





TECHNOLOGY FOR LIFE

Short presentation for
ROSIA Project

History



 is a Biomedical Engineering Systems company established in 2007 that as the mission to develop, market and export Biomedical Engineering solutions to support medical diagnosis.

In 2017 Biodevices and  (the major shareholder now) joined forces crossed ways. Since then, Dynasys, as developer and manufacturer of electronic based equipment, and system integrator, under Biodevices guidance, in what aims are concerned, is performing a process of updating and enlarging the VitalJacket ECG range, and developing from scratch other solutions, for diagnosis and measurement of the evolution in patients subject to therapies on hands and feet pathologies.

Products & Ongoing Projects



VitalJacket – 1 s medical grade ECG ultraportable equipment, and Software (Holter and Cardiac Rehab)

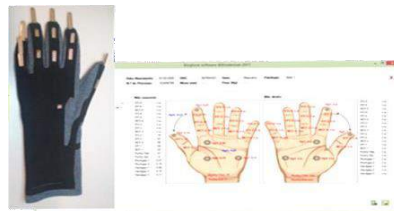
(under deep transformation for system evolution, exemple:12 Leads)



VitalJacket SDK –for professionals and researchers to develop their own applications and data analysis



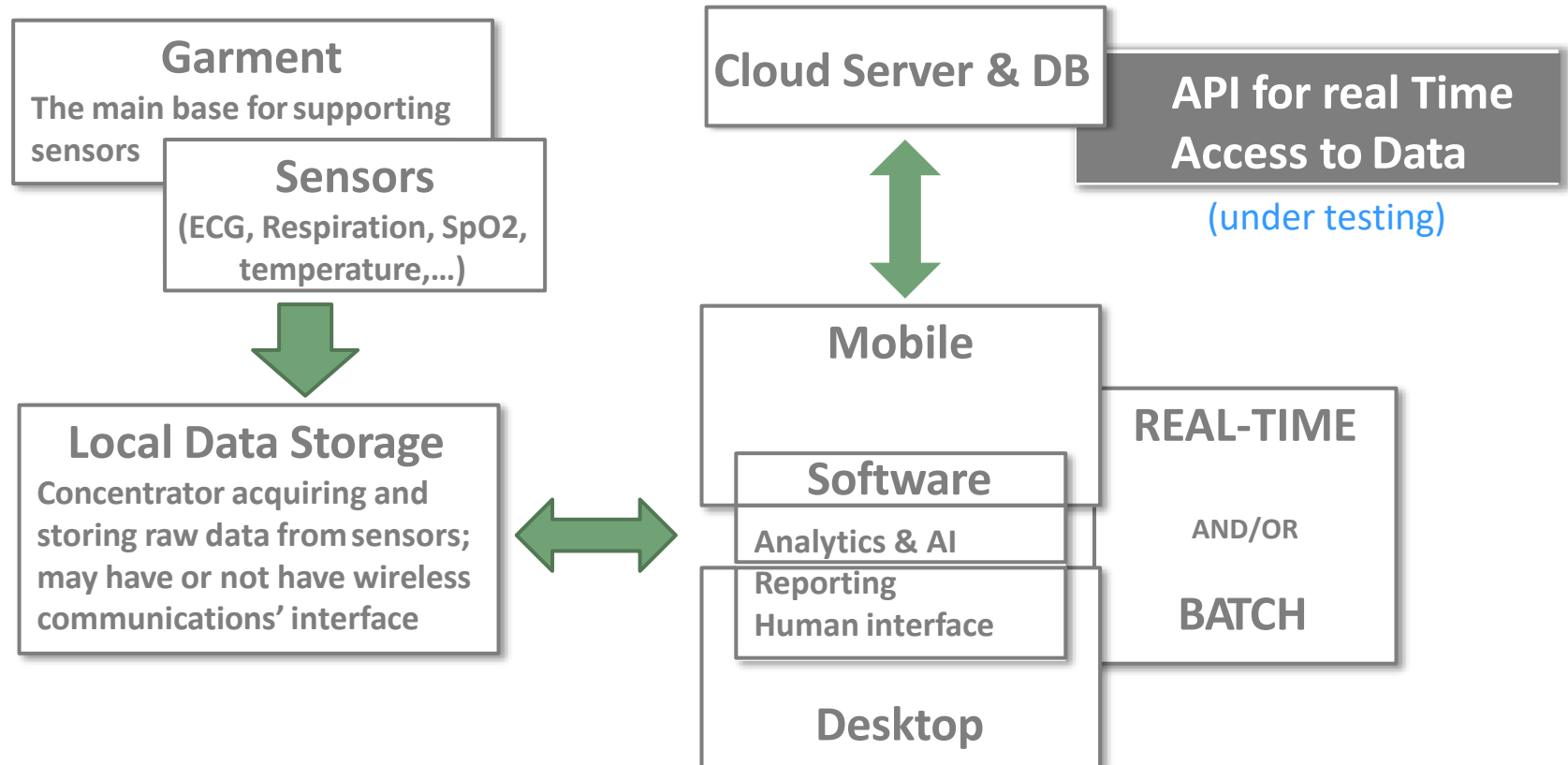
VitalJacket Baby and Kids 1, 5 leads VitalJacket ECG Monitor



Solutions for diagnosis and therapy of hands and feet

(under development)

Basic Concept of VitalJacket (under revision as we speak)



Evolution path

The course of action considers the development of a concentrator device, capable to accommodate the interfaces for connecting to different comms gateways, as well as having inputs for different sorts of sensors, so it is avoided, in the far extent possible, the need for developing a specific concentrator for each type of medical (diagnosis) device.


Considering this a first point of contact, allow us to rest here our speech.

We strongly believe that Biodevices' vision and offer matches what will clearly be a fast growing of need for telemedicine solutions for medical diagnosis, for both static and in motion usage, be it considering already determined pathologies, or as preemptive usage.

Some R&D Projects

where Biodevices know-how is present

With **CMU | Portugal** Carnegie Mellon University Portugal

□  **Vital Responder** Monitoring Stress among First Responder Professionals

□ MISC - Massive Information Scavenging with Intelligent Transportation Systems

With **MIT** Portugal

□ SAFER - System for Advanced Field Emergency operations
Integrated management of disaster first responder bodies
[sponsored by a Portuguese company in the field of security]

Some Publications



Some Publications

Circadian distribution of ventricular ectopic activity in patients admitted to Cardiovascular Rehabilitation program, (Poster C27) in XXXII Portuguese Congress of Cardiology, Lisbon, Portugal,



Vital-Jacket®: A wearable wireless vital signs monitor for patients' mobility in Cardiology and Sports, in Proc. 4th International ICST Conference on Pervasive Computing Technologies for Healthcare, Munich, Germany, 2010

BIOSIGNALS

"ECG ARTEFACT DETECTION ALGORITHM: An Algorithm to Improve Long-term ECG Analysis", In Proceedings of the International Conference on Bio-inspired Systems and Signal Processing

Partnerships with ...



petratex



CELFOCUS



abbvie



and...

...a Marriage to

dynasys

Engenharia e Telecomunicações, S.A.

- ✓ Dynasys still perform developments based upon analogue components, when required
- ✓ Develops mostly within digital technology, focused on 3 main technological / processing streams: PIC, ARM and Embedded Systems
- ✓ It also has skills in the area of mechatronics
- ✓ Development of firmware & software
- ✓ Development of taylor made software applications within the IT industry
- ✓ Dynasys offers full product industrialization capacity based on customer specifications (from deeply detailed spec's or only simple functional characteristics)
- ✓ Dynasys also offers manufacturing process, delivery, installation and set to service if required

Thank You!



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