

PROJETOS DE I&DT EMPRESAS EM COPROMOÇÃO**SmartOs**

Smart, Stand-alone Active Orthotic System

Project Name: SmartOs

Project Code: POCI-01-0247-FEDER-039868

Main Objective: To strengthen research, technological development and innovation

Region of Intervention: North, Centre

Beneficiaries:

Coordinator: ORTHOS XXI, Unipessoal LDA;

Partners: CCAB - Centro Clínico Académico Braga, Associação;

Universidade do Minho;

Universidade do Porto;

TecniCunha – Electricidade e Electrónica, LDA;

PLUX – Wireless Biosignals, S.A.

Approval Date: 26-02-2019

Start Date: 01-08-2019

End Date: 31-07-2022

Total Budget: 1 020 991,54 €

EU Financial Support: FEDER – 751 771,67€

CCAB Budget: 81.506,27 €

Project Description:

The SmartOs (Smart, Stand-alone Active Orthotic System) project proposes an innovative assist-as-need solution for the assisted walking training of disabled users. SmartOs includes an active and intelligent lower limb orthotics synergistically connected to a patient's needs-tailored, portable rehabilitation laboratory for customized rehabilitation. This orthotic system will act as an adjunctive intervention in the treatment of spastic gait following botulinum toxin therapy.

Thus, SmartOs is a tool that can be useful not only in the field of functional rehabilitation of the user, but can also contribute to the diagnosis of its motor state.

This consortium project is led by ORTHOS, in collaboration with partners CCAB, Universidade do Minho, Universidade do Porto, TecniCunha and Plux.