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MyHeart – Fighting
Cardiovascular Diseases by
Prevention and Early Diagnosis

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MyHeart









Fighting cardiovascular disease by preventive lifestyle & early diagnosis

EU IST E-health (6th framework)

• Start: 31.12.2003

Duration: 45 months

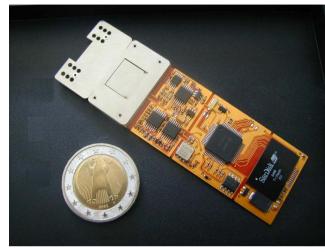
• Partners: 33 (10 countries)

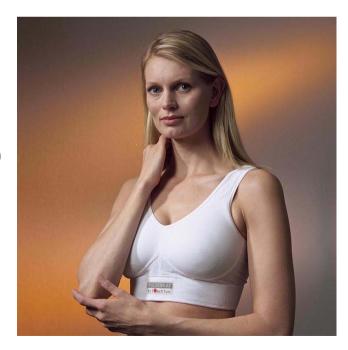
Total manpower: 75

• Total budget: 33 M€

• EC-funding: 16 M€

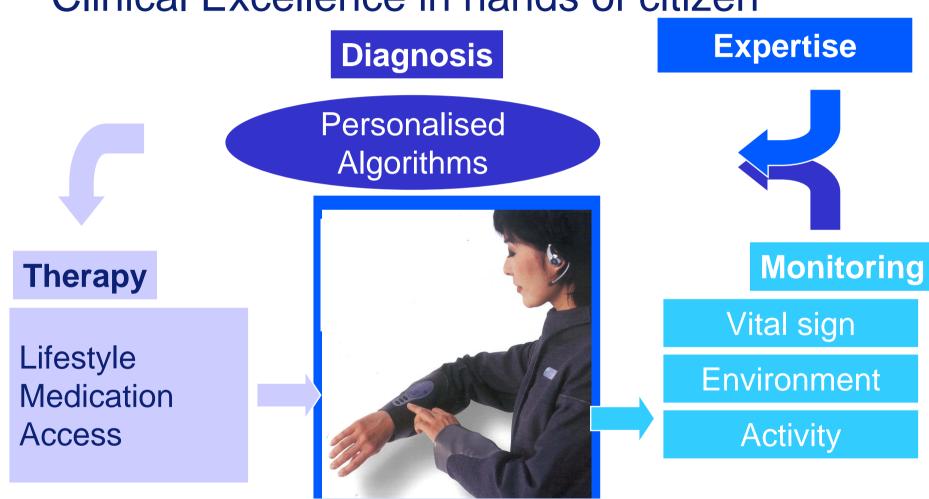
(+ Swiss funding)





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MyHeart System 'Clinical Excellence in hands of citizen'



How to define and exploit your applications"The famous 5 MyHeart questions"

- - What is the added value
 - For the user/patient in terms of medical or other benefit
 - For the customer (healthcare stakeholders) in terms of business
 - Who is the
 - User/patient
 - Customer
 - How to realize it technically
 - Why to believe in your solution
 - Validation by field tests!
 - Ask the users, physicians and other stakeholders on their opinion!
 - Where is the business
 - Elaborate addressable market, stakeholder maps, values for

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Start as broad as possible and focus as much as possible during the project!

16 ideas

16 concepts

Phase 1: Concept

Jan/04-June/05 (18 months)

- Filling the application segmentation matrix
- building early demonstrators and mock-ups
- assessing customer/stakeholder reaction
- selecting the most attractive concepts + business prop.

Phase 2: Implementation July/05-June/06 (12 months)

- realising the most attractive concepts
- defining reference architecture for prevention
- clinical/medical panel testing

4 product concepts

Phase 3: Validation

July/06-Sep/07 (15 months)

- Demonstrating technical/medical feasibility (trials & panels)
- Building partnerships for business exploitation
- Dissemination

•Sum:

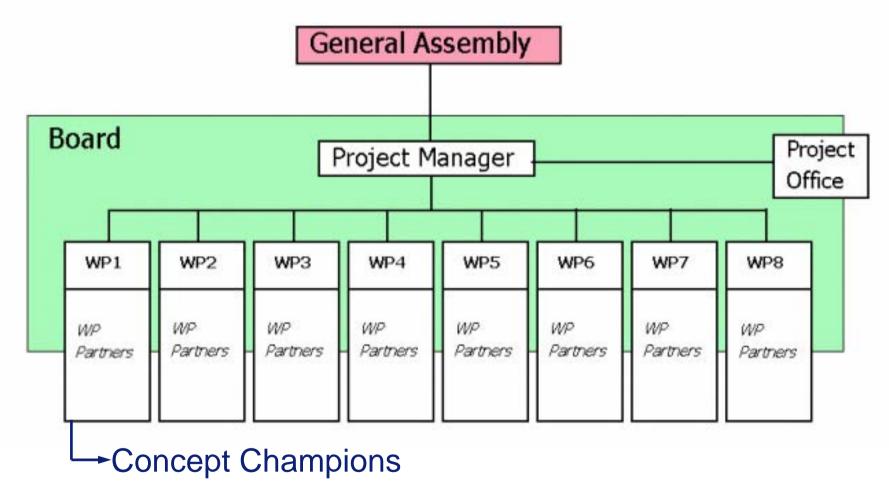
45 months

1-4 field-tests

Technical challenges

- Contact-based textile electrodes prone to movement artifacts
 - → Work on contact-less sensors required
- How to connect fiber with connector
- Small and robust connector to electronics
- Integration of electronics into garment (Size, washability)
- Power consumption and charging of electronics
- Decentralized sensing and data processing (body area networking)
- Sensor fusion
- Expert systems for diagnosis and therapy

Hierarchical communication structure



pard is key discussion and decision gremium and has regular meetin

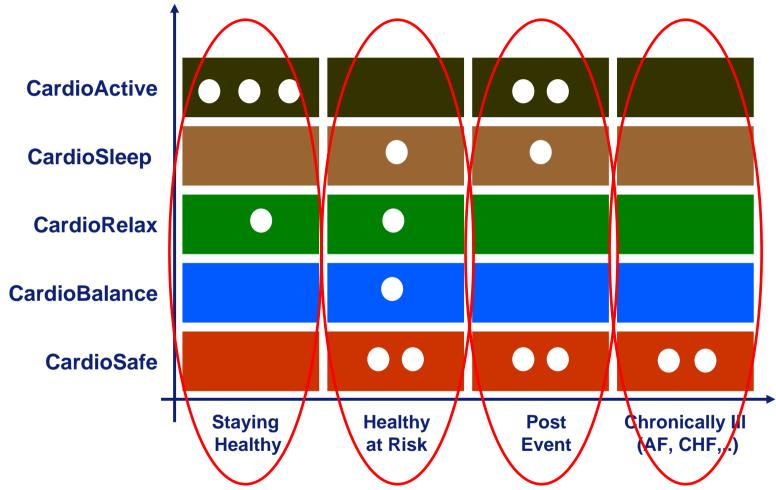
Administrative Challenges and Tips

- As consortium leader take as much responsibility as possible from the Commission
 - Gives you more freedom in specific cases
- Don't expect the administrative EC departments to be as flexible as the officers would want them to be
 - Rules can of course not be bended
 - Everything takes time
- Hire a financial person to handle all financial issues
- Do not announce uncertain facts to the consortium and do not fix things unnecessarily (the partners will take this as a given, even if it was designated as provisional)
- Split technical and budgetary discussions (MyHeart selection was very successfully completed in that way)
- Think of including additional partners during the project if you recognize a gap in the consortium or you encounter new challenges, do also not hesitate to stop a partner



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MyHeart Scope: Application Matrix



→ Product concepts as integral solutions for a specific user group