



INNOVATION



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Solutions
for your
Business

www.innovation.com.mk

Who Are We?

- **Established in 2006**
- According to the magazine KAPITAL from Macedonia **Innovation is the most successful company** tenant (2 years) in YES incubator.
- Annual Growth of ~ 30%
- Focus on software development, consultancy services and certification
- **R&D** - heavily investing in development of new products.

ECGalert project is partially funded by

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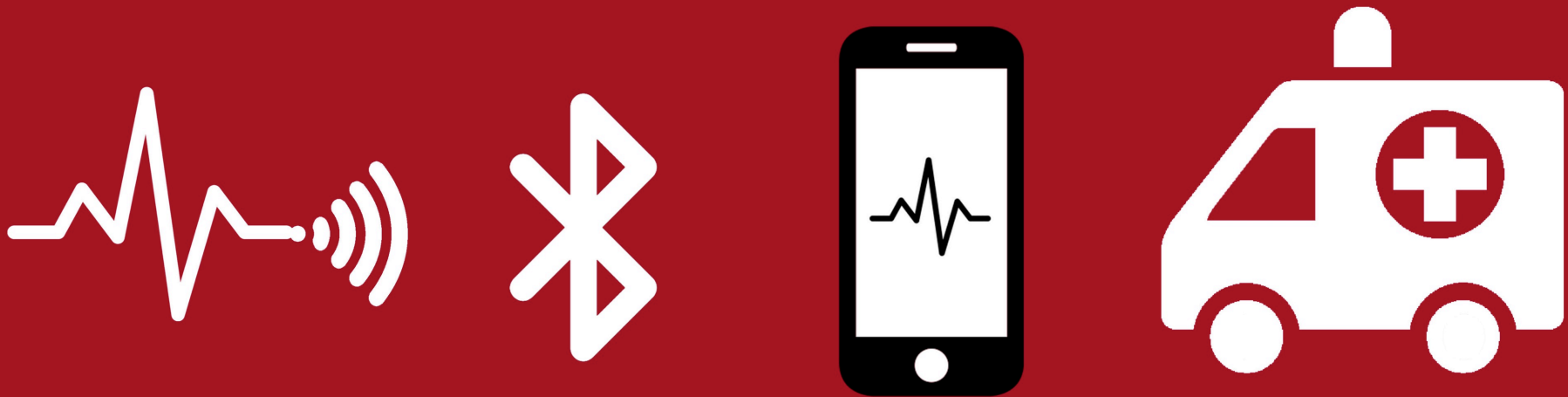
FUND
FOR INNOVATIONS
AND TECHNOLOGY DEVELOPMENT



- Heart attack can be detected up to 2 hours before it's occurrence

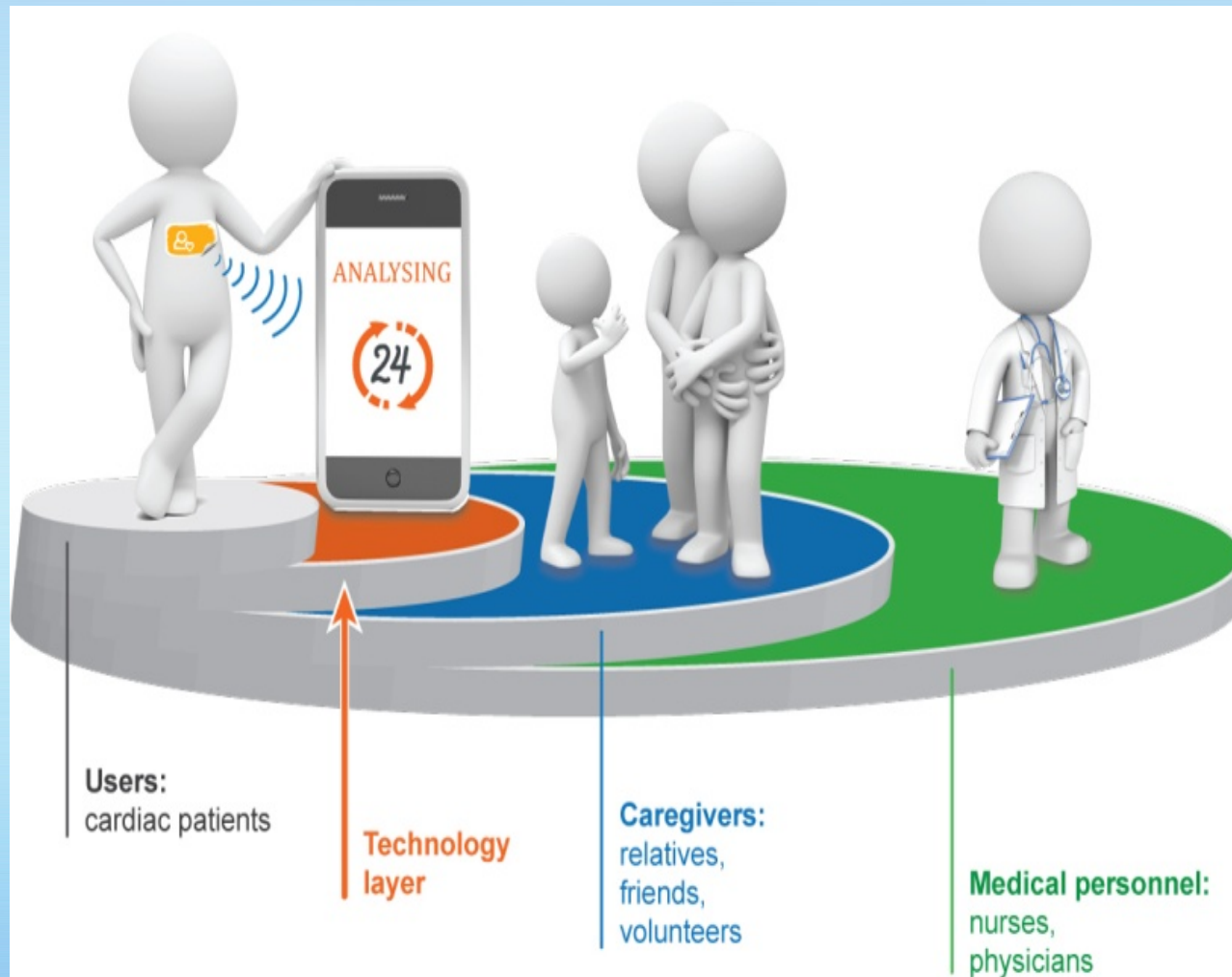
ECG alert

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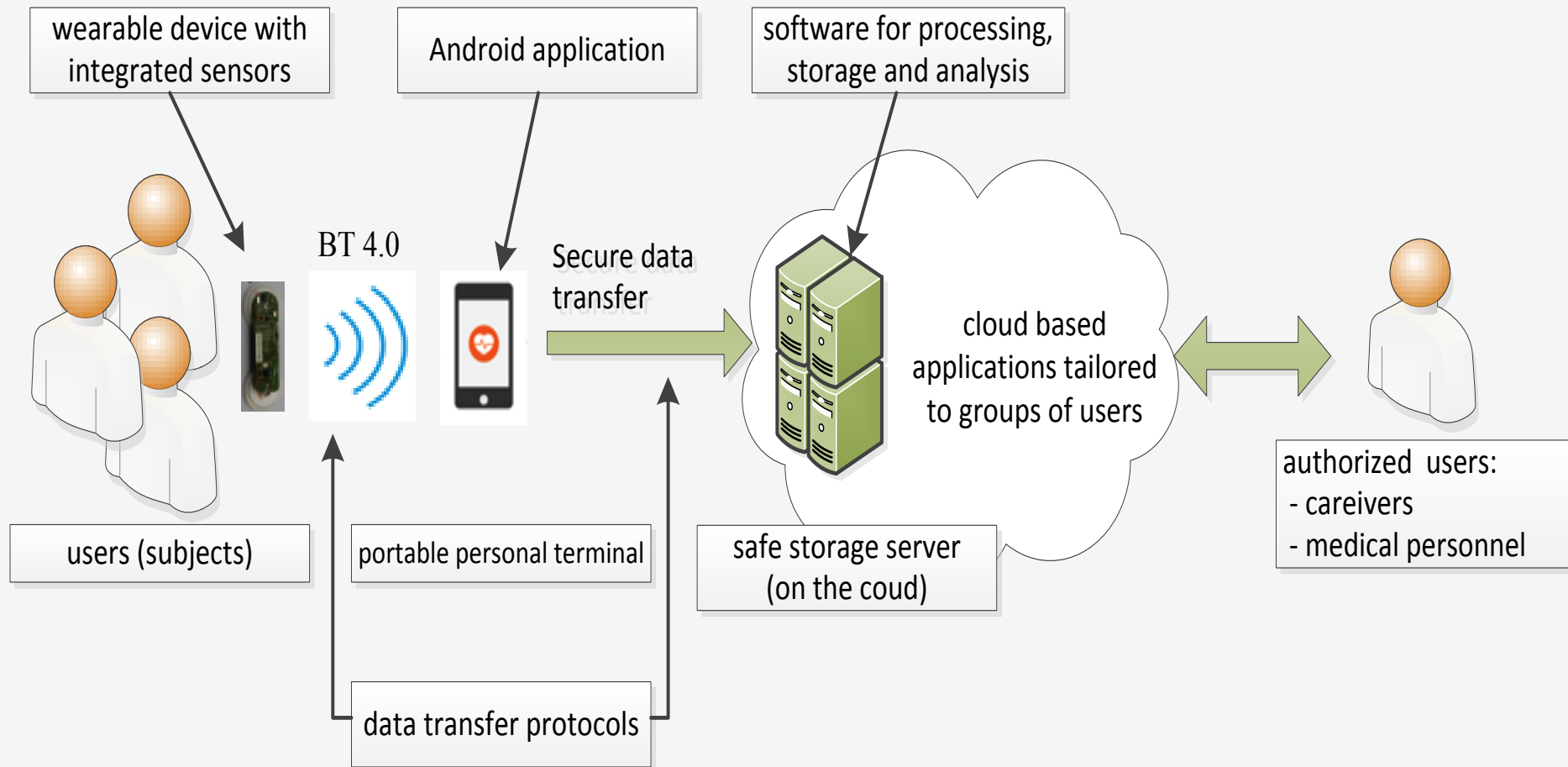


a wireless monitoring solution

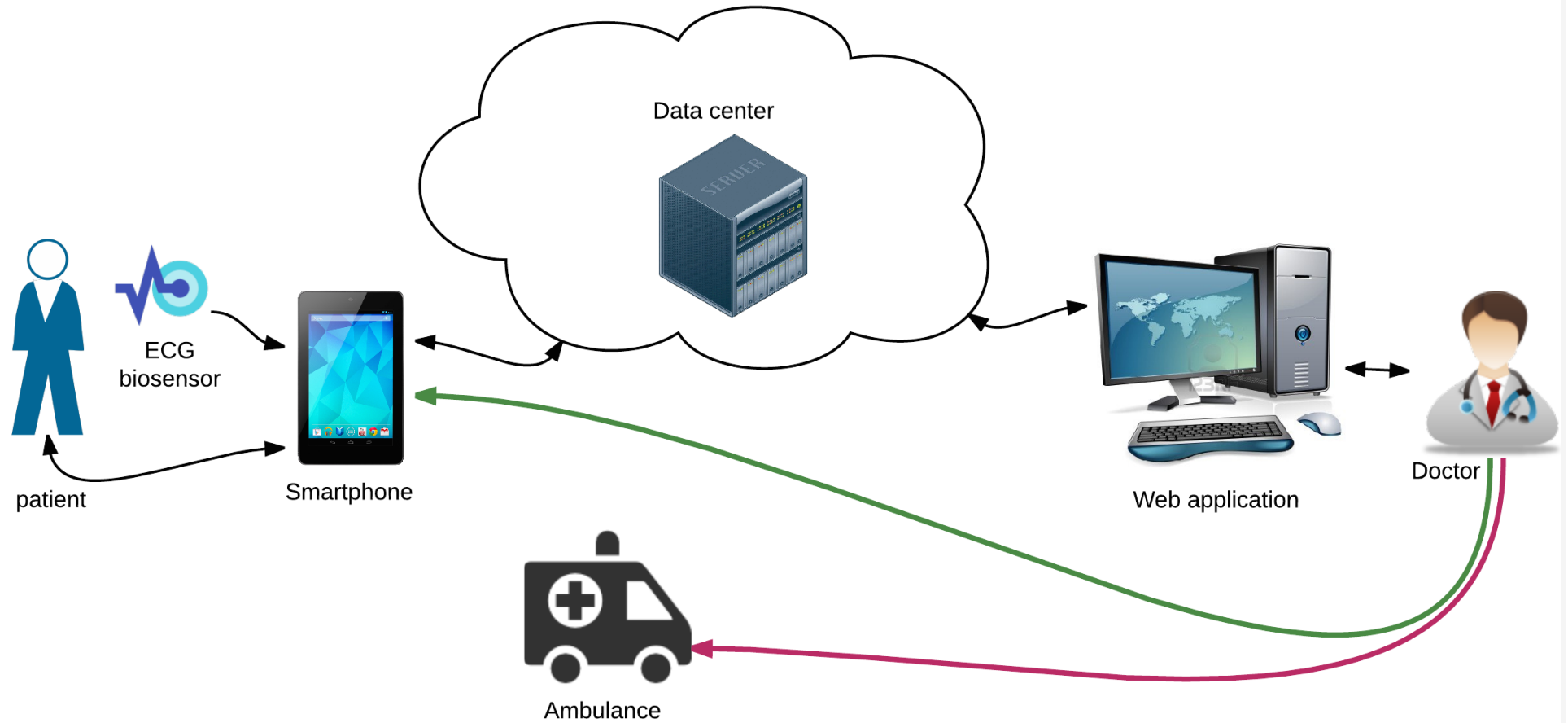
ECGalert concept



ECGalert concept

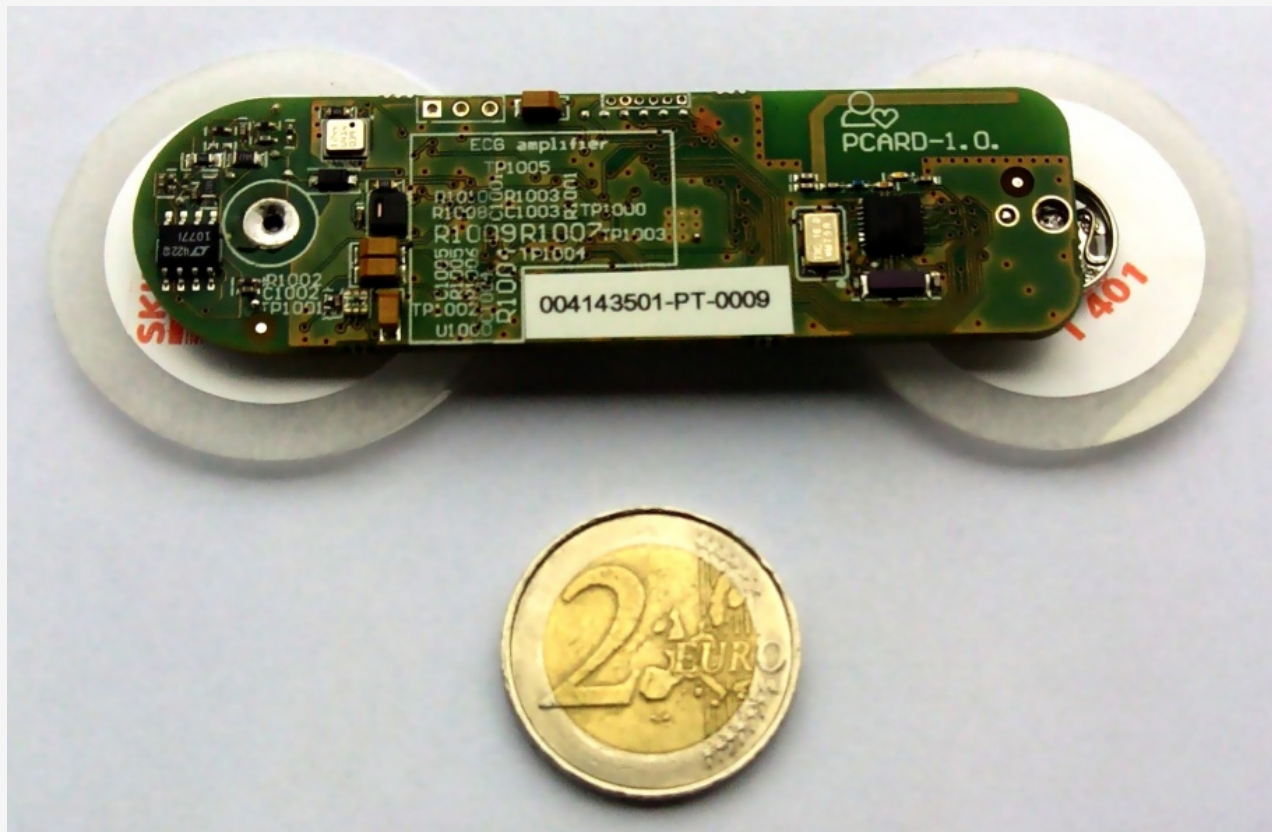


ECGalert concept



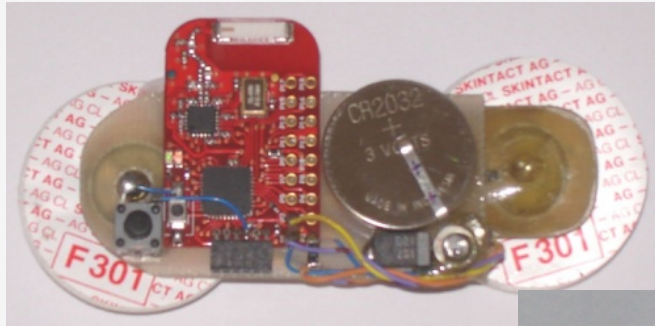
Sensor prototype

- Dimensions: 7x2 cm; weight: 3g,
- Autonomy : 1 week,
- Low Power Bluetooth 4 communication,
- Fixed on two standard ECG electrodes



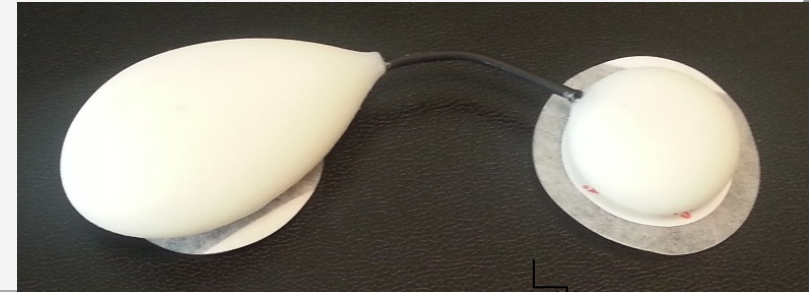
Sensor evolution

2009



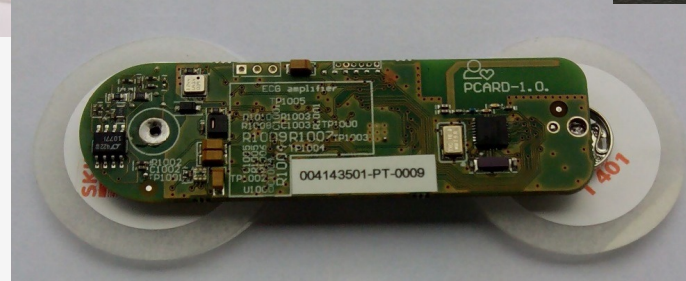
- Measures ECG
- 2.4 GHz radio

2016



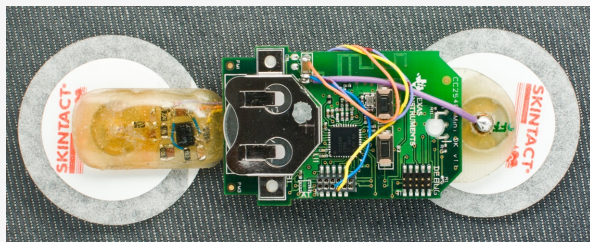
- Final product with casing

2014

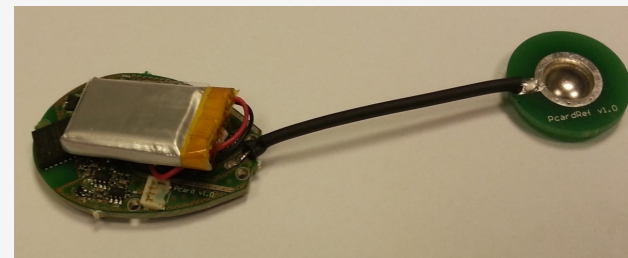


2012

+ temperature sensor + accelerometer



- Measures ECG
- Low energy Bluetooth 4.0



2015

- New flexible design

ECG sensor

- 125 samples per second
- a single charge of the built-in battery can run continuously for at least 72 hours in measuring mode
- measures a single lead ECG
- 8.5 cm distance between the two electrodes.



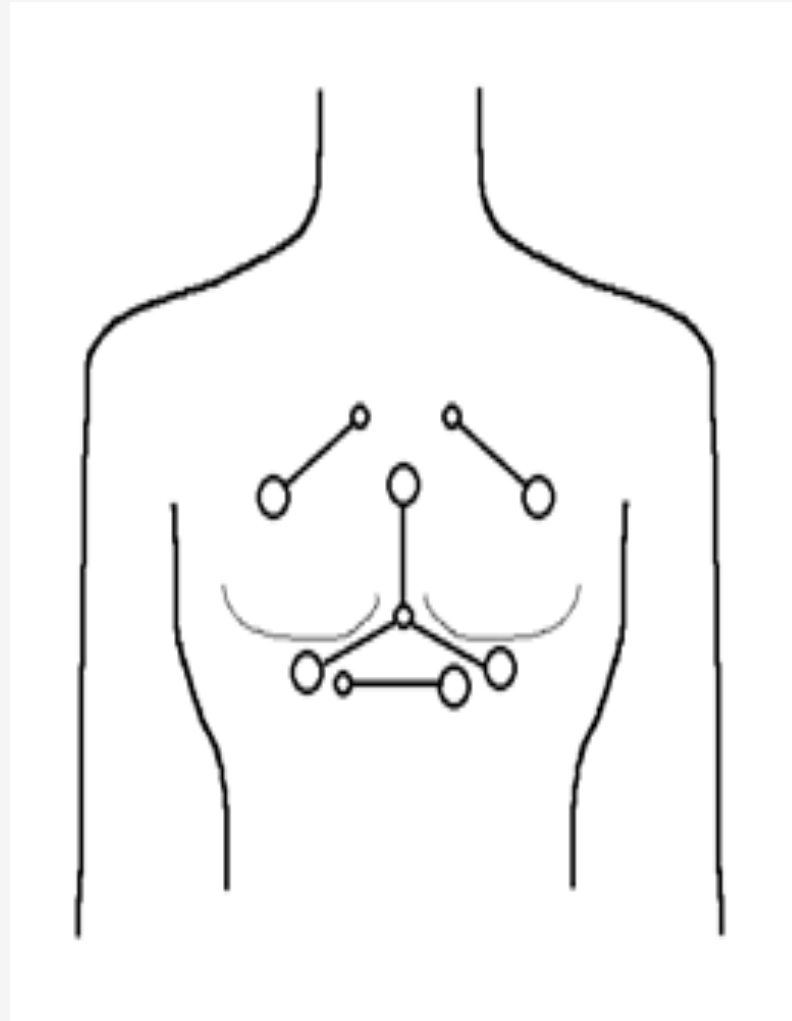
Battery charger

- The battery charger is essentially a cable extension from an AC/DC converter.
- The dock is designed in a way that hinders short circuit between AC/DC output, their contact with the user skin.



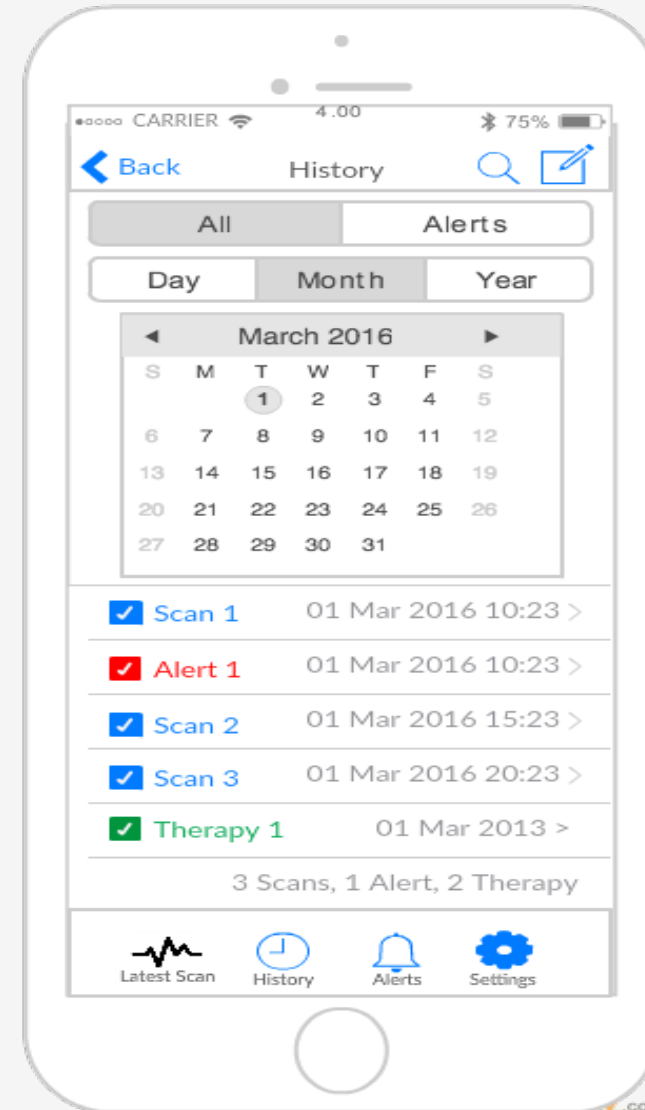
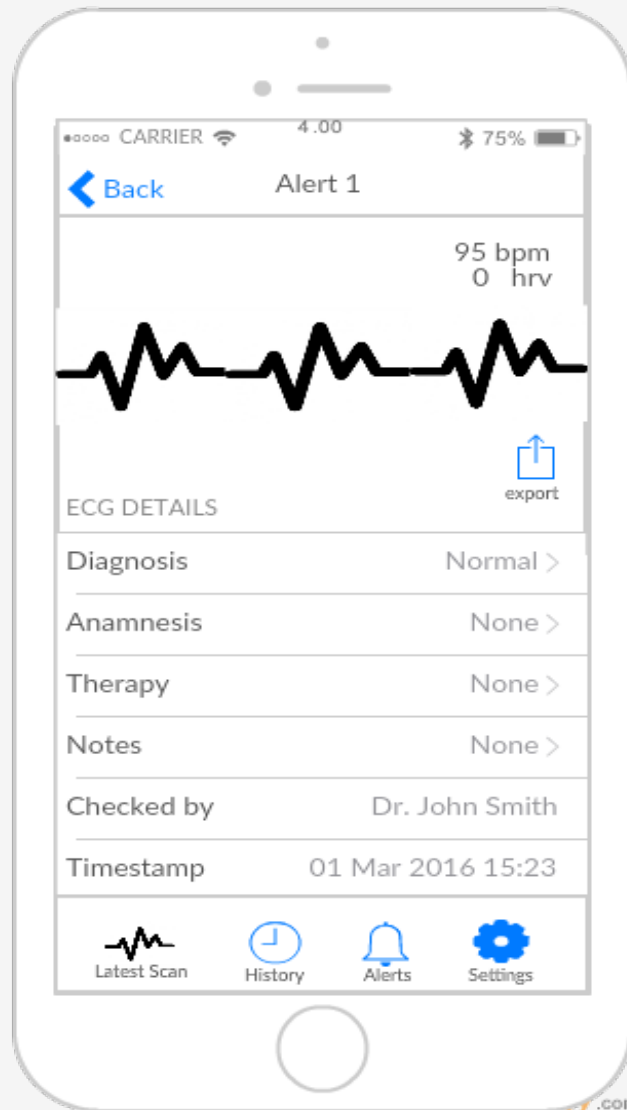
Body gadget

- Recommended electrode positions on the body.



ECGalert mobile application

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●●●○ Telekom.mk 09:56 80.77.152.116

ЕКГалерт

ИСТОРИЈА EHR

АЛАРМИ

Избери лице

BPM: 75,00
BFX: 0,06%

Reset zoom

Time

10:15:30

Претходно

Arrhythmia. Irregular

Back to Phone 9:53 AM 89%

Time

10:15:30 10:15:32

STATUS

✗ Sensor Id Id:

✓ Cloud mynetwork

Live History Alerts Settings

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ECGalert web application

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ЕКГалерт

Пациенти

Аларми

Здраво Др. Жан Митрев!

Одјави се

Александар Стојменски - 25.04.2016 12:10:43 (Skopje)

stojmenski@mail.com

070125415



ПАЦИЕНТИ



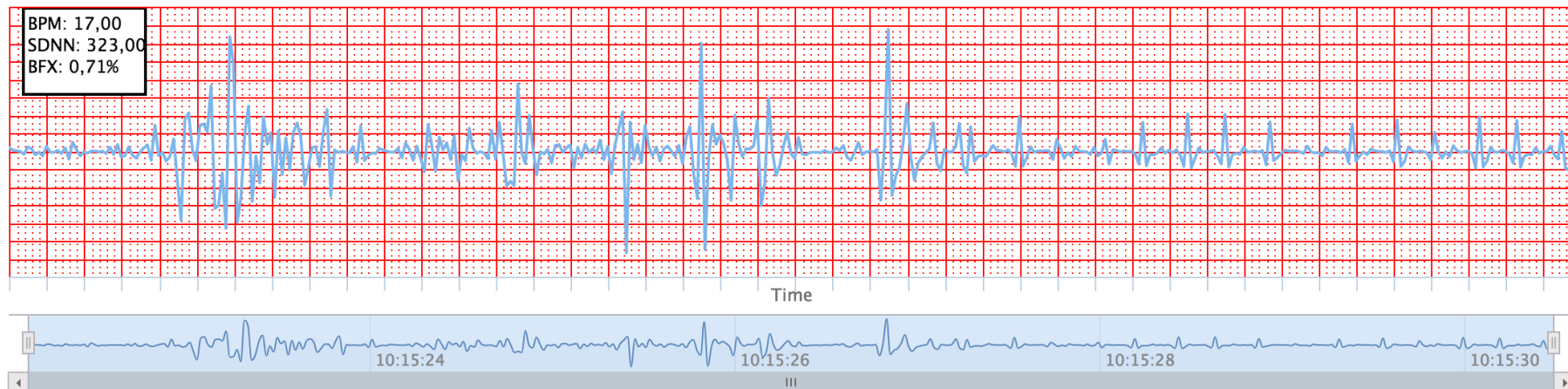
ИСТОРИЈА



EHR



АЛАРМИ



← Претходно

Arrhythmia, Bradycardia,
Regular Irregular rhythm*

Анамнеза

ECGAlert Web application

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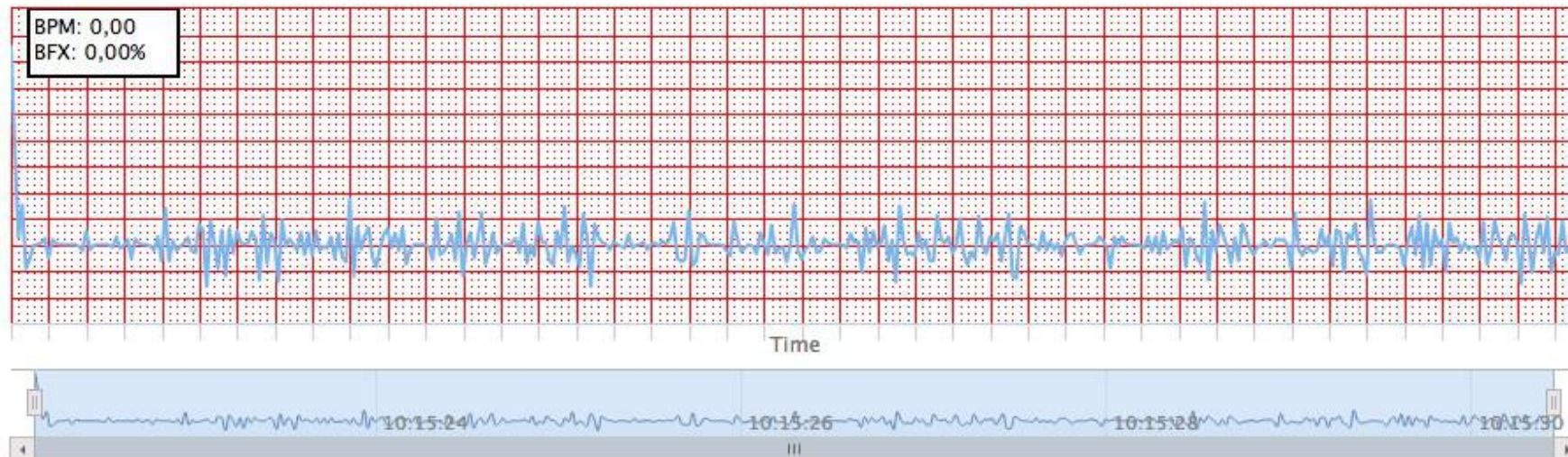
Здраво Марјан Гушев! Одјави се

Марјан Гушев - 25.04.2016 12:43:59 (Skopje)

marjan@mail.com

070235541

ИСТОРИЈА EHR АЛАРМИ



Претходно

Нормално

Коментар

Conclusion

**ECG
alert**

*a doctor in your
pocket*



- An ECG sensor that streams data to mobile device
- A mobile device for early warning and transmitting to cloud
- An expert system that detects abnormal heart function and sends alerts

Thank you for your attention

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