

# DEVELOPMENT OF RESEARCH INFRASTRUCTURE (RI) FOR THE INTERNATIONAL COMPETITIVENESS OF THE DEVELOPMENT OF SLOVENIAN RI SPACE – RI-SI-EPOS and RI-SI-LifeWatch

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RI-SI-EPOS (<https://www.zrc-sazu.si/en/programi-in-projekti/ri-si-epos>), RI-SI-LifeWatch (<https://www.zrc-sazu.si/en/strani/new-research-equipment-ri-si-lifewatch>)

ZRC SAZU (Karst Research Institute) is leading organization for two research infrastructure (RI) projects RI-SI-EPOS and RI-SI-LifeWatch.

## RI-SI-EPOS



## RI-SI-LifeWatch



**EPOS ERIC** (European Plate Observing system) is pan-European RI project in the field of geosciences. It combines national Earth science facilities, the associated data and models together with the scientific expertise into one integrated delivery system for the solid Earth.

RI-SI-EPOS officially started in 2019 and unites four national partner institutions: ZRC SAZU, University of Ljubljana (Faculty of Civil and Geodetic Engineering), Geological Survey of Slovenia and Institute "Jožef Stefan".

Within RI-SI-EPOS partners were purchasing scientific equipment and providing technical support for its maintenance and data provision. ZRC SAZU is broadening scientific equipment to be used for specific karst research (micro-deformation monitoring in karst caves, cave meteorology monitoring, 3D laser scanning of caves and karst surface, seismology in caves, gravimetric monitoring on karst).

**LifeWatch ERIC** is an essential distributed infrastructure for research and management of biodiversity across Europe. It will provide computational resources integrated in an e-infrastructure that will enable its user groups to create virtual laboratories where data and analytical modelling tools could be shared.

Within RI-SI-LifeWatch project, five partners (ZRC SAZU, University of Ljubljana, University of Maribor, National Institute of Biology, Slovenian Forestry Institute) out of nine within the LifeWatch-SI national consortium are participating to strengthen the infrastructure by acquiring scientific equipment for the national node and to provide expertise.

Scientific infrastructure will contribute to the interoperability among different European partners within LifeWatch ERIC, in full correspondence with its objectives and activities. It will enable to address scientific issues of societal relevance in regard to tackling biodiversity loss and the resulting negative effects of global changes on biodiversity and ecosystem services.



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