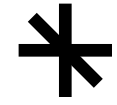


U



UNSEEN™ BIO

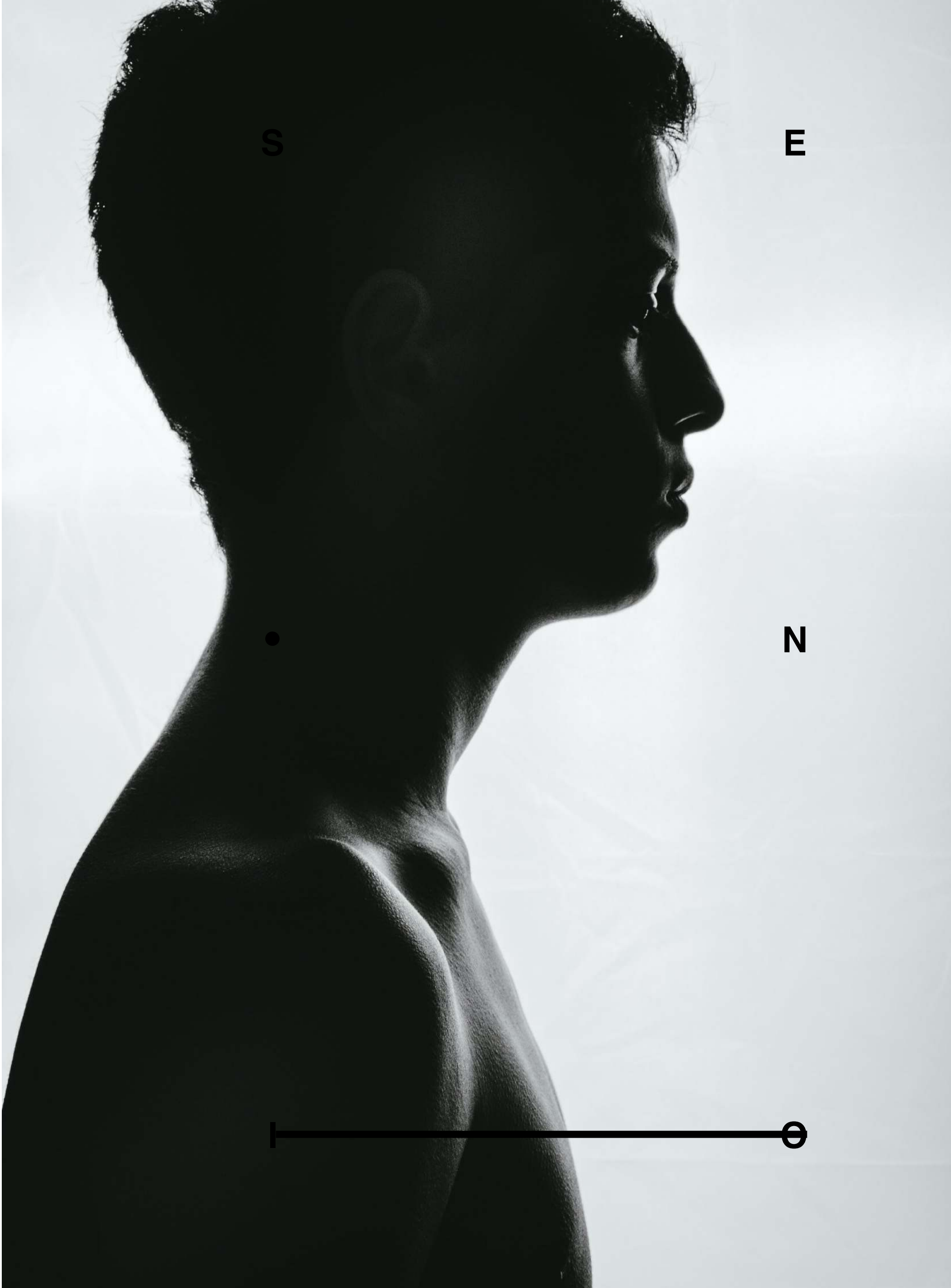
YOUR DIGITAL GUT



E



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WHO ARE WE?

WHAT WE DO

Unseen Bio is a digital health tech company bringing test and data based decision support to our customers

OUR PURPOSE

We will unleash the health tech potential of stool data

TEAM

Bioinformatics & software

People & product development

Systems biology & Computational models

Software & IT

Operations & finance



Moritz Beber



Johan Bruun Hartmann



Christian Lieven



Ali Kaafarani



Jens Böttcher Gandløse

PROBLEM - IBS

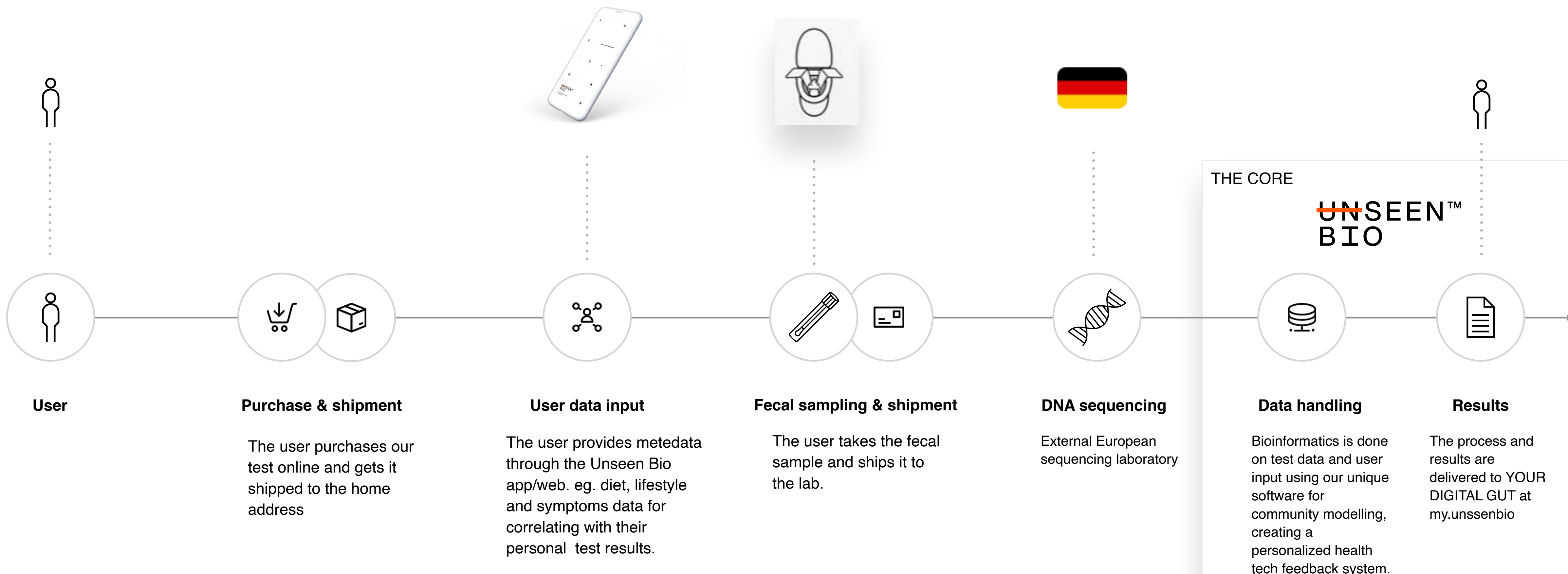
IRRITABLE BOWEL SYNDROME

P — 03



- **16% of western population struggle**
- **“You are not sick” - No help**
- **Severe symptoms and affected life**
- **The worlds most expensive disease**
- **Few treatments with unproven effect**
- **80% of IBS patients can not be helped by GPs.**

SOLUTION - YOUR DIGITAL GUT

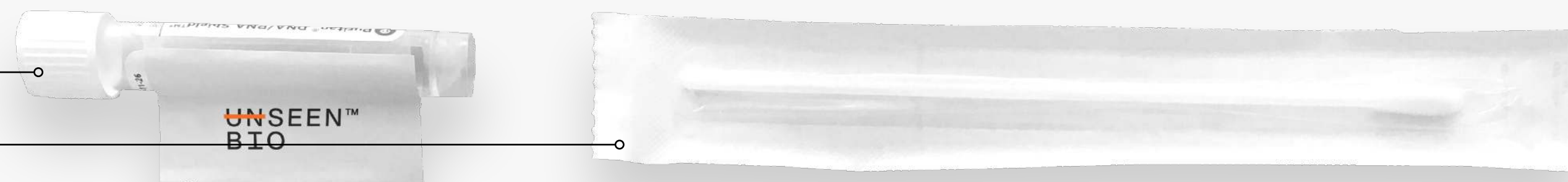


FECAL TEST

P — 05

Sample tube

Swap



Guide

Sample Catcher

Prøverøret er registreret til dig, skriv dato og evt. anden bruger

Tis som du plejer

Påsæt opsamlingspapiret

Lav afføring i opsamlingspapiret

Skru låget af prøverøret uden at spilde indholdet

Dæk hovedet af vatpinden med afføring

Kom vatpinden i prøverøret og knæk af

Skru låget godt fast

Løsen opsamlingspapiret, og lad det falde ned i toilettet

Vent et øjeblik og skyl ud

Kom prøven i fragtkoveret

Kom i kuvert og send - porto er betalt

Carefully loosen in the direction of the arrow

How to use the FecesCatcher

Dear user,

The FecesCatcher facilitates the taking of a stool sample. It is simple and hygienic. For reliable results, without the risk of contaminating the sample. Water, urine, detergents and deodorants may affect the outcome of the analysis of the sample.

You should use the FecesCatcher as follows:

1. Open the FecesCatcher carefully in the direction of the arrows.
2. Paste the FecesCatcher on the back of the toilet seat, as shown in the second image.
3. Avoid that the FecesCatcher comes in contact with water.
4. After the defecating, take the sample as indicated in the instructions that came with the test set.

Carefully loosen in the direction of the arrow

MY.UNSEENBIO.COM

P — 06

PARTICIPATION

Register metadata such as diet, sleep and exercise to your personal profile. Adding metadata improves our analysis of your sequencing test results.

EMPOWERMENT

Take ownership of your situation and keep track of wellbeing, symptoms, their severity, and stool properties.

COMMUNICATION

Monitor test process and receive reports, statistics, actions and counselling.

COMPLIANCE

Your data is protected as we ensure the highest level of compliance defined by the authorities.



YOUR DIGITAL GUT

ILLUSTRATIVE

Clear infographics developed specifically for this system.

SIMPLE COMMUNICATION

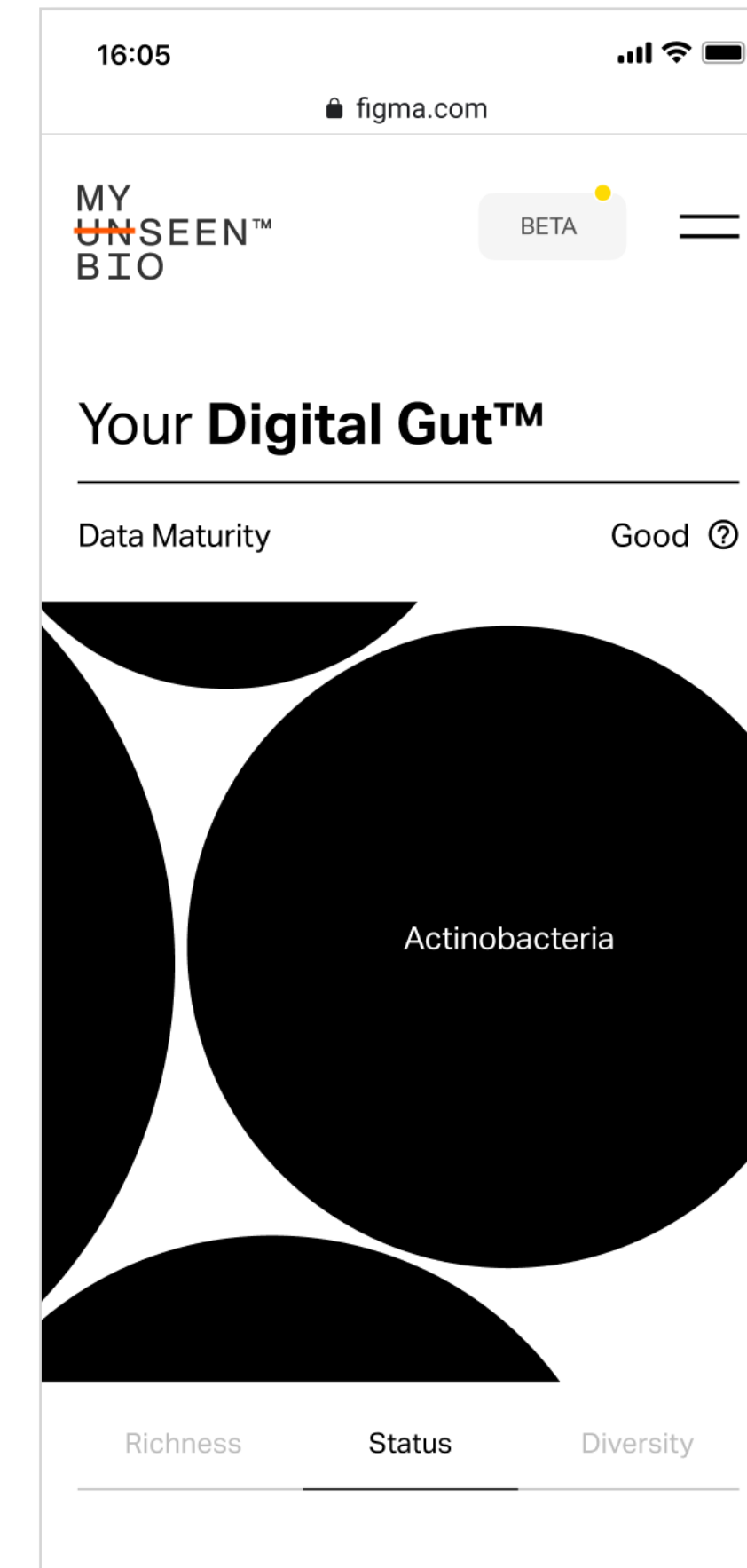
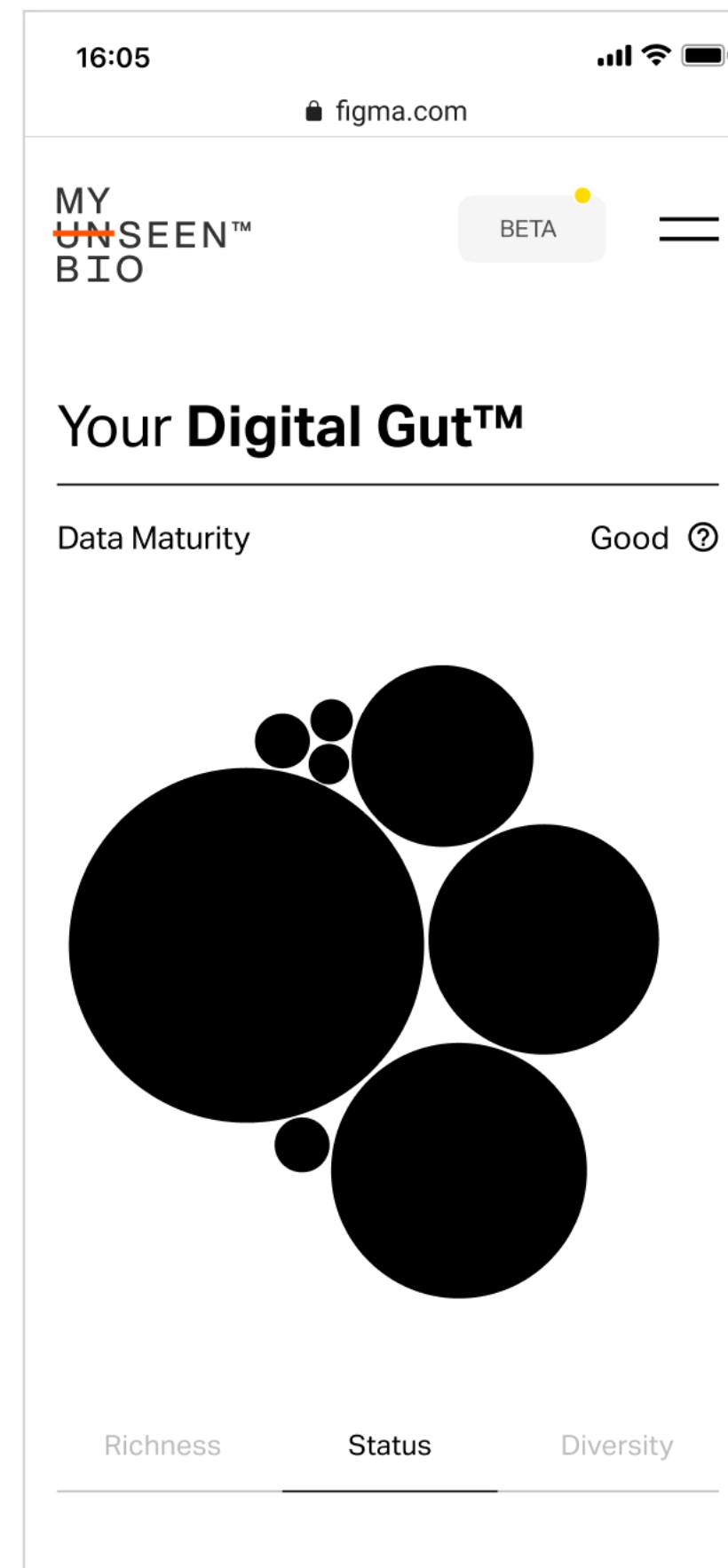
Language is local and carefully crafted to be understandable by the target segment.

EXPLANATORY CONTENT

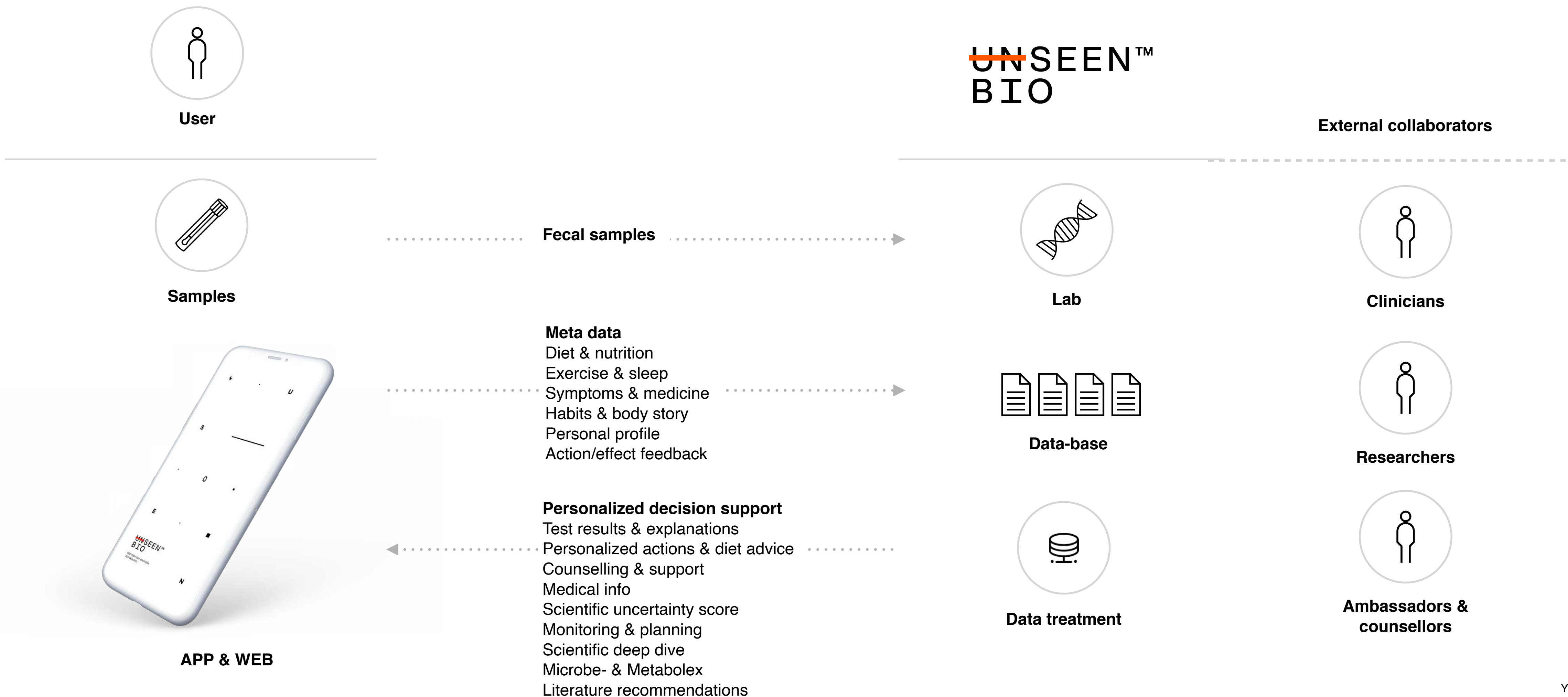
Provides both a quick overview of results and the possibility to take a closer look at explanations.

VALUE & RESPECT

Communicate measurements of valuable biomarkers, explanations and actions in a respectful manner.



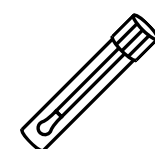
A TOTAL SYSTEM



CURRENT STATE

DIGITAL GUT

Personal sample.



DNA Sample Analysis.



Abundance of each organism.

16S RNA

Calculated abundances.



Average abundances reported in scientific literature.



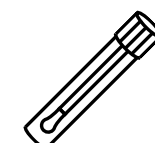
High level comparison and generic advice.



GO TO MARKET

DIGITAL GUT Pilot launched July 2020

Personal sample.



DNA Sample Analysis.



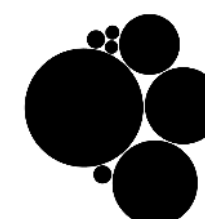
Full genome of each organism.

FULL

Calculated abundances.



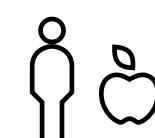
Digital copy of the individual gut microbiome. We can add or remove bacteria, manipulate their function and determine the conditions they require to thrive.



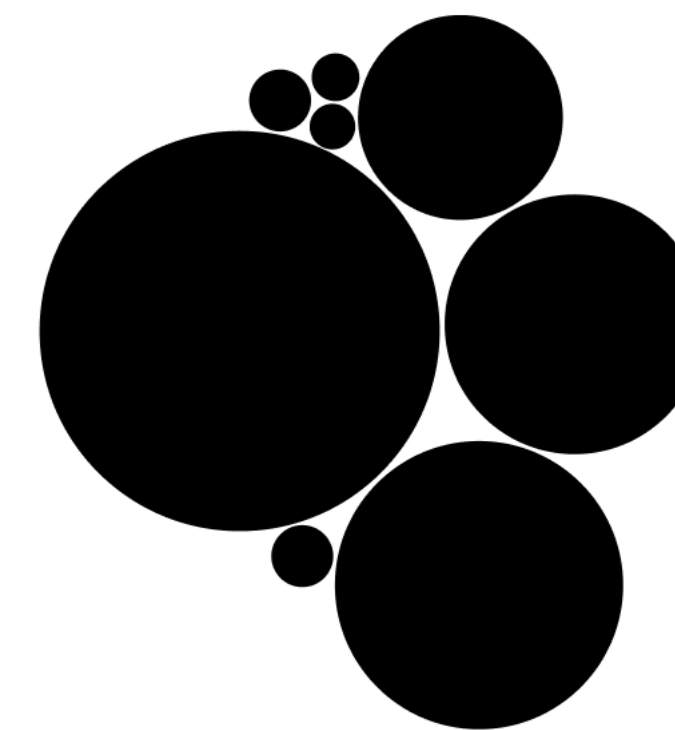
Detailed report / companion app.



Truly personal diet advice.



OUR CORE



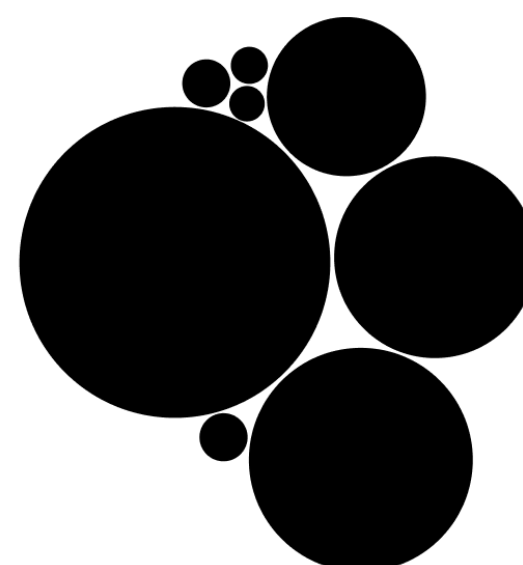
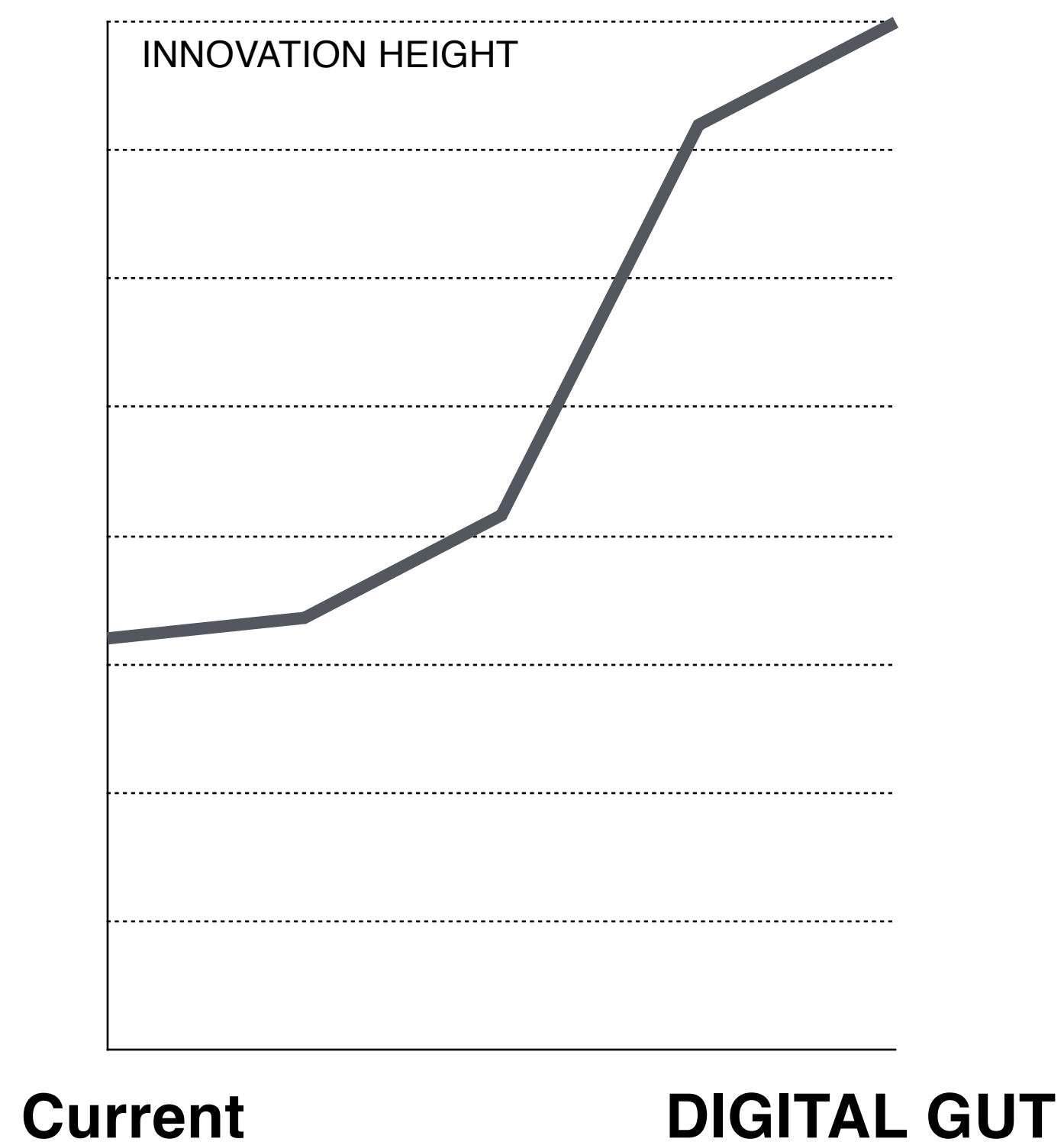
Individual digital microbiome model

Collecting & utilizing unique scientific data

Move from generic to personalized recommendations

INNOVATION JUMP

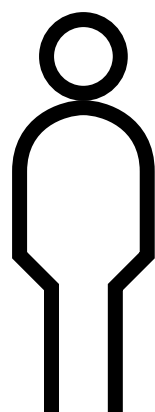
P – 010



- The core can create a virtual version of the individual microbiome including microbial functional interactions and metabolic pathways.
- The core can now exploit the detailed functional data from deep sequencing inserting it into the model.
- The virtual microbiome can now be adjusted by adding or removing organisms, nutrients and metabolites.
- It is possible to utilize the latest scientific discoveries by simulating how to achieve them and then test the simulation in real life.
- If certain changes in the microbiome can provide the optimal symptom relief to IBS patients, Unseen Bio will be able to simulate it in each individual gut and recommend how to test the effect.

IMPACT

P — 011



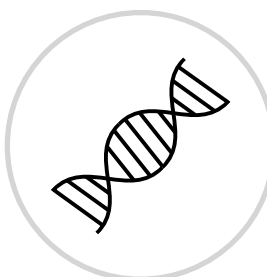
People

- Preventive and predictive healthcare
- Increased wellbeing and performance
- Monitoring possibilities
- Endorse healthy living



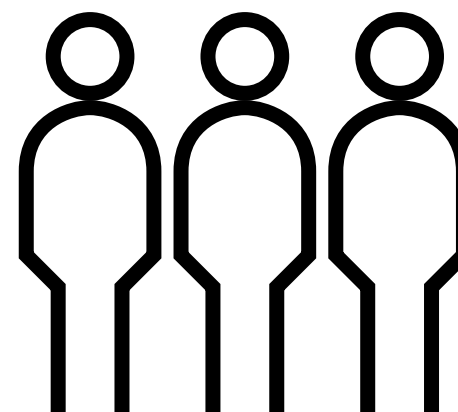
Patients

- Symptom reduction
- Self-treatment and empowerment
- Increased life quality
- Reduced time in the health care system.



Science

- Citizen participation
- Unique Data acquisition
- Large and diverse data.
- Research collaborations



Society

- Reduced cost for healthcare systems.
- eHealth and monitoring possibilities in collaborations with GPs has potential for substantial health cost reduction. 3 GP visits more pr IBS patient on average and up to 7 specialists visits pr year. 2 on average.
- Reduced work absence.



The global goals

- Utilizing the gut microbes has potential to impact the #3 global goal.

MARKET

P — 012

Market description

New and underdeveloped market of great uncertainties. However, if the research trend continues and the microbiome potential is proven the commercial potential is only the tip of the iceberg as numbers shown only represent the IBS market and not other verticals.

TA-M 500 BILL DKK

Total Addressable Market.
100% of the total western IBS-segment.

SA-M 15-25 BILL DKK

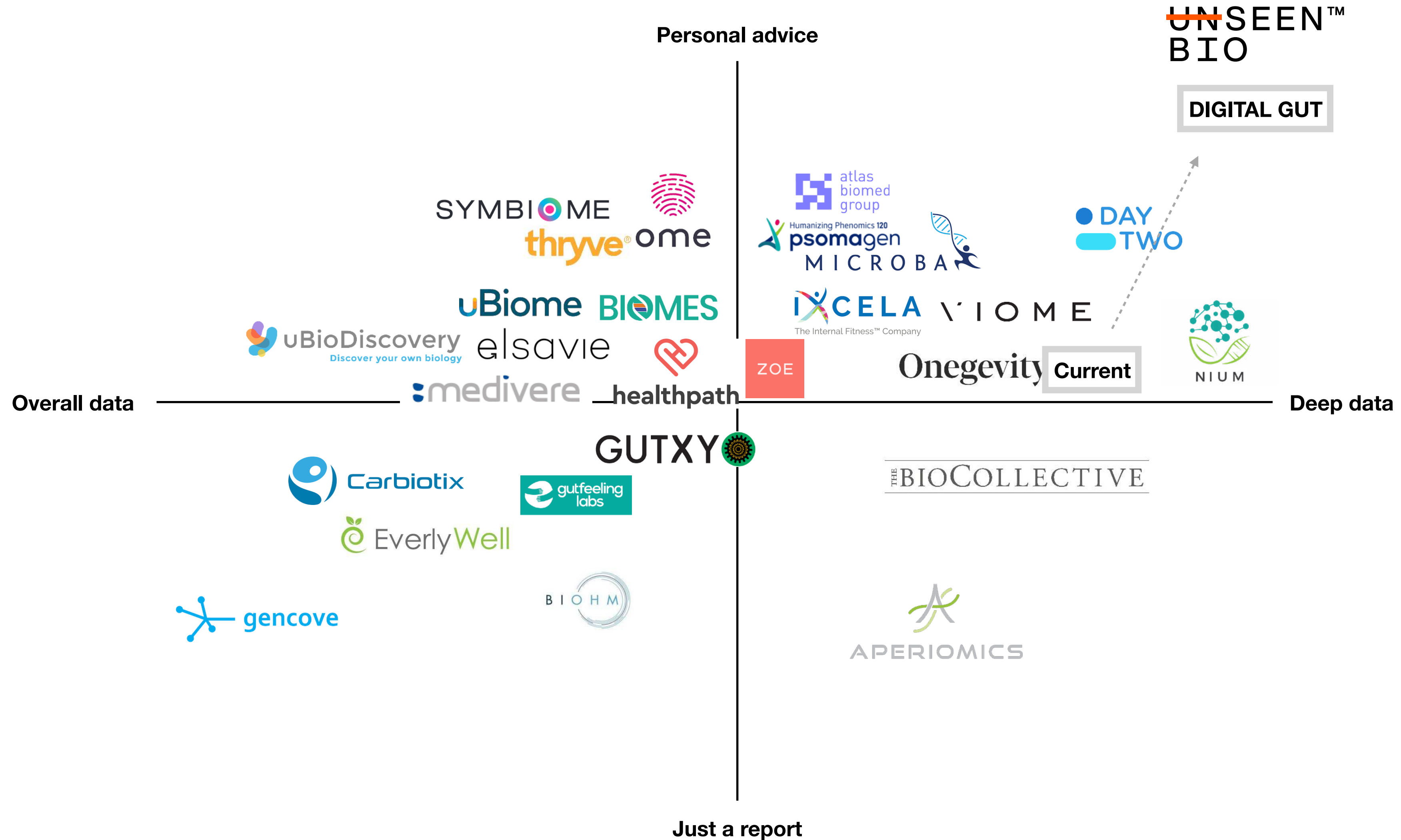
Serviceable Addressable Market.
3-5% of the total western IBS-segment.

SO-M 420-700 MILL DKK

Serviceable Obtainable Market
3-5% of the Scandinavian IBS-segment.

GLOBAL COMPETITORS

P — 013



BUSINESS MODEL

P – 014

Direct sale & retail

Online

DIGITAL GUT - Sample Kit

DIGITAL GUT - Standard subscription

DIGITAL GUT - Premium subscription

Private sales channels

Clinical dietitians

New analysis to their toolbox and option to becoming Unseen Bio certified.

Private health care

- Private practitioners
- Private hospitals
- Health care insurances

Ambassadors & counsellors

General practitioner

A new offering to IBS patients instead of "Sorry, can't help you".

Key opinion leaders

Scientists, Health care professionals influencers etc.

Reimbursement

Public hospitals

Service provider of microbiome data analysis.

Database

Database for

- Research use
- Therapeutics and diagnostic methods.
- Personalized foods and supplements.

COLLABORATORS

P – 015

Design, Identity & Legal

BWD™

Research proposal



Mentor and office



Collaborative scientific and development projects



User groups / Letter of interest



IP-Strategy

CHAS.HUDE

Soft funding agency



Android development



Advisor team



Microbiome network partner

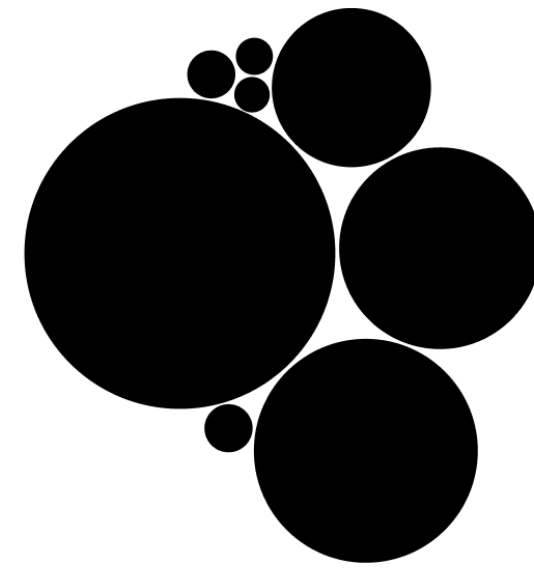
GREATER
CoPENHAGEN

Case study for bio-entrepreneurship



GREAT POO-TENTIAL

P – 016



ENDORSEMENT MODEL

Our software engine - the digital model for microbial ecosystems are widely applicable for expansion into other Unseen verticals.

Human

Pet

Vet

Pharma

Food

Agriculture

Sustainability



IBS
IBD
Obesity
Diabetes
Atherosclerosis
Depression
Antibiotics



Performance
Endurance



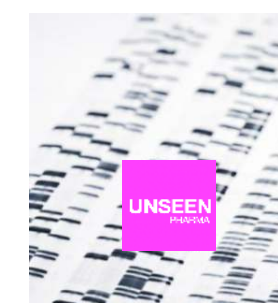
General health
Wellbeing
Body resilience



Pet health & well being



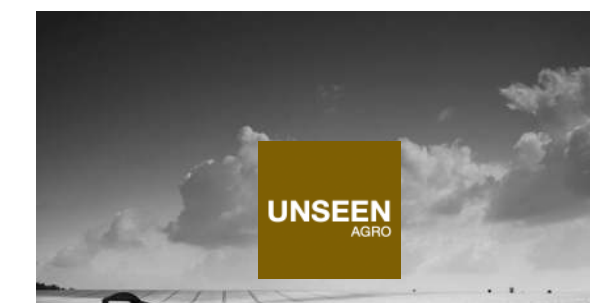
Horse performance
Pigs antibiotics use
Cows methane production



Production



Fermentation



Fertilising
Pest control



Treatment of waste
water and sewage