

#citizensREINFORCEscience



**REINFORCE**  
REsearch INfrastructures FOR Citizens in Europe



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# FILL THE GAP WITH SCIENCE

Citizens are exposed to ongoing scientific and technological breakthroughs through media and yet, the knowledge and skills needed to be able to comprehend the science behind these discoveries are far beyond an untrained individual's grasp. Large Research Infrastructures can act as beacons of science literacy for society. With REINFORCE they will engage citizens to actively contribute in science through four Citizen Science projects.

## GOALS



Citizens engagement to contribute to online frontier science



Creation of an active community of citizens who actively participate in scientific endeavors



Introduction of Responsible R&I in frontier Citizen Science



Impact assessment of frontier citizen science in science and society

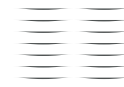


Creation of a policy roadmap for other large RI willing to implement citizen science



Explore the potential of frontier citizen science for inclusion and diversity

# FOUR CITIZEN SCIENCE PROJECTS



Deep Sea Hunter

Citizens will exploit the KM3NeT Neutrino detector in order to support scientists to increase the efficiency in their neutrino detection algorithms. At the same time it will help to gain a greater insight of the unexplored deep marine environment.



Gravitational Wave noise hunting

Citizens will look at chunks of data and identify the presence of noise that limits the sensitivity of Gravitational Wave detectors. This outcome will help training Machine Learning algorithms that will automatically recognize and isolate noise in Gravitational Wave data.



Geoscience & Archaeology

Citizens will use the Atmospheric Muons' potential to probe structures and provide insight in a series of issues ranging from volcano live monitoring to applications in archaeology or use for non-invasive and non-destructive control processes in the industry.



Search for New Particles

Citizens will be engaged in the search for New Particles at the Large Hadron Collider of CERN for the discovery of the ultimate structure of matter and particle theories beyond the Standard Model.

COORDINATOR

