

# **SMARTBEAR**

THE INTEGRATED TECHNOLOGICAL SOLUTION SUPPORTING MULTI-MORBID SENIOR CITIZENS



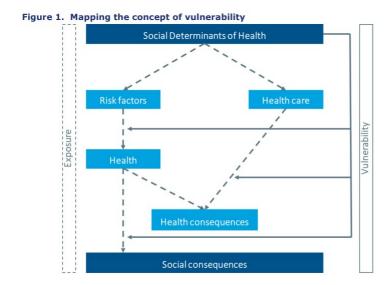
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### **Vulnerability and Ageing**

- A complex social phenomenon that both influences, and is influenced by, a range of processes and risk factors that can lead to or result from poor health:
  - Personal factors (e.g. biological, inborn or acquired)
  - External factors (e.g. the social determinants of health).
- The more personal resources (good mental and physical health, good coping skills, etc.) and the more environmental support a person has, the less likely that person is to be at risk of vulnerability (Rogers, 1997).

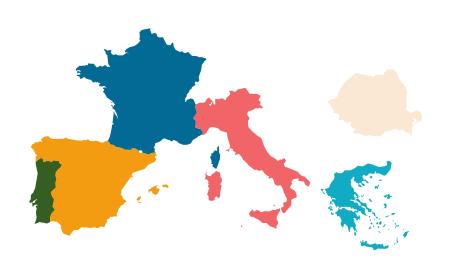


Source: Giuseppe Costa, 8th November 2017- vulnerABLE conference "Addressing the social determinants of health", [PowerPoint presentation]



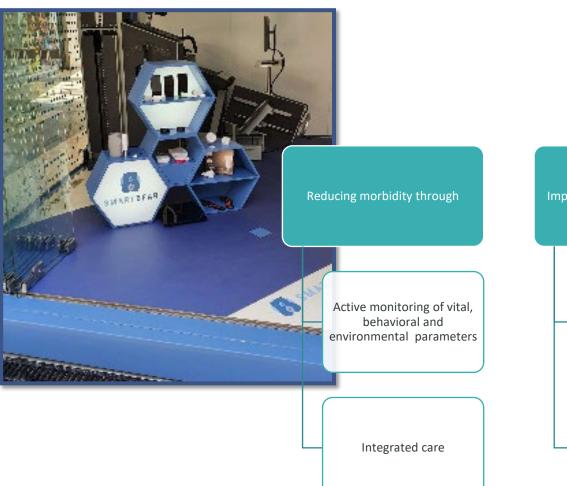
# **EU funded Big Data Research Project SMART BEAR**

- 5000 seniors > 67 years old
- With at least 2 of the following conditions:
  - CVDs
  - Hearing loss
  - Frailty
  - Mild cognitive disorders
  - Mild depression
  - Balance disorders
  - Low back pain
  - Covid-19
- Will receive at least 5 smart devices which will communicate and interoperate through SMART BEAR platform and App





# **SMART BEAR Objectives**



Improving quality of life through

Active prevention through proactive lifestyle and wellbeing activities

Support at home



# **SMART BEAR Methods summary**

## **All Pilots**



ANA facilities, Bucharest, Quirosnsalud's hospitals NKUA Facilities, candidates home Geriatric lab, University Hospital Ca' Granda in Milan and District of Crema











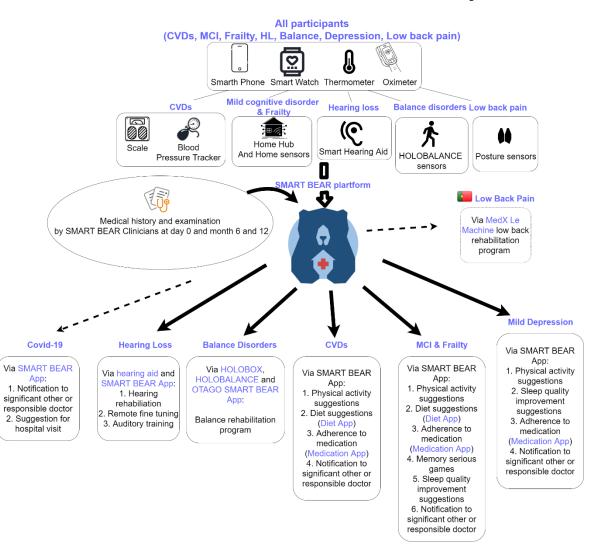
Online campaing GPs network Advertisement Open events Existing databases



Multi-disciplinary dedicated SMART BEAR team



#### **SMART BEAR Methods summary**







# **Synergies**

Smart Big Data Platform to Offer Evidence-based Personalised Support for Healthy and Independent Living at Home

Citizen-centred EU-EHR exchange for personalized health enabling users to collect, manage, share and donate their health-related data throughout the EU.

HOLOgrams for personalized virtual coaching and motivation in an ageing population with BALANCE disorders.

- Inclusion of 2 more conditions and rehabilitation programs
- Amplification of impact
- Economy of resources



#### **Pilot of Pilot Initiatives**

#### Objectives:

• Identification of the key points to scale the initiative up to the target, vulnerable, population (Figure 2).



Figure 2. Targets of SMART BEAR according to Intrinsic Capacity model (WHO, Healthy Ageing clinical consortium 2017). Patients over 67 years old with comorbidities (hearing loss, cardio vascular diseases, cognitive impairments, balance disorders and mental health + COVID19 impact.

- Demonstration of technical and clinical solutions and identify possible conflicts at the earliest possible.
- Preparation of the full scale project starting in 2022



#### PILOT OF PILOTS INITIATIVE







Innovatec sensing and communication





























**SUPPORT** 













