

SOLUTIONS



Foundation 2021 – Spinoff Uni Bremen (2019)

**Business** B2B

**Sector** Measurement / Sensor Technology



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## **Our Vision**

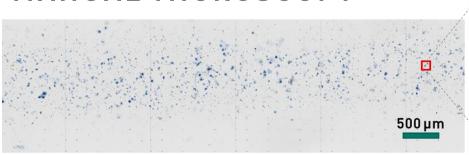
Empower particle and microorganism recognition with automation and Al technology, at minimized cost while maximizing performance.





# **Problem**

MANUAL MICROSCOPY







Time-consuming



Cost-intensive



Burdensome

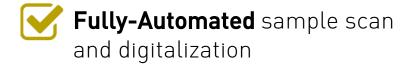


Risk for quality and safety



## Solution

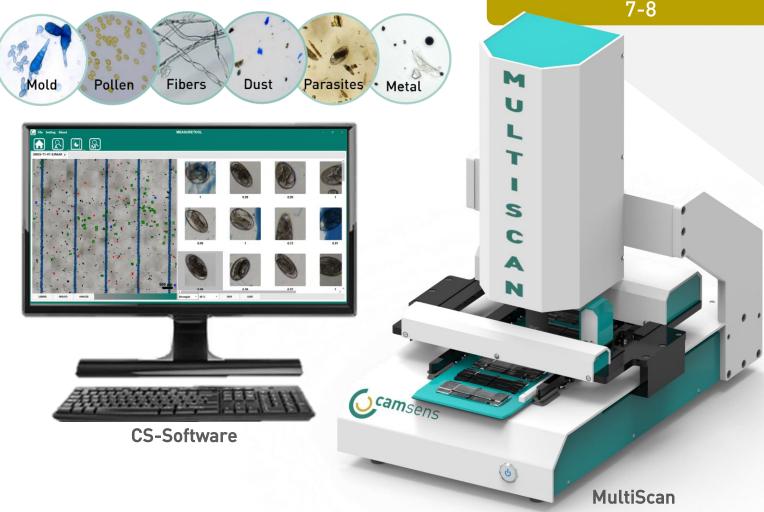
AUTOMATED **HARDWARE** AND SMART **SOFTWARE** FOR MICROORGANISM AND PARTICLE RECOGNITION





Machine Learning to enable easy training of new particles

**Documentation** for enhanced reliability and traceability





**Technology Readiness Level** 

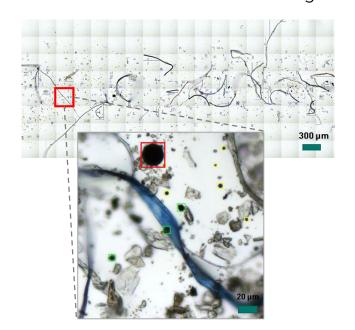
# Market and Opportunities

POSSIBLE MARKET POTENTIALS IN ALL AREAS STILL UTILIZING MANUAL MICROSCOPY FOR ANALYSIS

### Particle training with Al

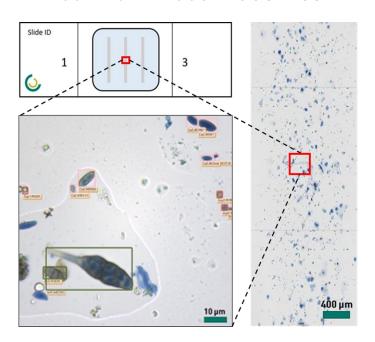


**Metal powder** - atomization & additive manufacturing



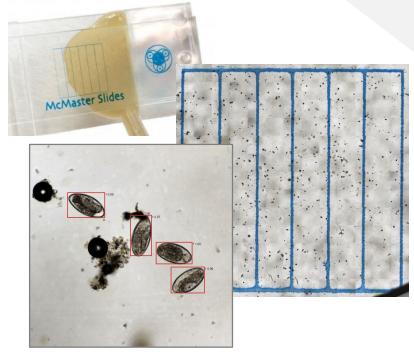


**Mold detection** - air quality control in food industries





Parasite recognition – veterinary diagnosis

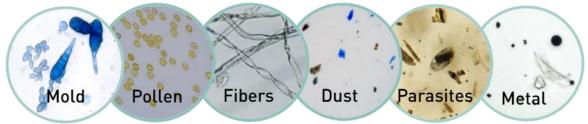




# Case Study 1 - Details

A RISK FOR **HEALTH SAFETY** AND **PRODUCT QUALITY** IN MANY INDUSTRIAL SECTORS









**Dairy Industry** 



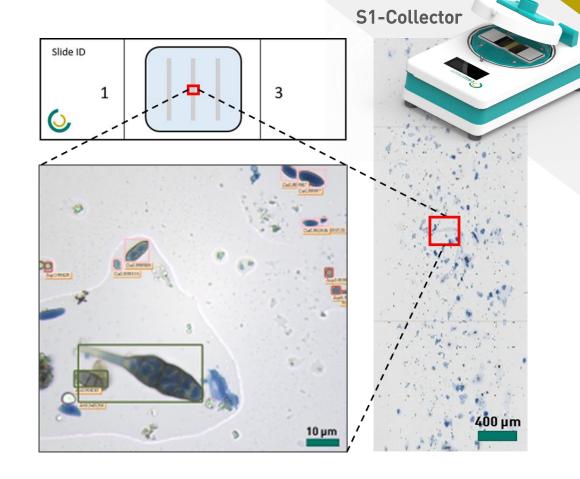
**Pharmaceutical** 



**Environmental Labs** 



Powder metallurgy industry

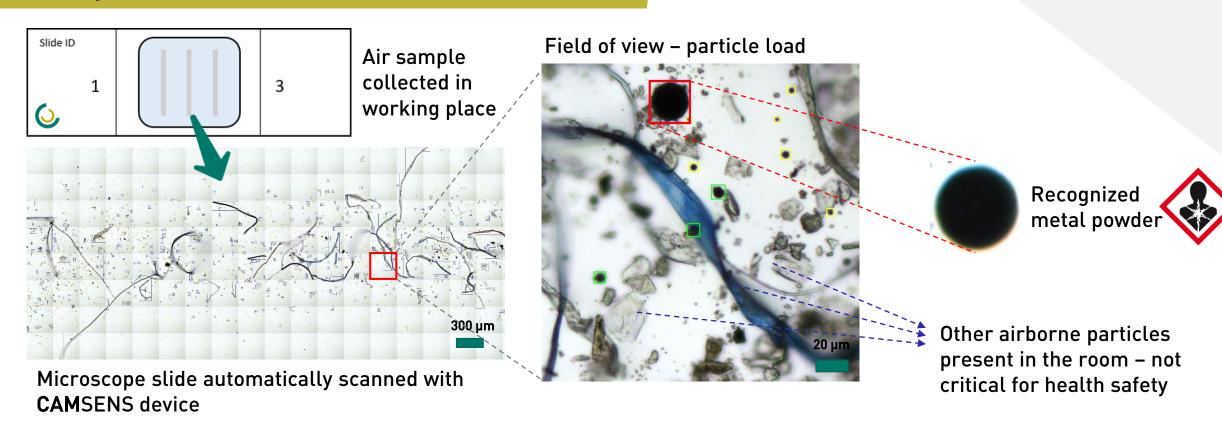




# Case Study 2 - Details

AI-BASED TECHNOLOGY FOR PARTICLE RECOGNITION

#### Metal powder detection





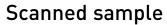
# Case Study 3 - Details

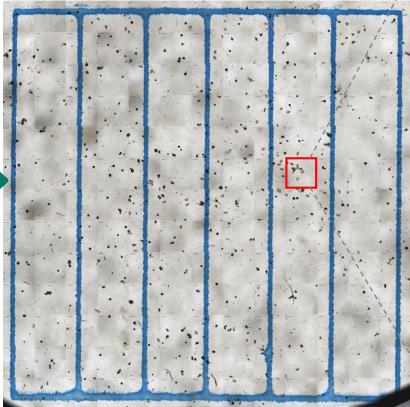
SUPPORTING DIAGNOSIS IN FARM ANIMALS

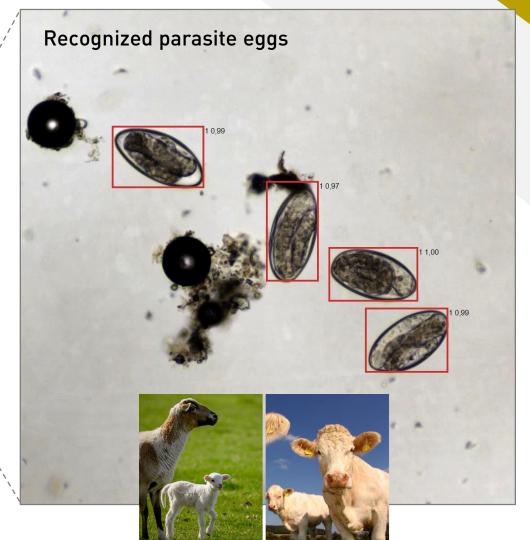
### Parasite egg detection in farm animals

McMaster egg counting chamber



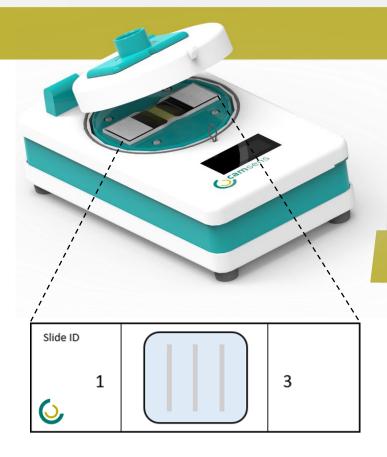








## **Our Hardware Devices**



#### S1-Collector

**Air sampling system** by impaction onto microscopic slide of a defined (adjustable) volume of air.

#### **CS-Multiscan**

Automatic high-resolution scanner with extensive sample flexibility (Slides, MacMaster, and Petri dishes) for air and liquid samples. Its capacity for simultaneous, multisample scanning allows for efficient data collection in a single run.

Camse





# **Al-based Continuous Monitoring**

**NEXT GENERATION** OF AUTOMATED SOLUTIONS for indoor environment and other critical areas

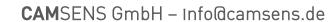
### Real-time Monitoring of Particles and Microorganisms

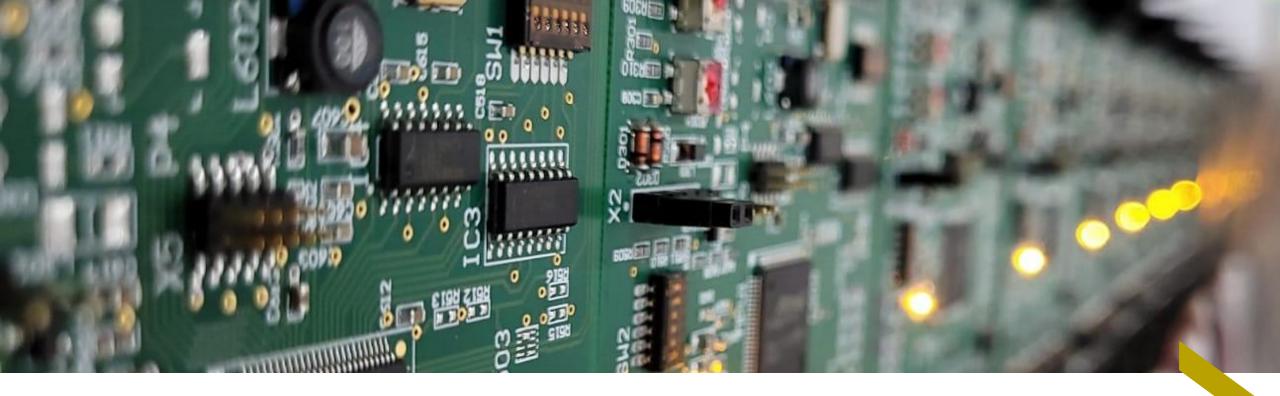




- Airborne Microbial Measurement
  CFU/m³ determination for biological applications
- Continuous monitoring and early detection made possible
- Decreased contamination risks to and by employees
- Work and occupation safety increased and controlled according to regulations







## **Our Additional Services**

WE OFFER CONSULTING, TECHNICAL SUPPORT, AND CUSTOM-SPECIFIC DEVELOPMENT FOR QUALITY CONTROL SOLUTIONS.





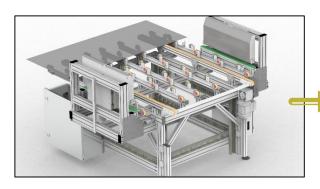




## Further Solutions We Provide

CUSTOM-SPECIF SOLUTIONS FOR THE MANUFACTURING LINE EXAMPLE OF REFERENCE PROJECT

### Solar panel production – quality control



**Concept solution and development** of key-work
packages, project duration
and final solution scope.



**Implementation step** of machinery, software, and electronics.



Assembly, testing, and evaluation of our systems.



**Continuous support** and commitment to the functionality of our products.

Get in touch to know more about CAMSENS and our development solutions.



# Why work with CAMSENS?

YOUR ADVANTAGES AS A PARTNER



#### Enhanced analysis conditions and increased work safety

Worker conditions | Higher sample throughput | Documentation



#### Flexible Business Model

Hardware as a Service with Software License | Direct sales Training of new particles | Documented results



#### Your specific needs

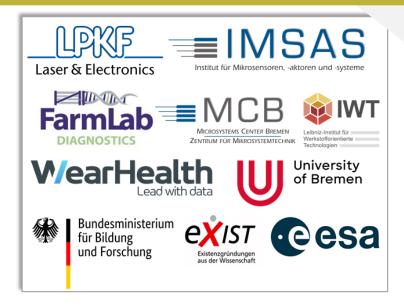
Customized Solutions | Cooperation Projects



#### 10 years of Experience

in Mechatronics, Electronics, Software, Al-based measurement and Particle Technologies

### Trusted by







Empowering Automated Particle Recognition with AI Technology