



TELECOACHING FOR CARDIOVASCULAR RISK FACTOR CONTROL IN THE ELDERLY

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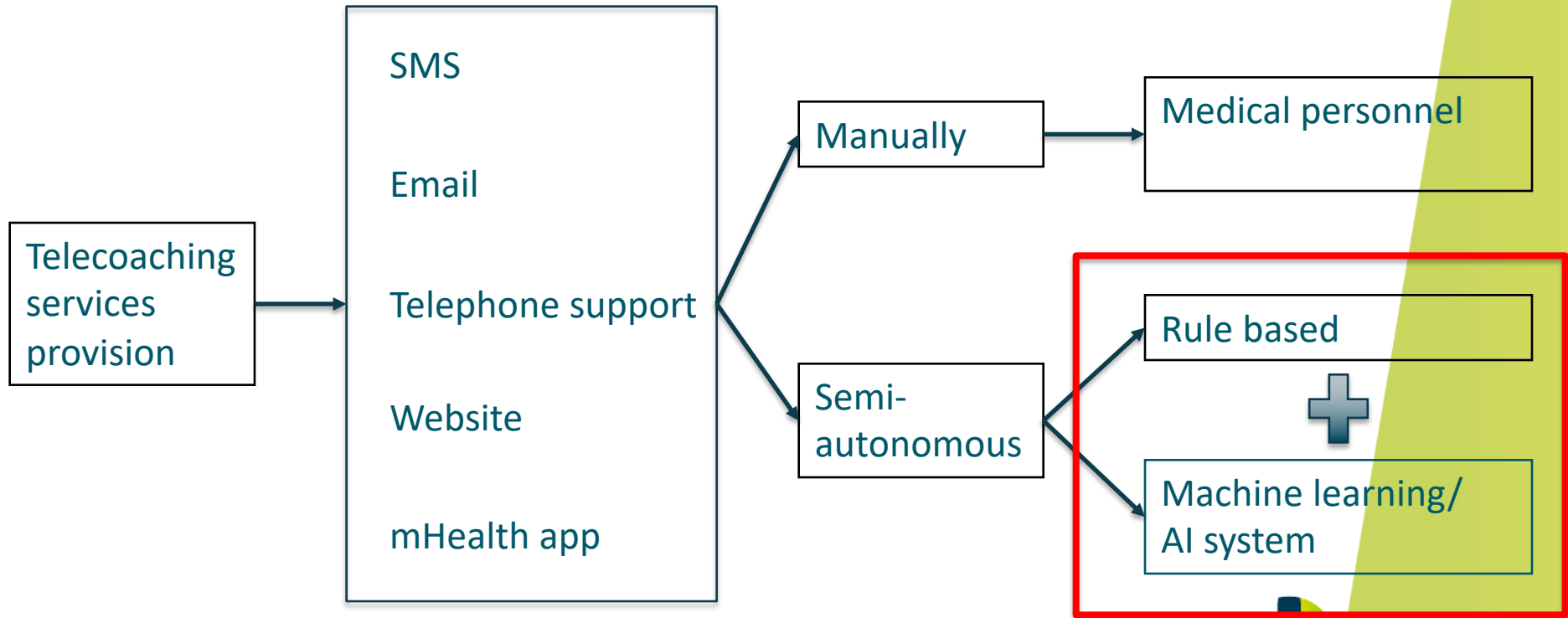
DIGITAL HEALTH ERA

Definitions:

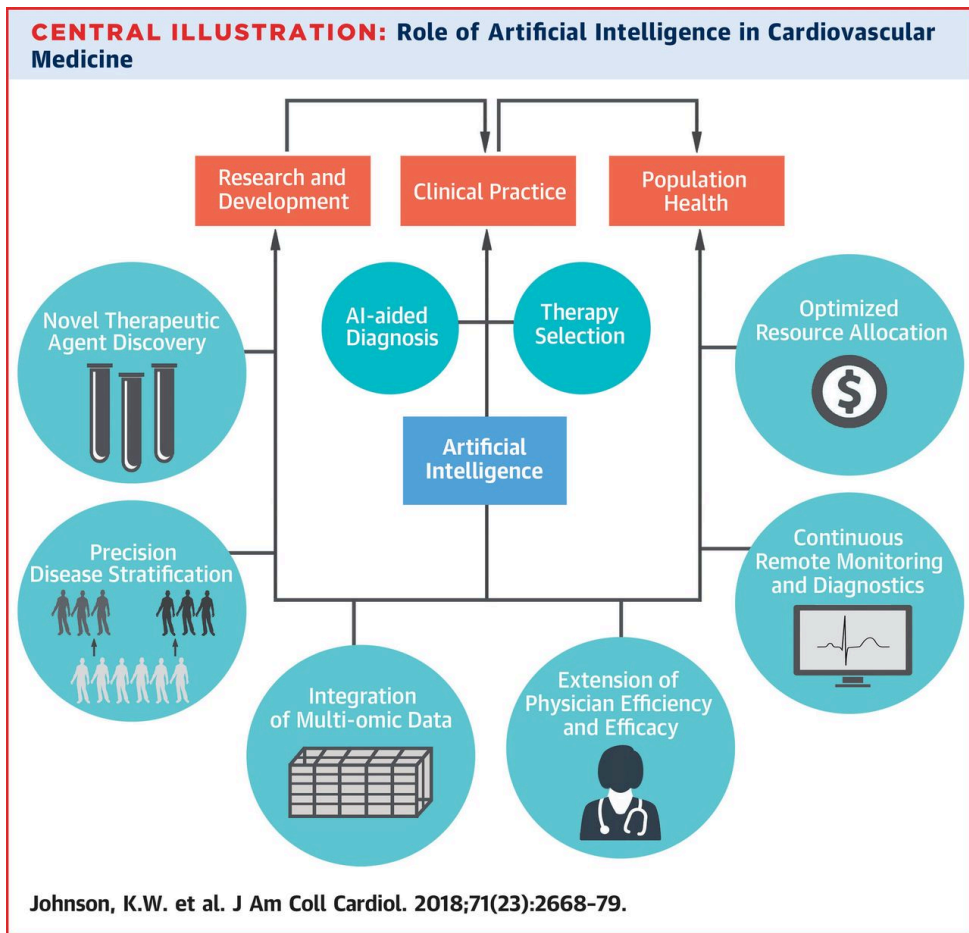
- Telemonitoring- transfer of physiological data through transmission technologies
- Telecoaching - provision of advice at distance
- Social interaction
- E-learning provision of medical educational information



DIGITAL HEALTH ERA

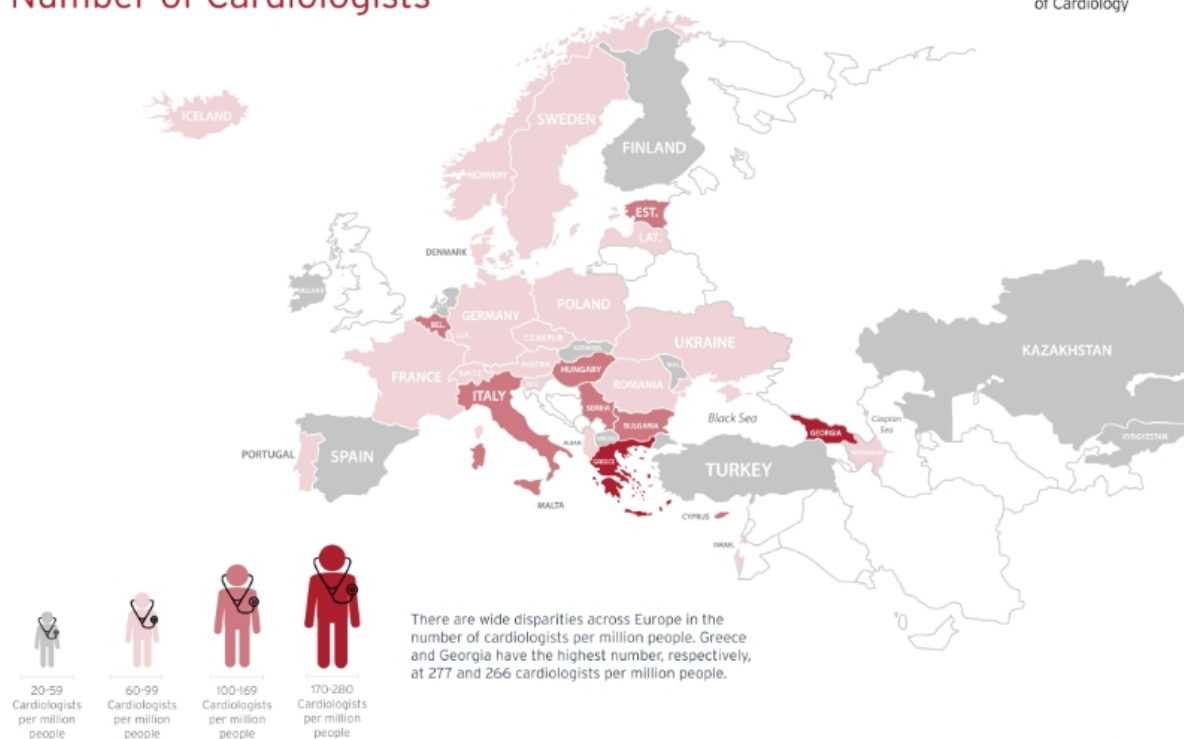


ROLE OF AI IN CVD



TELECOACHING IMPLEMENTATION BARRIERS

Cardiovascular Realities in Europe Number of Cardiologists



Source: Timmis A, Townsend N, Gale C, Grobbee R, Maniadakis N, Flather M, Wilkins E, Wright L, Vos R, Bax J, Blom M, Pello T, Vardas P. European Society of Cardiology Cardiovascular Disease Statistics 2017. Eur Heart J 2017; 38(7):508-579.

www.escardio.org/atlas



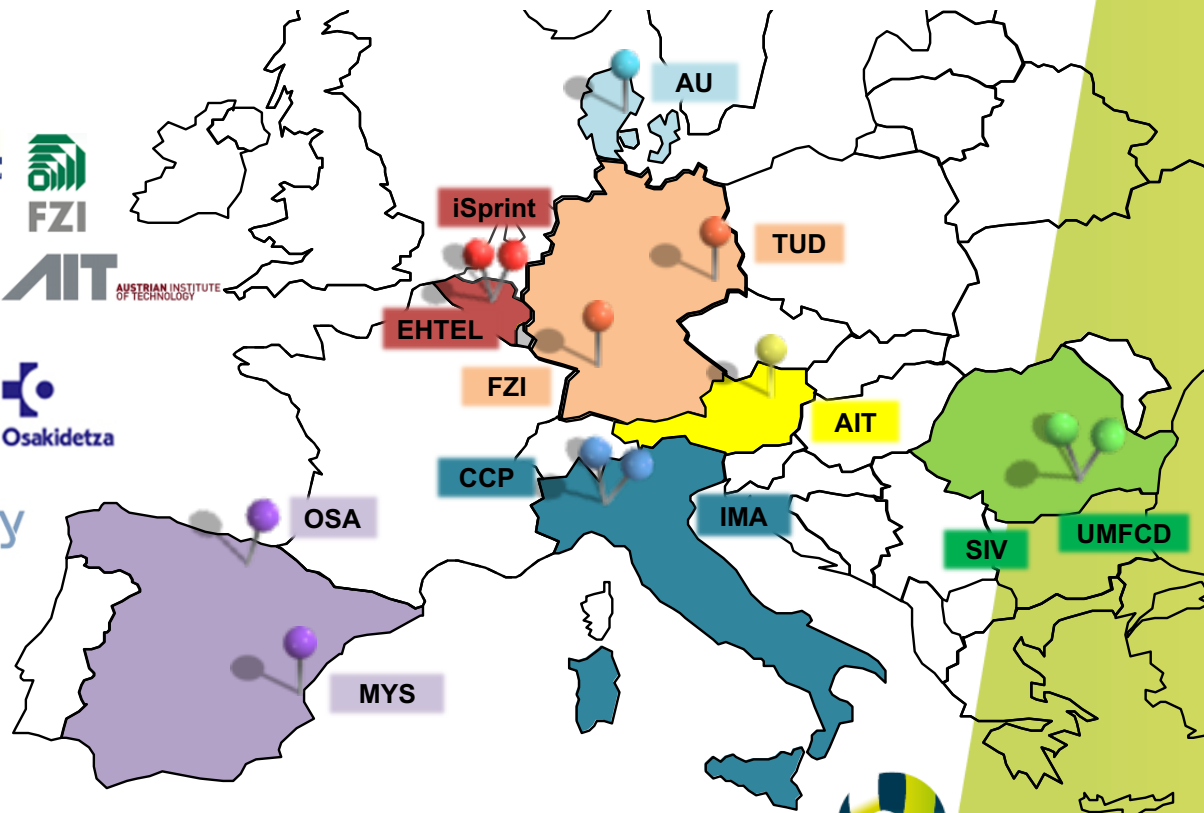
H2020 VCARE PROJECT



Virtual Coaching Activities for
Rehabilitation in Elderly
Started 1 September 2017
Length 48 months

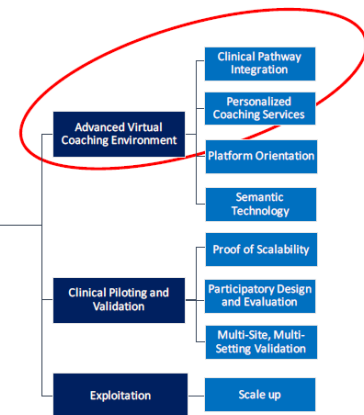
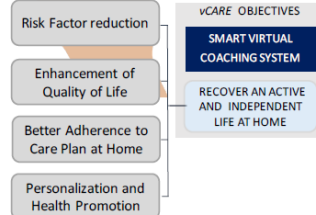
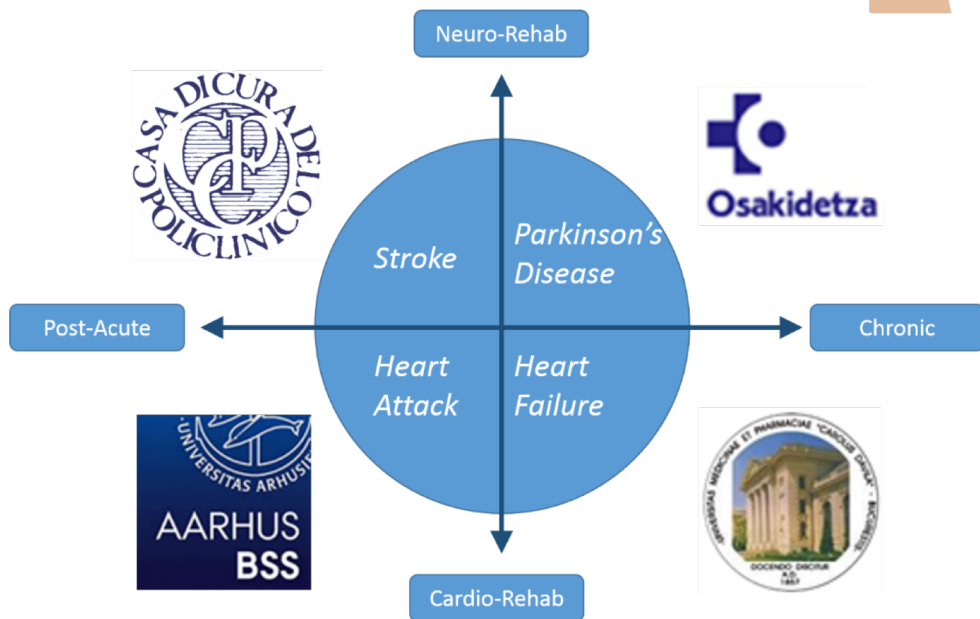


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11/04/2019

OBJECTIVES



SPECIFIC VC FUNCTIONS

CARDIOVASCULAR FITNESS IMPROUVEMENT

MEDICATION ADHERENCE

WEIGHT CONTROL

SMOKING CESSATION

ALCHHOOL CONSUMPTION CONTROL

ANXIETY AND DEPRESION

PATIENT HEALTH EDUCATION



HOW WILL WE DO IT?

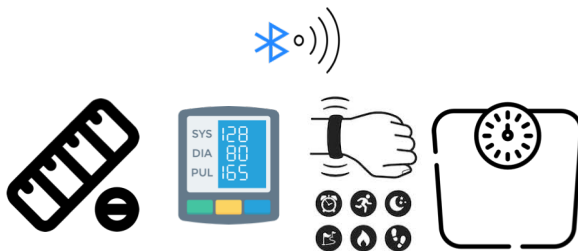
Feedback & Serious games



Virtual coach, machine learning and knowledge integration



Unambiguous location & fall detection



Activity and Health Monitoring



Contextualisation

ROLES

Medical team

- Participates at the configuration of the initial patient's profile
- Is notified in case of abnormal prolonged evolution or emergencies
- can update the patient profile, if changes are needed

Virtual Coach:

- reminds the patient daily to follow his rehabilitation plan –with dynamic adaptation depending on patients adherence
- monitors patient's activity by controlling risks (monitor hazards), detecting change in emotional state and in motor activities trends
- it collects information through verbal interactions, gives feedback to the patient on his/her performance and adapt some treatments automatically

Family members

are notified by the VC in case of lack of medication adherence, recurrent bad mood, not respecting the rehabilitation plan.



NEXT STEPS...



спасибо 谢谢
GRACIAS
THANK YOU
ありがとうございました MERCI
DANKE धन्यवाद
شُكراً OBRIGADO



vCARE
VIRTUAL COACHING ACTIVITIES
FOR REHABILITATION IN ELDERLY

www.vcare-project.eu

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