

## The Story of Spirohome

Merthan Öztürk / Cofounder & CEO July 17, 2019

Who is Spirohome?

The Real Story behind Spirohome

Takeaways

## spirohome®

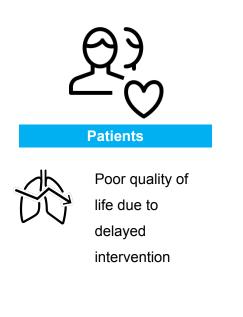
Revolutionizing respiratory care, with you

## Doğru kullandığına emin misin?

#### The Challenges of Disease Control

Non-Adherence of Drug Usage Difficult to Monitor Lung Values Lack of Communication

#### The Effects of Uncontrolled Disease





**Insurance System** 



Increasing costs

per patient

Uncontrolled: + € 2300

Controlled: € 509



#### **Pharma Industry**

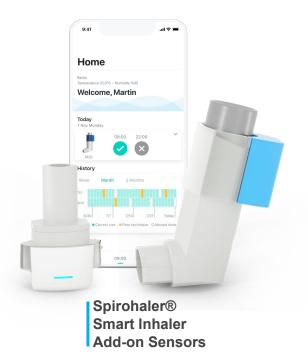


Difficult data management with paper-based clinical records

#### The Spirohome Platform

#### A cutting-edge, connected respiratory care system









#### **Spirohome Personal**

World's first personal ultrasonic spirometer that unlocks data and perfects patient experience.



Reusable Mouthpiece Calibration Free User-centered design Clinical accuracy



Aiocare



Gospiro



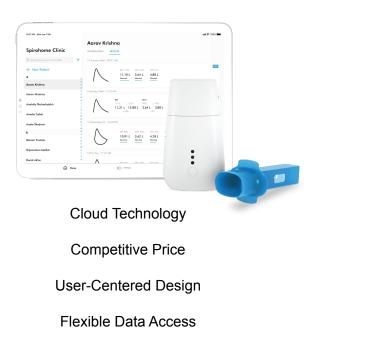


MIR SmartOne



#### **Spirohome Clinic**

Clinical ultrasonic spirometer with seamless data access, high accuracy and patient-focused design.





### Spirohaler<sup>®</sup> MDI

Metered dose inhaler device with accurate misuse detection.



User Information:	Misuse detection:
Demographic Data	Orientation
Spirometry Integration	Shake Detection
Data Analysis	Puff timing
	Inhalation Speed

Inhalation Time







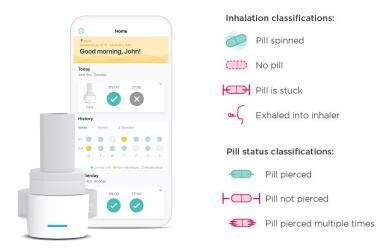


Adherium

©2019 Inofab Health Technologies / Confidential / 11

#### Spirohaler® DPI

#### Dry powder inhaler add-on sensor with flow classification





Propeller

Flow measurement & duration

Pill status (pierced, not pierced etc.)

Flow classification (Pill rotated, chamber empty etc.)

Orientation

## The Real Story behind Spirohome



#### 2014 - 2017: Struggles without money

Start-up Inofab Seeking Advisors Spirohome Conceptual Design Product - Market fit Seeking Investors

#### 2017 - 2019: Struggles with money Two-Round Investment / 1.5M USD Focus on Spirohome CE & ISO Certifications Manufacturing

#### 2019 - ..... Starting Real Business

Product Launch Sales & Growth Series A investment FDA clearance

## 2014 April - 2017 April

## Struggling without money



©2019 07 17 / The Story of Spirohome / 15

Design Services for third parties

## You need to **do it**, to achieve **your real aim!**





## Conceptual Design & Prototyping

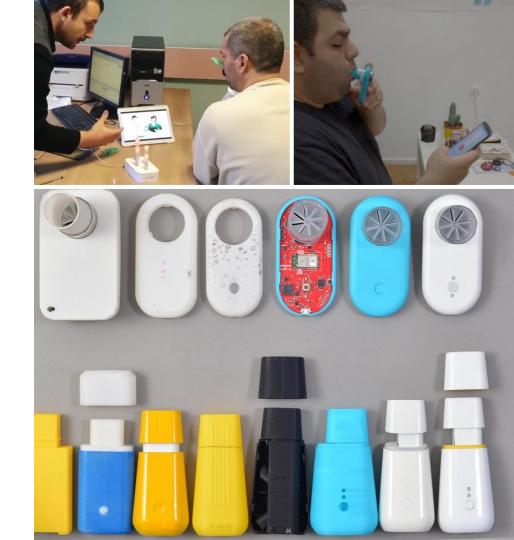
## Initial steps for spirometer





## Iteration of the Designs

## Collecting User Feedback, Empathy with Patients



### Product & Market Fit

## Attending Fairs & Conferences



Investment

2017: **220K €** / ACT & 500

2018: **1.1M €** / ACT & GCV







## Focus on Spirohome Products **Struggling with money**

Flow / Volum 82.6 % 6.16 L/s

## Certification

## Making real product! Working on CE Mark



## Manufacturing

## **Empathy with suppliers**



## Get Ready for Shipping

## **R&D** is not finished!



## First Sales!

## 20 pieces shipped to Germany!



### Product Launch

## Where the story *really* begins!

## OUR PRODUCTS ARE AVAILABLE

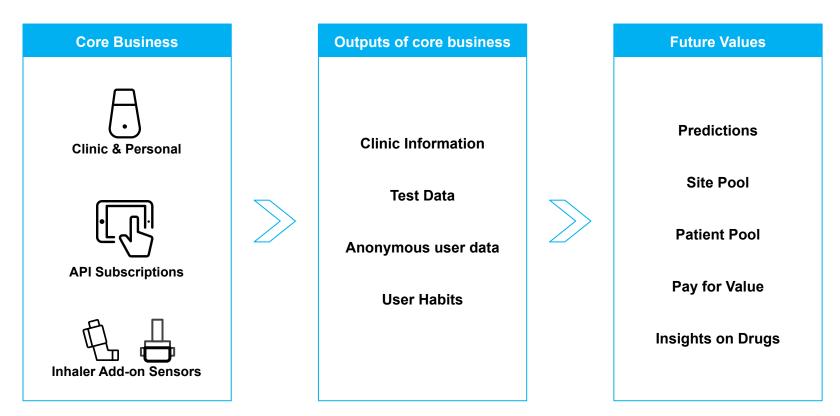
Order our brand new personal ultrasonic spirometer now!

www.spirohome.io



#### **Business Model Evolution**

Our data collection is at the core of our vision.



## Being Part of Digitalization in Health Industry



#### **Core Team**

#### FOUNDERS & COMPANY CREW



Merthan Öztürk CoFounder / CEO BSc & MSc Industrial Design



Kerem Yaşar CoFounder / CTO BSc & MSc Electronics Engineering

#### **ADVISORY BOARD**



Ahmet ULUER, DO,MPH Assistant Professor in Pediatrics Harvard Medical School,MA



Banu Onaral, PhD H.H Sun Prof Biomedical Engineering Drexel University,PA



Kıvılcım Oğuzülgen, MD Professor at Dept Pulmonology Turkish Thoracic Society Board Member



#### 18 High-Skilled Staff

- R&D engineers, designers,
- regulatory & quality specialists,
- business & marketing team

#### INVESTORS







## TAKEAWAYS for gaining investment

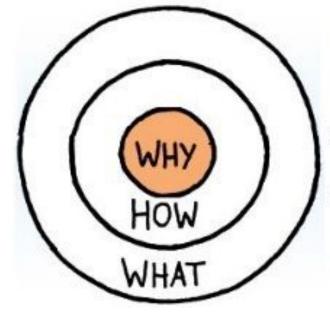


### Ask yourself!

### WHY

before

how & what!



## Act, Think & Communicate from the INSIDE OUT!

## WHY - Your Purpose

Your motivation? What do you believe?

## **HOW - Your Process**

Specific actions taken to realize your Why

## WHAT - Your Result

What do you do? The result of Why. Proof

Define your goals and tools!

## Raise an investment.

or

Create a value.



Golden Lemon squeezer

Define your goals and tools!

## Raise an investment.

or

Create a value.



There are three kinds of lies:

## lies,

damned lies,

and statistics.

Benjamin Disraeli, Former Great Britain



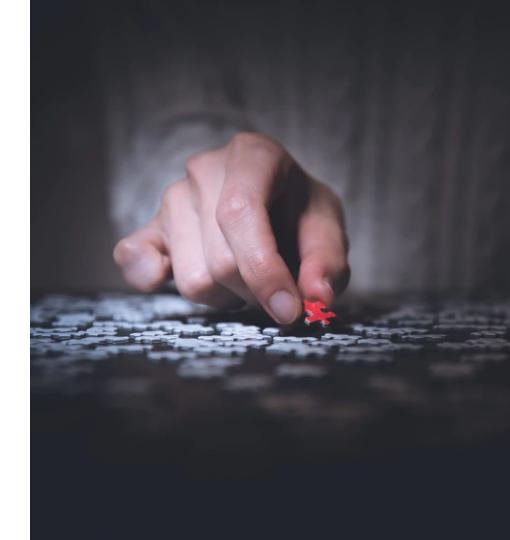
©2019 07 17 / The Story of Spirohome / 35

## Define your goals and tools!

## Raise an investment.

#### or

Create a value.



Emphasize yourself!

## Team

Product

Market



## Learn your Stakeholders!

### to understand

### **Product & Market Fit**

High	Keep satisfied	Engage and manage
Low	Monitor	Keep informed
	Low	High est

Power

### Love your Regulations :)

## A prototype is not a product!





#### EC Certificate Production Quality Assurance System according to Medical Devices Directive 93/42/EEC Annex-V

#### Certificate Number: 1984-MDD-19-571

We hereby declare that an examination has been carried out following the requirements of the national legislation to which the undersigned is subject, transposing Annex-V of the Directive 93/42/EEC on medical devices. We certify that the production quality system conforms with the relevant provisions of the aforementioned legislation.

Organization:

#### İNOFAB SAĞLIK TEKNOLOJİLERİ ANONİM ŞİRKETİ

Üniversiteler Mahallesi İhsan Doğramacı Blv. No:19 Çankaya, Ankara, Turkey

Product: Ultrasonic Spirometer Types: Personal, Clinic

The certificate is valid till expiration date, subject to successful completion of periodical surveillance audits. Please contact Kiwa for details.

Report Number: M.5063.01 Expiry Date: 10 February 2024

Kiwa Certification Services Inc. is Notified Body under Council Directive 93/42/EEC concerning medical devices with identification number: 1984

11 February 2019, Istanbul, Turkey

Head of Notified Body

Kiwa Certification Services Inc. ITOSB 9. Cad. No.15 Tepedren. Turla, Istanbul, Turkey Tel.: +90 216 593 25 75, Fax: +90 216 593 25 74 Web: www.kiwa.com.tr., e-mail. posta@siwa.com.tr

#### SÜREÇ PLANLAMASI

## Don't underestimate your estimates

Planning your steps for proper strategy



Be Realistic Optimistic

## Planning your hopes with reality.



## "I have nothing to offer but **blood**, **tears** and **sweat**."

Winston Churchill



©2019 07 17 / The Story of Spirohome / 42

KEEP CALM CREATE VALUE with hope!

even if you cannot raise investment!



# spirohome

#### ORDER NOW! www.spirohome.com.tr

