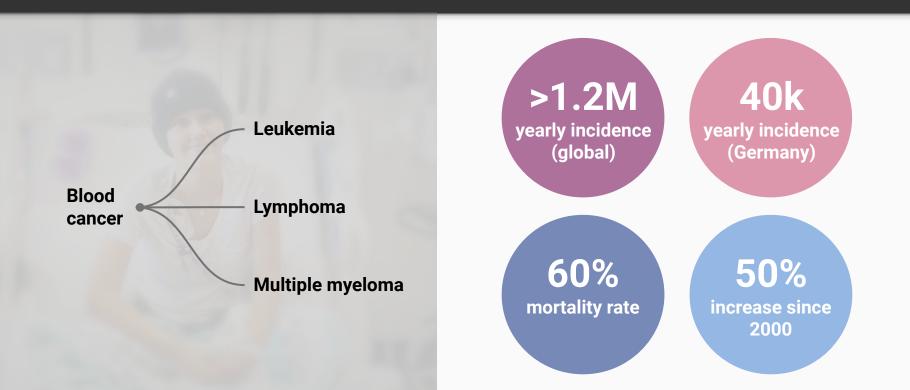
HEMATO

Al-based Decision Support for Clinical Flow

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Blood cancer

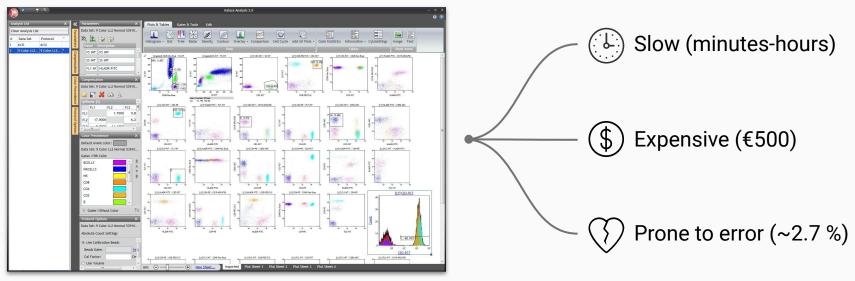
Blood cancer is a major burden on patients and society



The Problem. Slow, costly, prone to error.

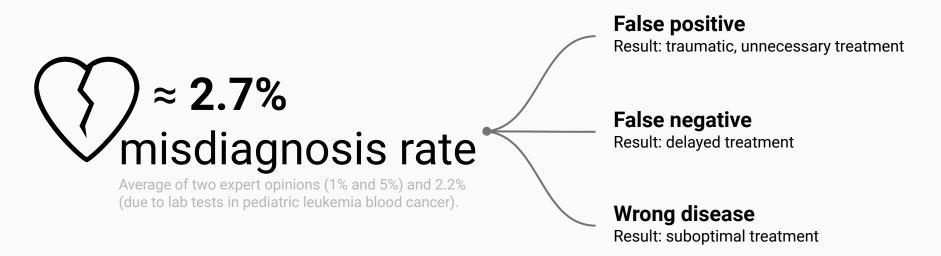
Workflow hasn't fundamentally been updated

Doctors look for abstract patterns by eye in complex blood measurements using outdated software



The Problem. The cost of misdiagnosis.

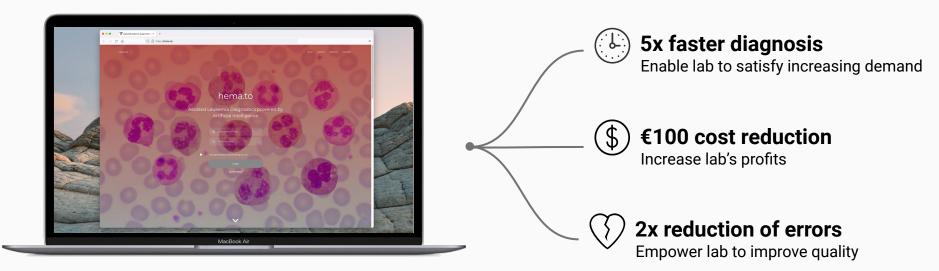
Patients experience the health cost. Insurers pays the financial cost.



Insurers incur **€450 hidden cost** per sample from these misdiagnoses

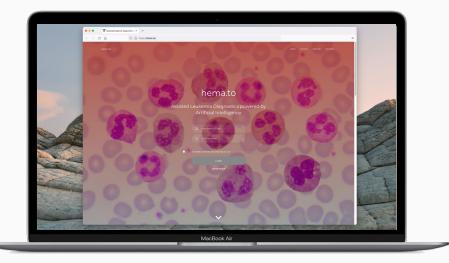
The Solution. Introducing hema.to

Increase efficiency while maintaining quality



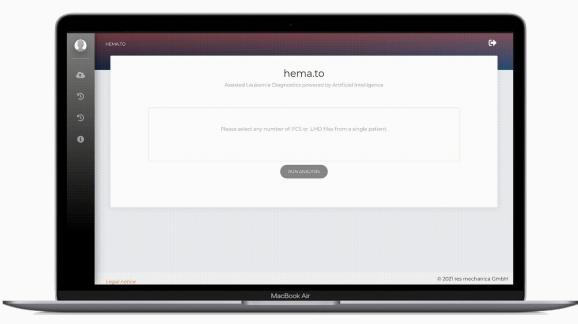
The Solution. Introducing hema.to

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Our mission: **10x reduction of misdiagnoses** hema.to is our proprietary web service based on state-of-the-art AI to diagnose leukemia...

automatically, consistently, on expert level, & within seconds



hema.to in action on patient with chronic lymphocytic leukemia (CLL)

hema.to is a highly scalable SaaS in a global market





globally standardized file format



zero integration costs

because hema.to is a web-app



hardware agnostic

because labs use PC for diagnosis

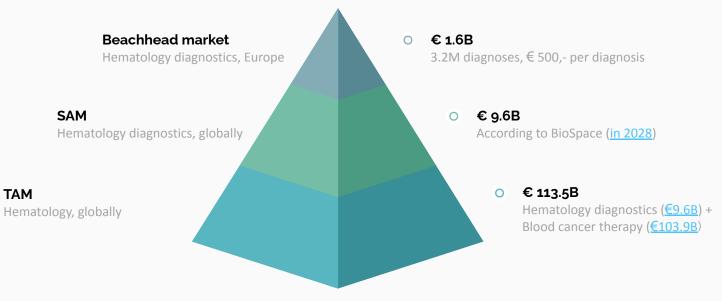


B2B sales

to private labs with profit motive

Steady cash flows from fixed demand for diagnoses

Market size



Adjacent spaces

Immune therapy (<u>€86B market</u>)

Flow cytometry is used for monitoring & guiding immune therapy, a $\underline{\&86B}$ and rapidly growing market. Value proposition: automated routine monitoring.

Next-generation sequencing (NGS, <u>€7B market</u>)

NGS is used for diagnostics, prognosis and determining treatment of blood cancers, a <u>€7B</u> <u>market</u>. Value proposition: integrate NGS with flow cytometry.

Cytogenetics (€2.6B market)

Collection of techniques used for diagnostics, prognosis and determining treatment of blood cancers, a <u>€2.6B market</u>. Value proposition: integrate diagnostics for personalized diagnoses.



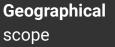
Business model

Customers: private hematology & hospital labsDemand:SaaS fee:Revenue:10k×€20,-=€200kdiagnoses perper diagnosisper customercustomer

Scope









Beachhead Flow cytometry market

Follow-up markets Other diagnostics (a.o. ICA), immune therapy

Global (~4k labs)

Europe (~650 labs)

Market Traction

Approached us to build a payed prototype

Paying customer of our service

Cooperation partner; **convert to paying customer** after validation in live setting



"hemato's quantitative diagnosis is **revolutionary**"

> **Early adopter** Dr. Cassano Juan Carlos Zentrum für Labormedizin



SYNL/

Early adopter, **convert to paying customer** after validation of diagnoses

Additional potential customers that already handed over data:

Institut für

Hämatopathologie Hamburg

> Universitätsklinikum Erlangen







Our competitors are not automating the entire workflow

Device manufacturers:

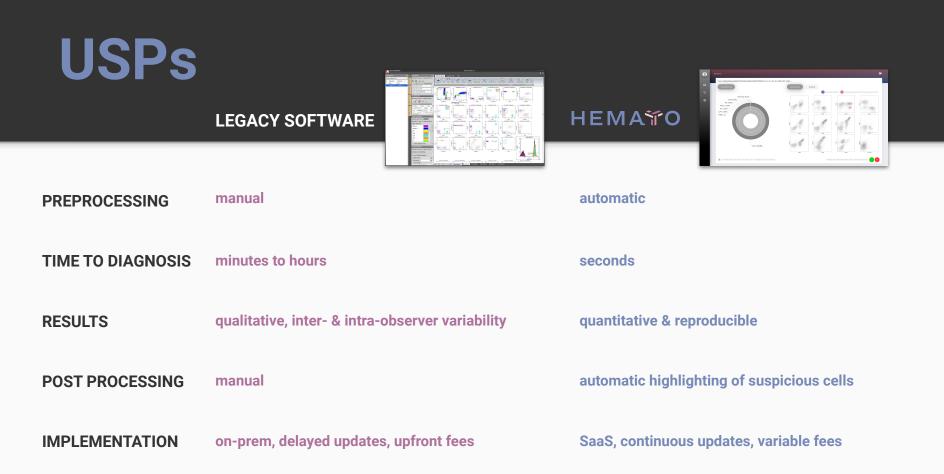
conventional (manual) software

Tech startups:

partial automation, no end-to-end diagnosis

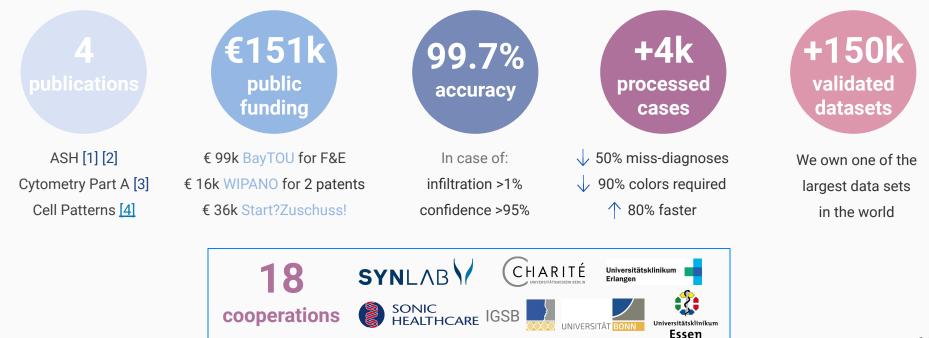






Factsheet

We've put ourselves in an excellent position to scale



Milestones

Our vision: capture the leukemia diagnosis market with a comprehensive diagnostic platform



Requirements

We are looking for motivated cooperation partners and up to 3M seed funding.

With this seed funding, we:

- scale across the ca. 650 labs in Europe (expand marketing and sales teams)
- get reimbursed for our improved diagnostic quality (4B revenue stream)¹
- commercialize integrated diagnosis (see "Vision")

With this, we project to be profitable by October 2023 and to achieve a 5% market capture ² by 2025.

1) Assuming a fee of 100 E per diagnosis (ca. 20% of the hidden cost of misdiagnosis) for 40M yearly diagnoses.

2) Assuming 6 new free trials per month and sales/marketing employee and a 25% conversion rate after the trial phase.

Our vision

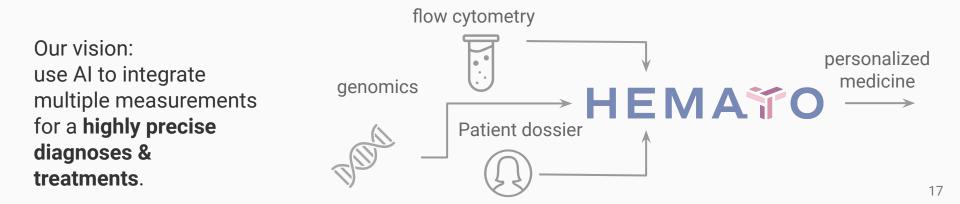
"We don't know how to combine the diagnostics for 10-20% of our patients"

Dutch hematologist

Increasingly precise and personalized treatment options Increasingly diverse and complex diagnostics

Correctly interpreting multiple data sources therefore becomes **increasingly relevant**, but also **increasingly challenging**.

Clinicians need a **comprehensive platform** to integrate all diagnostics.





We combine the necessary skills in science, tech, and business



Founder (business) Dr. Hannes Lüling

Hannes holds a PhD in comput. Neuroscience and has **a decade of experience** in both DAX companies and startups. His role is managing director as well as representative of hema.to.





Founder (AI) Dr. Franz Elsner

Franz is a former cosmologist and our AI expert. He is the creator of a multitude of novel approaches for data analyses in over **120 peer-reviewed publications**.

X



Founder (tech) Felix Kunzweiler

Felix is a full stack data scientist with a M.Sc. in physics. He has gathered a deep understanding of the development of **cloud applications and Al-based** web services.





Founder (product) Dr. Karsten Miermans

Karsten is our in-house generalist with a **background in Al and biophysics**. As CPO, he ensures that the technology behind hema.to is transformed into a great product.





PRAXIS FÜR HÄMATOLOGIE UND ONKOLOGIE BERLIN MITTE

Medical advisor Dr. med. Richard Schabath Founder of a hematological lab in downtown Berlin.



Research advisor Prof. Dr. med. Peter Krawitz Director of the Institute for Genomic Statistics and Bioinformatics of the University of Bonn.