

# IHI Call Days | Call 9

## Supporting Integrated Care by design

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# Challenges and objectives

## 1. What problem(s) are you trying to solve

- Limited access to high quality healthcare
- Sustainability considering population increase vs clinical personnel decrease and limited funding
- Lack of prevention strategies (i.e. lifestyle-related diseases, mental health, etc.)

## 2. Which IHI specific objective(s) are you addressing?

- Specific Objective 3. Feasibility of people-centred, integrated healthcare solutions;

## 3. Which unmet public health need are you addressing?

- The high burden of the disease for patients and/or society
  - How to enhance active role of patients in own healthcare (prevention and treatments)
- The high economic impact of the disease;
  - How to reach sustainability through digital technologies (i.e. scalability and efficiency through stepped-care approaches)



# Integrated Strategies with Digital Tools for Patients Empowerment from Prevention to Treatment Management

- Integrated vs Fragmented Healthcare, Personalised vs “One size fits all”

- Personalised stepped-care involvement of patients according to needs in 3 integrated levels:

Step 1 - Prevention: Providing large scale Information and education on active disease prevention through technology targeting all population (i.e. lifestyle, mental health)

Step 2 - Management of low-medium risk of disease: Digital tools supporting people at risk (screening, early symptoms detection, self/guided-management)

Step 3 - Technology supported treatment: Medium-high risk patients partially delegated with some tasks through technology

- Levels 1 and 2 supported mostly by AI personalized virtual coaches (Evidence-Based approaches + mixed LLMs)
- Levels 2 and 3 managed/guided by clinical professionals supported with AI (Predictive models, data analytics tools)

# Why IHI?

- Need of conducting the proposed health innovation involving the whole value-chain in healthcare through Public-Private Partnerships:
- Pre-Competitive Solutions involving key stakeholders
  - Policy makers
  - Medical devices, certification actors
  - Pharma
  - ICT companies
  - Research Institutions
  - Clinical partners
  - Implementation research experts

# Outcomes and Impact

- Concrete models and tools contributing to policy and regulatory science
  - Introducing active involvement of patients in their own healthcare management
- Proof-of-concept on innovative person-centric healthcare delivery
  - Trough pre-competitive solutions demonstrating feasibility on stepped-care approaches to provide evidence for generalizations and scaling up
- Increase EU competitiveness through implementation research combining
  - Achievement of high-quality healthcare outcomes with more efficient allocation of resources in public-private integrated healthcare delivery
- Empowerment of patients
  - Through access to evidence-based knowledge and engaging tools for intervening in their prevention and treatment management paths

# Expertise and resources

- We have:
  - TrentinoSalute4.0: A regional ecosystem running since 2020 involving
    - the policy maker, (Province of Trento)
    - the healthcare trust (Azienda Provinciale per I Servizi Sanitari)
    - the AI and implementation research organization (Fondazione Bruno Kessler)
- We are looking for:
  - ICTs interested in digital therapies
  - Pharma interested in integrated DTx healthcare services “beyond the pill”
  - Domain clinical experts on prevention and treatment strategies
  - Experts on regulatory processes (legal, ethics, medical devices certifications)
  - Other regional ecosystems

# Thank You!

- Oscar Mayora – [omayora@fbk.eu](mailto:omayora@fbk.eu)  
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