

Company history

E AWSensors D

Biosensors Lab-Greece

- 2004-2007: HFSP **grant**
- 2008: **Patent** 1 (granted)
 - 2012-2015: FP7-ICT EC
 - grant
 - 2015: **Patent** 2 (PCT)
- | 2016-2019: Horizon2020–Twф
 - Innovation grants
 - 2017: **Patent** 3 (UK
 - application)
 - 2017-2020: Horizon2020
- 2017-2029 SFET-OPEN grant 2017

Papadakis (Founders)

A. Tsortos

AWSensors-Spain

- 2010: **Spin off**, Polytechnic University of Valencia
- 2010: **Patent 1** (granted)
- 2017: Patent 2 (granted)



Property Development Management Company

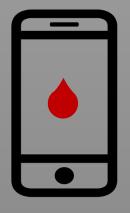


OBJECTIVE

"The development of systems based on <u>acoustic</u> wave devices and corresponding electronic units for <u>molecular diagnostics</u> and specifically for <u>point-of-care</u> applications, including the development of acoustic devices, hardware, firmware, protocols and/or integrated platforms, as well as their related services and their marketing."

IMAGINE A WORLD...

Your smartphone



can look into your blood Your doctor



is immediately notified when your health is at risk

You can act

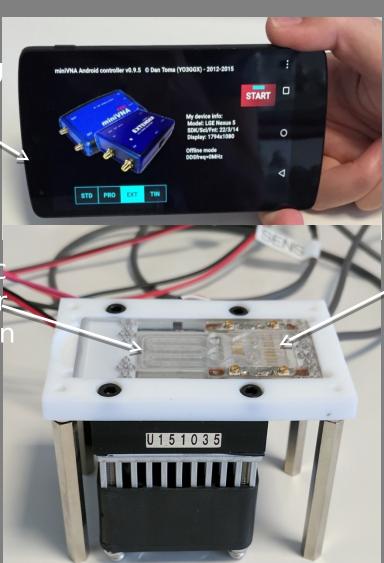


before the symptoms of a disease appear

BIOSENSORS LAB PROTOTYPE

Data monitoring and analysis application

Plastic microfluidic channel for DNA amplification



Acoustic chip for DNA detection

COMPETITIVE ADVANTAGES

- **Low** production cost
 - Smartphone operation and data transmission
- Small and easy to operate system
 - Point-of-care operation
- High sensitivity- Good detection limit- Fast analysis time

COMPETING PRODUCS TO BE SENDE

- Time-consuming
- Lab-based



- Fluorescence-based
- Accurate/sensitive/
- Lab-based
- Trained personnel
- Expensive





- DNA based point-of-care
 - Targets: influenza & streptocod
- **Abbott i-Stat**
- Protein biomarkers







DNA Sequencing Sensitive Expensive Time consuming



Cepheid GeneXpert Om

- Integrated DNA detection
- Lab-based



Paper analysis

- Inexpensive
- Portable
- Low sensitivity



AWSENSORS DX UNIQUE SOLUTION

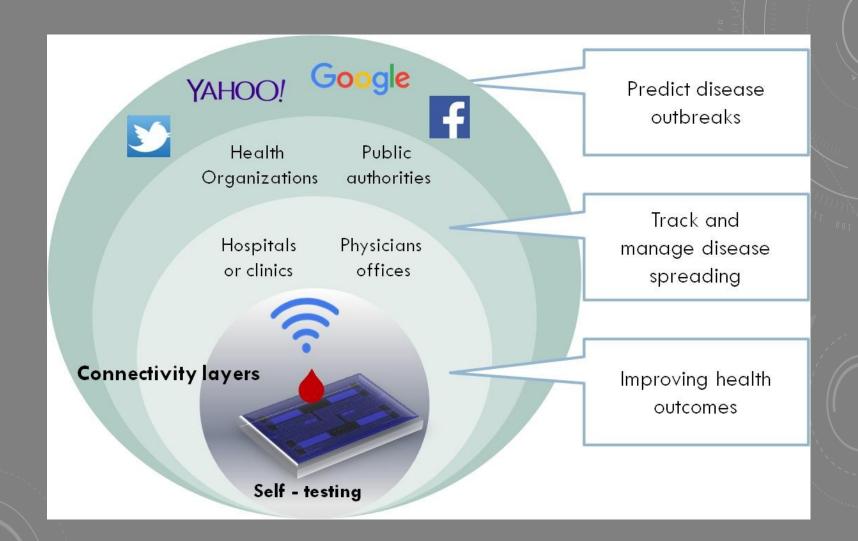
Sensitive <u>DNA</u> detection technology (patented)



2. Acoustic
wave
devices
(<\$1)

3. **Connectivity** with smartphones and networks

THE FUTURE



MARKET VALUE

THE NEXT BIG THING

6 billion active mobile phones

500 million users of health app.

Diagnostics at the point-of-care:

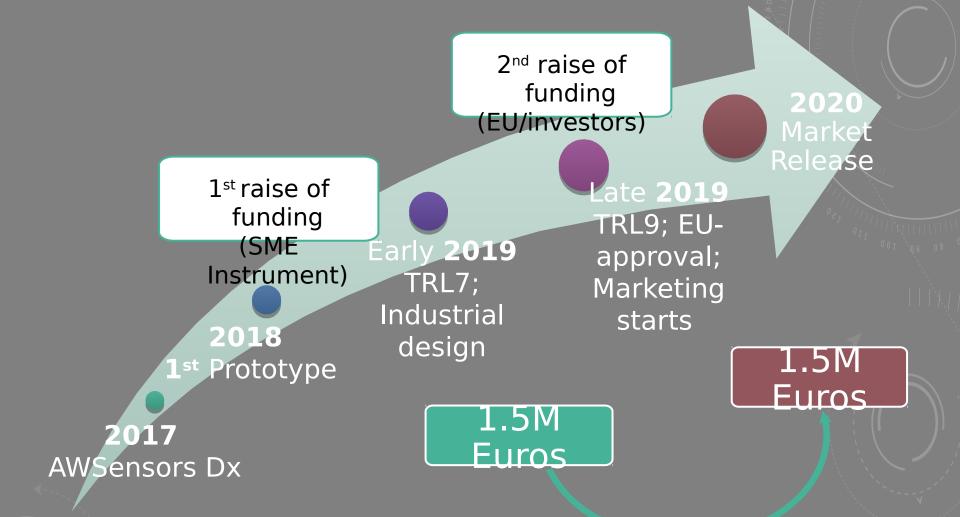
\$9 billion in 2019

Internet of Things in the health market:

\$117 billion until 2020

Growth rate 8 & 22%

TIMEFRAME UNTIL MARKET RELEASÉ





- Home
- Doctors
- Hospitals
- Mobile network operators
- Medical instrumentation
- Collaborations



https://awsensorsdx.com