

MISSIONE 4  
ISTRUZIONE  
RICERCA

# PATHOGEN READINESS PLATFORM FOR CERIC ERIC UPGRADE



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**Italiadomani**  
PIANO NAZIONALE  
DI RIPRESA E RESILIENZA

Panel di riferimento: **PSE**

Titolo della Proposta: **Pathogen Readiness Platform for CERIC ERIC Upgrade**

Codice della proposta: **IR0000028**

Tipologia: **(i) - Empowering**

Proponente: **AREA**

Infrastruttura di Ricerca: **CERIC-ERIC - Central European Research Infrastructure Consortium**

Importo totale: **40.990.516,69€**

Di cui al Sud: **18.093.599,47€ (44,14%)**

*Abstract:*

The aim of the “Pathogen Readiness Platform for CERIC-ERIC Upgrade” (PRP@CERIC) is the upgrade of CERIC-ERIC Research Infrastructure with the integration of a digital facility for the study of pathogens, providing academic and industrial users with the instruments to tackle emerging human, animal and vegetal pathogens of health, security and economic concern, to enhance preparedness and response strategies against future outbreaks in compliance with the DNSH principle for environmental sustainability. The goal will be achieved by integrating laboratories in support of users and state-of-the-art complementary analytical facilities with biophysical methodologies. This approach will foster scientific advances in both fundamental and applied research in life science-infectious diseases, through the development of dedicated strategies for infectious sample handling and manipulation. The PRP@CERIC will build on established platforms at the intersection of biology, biochemistry, chemistry, structural biology, physics, bio-electronics, computational science and information technology to assemble a unique interdisciplinary network of knowledge, methodologies and instruments capable of exploring the boundaries of pathogens’ research in the fields of diagnostics, pathogenesis, drug-discovery, safety & environment. PRP@CERIC is conceived as a digital ecosystem built on the FAIR guiding principles for scientific data management and stewardship to further strengthen the state-of-the-art analytical and computational offer which makes PRP@CERIC appealing not only to the scientific community but also to the industrial world, thus enabling a sustainable pathway for technology transfer as a guarantee for long-term sustainability of the initiative. Sustainability is also the target of PRP@CERIC educational model, that proposes a master course for graduated students, aimed at training next EU generation of RI users and scientists.

**Elenco partecipanti alla Proposta:**

- Area Science Park - Trieste
- Consiglio Nazionale delle Ricerche
- Università degli Studi del Salento
- Università degli studi di Napoli Federico II
- Università degli Studi di Salerno