



VIRTUAL REHABILITATION COACH AT HOME FOR CARDIAC PATIENTS

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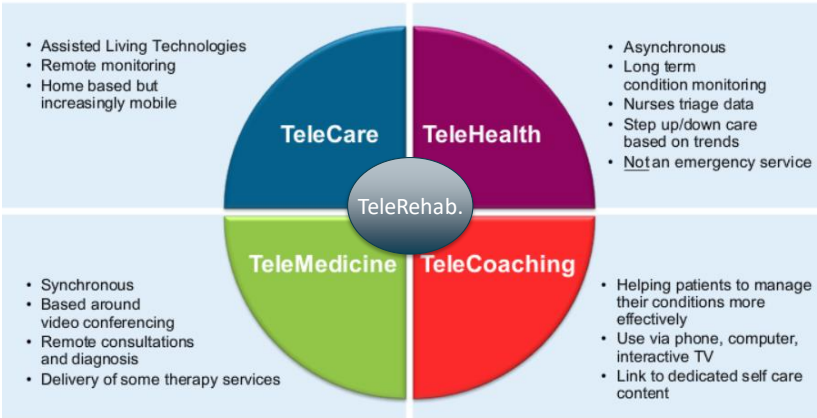
vCARE
VIRTUAL COACHING ACTIVITIES
FOR REHABILITATION IN ELDERLY

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 769807.



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The New Scope of TeleServices



TeleCare

- Assisted Living Technologies
- Remote monitoring
- Home based but increasingly mobile

TeleHealth

- Asynchronous
- Long term condition monitoring
- Nurses triage data
- Step up/down care based on trends
- Not an emergency service

TeleMedicine


- Synchronous
- Based around video conferencing
- Remote consultations and diagnosis
- Delivery of some therapy services

TeleCoaching

- Helping patients to manage their conditions more effectively
- Use via phone, computer, interactive TV
- Link to dedicated self care content

TeleRehab.

CSC



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TELESERVICE: FROM RESEARCH TO ROUTINE CARE



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*"THERE ARE MORE PILOTS IN TELEMEDICINE THAN IN ...
AEROFLOT!"*



"Be patient, a few more strokes and I'll
soon have the momentum going."

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18 CRITICAL SUCCESS FACTOR FOR SCALING-UP

#1: A compelling need

i.e. the recognition that the innovation is contributing to

- ☑ Quality of care/rehabilitation
- ☑ Quality of Life of patients
- ☑ Efficient use of healthcare resources
- ☑ ...



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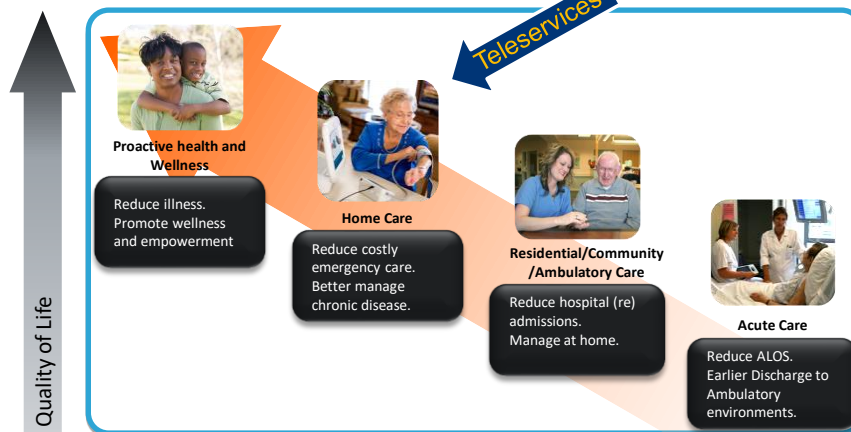


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THE SHIFT LEFT = A COMPELLING NEED FOR TELESERVICES



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Cost of Care



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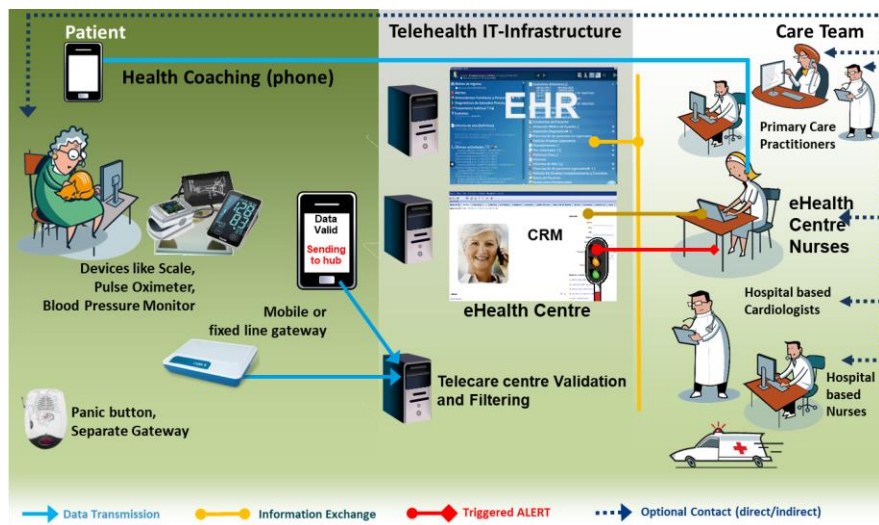
AN EXAMPLE OF A SHIFT LEFT IN ROUTINE CARE

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CHRONIC HEART FAILURE MANAGEMENT IN BASQUE



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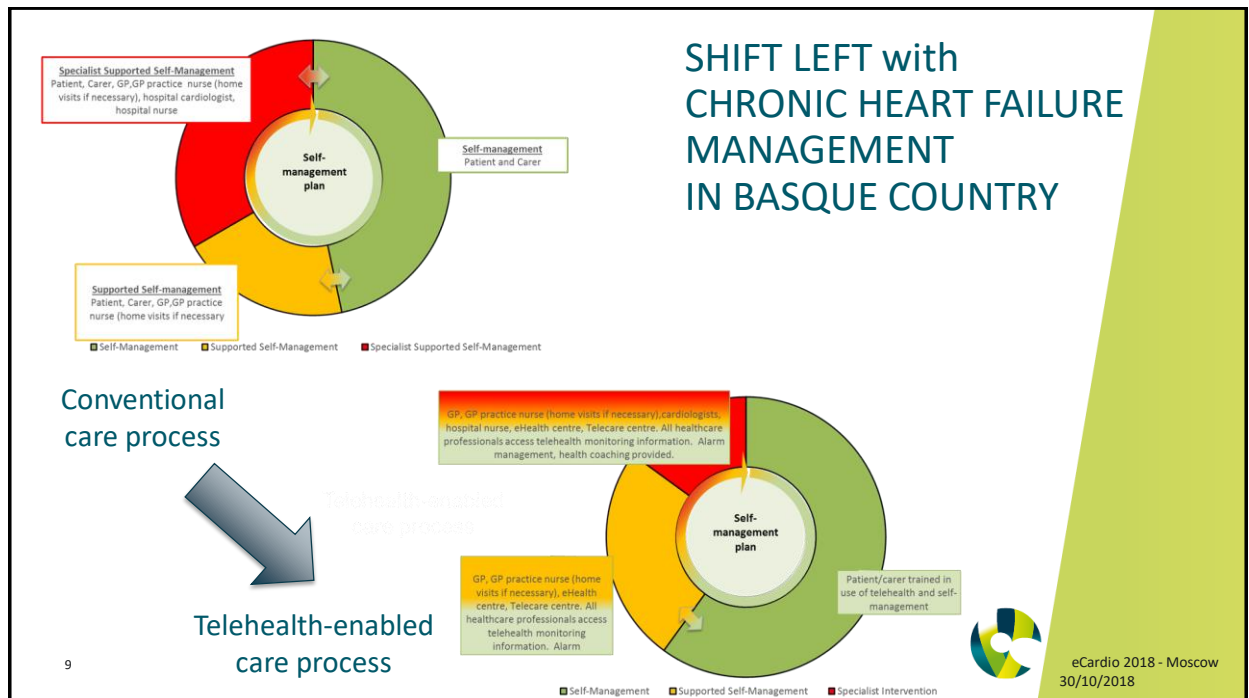


United4Health

www.united4health.eu

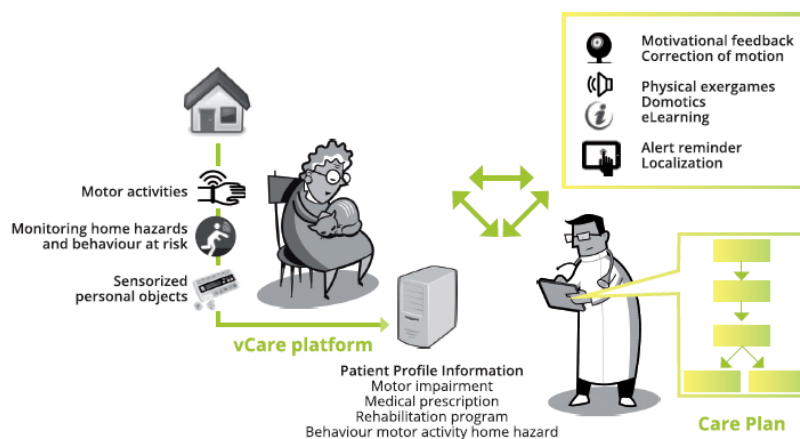


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HOME REHABILITATION WITH VIRTUAL COACH

Proof of Concept: The journey is just starting



Road map to 70% CR participation

Cardiac rehabilitation adherence

- Set 36 CR sessions as goal
- Home-based CR option
- Flexible CR hours
- Work to minimize CR co-pays

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Cardiac rehabilitation enrollment

- CR staff liaison
- Early appointment at CR
- CR *enrollment* as performance measure
- Work to minimize co-pays

2

Cardiac rehabilitation referral

- EMR-based referral
- CR staff liaison
- CR *referral* as performance measure

1

MAYO CLINIC PROCEEDINGS

Articles & Issues- Multimedia- Collections- CME- Authors & Reviewers- Readers- Adv

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< Previous Article February 2017 Volume 92, Issue 2, Pages 234-242 Next Article >

Increasing Cardiac Rehabilitation Participation From 20% to 70%: A Road Map From the Million Hearts Cardiac Rehabilitation Collaborative

Philip A. Ades, MD, [ORCID](#), Steven J. Keteyian, PhD, Janet S. Wright, MD, Larry F. Hamm, PhD, Karen Lui, RN, MS, Kimberly Newlin, ANP, Donald S. Shepard, PhD, Randal J. Thomas, MD, MS

PlusX Metrics

DOI: <https://doi.org/10.1016/j.mayocp.2016.10.014>

Check for updates

PM f t y +



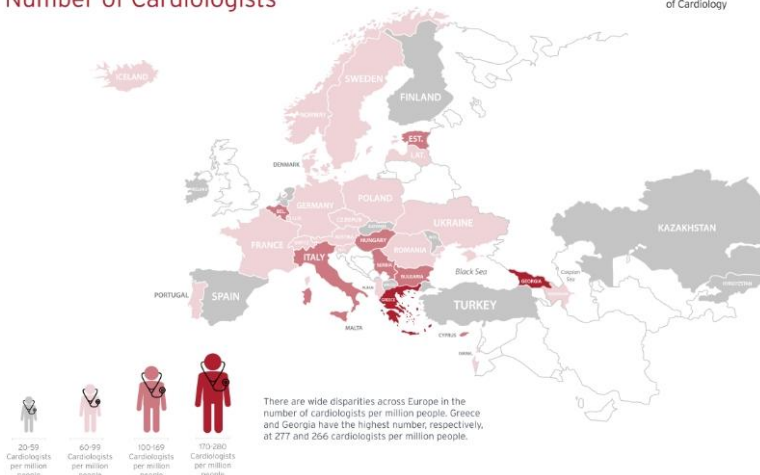
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Cardiovascular Realities in Europe Number of Cardiologists



ESC Atlas of Cardiology



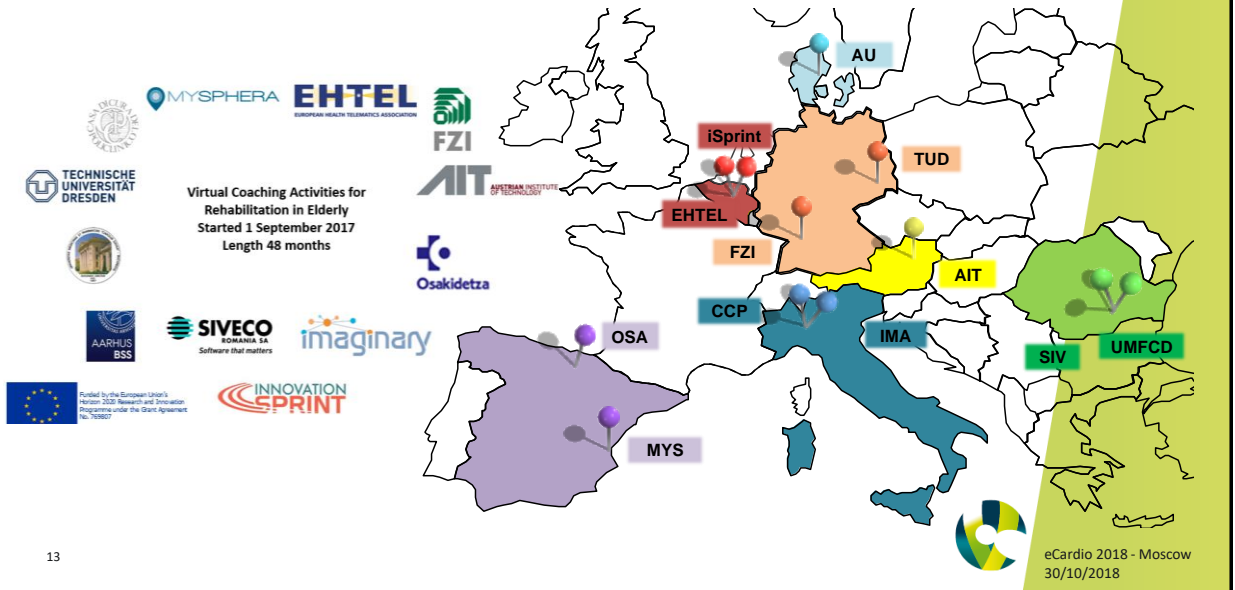
Source: Tsimikas A, Tsimikas A, Gazi C, Sirtori CR, Mosconi A, Ntzani EE, Wilkins C, Sirtori L, Sirtori R, Sirtori J, Sirtori M, Sirtori F. European Society of Cardiology Cardiovascular Disease Statistics 2017. Eur Heart J. 2017;38(1):000-075. www.escardio.org/atlas



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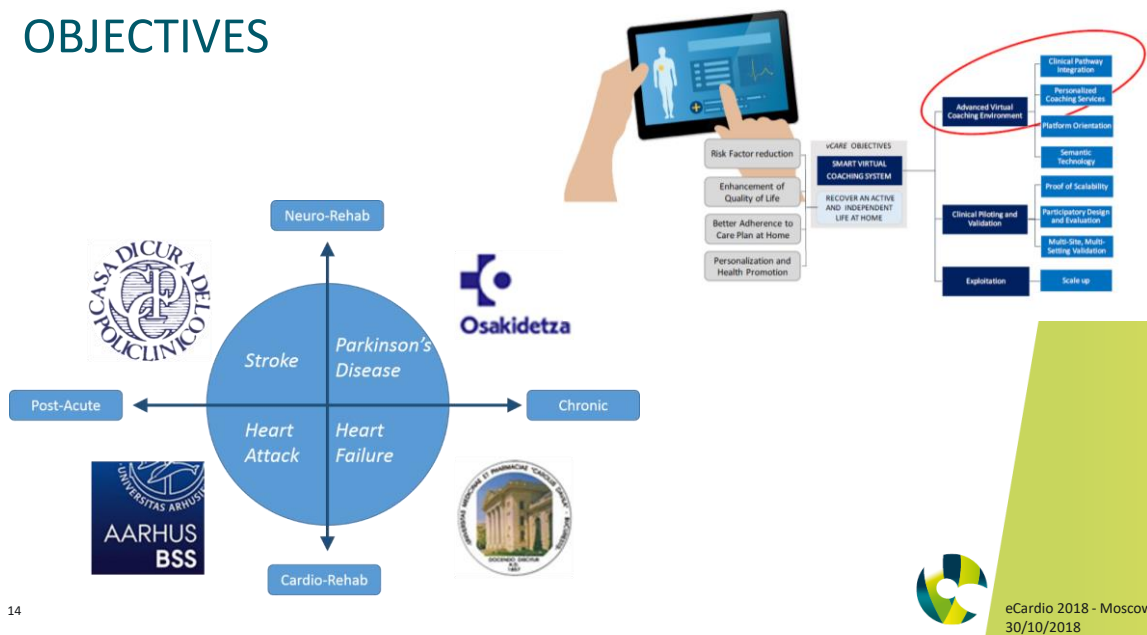
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H2020 vCARE PROJECT



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OBJECTIVES



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HOW WILL WE DO IT?

Feedback & Serious games



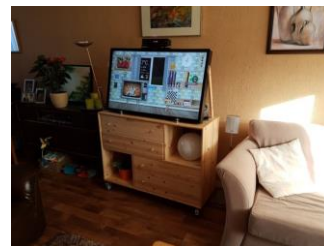
Virtual coach, machine learning and knowledge integration



Unambiguous location & fall detection



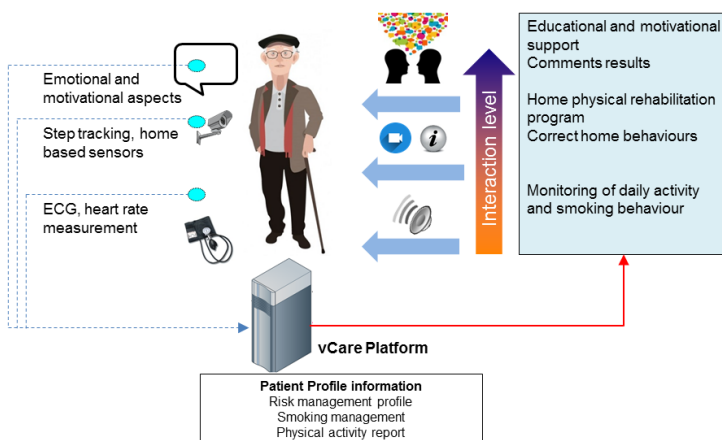
Activity and Health Monitoring



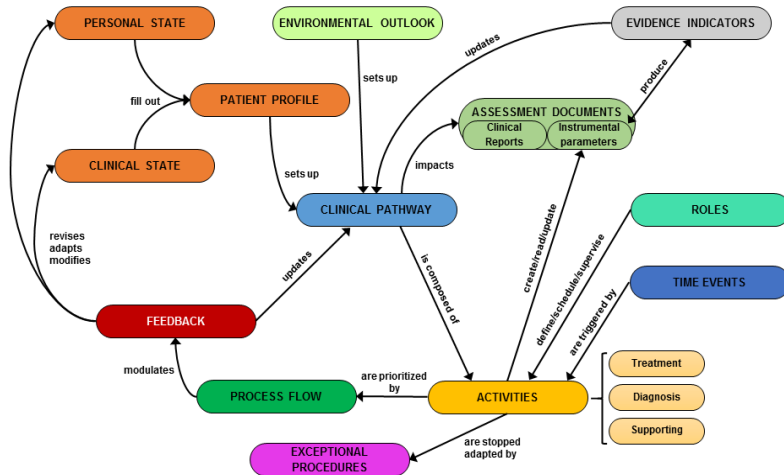
Contextualisation

VCARE REVIEW MEETING
31/10/2018

REPRESENTATION OF PROPOSED PERSONALIZED HOME REHABILITATION PATHWAY



PERSONALIZATION APPROACH



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WHAT'S NEXT?



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