openRDM.swiss : a national research data management service for the Swiss scientific community
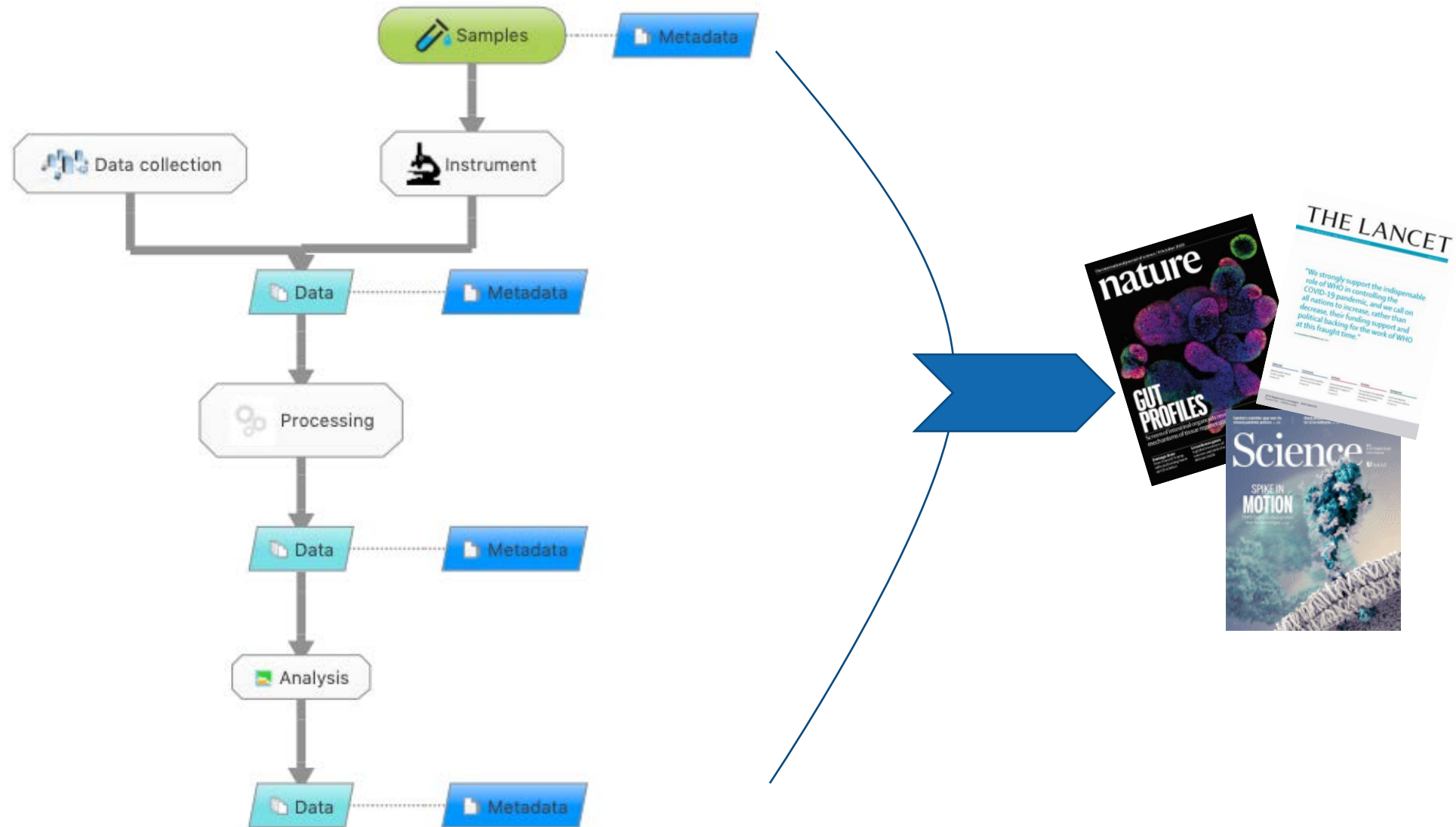
Caterina Barillari
Scientific IT Services, ETH Zurich

Overview

❑ Research Data Management with openBIS

❑ openRDM.swiss Research Data Management Service

❑ Demo

Research workflow in experimental & computational labs

FAIR Data Management

❑ Funding agencies and journals increasingly demand that data is published according to the **FAIR**[1] data principles (**F**indable, **A**ccessible, **I**nteroperable, **R**eusable)

❑ Lots of data are generated during a research project.

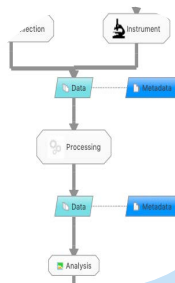❑ Appropriate data and information management from the start of the research process can avoid "data drowning"

1. **The FAIR Guiding Principles for scientific data management and stewardship**, *Scientific Data, Issue 3, 2016. 10.1038/sdata.2016.18.*

openBIS: a complete solution for FAIR data management

Electronic Lab Notebook
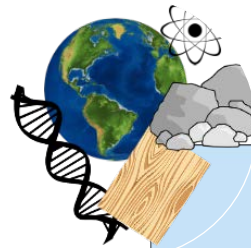
Data Management

Inventory Management

openBIS facts

❑ Developed at ETHZ since 2007

❑ Open source software distributed under Apache v2.0 license

Platform for managing scientific information and supporting research data workflows from "bench" to publication

Used by research groups and facilities @ ETH, Swiss & European Universities, a few companies

Can be used in most quantitative science fields (*e.g. life sciences, physics, env. sciences, material sciences, etc*)

A national RDM service for the academic community

Cloud-hosted openBIS

Virtual servers per research group, institute or institution

Optionally with JupyterHub server for analytics

Self-hosted openBIS

Support for set up on local IT infrastructure

Training & 'best effort' user support

Current customers

http://openrdm.swiss/

Contacts

Caterina Barillari

openRDM.swiss service manager

caterina.barillari@id.ethz.ch

Henry Lütcke

openRDM.swiss project manager

hluetcke@ethz.ch

openrdm@id.ethz.ch

Acknowledgements

openBIS Dev Team

Juan Fuentes

Franz-Josef Elmer

Viktor Kovtun

Piotr Kupczyk

Mariia Pukhliakova

Swen Vermeul

openBIS Ops Team

Richard Wartenburger

Eugenio Naselli

https://sis.id.ethz.ch/

https://twitter.com/ETH_SIS?lang=en

RDM Team

Caterina Barillari

Priyasma Bhoumik

Henry Lütcke

SIS Section Head

Bernd Rinn

SIS Group Leaders

Sergio Maffioletti

Matthew Baker

Thomas Wüst