AE
BIOSYSTEM

EasyTemp

a wearable thermometer

Temperature Monitoring

Body temperature is a vital parameter subject to **medium term monitoring** criticalities especially in infant and aged patients

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THERMOMETER INVASIVE DEVICE

Often, thermometers require an uncomfortable application for non-cooperative patients such as children and bedridden elderly people.

This causes:

- **extra work** for medical staff or family members assisting the patient
- **inconvenience to patient** or baby, such as being woken up during sleep or undergoing cold instruments placed in unconfortable body areas (eg: rectal thermometer).

TEMPERATURE ESTIMATION

The electronic thermometer does not detect the real temperature of a patient. In fact, it uses an algorithm to estimate a value by multiple readings.

This causes:

- **approximation** of the value
- **slowness** in data processing

DISCONTINUOUS DATA READING

Digital or galinstan thermometers give a discontinuous data reading.

Every time you want to check a new temperature, you need to **repeat the process** of device placing and detect the data for that specific moment.

EasyTemp

EASY AND ACCURATE TEMPERATURE MONITORING SYSTEM

EasyTemp is a temperature monitoring system with a **flexible** and **water-proof** technology.

Thanks to its **hygienic** and **replaceable** patches, it can be firmly applied in non-invasive body areas.
This allows to have an extremelly quick (0,3 sec) and accurate (±0,1° C) body temperature detection.

Its monitoring system can track temperature at intervals chosen by the operator (every 30 sec, every 1 min, every 15 mins, etc.) and trasmit data to a mobile App with its BLE or NFC technology.

It means that medical staff can receive an alert at their station in case of patient constant increase of body temperature.
Furthermore, parents can receive an alert on the mobile phone when child temperature exceeds the limit they have chosen (eg.: >37,9°C).

BLE W/battery Product features

PRODUCT LINES:

BLE with battery
(Bluetooth Low Energy)

PATCH:

- With die-cut
- Hygenic support
- Sensitive skin glue

MOBILE APP:

- Android
- IOS

BATTERY:

- Water-proof
- Flexible
- Extremelly thin

HOW TO DETECT:

BLE: data is remotelly trasmitted to EasyTemp APP

BATTERY CHARGE

DETECTION INTERVAL / DEVICE	15 SECS	30 SECS	1 MIN	5 MINS	15 MINS	30 MINS
BLE W/BATTERY	10 DAYS	17 DAYS	29 DAYS	58 DAYS	70 DAYS	73 DAYS

Technical features

DIMENSION:

	HIGH	WIDE	DEPTH
BLE with battery	80 mm	40 mm	0,9 mm

All dimensions include: sensor, patch and battery (if included)

DETECTION ERROR MARGIN:

RANGE	ERROR
+ 35° C ~ + 42° C	± 0,2° C
0 ~ + 45° C	± 0,3° C
- 40° C ~ + 80° C	± 0,5° C

RESOLUTION:

RESOLUTION	AVERAGE DETECTION TIME
± 0,1° C	0,026 sec (26 ms)
± 0,05° C	0,05 sec (50 ms)

NFC with battery Product features

PRODUCT LINES:

- NFC with battery

PATCH:

- With die-cut
- Hygenic support
- Sensitive skin glue

MOBILE APP:

- Android
- IOS

BATTERY:

- Water-proof
- Flexible
- Extremelly thin

HOW TO DETECT:

- NFC with batt.: Detections logged in sensor memory are transferred to EasyTemp APP quickly swiping the mobile phone above the sensor.

BATTERY CHARGE

DETECTION INTERVAL / DEVICE	15 SECS	30 SECS	1 MIN	5 MINS	15 MINS	30 MINS
NFC W/BATTERY	5 DAYS	9 DAYS	18 DAYS	92 DAYS	275 DAYS	545 DAYS

Technical features

DIMENSION:

	HIGH	WIDE	DEPTH
NFC with battery	60 mm	40 mm	0,9 mm

All dimensions include: sensor, patch and battery (if included)

DETECTION ERROR MARGIN:

RANGE	ERROR
+ 35° C ~ + 42° C	± 0,2° C
0 ~ + 45° C	± 0,3° C
- 40° C ~ + 80° C	± 0,5° C

RESOLUTION:

RESOLUTION	AVERAGE DETECTION TIME
± 0,1° C	0,026 sec (26 ms)
± 0,05° C	0,05 sec (50 ms)

NFC no battery
Product features

PRODUCT LINES:

- NFC no battery

PATCH:

- With die-cut
- Hygenic support
- Sensitive skin glue

MOBILE APP:

- Android
- IOS

HOW TO DETECT:

- NFC no-batt: data is read by EasyTemp APP quickly swiping the mobile phone above the sensor.

BATTERY CHARGE

DETECTION INTERVAL / DEVICE	15 SECS	30 SECS	1 MIN	5 MINS	15 MINS	30 MINS
*NFC NO BATT.	10 YEARS					

* Note: NFC NO BATTERY device does not need battery as it works with reading device (smartphone) power.

Technical features

DIMENSION:

	HIGH	WIDE	DEPTH
NFC no battery	40 mm	40 mm	0,7 mm

All dimensions include: sensor, patch and battery (if included)

DETECTION ERROR MARGIN:

RANGE	ERROR
+ 35° C ~ + 42° C	± 0,2° C
0 ~ + 45° C	± 0,3° C
- 40° C ~ + 80° C	± 0,5° C

RESOLUTION:

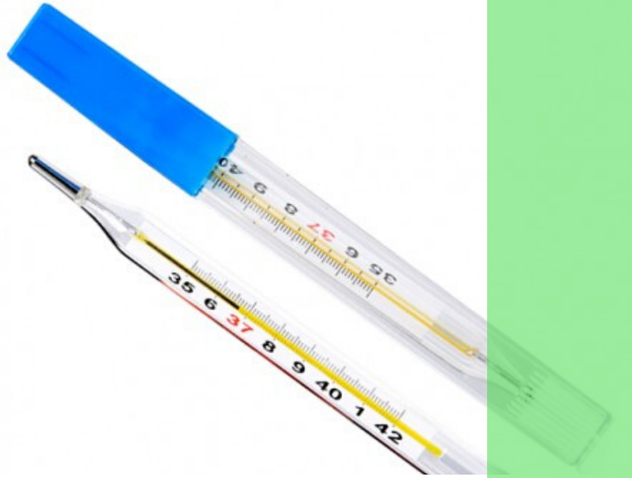
RESOLUTION	AVERAGE DETECTION TIME
± 0,1° C	0,026 sec (26 ms)
± 0,05° C	0,05 sec (50 ms)

Temperature Devices

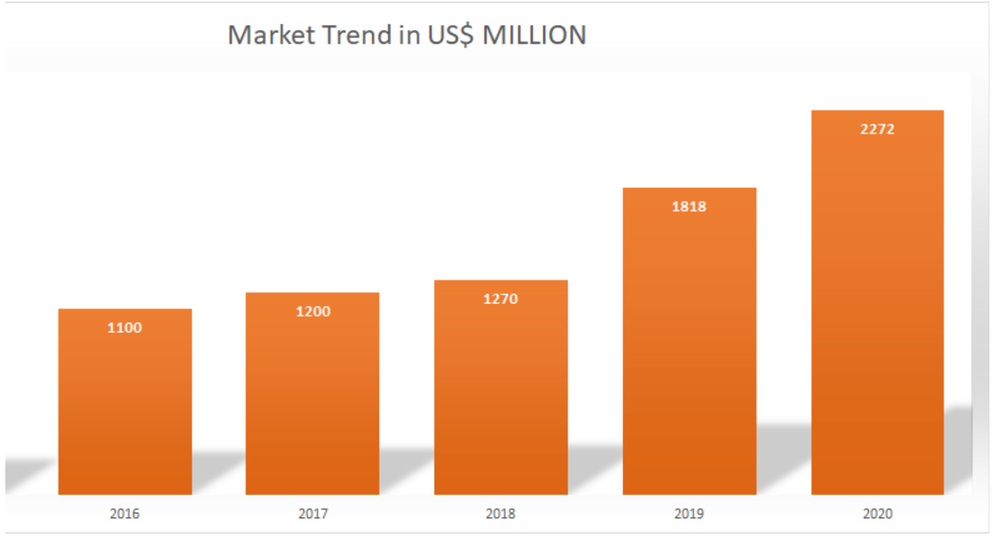
THERMOMETER	Usability	Temperature Reliability	Detection Time	Activity last	Hygiene	Monitoring
Digital						
Galinstan						
Infrared						
Rectal						
Reactive						
EasyTemp						

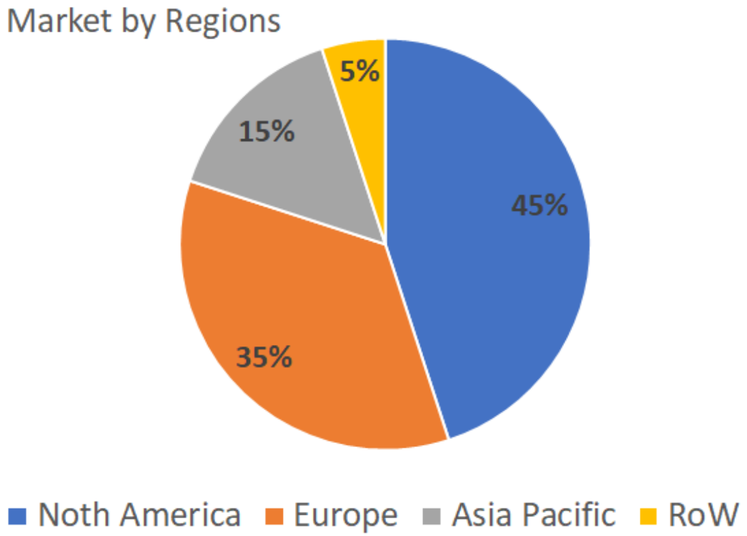
https://www.medicoebambino.com/?id=RIC1403_10.html

= Excellent = Good = Bad



Thermometer Market





In 2018, thermometers market was worth $ 1,27 Bln

80% of revenue is generated by US and EU

The connection between basal body temperature and disease makes clinical thermometry the most important aspect of everyday doctoring. Thermoregulation in humans is vital for healthy organ function and metabolism. Given the fact that raised body temperature as a result of antibody production is the first sign that the body is preparing to fight infection, physicians everywhere draw conclusions and make their first hypothesis about the disease based on thermometer readings.

Few of the factors driving growth in the market include: growing concerns over the spread of new and re-emerging infectious diseases; rising consumer awareness over the importance of body temperature monitoring as an effective way to recognize infections prior to clinical diagnosis; higher than global average birth rates in developing countries and the ensuing rise in demand for baby thermometers; growing concern for disposable thermometers due to concerns over cross infections and hassles associated with regular sterilization.

Global Industry Analysts, Inc.: https://www.strategyr.com/MCP-3365.asp.

CHILD CARE

HEALTH CARE

MAIN COMPETITORS:

FeverSmart (NUROFEN)

https://www.nurofenforchildren.co.uk/pages/overview

TempTraq

https://www.temptraq.com/Home

FeverFrida

https://fridababy.com/products/feverfrida-the-ithermonitor

why EasyTemp is better:

- MUCH THINNER AND LESS INVASIVE
- REALLY HYGIENIC
- BETTER BATTERY OR NO-BATTERY

The market is growing positively, owing to the rise in infectious conditions, and increase in demand for disposable or hygienic thermometers.

- TEMPERATURE INCREASE MONITORING
- REMOTE DATA MANAGING
- HYGIENIC
- NON-INVASIVE FOR PATIENTS

Milestones

MAY 2019

PROTOTYPING:
Conclusion of the prototyping phase of the sensors

AUG 2019

PATENT:
Filing of patent application (PCT) n. 102018000051157th May 2018 (9 out of 11 items approved)

OCT 2019

SALES DEVELOPMENT:
Letter of intent for yearly supply of 20,000 BLE sensors

FEB 2020

PARTNERSHIPS:
A leading ICT Corporate and a leading private healthcare corporate have shown interest in joining AEBiosystem as equity partners

Next Steps

FEB 2020

Investment round in equity crowdfunding

SEPT 2020

Device industrialization and clinical test

DEC 2020

CE certification
and
Extend the Italian sales department with a target of 5 B2B clients.

MAR 2021

Close contracts with 10+ B2B clients.

Team

PAOLO MARINI - CEO

Paolo is the founder of AEBiosystem. He is an electronic engineer with over 15 years of experience in aerospace and defence.

MAURO ROSATI

Mauro features over 15 years experience in firmware developing. He has extensive experience in consumer application.

GIORGIO DI CIOCCO

Giorgio has over 15 years experience in software application developing. He worked for several years in aerospace and defence sector.

Revenue Model

	*Prod. Cost/Unit	Selling Price B2B
BLE w/battery	€ 4,91	€ 6,63
NFC w/battery	€ 3,01	€ 4,06
NFC no-battery	€ 1,92	€ 2,59
Patch	€ 0,10	€ 0,25

*Based on 100K units

Financials

(€)	2020	2021	2022	2023	2024
Revenue	€ 0	€ 624.000	€ 1.660.000	€ 7.540.000	€ 18.510.000
Total Cost	€ 226.414	€ 728.174	€ 1.462.124	€ 4.748.900	€ 7.023.655
EBITDA	-€ 226.414	-€ 154.094	€ 114.876	€ 2.414.100	€ 10.560.845

Investment

We are seeking a first round of investment of **€ 90,000** in return for 3.00% of the business. This round can be increased upto €180,000.

This values the business at **€3,000,000** pre money. All shareholders will own “A Ordinary” shares with voting rights in Advanced Electonics Biosystem Srls.

We believe this offers a very attractive opportunity for the right investor(s) to back a company that has a unique proposition, a clear and defined strategy.

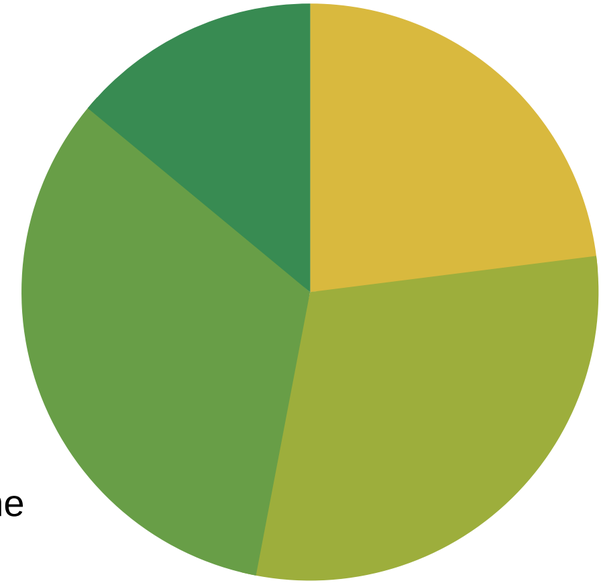
Use of funds

Initial Stock - 8%

Initial stock will be needed for sales activity kick-off.

Team & Administration - 20%

We structured the business such that the fixed costs are minimised and the business can scale based on the outsourcing of key functions.



Sales & Marketing - 12%

The primary focus of the investment in sales will be on B2B customer acquisition in Italy (Q1 2020 - Q2 2020) and EU (Q3 2020 - Q4 2020).

R&D - 60%

The team will continue the development of the technology following the feedback from clients and sales management.

Contacts

AEBiosystem Srls

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