

PROVA 1

PHIRI is the roll-out of the research infrastructure on population health information that aims to facilitate and generate the best available evidence for research on health and well-being of populations as impacted by COVID-19. PHIRI allows for better coordinated European efforts across national and European stakeholders to generate the best COVID-19 population health knowledge. In doing so, PHIRI is laying the foundation to build a Research Infrastructure on Population Health to be used to overcome future crisis and ensure the sustainability of the project. The intent is to support research across Europe through the identification, access, assessment and reuse of population health and non-health data to underpin public health policy decisions. This is achieved through a close collaboration with 41 partners across 30 countries over a period of 36 months (November 2020 - November 2023).

PROVA 2

EUNPACK has been designed and developed to critically examine whether EU external crisis response is sensitive to the political and social context on the ground. In order to achieve this the project takes a holistic approach that covers the whole crisis cycle, the full EU toolbox, and the EU's ability to respond to crises in different types of regions (e.g. Enlargement Area, ENP Area and Extended neighbourhood). This allows us to provide analyses of the EU's comprehensive approach - the method of choice in external action - and how it is implemented in the field; to undertake a comparative analysis of the Union's approach to crisis in different regional contexts; and thereby identify lessons learnt to suggest how EU crisis management institutions and policies can be improved.

PROVA 3

FUTURA (Focused Ultrasound Therapy Using Robotic Approaches) aims at creating an innovative multi-robotic platform for non-invasive interventions. The project addresses all specific issues necessary for a concrete and effective transfer of robotic technologies into operating rooms. The robotic platform is expected to operate in an unstructured and extremely critical environment; perception capabilities and understanding will be augmented by merging external sensors and internal control strategies. FUTURA will address explicitly robot co-operation and collaboration, and robot interaction both with medical doctors and patients. Focused Ultrasound Surgery (FUS) is the ideal benchmark for FUTURA. While its medical effectiveness has been already demonstrated, limitations in accuracy, precision, repeatability and a strong reliance on medical skills hamper its spread diffusion into routine clinical applications

PROVA 4

Climate is changing fast, with losses and damages experienced in every region and every sector. However the awareness of this fact remains limited. Of particular relevance is how climate change modifies and enhances extreme weather events. During the last 5-10 years, a large number of extreme weather and climate events have occurred, causing damage to infrastructure and casualties. This has raised the question about the role of climate change in altering the odds or the magnitude of a number of such events. XAIDA, a EU-funded project started in September 2021, brings together the interdisciplinary expertise of a research consortium of 16 universities and research organizations. Our consortium unites experts in machine learning, statistics and climate modeling.