

TORCH

Transforming Open Responsible Research
and Innovation through CHARM



BeatHealth: From Science to Innovation

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TORCH Annual Forum – 2nd of March 2022

THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT NO 101017229.



Summary

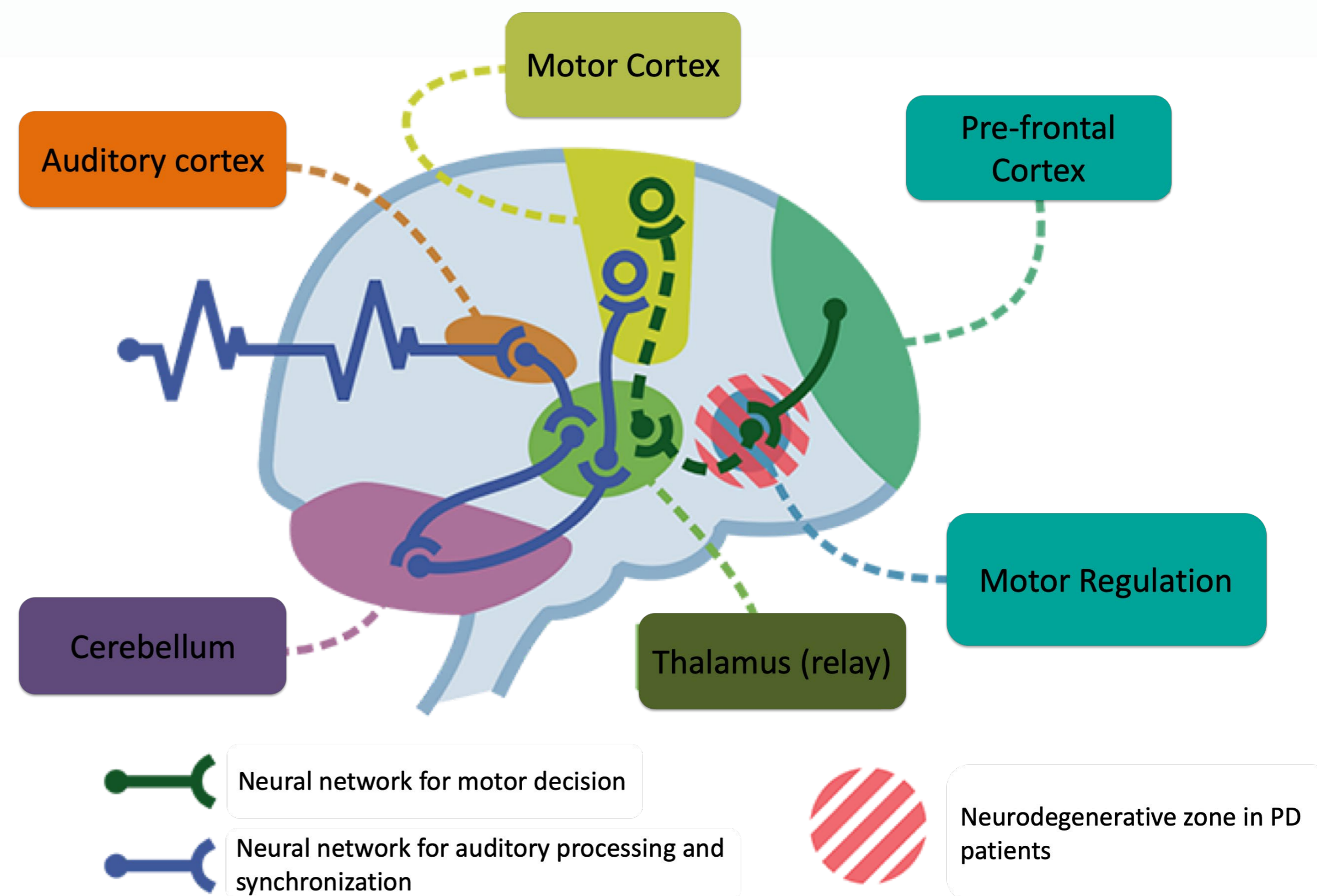


- **BeatHealth : Health and wellness on the beat**
- **The BeatHealth solution**
- **Testimony video**
- **History of BeatHealth project**

BeatHealth: Health and wellness on the beat



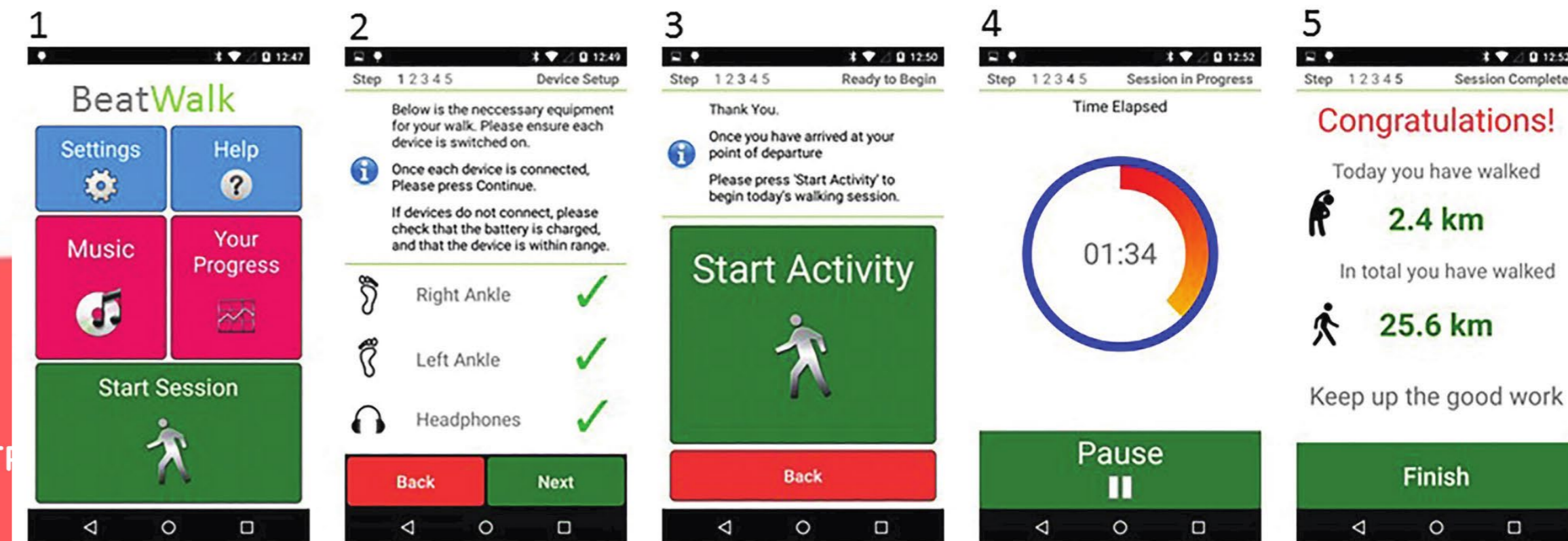
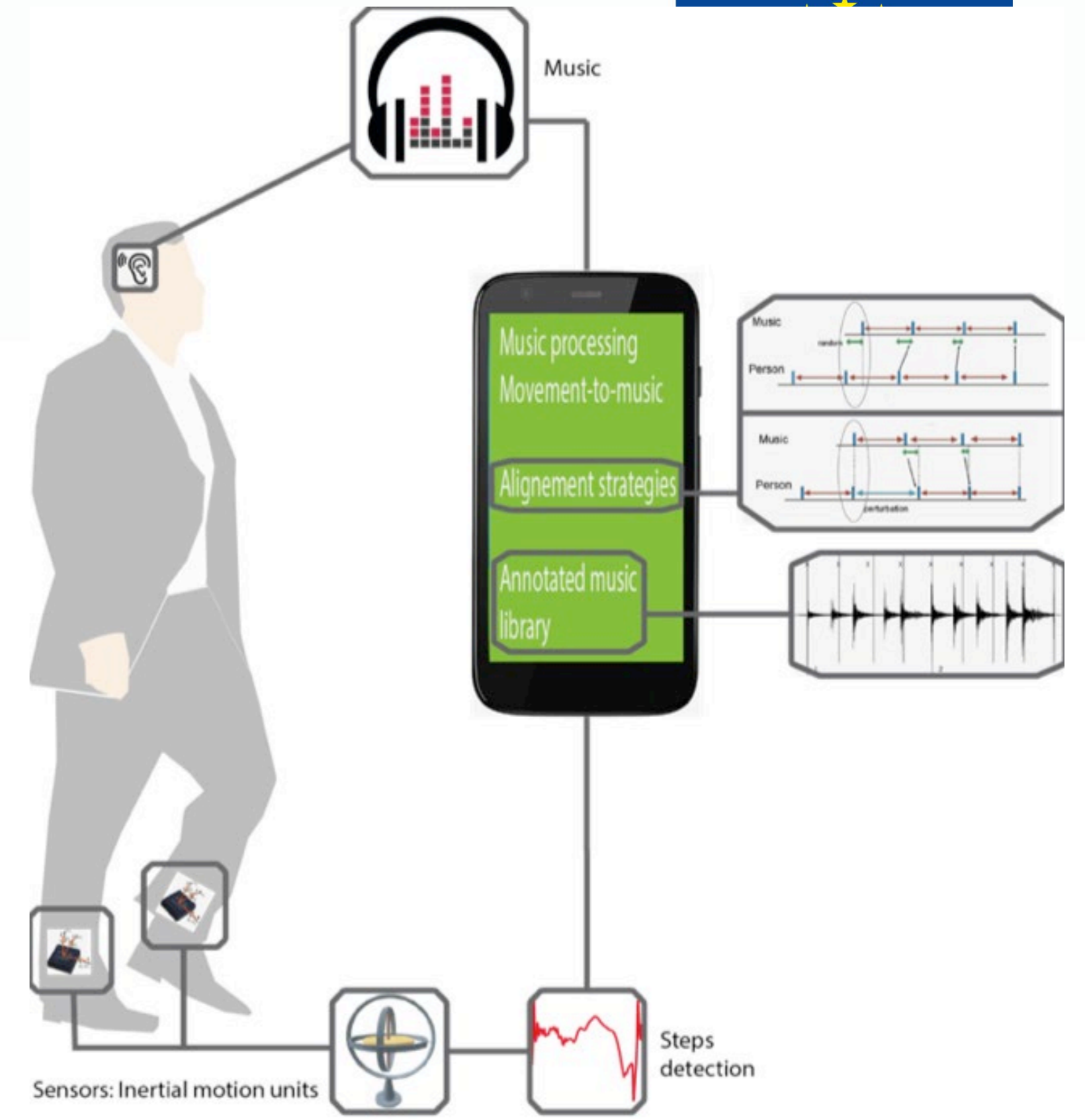
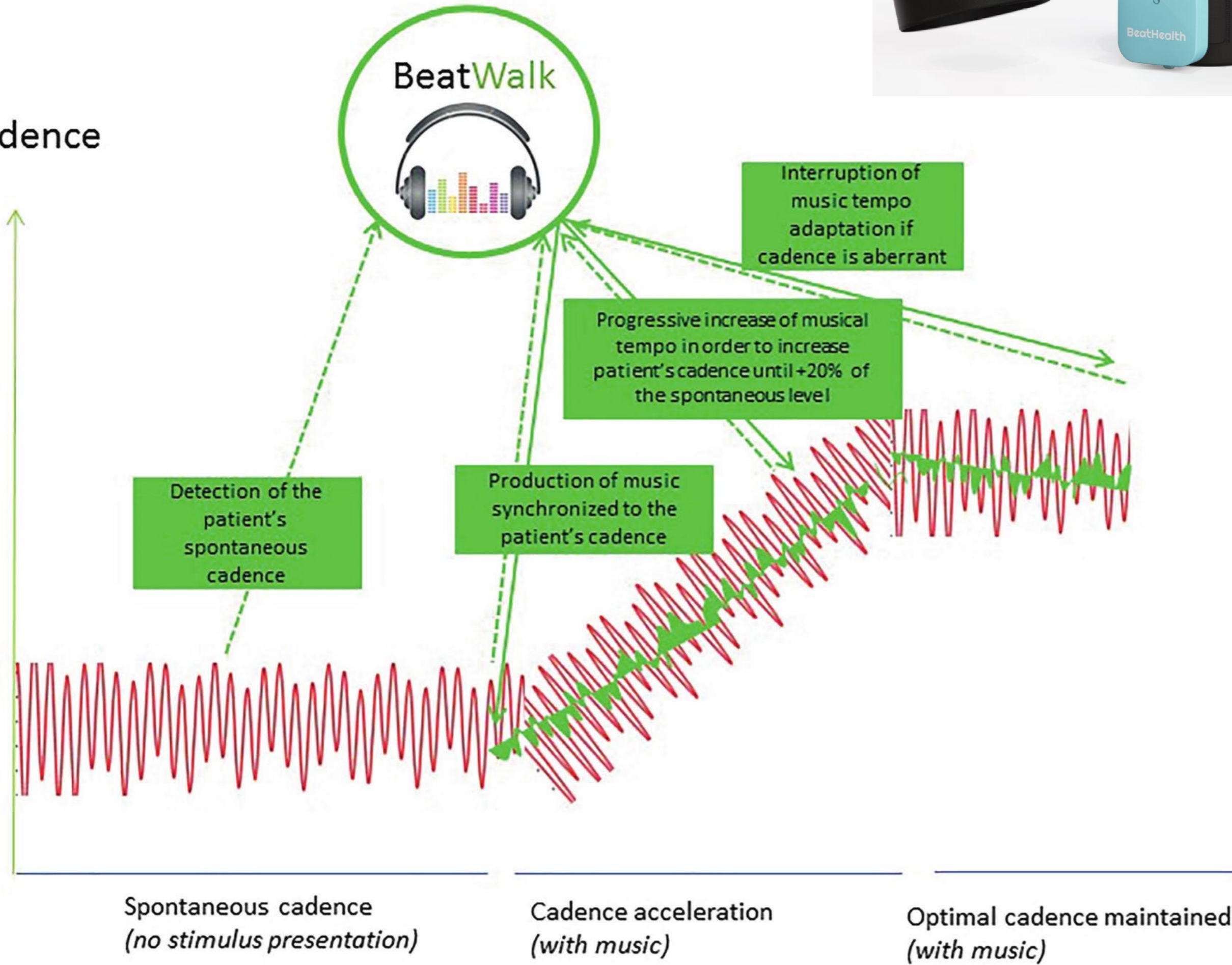
- **Powerful link between rhythm & movement:**
 - Universal, precocious, pleasurable, social connectedness
- **Natural entrainment to the musical beat**
 - A dedicated neuronal circuitry
 - Physical principles of synchronization
- **Impact**
 - Moving-in-sync with music: inexpensive medicine
 - Combat inactivity, accelerate rehabilitation (PD patients)
 - Re-entering the virtuous cycle of physical mental health
- **Our technological solution**
 - Smartphone + sensors + Music + Algorithm
 - Adapt online music tempo to walking cadence



The BeatHealth solution



Gait Cadence



90's testimony video



<https://www.youtube.com/watch?v=4H5wUbYEuOo>

History



- **2013-2016 : EU project (FP7-ICT-2013-10)**
 - Objective 5- *Personalised health, active ageing and independent living*
 - 5 partners: UM1/UM (France) – NUM/MU (Ireland) – UGENT (Belgium) - TECNALIA (Spain) – CHRU MPT (France)
 - Project cost: 3,8 M€ - UE contribution: 2,9 M€
 - Models of synchronization – First prototype - 10 experiments - Clinical trial phase 1 – Dissemination – Early exploitation
- **2017-2021 : Maturation phase with UM / SATT AxLR / Occitanie Region**
 - Business model, competitors, 1 international patent, IP with/from partners of EU project, hiring new task forces
 - Version 2 of the BeatHealth app: **BeatMove**
 - Large-scaled clinical trial phase 3 (N=400 PD patients, 16 centres) with Clinique Beau Soleil MPL
 - Laureate of several innovation competitions [Companies on Campus Univ. Montpellier, Time-To-Market Factory (TTMF, SATT AxLR, DeepTech funds from BPI France etc.]
- **Summer 2021 : Creation of BeatHealth SAS**
 - 7 Associates (Movement neuroscientists, Computer scientists, entrepreneurs), CEO: Guillaume TALLON
 - 10 persons in 2022
 - 5 digital solutions to test (**BAASTA**), improve (**RhythmWorkers**, **BeatWorkers**), and entrain (**ABeat**, **BeatMove**) our rhythmical abilities



We offer a personalized and economic music-based technology to combat inactivity, accelerate rehabilitation, and help re-entering the virtuous cycle of physical and mental health.

- Recent start (2022) of **science-based entrepreneurial adventure**, first sales
- Key ingredients :
 - BeatHealth scientists open to innovation activities
 - EuroMov at the crossover between science, tech development, innovation, & training
 - Societal impact from first clinical trial results a clear push
 - Decisive and operational role of SATT AxLR Tech Transfer
 - Facilitating role of UM (Concours scientifique, participation to BeatHealth activities)

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MUCHAS GRACIAS
FÒRÇA GRÀCIAS
MANY THANKS
GO RAIBH MAITH AGAT
HEEL ERG BEDANKT
MERCİ BEAUCOUP
NAGYON KÖSZÖNÖM
DANKE SCHÖN!**