FIRST

FIRST TO IMAGINE. FIRST TO INVENT.

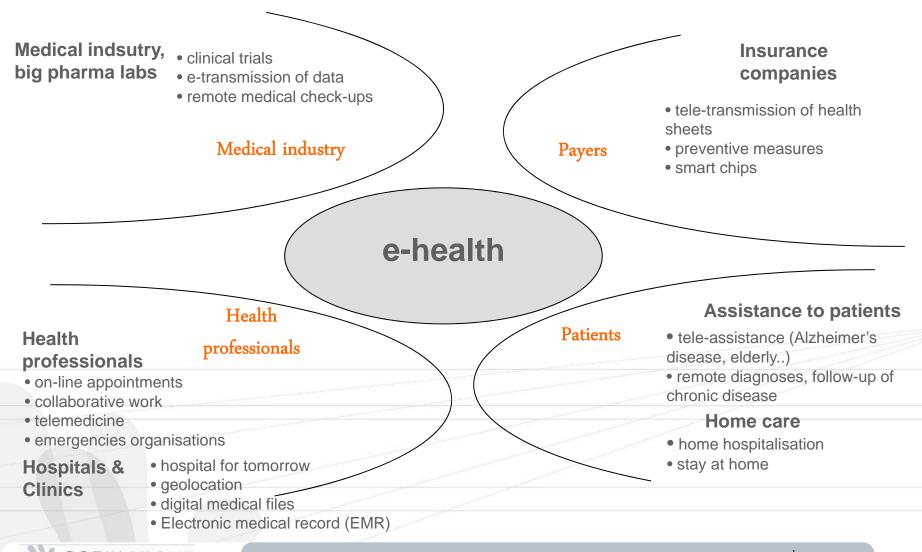


"CRM Devices and Telemonitoring: Where the industry stands today" pascal.genelot@sorin.com

EHRA Summit 2010, Tuesday 23 March 2010

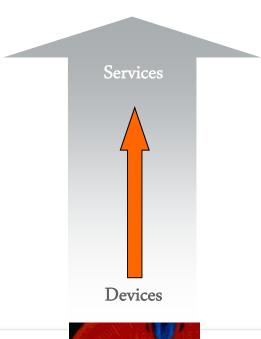


e-health is at the interface of the different healthcare stakeholders, for the benefit of the patient





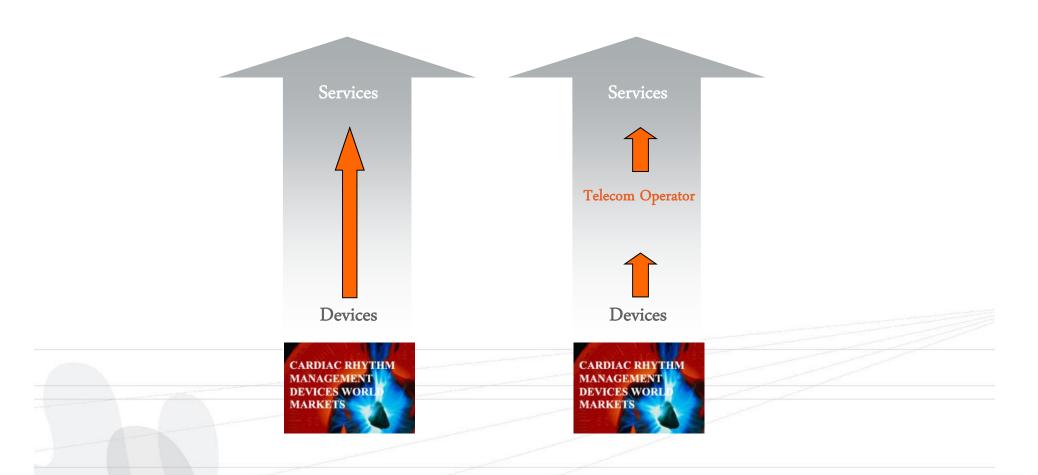
Sorin developed an e-Health vision





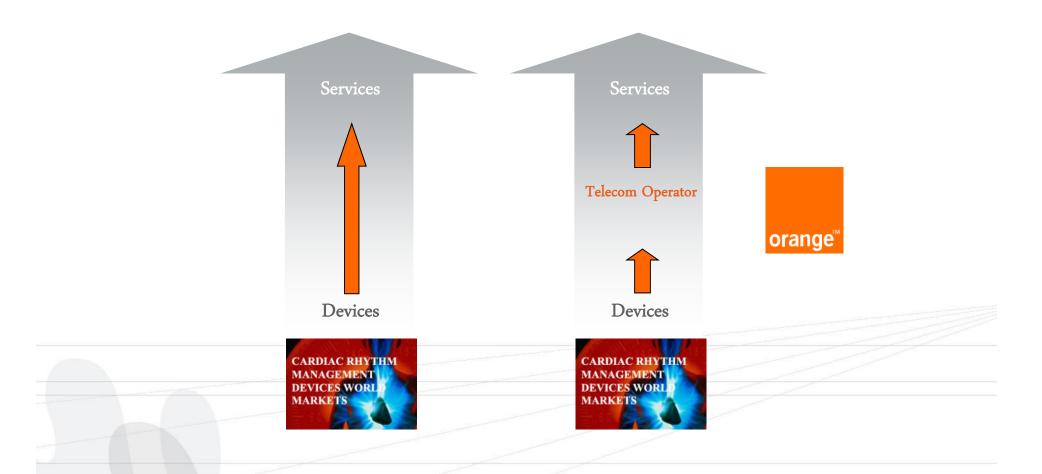


Sorin developed an e-Health vision





Sorin developed an e-Health vision

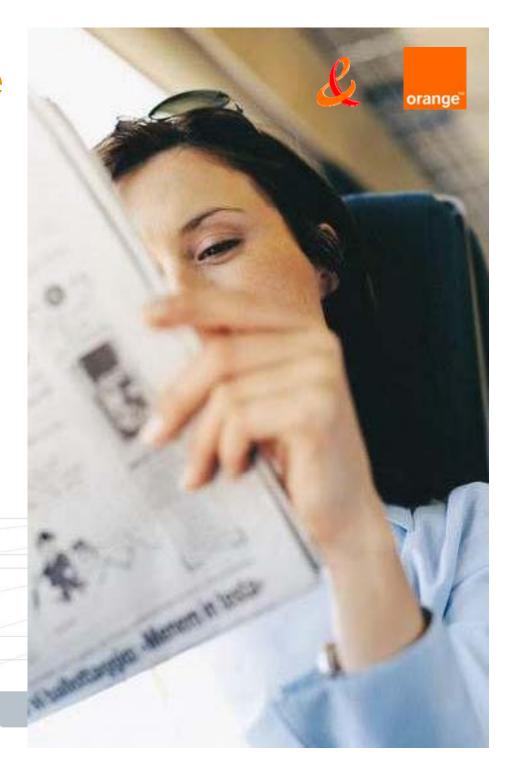




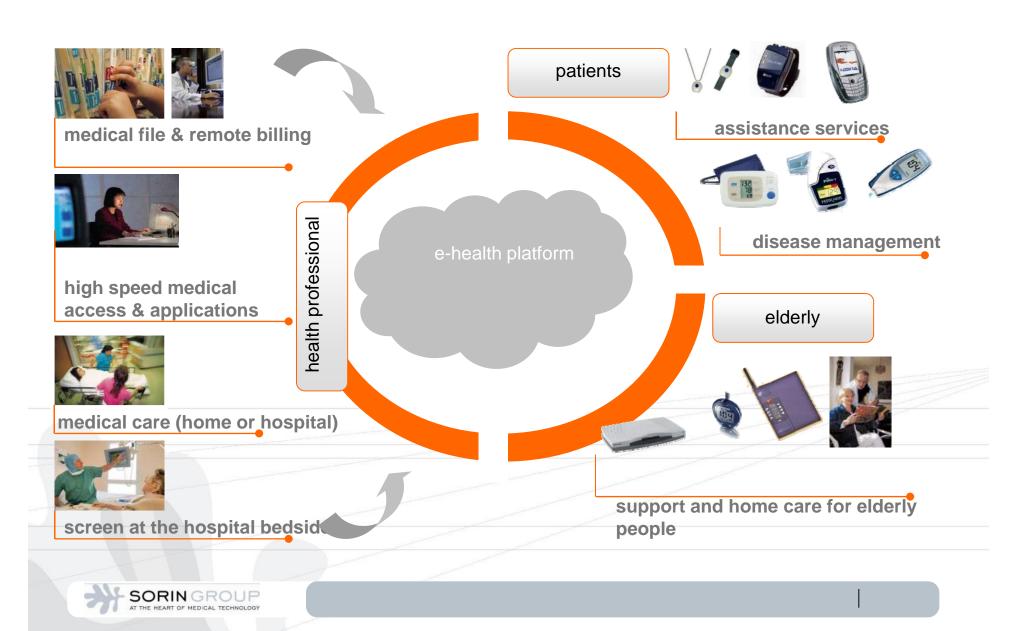
Sorin has chosen Orange

- France Telecom Orange provides mobile, internet, and fixed telecommunications services to 193 million customers in 32 countries.
- Orange has a global reach
 - seamless voice and data network, with local support in 166 countries and territories, mobile networks in 17 countries → the world's largest voice and data network
 - 132 million mobile customers → number three mobile operator
 - 13 million ADSL broadband customers in Europe → number two provider of Brodband internet services in Europe
 - 8 million business customers → world leader in telecommunications services for multinational companies under the Orange Business Services brand
- key facts
 - 4,200 R&D researchers





Sorin ... with Orange Healthcare portfolio of services



Sorin leverages e-Health solutions with Orange

Being an integrated telecom operator Orange is a key player for eHealth

Orange has gathered a tremendous body of experience in e-Health

Orange aims to be the e-Health European leader

Healthcare market (in the US, in Europe) is moving fast and a big step is





e-Health will enable all sorts of services



Sorin's vision: from Devices... to Patient Management

VISION

- Leverage Sorin's expertise in treatment algorithm and data analysis intelligence → Remote Monitoring to enhance
- Alerts with increased clinical focus
- Patient management: Peace of mind
- Offer complete remote monitoring functionality allowing routine remote follow-up as well as data check on patient's health condition.
 - Close monitoring of patients health status
 - Extend sensor capabilities into the patient's home.
- Provide caregivers with a solution for a patient's disease management, supported by customized service based on modern technologies
- Launch Services & Solutions in line with SORIN e-Health vision



Devices and Remote Monitoring: Where does Sorin stand today?



Alerts with increased clinical focus

TODAY

Technical Alerts

- Impedance (brady and tachy)
- Battery status
- Other devices issues (e.g. long charge time)

Alerts based on already existing diagnostic information

- Atrial Arrhythmia
- Detection and treatment of Ventricular Tachycardia
- CRT delivery

SHORT TERM FUTURE

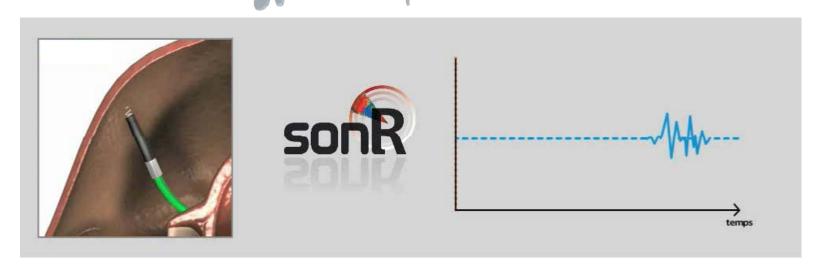
Sorin focus on Monitoring of heart failure

Sorin alerts will leverage combination of existing sensors:

- Minute ventilation
- Acceleration (exercise)
- Contractibility
- All information on cardiac rhythm
- Reconstructed surface ECG



Sorin SonR: Hemodynamic CRT Optimisation SORIN SORIN SONR



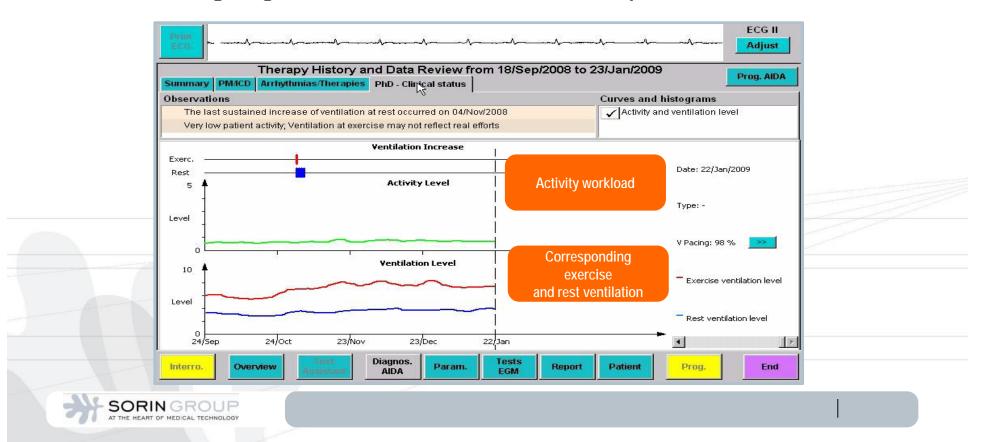
- sonR Embedded lead sensor measuring heart sound
- Optimisation of VV & AV delays to maximize LV contractility and filling
- operates fully automatically at rest and exercise, during daily patients activity
- Runs through cardiac remodeling: VV & AV delays periodically re-adjusted



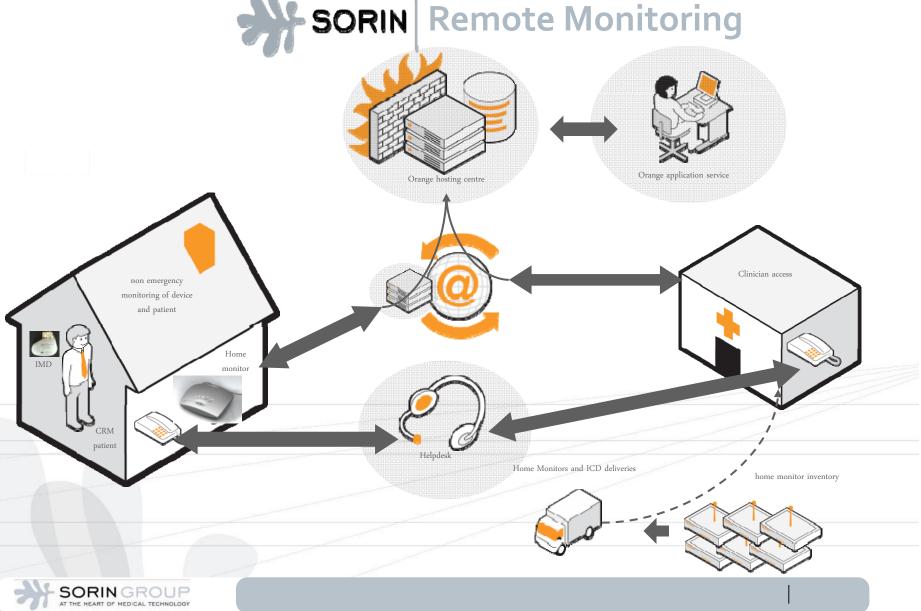
Sorin PhD: Patient status evolution at a glance



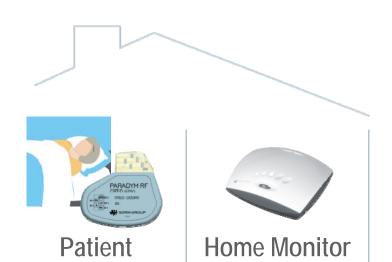
- PhD quantitatively tracks
 activity workload
 - ventilation at rest and during exercise
- PhD flags significant evolutions over 6 months periods



Sorin remote monitoring: a global solution Remote Monitoring



Sorin remote monitoring: an end-to-end solution





Back-office



Web Application



Physician & Helpdesk



Physician Configures System Home Monitor Collects Data From Device Home Monitor Sends Data to Back-office Back-office Produces Clinical Report Physician
Evaluates Clinical
Report and Treats
Patient



Sorin Group Remote Monitoring From device to patient management



SESSION START

- Routine Follow-up
- Device Alerts
- Clinical events



DATA SENT

- Patient information
- Battery status
- Lead status
- EGMs
- Arrhythmia Episodes
- Cardiac statistics



USER INTERFACE

- Secure Access
- Clinic management
- All patients list
- New transmissions
- Follow-up schedule



Nov 25th, 2009

Honored for their work
in applying Machine-to-Machine
and e-Health technologies
to improve patients' quality of life

Orange Business Services and Sorin Group awarded Best Change-Maker for Innovations in Remote Health Monitoring and Telemedicine





Best Change-Maker Orange Business Services/Sorin Group - Winner





World Communication Awards

For global communications providers 25th November 2009 The London Hilton on Park Lane



Business Services

World Communication Award 2009

http://www.worldcommsawards.com/
http://www.totaltele.com/show.aspx?i=875



- The World Communication Awards is an annual event, which is the reference in the telecommunications world.
- Delivered by the WCA, the Best "Change-Maker" award is the telecommunication industry's most prestigious prize for monumental business achievements. It is a recognition of the best innovation of the year.
- This award is an extraordinary recognition of the unique strength resulting from SORIN and ORANGE partnership. It demonstrates the value of the full integration between medical devices and machine to machine telecommunications expertise.
- Customers and cardiac patients can trust SORIN commitment to providing innovative and robust remote monitoring solutions



What enabled winning the "best change-maker" award?

Sorin's intelligent algorithms streamline proper diagnoses and rapid medical decisions

Sorin Algorithms

Sorin strengths in Remote Monitoring

Sorin

User Interface

Sorin's user-friendly and easy-to-access data to the physicians

Sorin

Service

Orange's applications development, systems integration support, and data management expertise TechTeam helpdesk solutions deliver peace of mind to the physicians and their patients



Sorin Service with the most advanced Technology

operational excellence





Business Services

Infrastructure

- Network
- Telephony
- Hosting

Transmissions

- Internet Dial
- Internet Direct
- Security

Back Office

- Speed
- Reliability
- Uptime

Application

- Function
- Maintenance

Archive

- Backup
- Data Recovery



Sorin Service with professional support to the users

service desk excellence

#1 globally in HelpDesk Outsourcing (2009)



EXECUTION EXCELLENCE

AGILE AND RESPONSIVE

DEEP EXPERTISE

MEDICAL EXPERIENCE



eClinical support Increased User satisfaction

Sorin remote monitoring... ...Service excellence



with your Sorin Sales Rep



during Remote Follow-Ups...

peace of mind



.. and when analysing your Data



FIRST

FIRST TO IMAGINE. FIRST TO INVENT.



pascal.genelot@sorin.com

