ALLEGATO 2

DESCRIZIONE DELLE TEMATICHE DEL BANDO

TEMATICA
TEMATICA A - Design and development of innovative systems for nucleic acids detection biosensor
TEMATICA B - Design and development of innovative systems to enable people with disabilities to enjoy facilities in archaeological areas

TEMATICA A: Design and development of innovative systems for nucleic acids detection biosensor

- Ambito di Intervento: HEALTH

- Titolo dell'attività: Development of an Advanced System for Operating Biochip Devices for the Efficient Detection and Quantification of Nucleic Acids from Organoids, Liquid Biopsies, and Other Biological Samples.

- Obiettivi: Development of a comprehensive advanced system (hardware and software) designed to drive biochip devices for sample preparation and nucleic acid detection, with a specific focus on RNA detection and quantification from organoids, liquid biopsies, tissue specimens, and serum samples. The system should integrate multiple technological modules, including electronic boards, microfluidic actuation, firmware, data analysis software, and a user-friendly Graphical User Interface (GUI)

TEMATICA B: Design and development of innovative systems to enable people with disabilities to enjoy facilities in archaeological areas

-Ambito di Intervento: CULTURAL HERITAGE

-Titolo dell'attività Development of innovative technical solutions aimed at the fruition of archaeological sites and artefacts by people with disabilities.

- **Obiettivi:** Development of a complete system (hardware and software) that will enable people with disabilities to improve their experience of accessing and understanding the archaeological site of Tyndaris, focusing on the area of the Greek Theatre. The proposed solution will need to allow users to appreciate, based on their specific disabilities, the main features of the monument, such as technical qualities, materials, current and original configurations (including 3D digital reconstructions), as well as acoustic, scenic, and proportional properties.