LifeWatch ERIC

The e-Science European Infrastructure for Biodiversity and Ecosystem Research

LifeWatch ERIC's Contribution to the SDGs

LifeWatch ERIC contributes to the UN sustainable development goals (SDGs) by making bespoke **ICT tools and services** available to **biodiversity and ecosystem scientists** to facilitate their research, which equips policymakers and civil society with the information required to address key planetary challenges.

LifeWatch ERIC's **technological expertise**, guided by its engagement and exchange with the ecology research community, leads to **breakthroughs** in understanding the global factors responsible for the ongoing loss of biological diversity and ecosystem functioning: information which can help us accomplish the SDGs. Two examples are presented below:

14 LIFE BELOW WATER | 15 LIFE ON LAND	14 LIFE BELOW WATER | 15 LIFE ON LAND
Non-indigenous and Invasive Species have devastating impacts on ecosystems. LifeWatch ERIC has built several VREs using its main technological components, **Tesseract**, **LifeBlock** and **Ecoportal**, integrating vast amounts of NIS data from multiple sources to be studied as a whole; revealing patterns, processes and consequences across unprecedented spatial and temporal scales.	Despite the importance of understanding ecosystem services in order to unlock their associated societal benefits, a wealth of knowledge remains tucked away. LifeWatch ERIC's efforts in fostering **Open Science**, like its BlockChain application, **LifeBlock**, seek to liberate this knowledge while ensuring data rights, empowering society in combating the ecological crisis.
Mapping NIS to understand complex interactions between species, the environment and society	**Fostering Open Science to accelerate and democratise knowledge acquisition**