



Biocam.ai

Remote capsule endoscopy supported by Al

The Deadliest Cancer



Colorectal Cancer is the **deadliest** cancer for men

AGED 20-49



The cancer of Millennials and Generation Z



The American Cancer Society indicates that by 2030 the number of colon cancer cases will increase by

90%







Colon and rectal cancer cases are going up among people younger than 50, researchers say

By Jacqueline Howard and Faith Karimi, CNN

Updated 9:59 PM EDT, Sat August 29, 2020



>70%

of all digestive system cancers are detected in the **last 2 stages** of development

Social fear of traditional endoscopy







Problem Effect



COVID-19 accelerated the digitization of the healthcare system by at least a decade







High price (1000-3000 €)



PROBLEM

WITH ENDOSCOPIC CAPSULES



Intended only for single segment of GI track



Long time to interpret results (3-12 h)



Monopoly of capsule companies



Technological stagnation







Biocam Al Endoscope





Key Features

- Low invasive measurement
- Safety
- Automatic recognition of lesions and pathologies
- Measurement results available in the cloud
- High image resolution
- Wireless communication
- Remote at home examination

BioCam Solution



Hardware

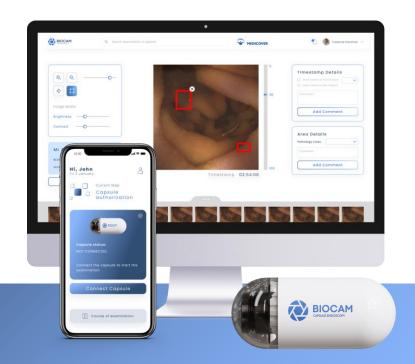
Endoscopic capsule & receiver

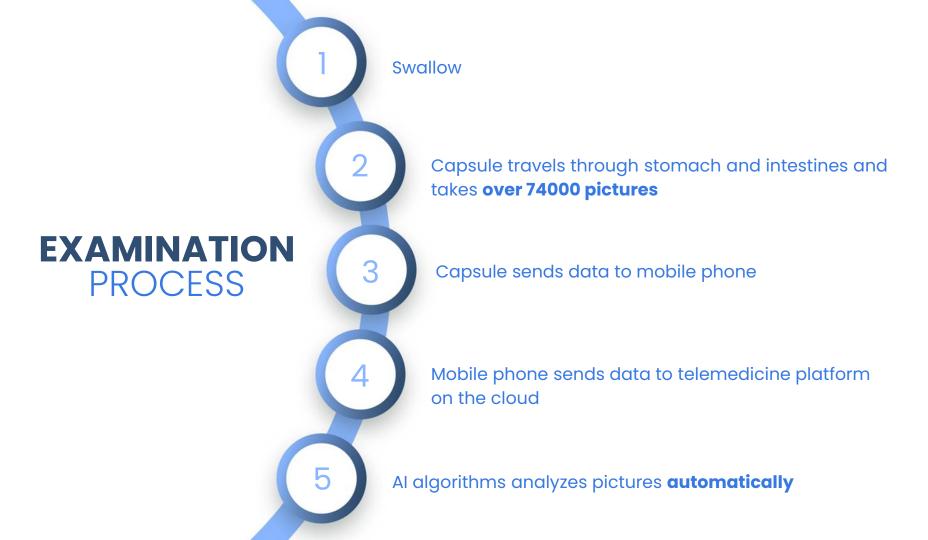
Software

Capsule, receiver, mobile app and telemedicine platform

Own Al system

Advanced algorithms for automatic pictures analysis





Complete Remote Solution



Remote Solution for gastrointestinal examination

The technology allows you to carry out the entire examination without interrupting your daily activities



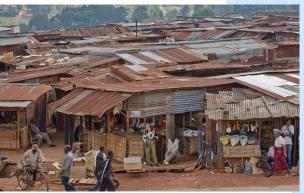
Examination in extreme conditions











Animal examination



Possibility of examination animals digestive system











Animals capsules



Humans capsules

existing endoscopic capsules







for animals capsule for dogs and large cats

Endoscopic capsule

>>>>>

- New technology for animals
- **NBI** lighting
- Receiver adapted for animals



Small endoscopic capsule for animals capsule for small dogs and cats

- + Capsule diameter smaller by almost 20%
- New hardware solutions

- + Larger capsule size = extend service life and new features
- + New methods of communication
- + Larger field of view of the capsule

Medical Drugs & Nutrition

Effectiveness Proof



Assess the effectiveness of products on the market



Monitor the testers during the development process of new products



Evaluate the effectsof treatment of
patients' digestive
system diseases





Independence from third parties

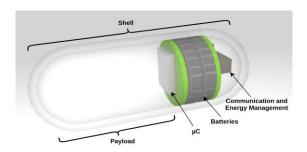
PROS OF HAVING YOUR OWN CAPSULE ENDOSCOPY SYSTEM



Scalability



Flexibility





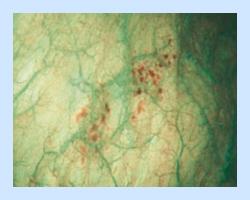
Ease of implementation

NBI lightning





Normal white light



NBI light

NBI provides additional diagnostic value by illuminating tissues with different wavelengths of light

Competition

Analysis	Low Invasive	Wireless Communication	Automation Analysis	Remote Solution	Eximine entire GI track	NBI (Narrow Band Imaging)	Pet Examination
BIOCAM © BIOCAM	\bigcirc	\bigcirc	\odot	\bigcirc	\odot	\odot	\odot
Medtronic PillCam	\bigcirc	\odot	×	×	×	×	×
OLYMPUS' Your Vision. Our future	PUS V	\odot	×	×	×	×	×
Mir Cam Mirecan		\odot	×	×	×	×	×
Capso (Am)	\bigcirc	×	×	×	×	×	×

Power of our own Al system





The **Biocam** model learns to recognize many different pathologies of the stomach and small intestine.

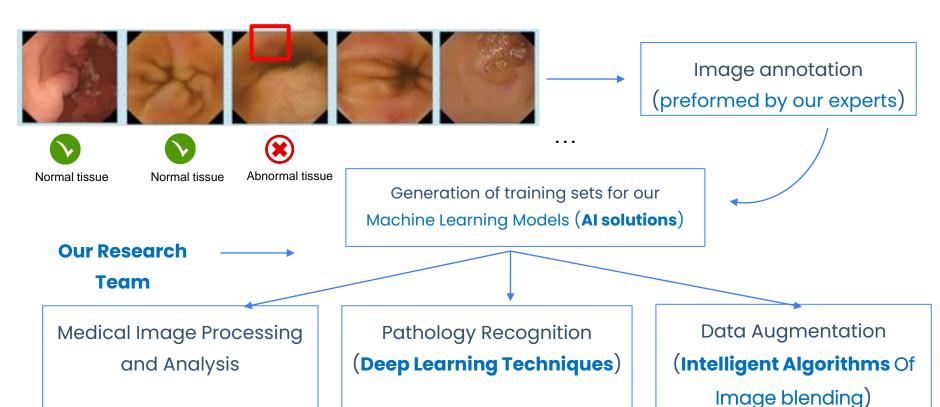




Pathology tissue: Angiectasia

Research Process Flowchart

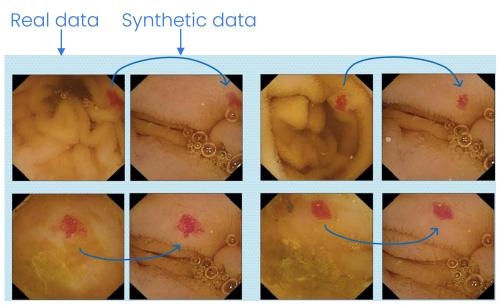




Intelligent Algorithm Of Image blending



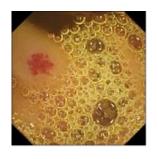
We merge pathology regions with the normal tissue images (assuming corresponding transformations between the pathology regions)

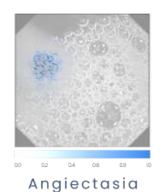


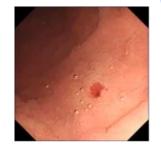
Power of our own Al system

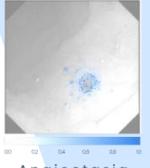


A visualization confirms **classification accuracy**









Angiectasia

97% classification accuracy per image and100% classification accuracy per patient

Biocam Team



Our ambition is to develop a new, completely safe and non-invasive endoscopic capsule-based system for gastrointestinal observation and diagnosis of abnormalities and diseases, capable of recording and imaging the entire gastrointestinal tract, which can be easily used by the patient at home while physicians can monitor the results in real time.



Biocam Experience





Exceptional team of over 40 professionals



MATEUSZ MICHALAK
HARDWARE
DESIGN LEADER

JAKUB NIEMCZUK
CO-FOUNDER AND SENIOR
ELECTRONICS SPECIALIST



MARTIN TABAKOW, ENG. PHD

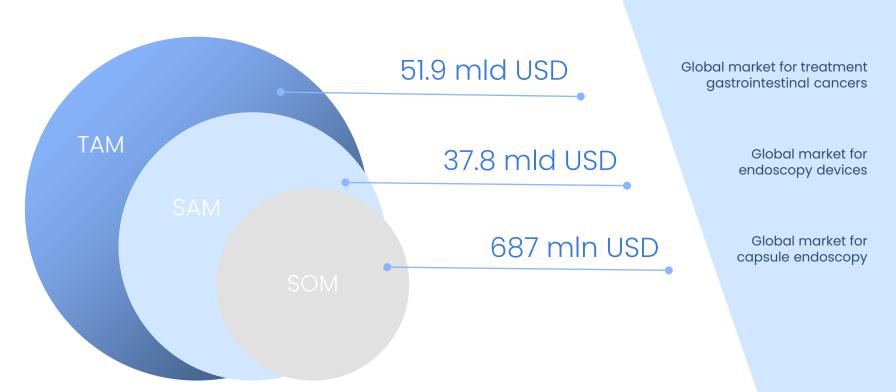
AI RESEARCH AND

DEVELOPMENT DIRECTOR



ROBERT STACHURSKI
CO-FOUNDER AND
ADVISOR

Market opportunity



Business model Distribution ((((o))) Hospitals Clinics Licensing

Why licensing?

Biocam technology



Reduction of costs and risk of implementation to the market
Scale faster

WIN-WIN

Brand awareness Income

Users
Uses the latest technology

PHILIPS

- R&D cost reduction
- Risk reduction of new product development
- Increasing market share

Licensed product

Deals in pipeline



Animal (signed **LOI**s)











laboratoria ...więcej niż wynik



















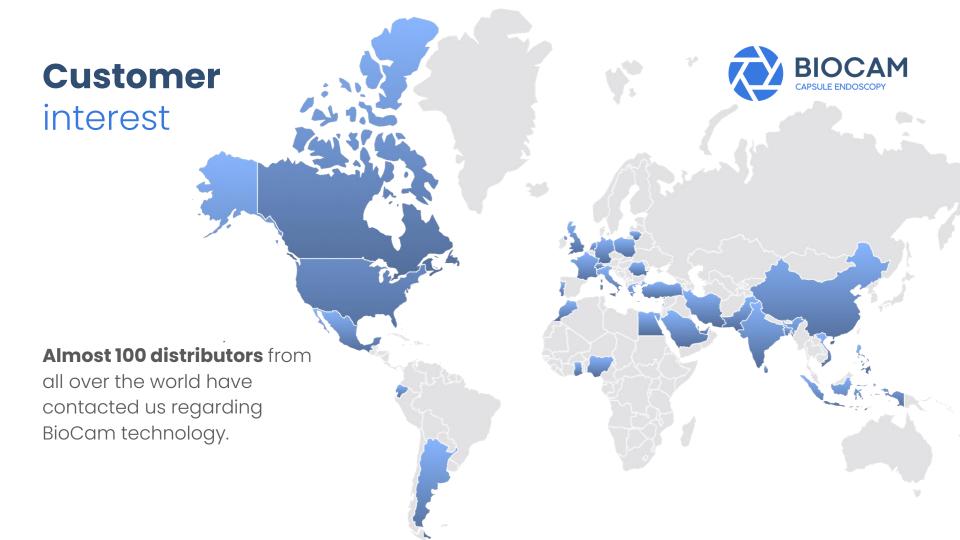


NEUCA





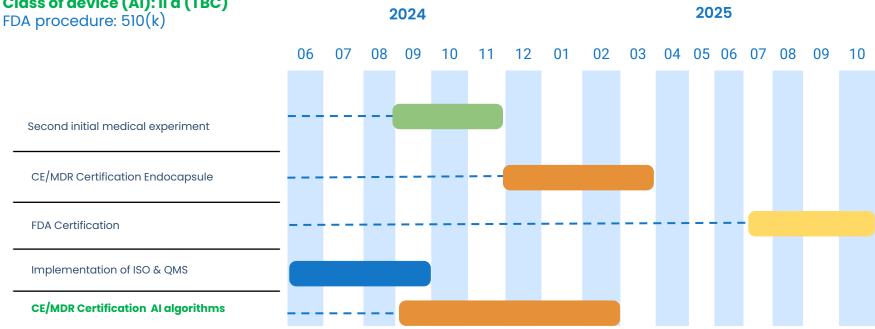




Medical certification strategy



Class of device (AI): II a (TBC)



Future roadmap



Full commercialization Investment exit

First commercialization further R&D

Development and certification
Al capsule endoscopy
first R&D phase

- Obtained CE certification
- Launch PetCam Capsule for large pets
- Corporate pilots
- Launch BioCam Capsule Endoscopy Platform

- Sign license partnerships
- New functionalities development (e.g. contrast, drug release)
- Development of new capsule for animals - for horses and small pets
- · Obtained FDA certification

- Launch new approved devices
- License to manufacturer for rapid scaling
- Sign new corporate license partnerships

2024 : 2025 : 2026 : 2027 · 2028

Business plans for 2024



Q4 2024 / Q1 2025

Q2 2024

- Starting the QMS / ISO 13485 implementation process
- Experimental patients / zero animals / dogs (beagles)

Q3 2024

- Start of a medical experiment on 120 patients*
- Pilot studies on animals

- Start of clinical trials and certification process to obtain CE certification for European market
- Signing license / distribution agreements
- Pilot sales of vet / pet capsules
- IPO
- Potential start of the vet grant*
- Potential start of the regional grant*

BioCam financing



10.5 mln PLN

Capital from investors,

VC funds and

European grants



Thank you for attention











Let's save more lives together



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