STRENGTHENING OF THE ITALIAN RI FOR METROLOGY AND OPEN ACCESS DATA IN SUPPORT TO THE AGRIFOOD

Panel di riferimento: *H&F*

Titolo della Proposta: **Strengthening of the Italian RI for Metrology and Open Access Data in support to the Agrifood**

Codice della proposta: *IR0000033*

Tipologia: **(i) - Empowering**

Proponente:*ENEA*

Infrastruttura di Ricerca: **METROFOOD-RI - Infrastructure for Promoting Metrology in Food and Nutrition**

Importo totale: *17.790.000,00€*

Di cui al Sud: **7.405.619,79€ (41,63%)**

Abstract:

METROFOOD-IT aims at strengthening the Italian research infrastructure for metrology and open access data in support to the agrifood, in relation to the ESFRI METROFOOD-RI for the domain Health and Food. The project focuses on the RI's electronic component and its integration with the physical one, to provide services in support to the digitalization of the agrifood system for food quality & safety, traceability, food transparency, sustainability and resilience of agrifood systems, and circular economy. The RI provides advanced services addressed to different categories of users and access to various physical facilities (laboratories and plants) and e-resources (e.g., Apps, software, models). METROFOOD-IT will be characterised by the application of ICT solutions with an integrated supply chain approach.

Smart and remote sensing systems, IoT, blockchain, and Artificial Intelligence will be integrated, providing App-based solutions and services for data analysis, use, visualization and sharing with a FAIR approach. An open science-based approach will be followed, sharing and "making open" data and access to resources. Open communication with the various stakeholders on objectives, results, outcomes, and impacts will allow for the promotion of a direct and motivated involvement, through the application of a multi-actor approach. Main project activities include the RI technical implementation, with the set-up of data and quality management, the definition of the service chart and the organisation and implementation of the transnational and virtual access. A strong community building and training and education program will be implemented to facilitate multi- and transdisciplinary research with all relevant actors. Links will be established with other relevant RIs, as well as synergies with other NRRP

initiatives. The management and organisational scheme of the RI will be setup, the business plan developed, and strategies defined to ensure long-term sustainability.

Elenco partecipanti alla Proposta:

• Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile
• Istituto Nazionale di Ricerca Metrologica
• Università degli Studi Aldo Moro - Bari
• Università degli Studi del Molise - Campobasso
• Università degli studi di Napoli Federico II
• Università degli Studi di Parma
• Università degli Studi di Siena
• Università degli Studi La Sapienza - Roma