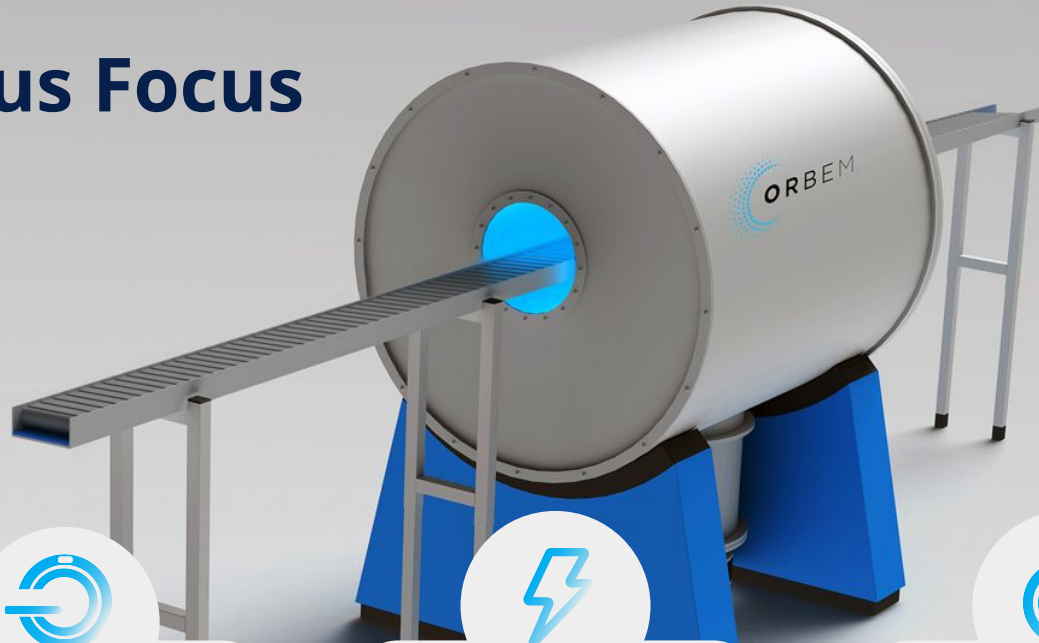
Q1: *Seed funding*

Q2: *Production and operations scale up*

Q3: *First in-ovo sexing system in operation*

Q4: *Commercialization of in-ovo sexing*

The Genus Focus



Contactless

- Scanning of the eggs without intrusion or sample extraction
- MRI does not emit radiation



Fast

- Data acquisition limited to necessary features for sexing
- Full automation of the process



Accurate

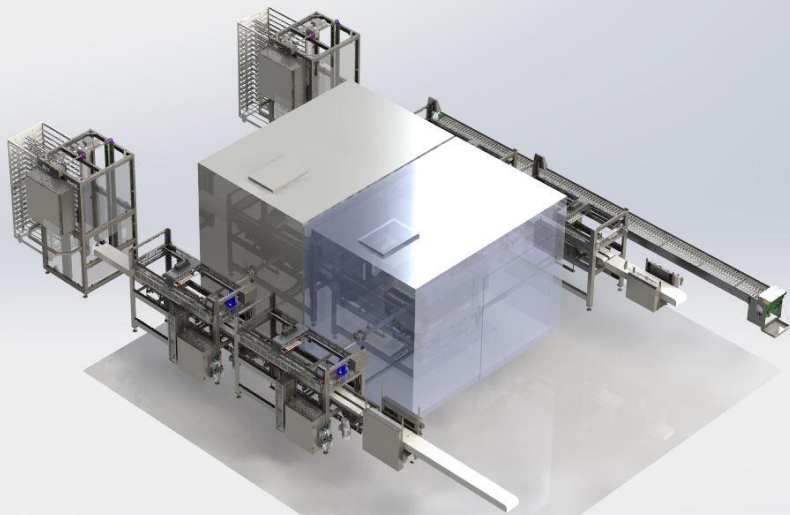
- Independent of aviary bird breed or cleanliness of the shell
- More than 95% accuracy



In-Ovo sexing with **AI-powered** MRI technology

The Genus Focus

Provides a fast and contactless solution to detect the sex of the chicken embryo in-ovo.



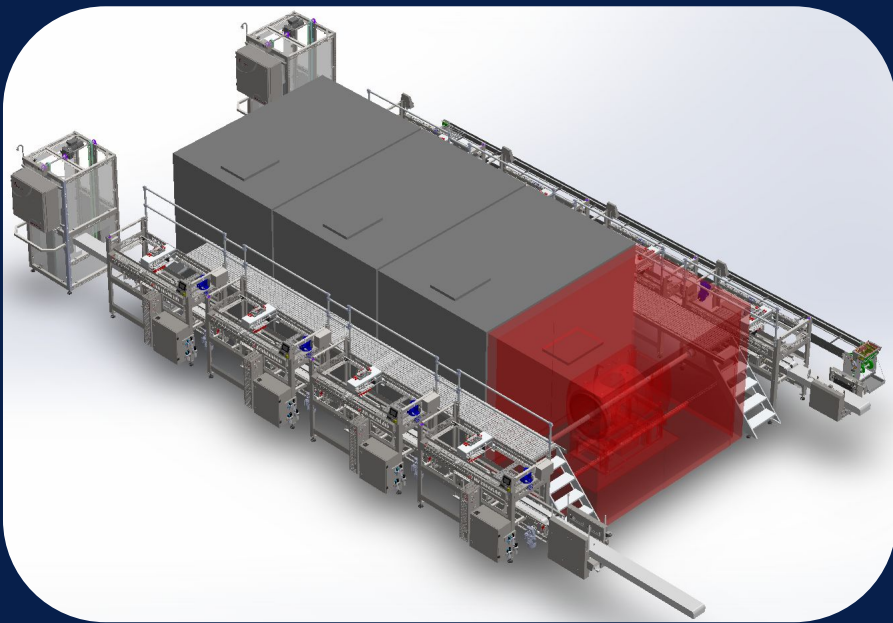
In-ovo sexing on days 12 and 13

Works for **all breeds** (white, colored, brown)

Scan up to **3,000 eggs/hour**

Full System Overview

Multiple systems in parallel will match your production capacity and allow for scaling.



4 systems in parallel achieve **12,000 eggs/hour**

Fully automated scanning and sorting

Seamless **integration** to your process

No-Kill Eggs Value Chain

At 1 ct/egg price increase, consumers and retailers can stop the culling of male chicks.



European Retailers

Marketing campaigns in Europe have caught consumer attention.

European retailers launched the campaign “Ohne Kükentöten” (translates to: without culling of chicks) due to pressure from the society, accelerated by regulatory changes.

Culling of male day-old chicks has been banned in Germany since January 2022 and will be banned in France starting January 2023.



Our References



Hendrix Genetics (I.S.A.)

4 systems operational in
January 2023



Lanckriet

2 systems operational in
January 2023



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