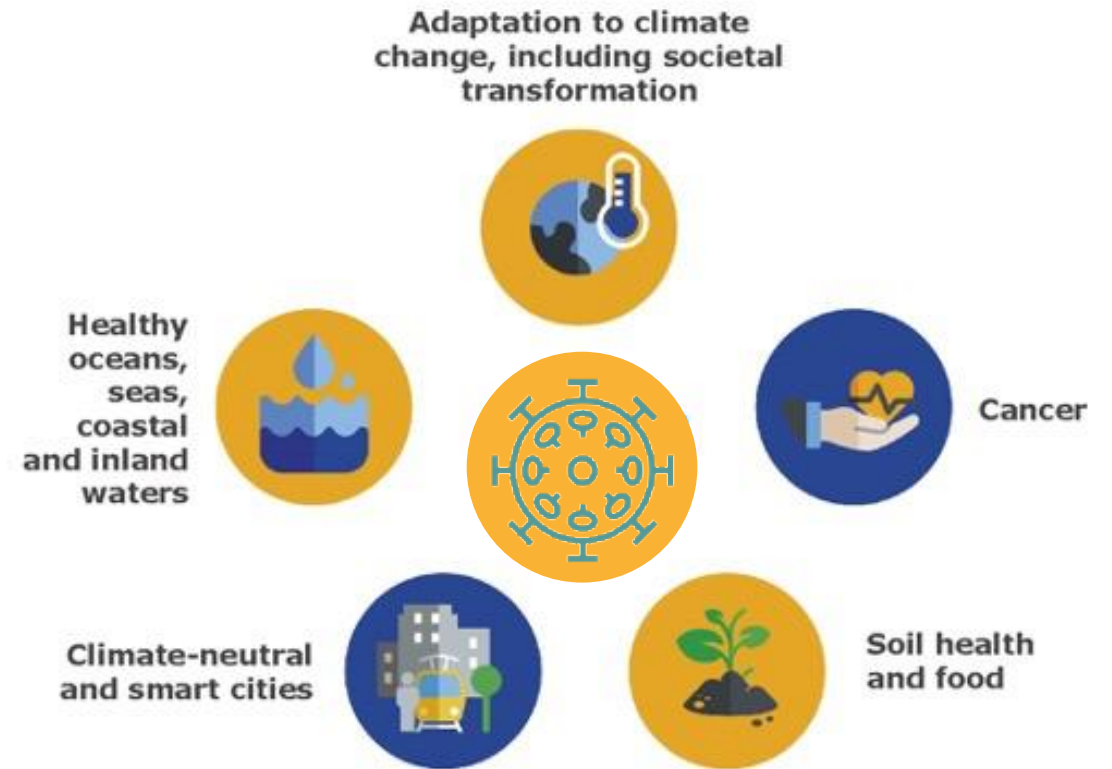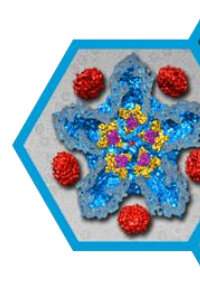# Creating EOSC for the Life Sciences

EOSC Symposium, Prague, Nov 2022
Niklas Blomberg, Project Coordinator

Life science data is rich and diverse

Connecting digital life science data will allow us to address major challenges facing humanity

EOSC-Life provides solutions so that life scientists can make use of data, tools and workflows in the cloud

Adaptation to climate change, including societal transformation

Healthy oceans, seas, coastal and inland waters

Cancer

Climate-neutral and smart cities
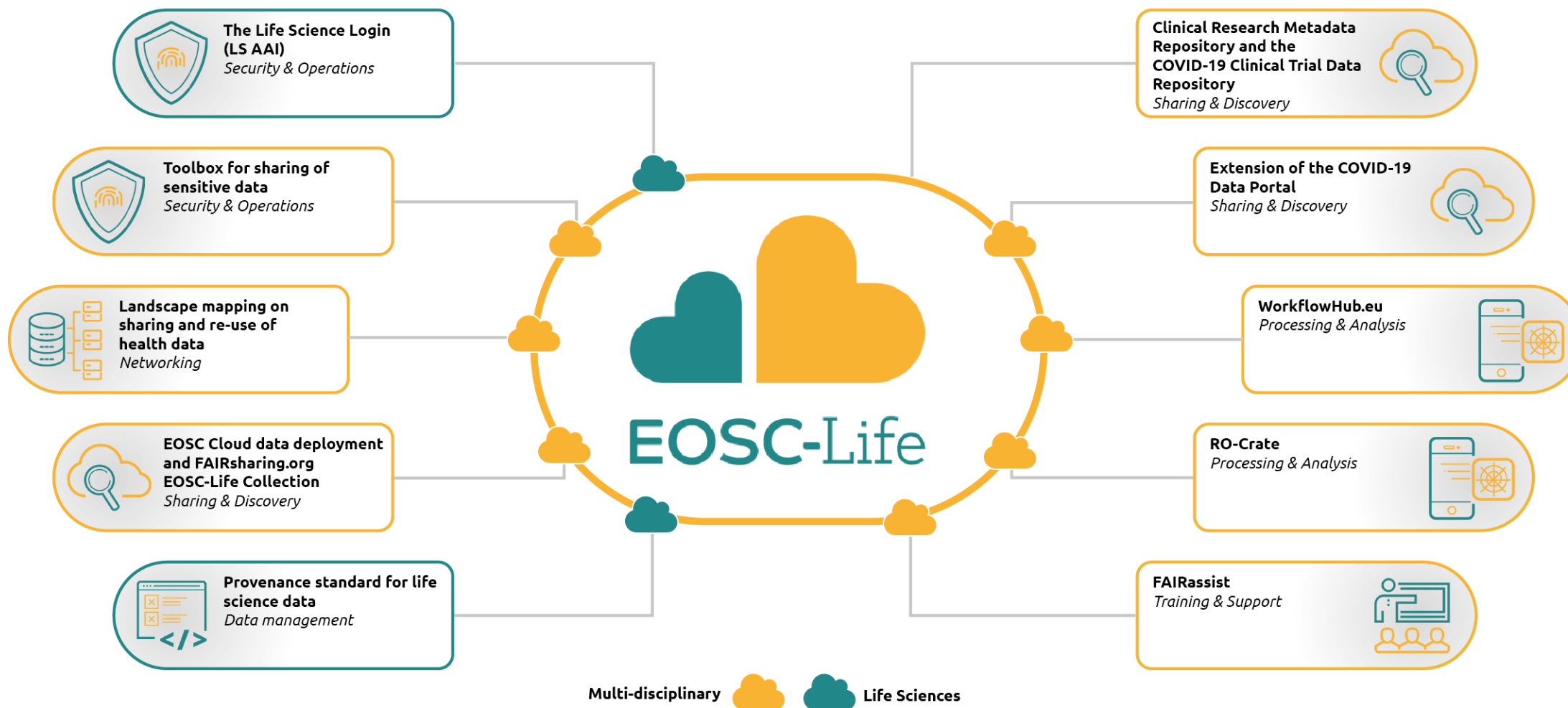
Soil health and food

EOSC-Life prepares European life science for a new way of working

- *People: skills, new capabilities and networks*
- *Experience and processes for consolidated RI service delivery*
- *Life science data resources, workflows, registries and other services*
- *Training materials, policies, guidelines (FAIR, Sensitive data)*

Input   Technical Work Packages   Outcome

WP3 USER PROJECTS

WP13 COVID DATA *PORTAL*

WP14 COVID TRIAL *REPOSITORY*

COVID-19 DATA / COVID-19 DATA / COVID-19 DATA

WP1 DATA

WP4 SENSITIVE DATA

WP2 TOOLS & WORKFLOWS

WP7 CLOUD STORAGE

REGISTRIES

WP8 INTERNATIONAL COMMUNITY

WP10 OUTREACH

WP5 ACCESS

WP6 PROVENANCE

WP9 TRAINING

WP11 PROJECT MANAGEMENT

WP12 ETHICS

ACCESS   PROVENANCE

Exploitable results – EOSC Life

The Life Science Login (LS AAI)
Security & Operations

Toolbox for sharing of sensitive data
Security & Operations

Landscape mapping on sharing and re-use of health data
Networking

EOSC Cloud data deployment and FAIRsharing.org EOSC-Life Collection
Sharing & Discovery

Provenance standard for life science data
Data management

Clinical Research Metadata Repository and the COVID-19 Clinical Trial Data Repository
Sharing & Discovery

Extension of the COVID-19 Data Portal
Sharing & Discovery

WorkflowHub.eu
Processing & Analysis

RO-Crate
Processing & Analysis

FAIRassist
Training & Support

EOSC-Life

Multi-disciplinary   Life Sciences

The toolbox demonstrator (BETA) with pilot content

TSDO
BETA (v.0.1.2), in development

| Title ⌄ | consent | | 🔍 |

Results: 1 – 1 of 1.

Clear all filters

Personal data   Guidelines, recommendations and policies

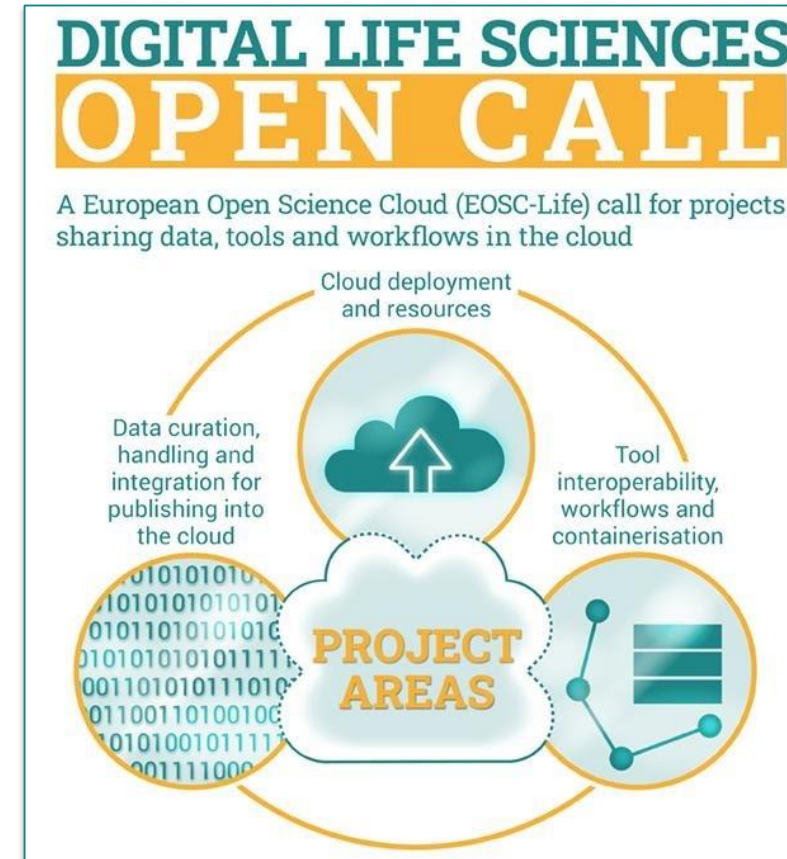### Informed Consent Matrix for Clinical Trials

Authors: Cinzia Colombo; Paola Mosconi; Michaela Mayrhofer; Christine Kubiak; Serena Battaglia; Mihaela Matei; Marialuisa Lavitrano; Sara Casati; Victoria Chico; Irene Schlünder; Jan-Willem Boiten; Lygature Tamara Carapina; Oskar Uzun; Stephanie Suhr

This matrix aims to provide a minimum set of requirements for informed consent aimed at adults in the context of clinical trials. This Guide should be ...[Show more]

EOSC-Life Web site   Project description   Disclaimer   Contact us

2022 © EOSC-Life

https://tsdo.ecrin-rms.org/

- **EOSC-Life** has run 3 open calls for partnerships

- **EOSC-Life** supporting 27 projects where external users contribute and access expertise, data, tools, workflows and cloud resources

- **EOSC-Life** has refocused activities in response to the ERAvsCORONA action plan:
  - support open science research with workflows, training, cloud access
  - European COVID-19 Data Platform
  - repository for COVID-19 Clinical Trial Data.

DIGITAL LIFE SCIENCES OPEN CALL

A European Open Science Cloud (EOSC-Life) call for projects sharing data, tools and workflows in the cloud

Cloud deployment and resources

Data curation, handling and integration for publishing into the cloud

Tool interoperability, workflows and containerisation

PROJECT AREAS

https://www.eosc-life.eu/achievements/

Users

Integrating EU-RI datasets for preclinical and discovery research bioimaging

Digital Life Sciences Open Call Funded Projects

A workflow for marine Genomic Observatories data analysis

Digital Life Sciences Open Call Funded Projects

eosc-life.eu/opencall

PDB-REDO-cloud: A flexible and scalable engine for computational structural biology

Digital Life Sciences Open Call Funded Projects

eosc-life.eu/opencall

Increasing the FAIRness of Phytolith Data

Digital Life Sciences Open Call Funded Projects

eosc-life.eu/opencall

Project lead: Emma Karoune, Historic England

https://open-phytoliths.github.io/FAIR-phytoliths/

Accessible and scalable detection and identification of foodborne pathogens

Digital Life Sciences Internal Call Funded Projects

eosc-life.eu/industrycall

Accessible and scalable detection and identification of foodborne pathogens

Team lead: Bérénice Batut, University of Freiburg

Industry partner: Biolytix AG

Project team: Ralf Seyfarth, Anna Henger, Engy Nasr

https://www.eosc-life.eu/calls/

BY-COVID

https://www.covid19dataportal.org/

National Health Data Infrastructures

Hospitals

Consortia

Universities

Medical Centres

Research Centres

Public Health Laboratories

Mobilise   Connect   Standardise   Expose & analyse

COVID-19 Data Portal

FAIRsharing.org — standards, databases, policies
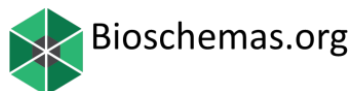
Bioschemas.org

RO-Crate

WorkflowHub

LS LOGIN

Galaxy Europe

Enabling Open Science