Horizon Europe Framework Programme (HORIZON)

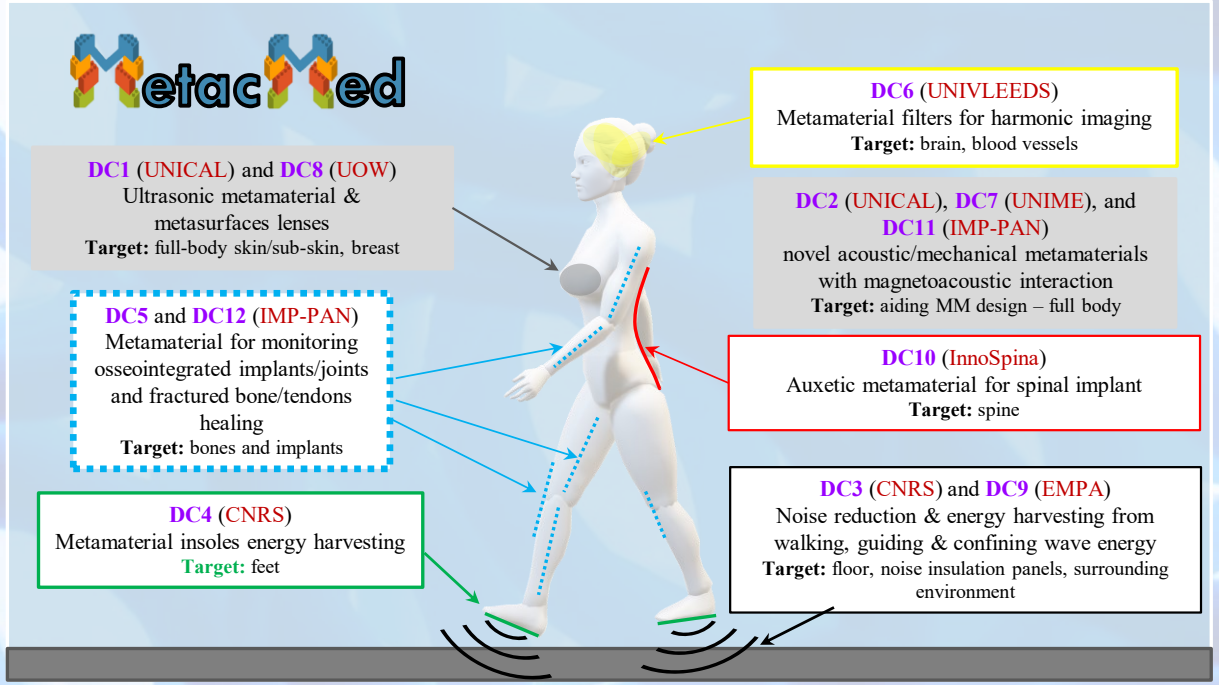
MetacMed

This project has received funding from the European Union's Horizon under grant agreement No: 101119738

Acoustic and mechanical metamaterials for biomedical and energy harvesting applications

MetacMed in a nutshell

- MetacMed aims to link basic research on acoustic and mechanical metamaterials (MMs) to health and well-being issues.
- The recruited 12 doctoral candidates (DC) will consider ways in which human health can be improved using MMs, e.g. improvement in the resolution of biomedical ultrasound imaging for e.g cancer diagnostics, the design of better spinal implants, monitoring of bone healing, the use of insoles to aid human walking.
- They will also develop MMs that can be used for energy harvesting, to better power e.g. medical devices and reduce reliance on conventional power sources
- A strong set of training events, where the basic features of acoustic and mechanical MMs and their applications will take place, together with soft-skills training such as writing, presenting, entrepreneurship, gender balance issues, stress management
- Regular meetings of the DC at various member locations will foster collaboration, and this will be reinforced by a carefully-selected set of secondments. A proper management system for both running the network
- Possible Patenting of some devices is considered carefully



Call: **HORIZON-MSCA-2022-DN-01**
Type of Action: HORIZON-TMA-MSCA-DN
Acronym: MetacMed
Duration: 48 months
Start Date: 1st of March 2024
Estimated Project Costs: € 3,237,000 (EU+UKRI+SERI)
Requested EU Contribution: € 2,020,236
Contact: Dr. Stefano Laureti
stefano.laureti@unical.it

Beneficiaries

Università della Calabria
cnrs
Università degli Studi di Messina
IMP PAN Gdańsk

Partners

University of Leeds
InnoSpina innovative spinal care
Politecnico di Bari
The University of Warwick
EPFL
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