SERENYOXY - DEVELOPMENT OF PERSONALIZED ORONASAL MASKS WITH MOBILE DEVICE FEATU-RE FOR FACIAL SCANNING.

PROJECT TOTAL DURATION

36 MONTHS (01-01-2025 – 31-12-2027)

PROJECT TOTAL GRANT

€ 1.975.475, 36

ESENFC PROJECT GRANT

€ 350.526,88

FUNDING PROGRAMME: COMPETE 2030



PRIORITY RESEARCH TOPIC

INNOVATION IN NURSING CARE TECHNOLOGY

PROJECT OBJECTIVE

THE AIM IS TO DEVELOP ORONASAL CPAP/NIV MASKS ADAPTED TO EACH PATIENT'S FACIAL ANATOMY, WITH THE INTENTION OF INCREASING THEIR COMFORT, TREATMENT EFFECTIVENESS AND USEFUL LIFE. THE PART IN CONTACT WITH THE FACE WILL BE CUSTOMIZED AND MADE FROM A FLEXIBLE MATERIAL BY ADDITIVE MANUFACTURING, WHILE THE OTHER PART WILL BE MASS-PRODUCED BY INJECTION. AN INTUITIVE APPLICATION WILL BE DEVELOPED, WHICH WILL ALLOW THE PATIENT TO SCAN THEIR FACE, IN ADDITION TO MAKING IT POSSIBLE TO PLACE ORDERS AND MONITOR PRODUCTION STAGES IN REAL TIME.

APPLICANT ORGANIZATION

NM3D IBÉRICA - SISTEMAS DE METROLOGIA INDUSTRIAL, LDA

PARTICIPATING ORGANIZATIONS

• PIEP ASSOCIAÇÃO - POLO DE INOVAÇÃO EM ENGENHARIA DE POLÍMEROS







- THE HEALTH SCIENCES RESEARCH UNIT: NURSING (UICISA: E), NURSING SCHOOL OF COIMBRA (ESENFC), PORTUGAL (RESEARCHERS: HUGO NEVES, PEDRO PARREIRA, LILIANA SOUSA, FILIPA VENTURA)
- PLASTAR INJECÇÃO E PINTURA DE PLÁSTICO, LDA.
- ENSOORIGINS, LDA





