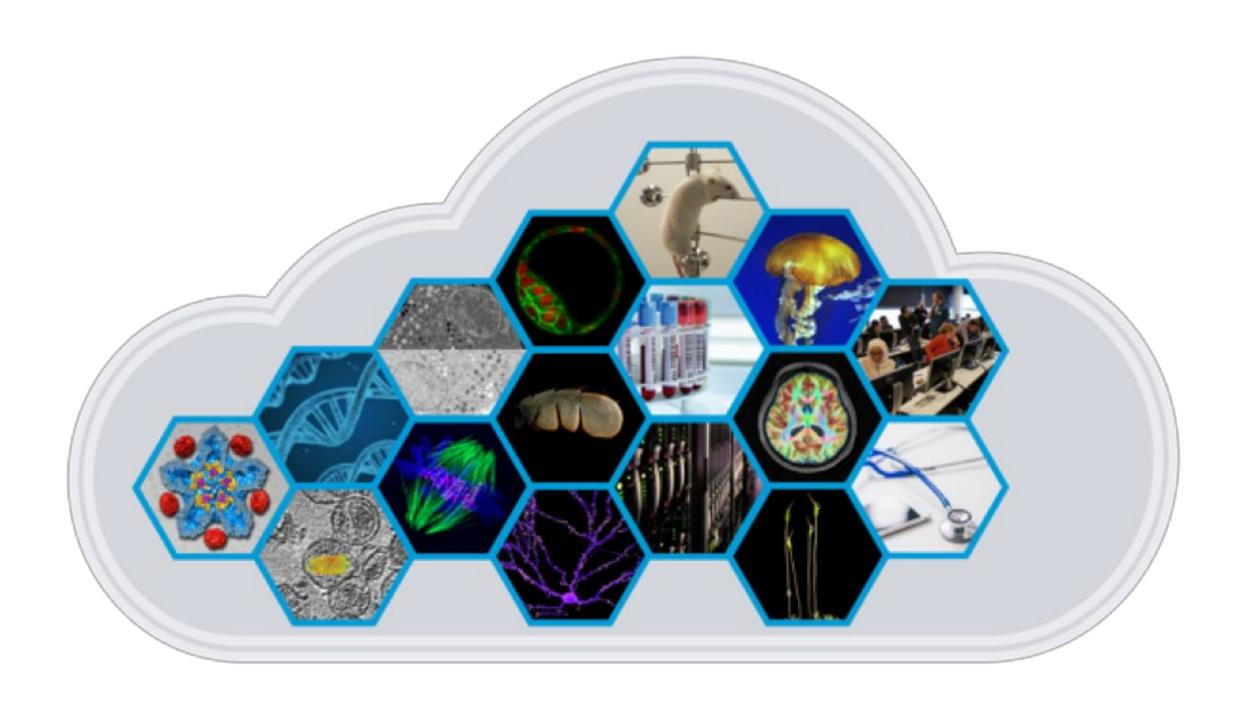
EOSC-Life

Creating EOSC for the life sciences



Interconnecting Health & Food Research Infrastructures through EOSC-Life

Modern biological and biomedical research involves complex projects and a variety of different technologies.

Some of the most important discoveries are made at the interface between different life science disciplines.

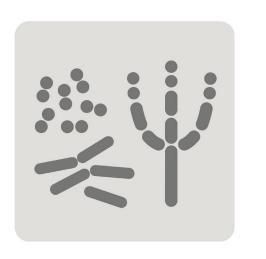
A digital model of biological systems on earth is now possible by breakthroughs in the technologies that study life at all its different scales

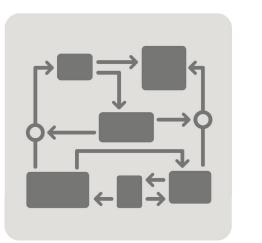


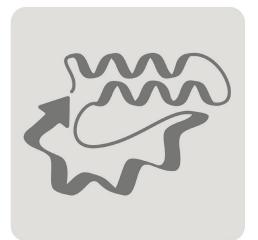


An open, collaborative space for digital biology

- Establish EOSC-Life by publishing FAIR life science data resources in EOSC
- Create an ecosystem of innovative lifescience tools in EOSC
- Enable ground-breaking data driven research in Europe by connecting life scientists to interoperable European clouds via open calls for participation



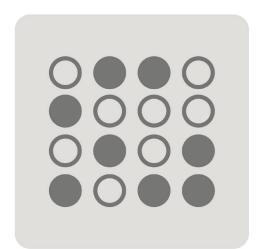




























EOSC-Life Consortium

 13 ESFRI Health and Food Research Infrastructures



biobanks



curated databases



marine model organisms



systems biology



centres

48 Partners and 18 linked 3rd parties



 Sourcing e-Infrastructure services from EOSC (Cloud, AAI,...)

4 year Project, 23M€



ECRIN

translational research

clinical trials



mouse disease models



structural biology



 screening & medicinal chemistry



 biological/medical imaging



microorganisms



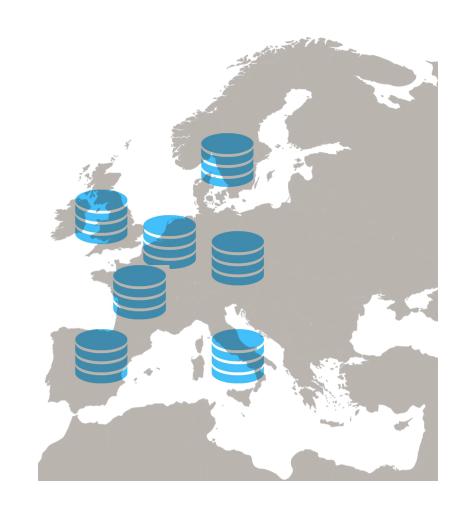
Highly Pathogenic Agents





Establish EOSC-Life by publishing data and tools for cloud use

- Health and Food RI are distributed with many hundred partner facilities across Europe
- Health and Food RI have large community of tools developers across Europe







Publish FAIR life science data in EOSC



Ecosystem of innovative tools in EOSC



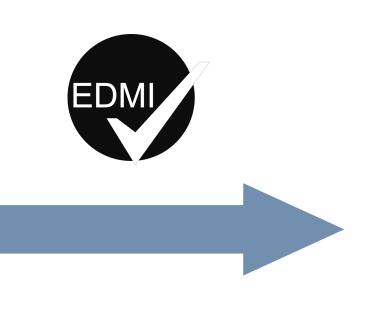


Creating EOSC for the life sciences

- EOSCpilot: EDMI standard for harvesting distributed, FAIR, data and tools
- EOSC-Life: Populate the life-science registries that will feed the EOSC catalogues

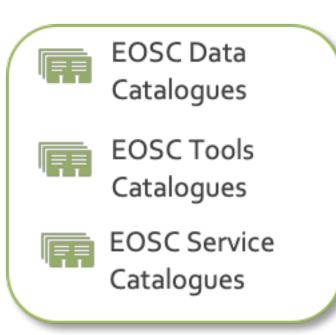


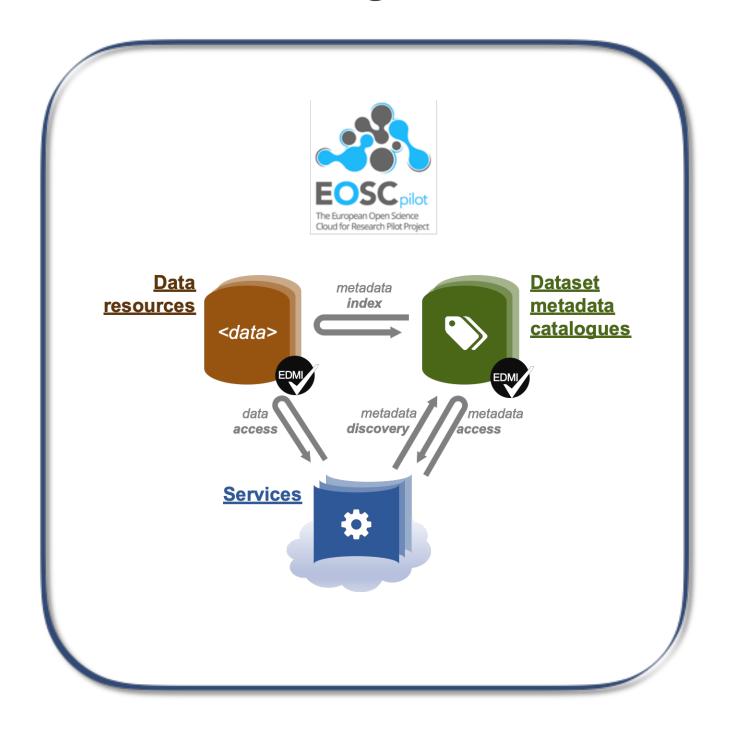
RI data (distributed over facilities)
Tagged with Bioschemas/EDMI (at source)



Publish FAIR life science data in EOSC











Enable ground-breaking data driven research in Europe by connecting life scientists to EOSC









Candiani performing r

model system amphioxus r

RI Users access advanced facilities, samples and services





Data Reuse Cycle



RI data experts support data reuse via user access to:

- FAIR data
- FAIR tools
- Supporting services

Supported by:

- Common Data Policies
- Common FAIR services
- Common User access
- Common Quality management and Innovation





EOSC-Life

Creating EOSC for the life sciences

