













PULMONARY DISEASES

- COPD affect 251 million people, killing more than 3.3 million persons each year
- Asthma affects 1/10 children and 1/14 adults in Switzerland
- Pneumonia is 1st cause of mortality in young children (< 5y) with 1 death every 30 seconds

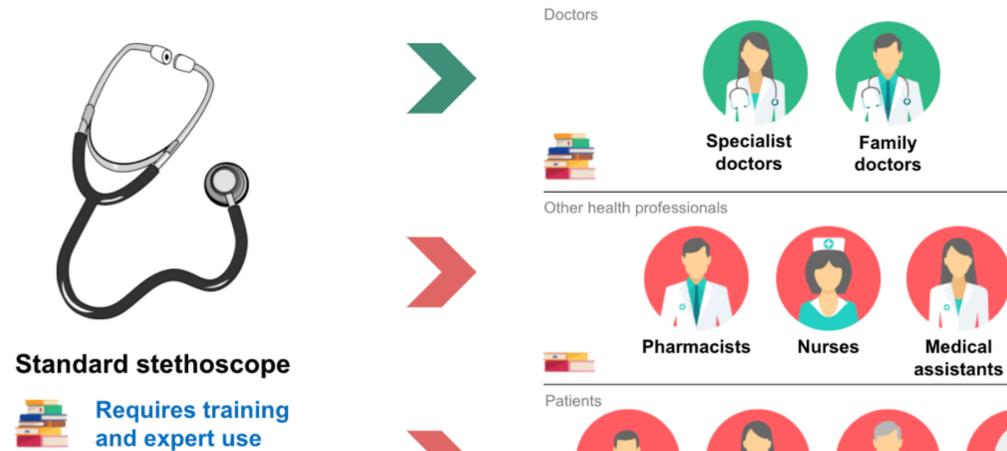


EUR 379 billion are the estimate annual costs of lung diseases in Europe Union

COVID-19 > 260 mo cases and more than 5.2 mo deaths
Care disruption, incalculable cost



CURRENT SITUATION FOR DIAGNOSIS



Youths

Parents

Actives

Seniors

Q LOUR SOLUTION

Intelligent Stethoscope for respiratory disease

Digital Stethoscope



Multi-sensor medical device

Performant Algorithm



Al-based models for respiratory diseases

Smartphone App



User interface personalised for the user



UNIQUE SELLING PRODUCT

Software



Electronic health record



Al-powered algorithms for diagnosis



Livestream & automatic sounds analysis



Hardware

Smart microphone



Oximeter



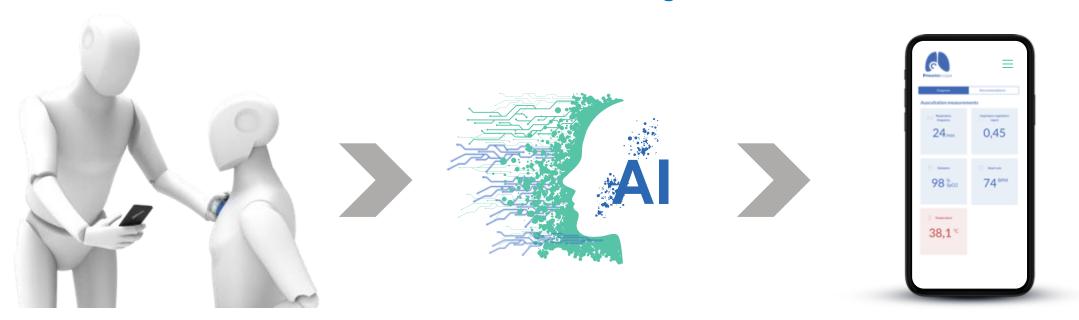
Thermometer





HOW DOES IT WORK?

« A Shazam® for lungs »



- Recording lungs sounds
- Blood oxygen saturation
- Heart rate
- Temperature

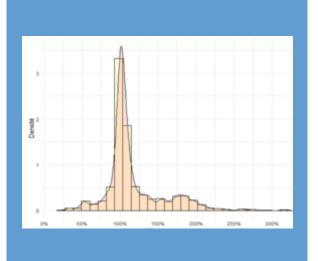
 Live analysis with Artificial Intelligence

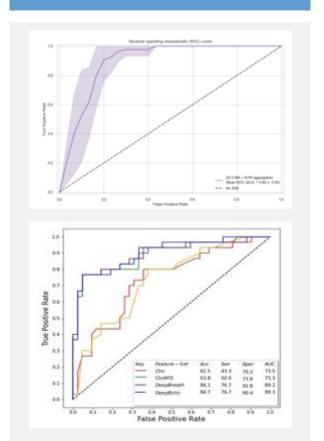
- Diagnostic aid
- Disease severity grading
- Outcome prediction

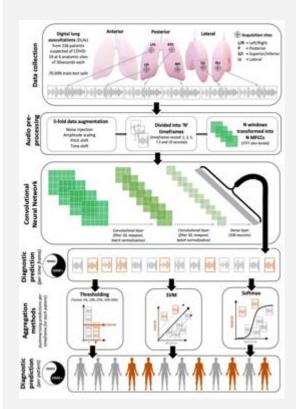
Al algorithms

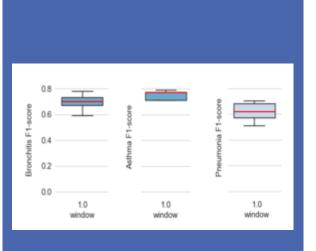
Automatic determination of

- Respiratory rate
- Heart rate
- Normal vs pathological
- Type of disease
- Severity
- Outcome

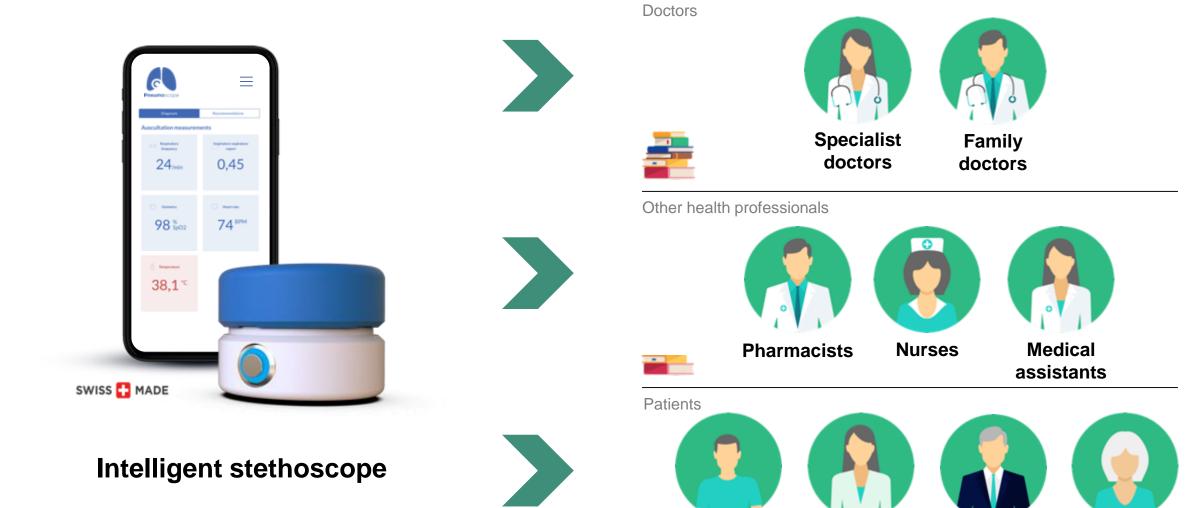








NEW PARADIGM



Youths

Parents

Actives

Seniors

Value proposition

H1/H2 Professional support B2B

H3 Telemedicine B2C





- Empowerment
- o Autonomy
- o Confidence

 Improved patient/doctor relationship

- Decreased ER consultation
- o Decreased hospitalization
- o Decreased health cost

MAJOR ACHIEVEMENTS

Engineering

- Partnership with EPFL and HEPIA for technology development
- 3 Al-based models for automatic detection of respiratory diseases
- Functional prototype of hardware (MVP)
- App communicating with the device (MVP)
- Patentability for hardware and software

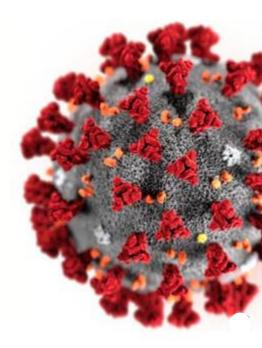
Patent: PAT7575EP00. - June 3rd, 2021



MAJOR ACHIEVEMENTS

Medical

- Types of respiratory diseases recorded: Pneumonia, Asthma, Bronchitis, COPD, COVID-19
- 100+ hours of recording to train our Al-algorithms (10K+ respiratory cycles)
- 2'000+ patients recorded + medical database in 10 countries worldwide
- Database of COVID-19 patient (500+)
- 1 published scientific article for COVID-19
- Partnership with HUG and IMAD



MAJOR ACHIEVEMENTS

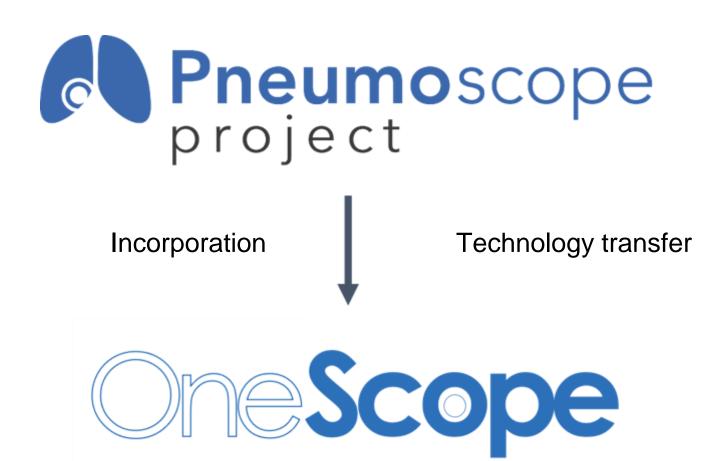
Business

- Around 1.3 MCHF funds raised since 2019 through Swiss institutions (grants)
- Letter of intent from IMAD for the implementation of Pneumoscope in nursing care
- Letter of intent from OFAC for product distribution in pharmacies
- 3 won prizes since 2018 and many media coverage





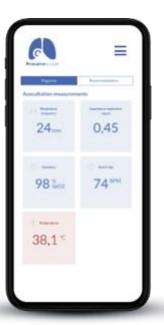
Transition from research project to Startup



MILESTONES & NEXT STEPS

2021-2023

WHAT	HOW
R&D	Feasibility study + final product development
Patent filing	Patents for Hardware (done) & Software (on going)
CE certification	CE for software and hardware + ISO13485
Industrialization	Tests and validation for CE marked
Market validation	Field studies with implementation partners







Every breath counts

Let's innovate together for better health!