



OSCARS

Open Science Clusters' Action
for Research & Society



Sustainable Scientific Software School

Initiating Radical collaboration: a Checklist for Sustainable Software

Romain David - Researcher / Data steward
ERINHA



eosc

EVERSE



Funded by
the European Union

OSCARS is a four-year Horizon Europe project that will foster the uptake of Open Science in Europe by consolidating the achievements of world-class European RIs in the ESFRI roadmap and beyond into lasting interdisciplinary FAIR data services and working practices.



Fostering the uptake of Open Science in Europe

OSCARS will strengthen the role of the Science Clusters (SCs) in the European Research Area (ERA) by developing **Community-based Competence Centres (CCCs)** and **Composable Open Data and Analysis Services (CODAS)**, and by fostering the implementation of **Open Science projects and services** funded through a cascading-grant mechanism.

Led by:

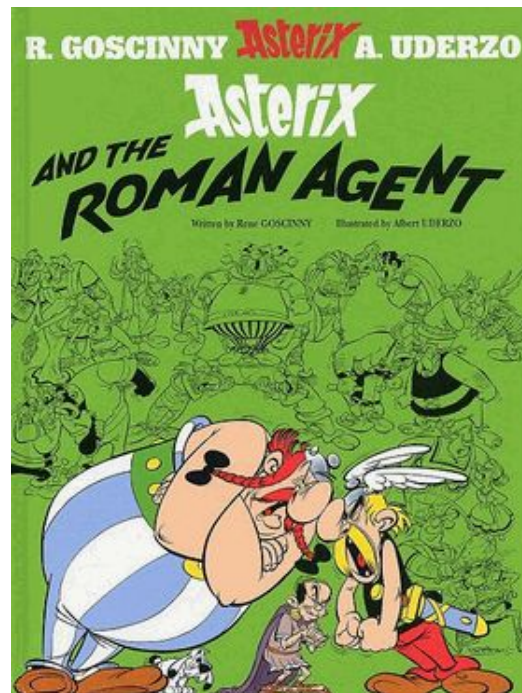


SCIENCE-CLUSTERS.eu
Research infrastructures for Open Science



Where does Radical Collaboration comes from?

It comes from “conflict resolution”...



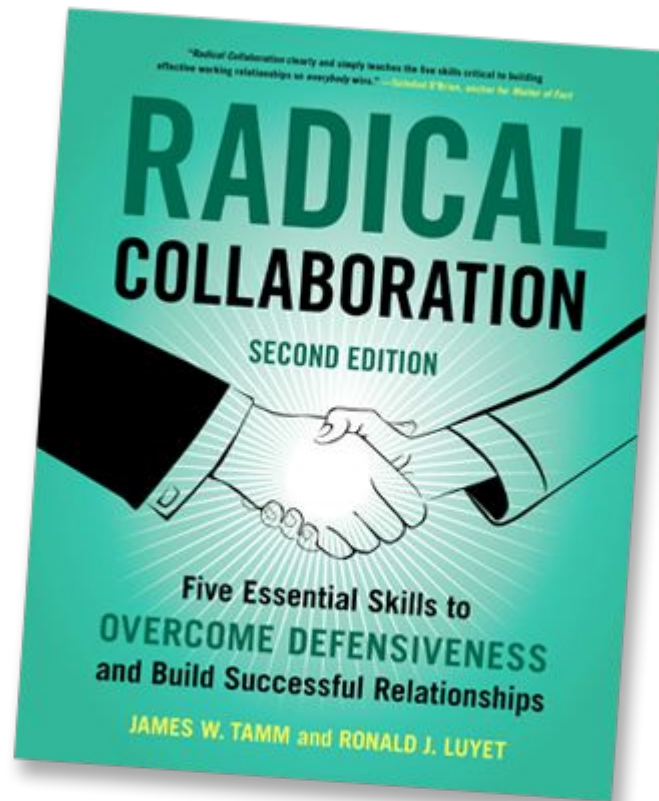
... with the idea “giving a (real) place for each possible contributor”

Where does Radical Collaboration comes from?

To better collaborate outside, better collaborate inside

How to create an
“ideal”
collaborative environment?

(James Tamm)



Radical Collaboration principles

Introduction to Red Zone, Pink Zone & Green Zone Attitudes

RED ZONE

- Fear-based
- Defensive
- Combative Tone
- Win for self only
- Defeat others
- Self-interest only
- Feels like warfare
- Rigid/Reactive
- Hostile
- Attacking
- Controlling

PINK ZONE

- Fear-based
- Protective
- Avoidant Tone
- Avoid losing
- Survive others
- Self-interest only
- Feels like guerilla warfare
- Rigid/Reactive
- Passive-aggressive
- Manipulating
- Withholding

GREEN ZONE

- Trust-based
- Collaborative
- Cooperative Tone
- Mutual gain
- Connect with others
- See others as partners
- Feels like problem solving
- Open to influence
- Curious
- Joint effort
- Engaging

Radical Collaboration 5 fundamental skills

Collaborative intention – Stay non-defensive and commit to mutual success in relationships.

Problem-Solving and Negotiation – Negotiate your way through inevitable conflicts, in a way that builds relationships rather than undermining them.

Awareness of Self and Others – Know yourself and others well enough to explore difficult interpersonal issues to solve problems.

Openness – Create a climate of honesty and openness that allows people to feel safe enough to discuss difficult issues.

Self-Accountability – Take responsibility for the consequences of your actions, both intended and unintended.

Where does Radical Collaboration comes from?

Radical Collaborations in RDA



Research and Innovation

Open Research Europe

Search

Browse

Gateways & Collections

How to Publish ▾

About ▾

Resource Hub ▾

Blog

171 Views

52 Downloads

1 Citations

Cite



[Home](#) > [Articles](#) > [Radical collaboration during a global health emergency: development ...](#)

RESEARCH ARTICLE

Radical collaboration during a global health emergency: development of the RDA COVID-19 data sharing recommendations and guidelines [version 1; peer review: 2 approved, 1 approved with reservations]

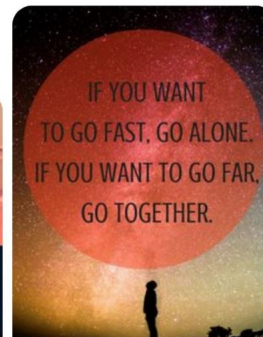
Brian Pickering , Timea Biro  , Claire C. Austin  , Alexander Bernier, Louise Bezuidenhout, Carlos Casorrán , Francis P. Crawley , Romain David , Claudia Engelhardt , Geta Mitrea , Ingvill Constanze Mochmann , Rajini Nagrani , Mary O'Brien-Uhlmansiek , Simon Parker , Minglu Wang , Leyla Jael Castro, Zoe Cournia, Kheeran Dharmawardena , Gayo Diallo , Ingrid Dillo , Alejandra Gonzalez-Beltran, Anupama Gururaj , Sridhar Gutam , Natalie Harrower , Jitendra Jonnagaddala , Katherine McNeill, Daniel Mietchen , Amy Pienta, Panayiota Polydoratou, Marcos Roberto Tovani-Palone

Conditions required to apply Radical Collaboration?

Our goal:

*Collective
intelligence!*

In each idea,
there is **something**
to keep





Examples

You want to know how...



Umbrella Data Management
Plans to Integrate FAIR
Data : Lessons From the
ISIDORE and BY-COVID
Consortia for Pandemic
Preparedness



COLLECTION:
DATA MANAGEMENT
PLANNING ACROSS
DISCIPLINES AND
INFRASTRUCTURES

PRACTICE PAPER

 ubiquity press

ROMAIN DAVID  RUDOLF WITTNER  ALLYSON L. LISTER 
AUDREY S. RICHARD  RAFAEL ANDRADE  JOSÉ LÓPEZ-
CORONADO 


*a community of
Research Infrastructures
and networks of researchers*

can develop a **DMP network**
for FAIR data sharing
addressing the complexities of multiple partners?

Check it: <https://doi.org/10.5334/dsj-2023-035>



Radical Collaboration: some results



david.romain@gmail.com

September 18, 2023

Preprint

Open Access

Edit

New version

Communities

BY-COVID, Beyond COVID

EU Project 2021-2024

EOSC-Life

ISIDORE - Integrated Services for Infectious Disease Outbreak Research project

Remove

Remove

Remove

990

views

769

downloads

See more details...

Indexed in

OpenAIRE


Umbrella Data Management Plans to integrate FAIR data : lessons from the ISIDORE and BY-COVID consortia for pandemic preparedness

David, Romain; Richard, Audrey S.; Connellan, Claire; Lauer, Katharina B.; Chiusano, Maria Luisa; Goble, Carole; Houde, Martin; Kemmer, Isabel; Keppler, Antje; Lieutaud, Philippe; Ohmann, Christian; Panagiotopoulou, Maria; Raza Khan, Sara; Rybina, Arina; Soiland-Reyes, Stian; Wit, Charlotte; Wittner, Rudolf; Andrade Bueno, Rafael; Marsh, Sarah Arnaud; Audergon, Pauline; Bonfils, Dylan; Carazo, Jose-Maria; Charrel, Remi; Coppens, Frederik; Fecke, Wolfgang; Filippone, Claudia; Garcia Alvarez, Eva; Gul, Sheraz; Hermjakob, Henning; Herzog, Katja; Holub, Petr; Kozera, Lukasz; Lister, Allyson L.; Lopez-Coronado, Jose; Madon, Bénédicte; Majcen, Kurt; Martin, William; Müller, Wolfgang; Papadopoulos, Elli; Prat, Christine M.A.; Romano, Paolo; Sansone, Susanna-Assunta; Saunders, Gary; Blomberg, Niklas; Ewbank, Jonathan


THIS PAPER IS NOW PUBLISHED: <https://doi.org/10.5334/dsj-2023-035>


The Horizon Europe project ISIDORE is dedicated to pandemic preparedness and responsiveness research. It brings together 17 Research Infrastructures (RIs) and networks to provide a broad range of services to infectious disease researchers. An efficient and structured treatment of data is central to ISIDORE's aim to furnish seamless access to its multidisciplinary catalogue of services, and to ensure that users' results are treated FAIRly. ISIDORE therefore requires a data management plan (DMP) covering both access management and research outputs, applicable over a broad range of disciplines, and compatible with the constraints and existing practices of its diverse partners.

We undertook an iterative, step-by-step, process to build a community-approved living document, identifying good practices and processes, on the basis of use cases, presented as proof of concepts. International fora such as the RDA and EOSC, and primarily the BY-COVID project, furnished registries, tools and online data platforms, as well as standards, and the support of data scientists. Together, these elements provide a path for building an umbrella, FAIR-compliant DMP, aligned as fully as possible with FAIR principles, which could also be applied as a framework for data management harmonisation in other large-scale, challenge-driven projects. Finally, we discuss how data management and reuse can be further improved through the writing of realistic DMPs using 'DMP profiles' and, in the future, the contribution of an inter RIs data Community of Practice that could be integrated into planned trans-RI competence centres.



Radical Collaboration: some results





September 18, 2023

[Preprint](#) [Open Access](#)


Umbrella Data Management Plans to integrate FAIR data : lessons from the ISIDORE and BY-COVID consortia for pandemic preparedness

[David, Romain](#); [Richard, Audrey S.](#); [Connellan, Claire](#); [Lauer, Katharina B.](#); [Chiusano, Maria Luisa](#); [Goble, Carole](#); [Houde, Martin](#); [Kemmer, Isabel](#); [Keppler, Antje](#); [Lieutaud, Philippe](#); [Ohmann, Christian](#); [Panagiotopoulou, Maria](#); [Raza Khan, Sara](#); [Rybina, Arina](#); [Solland-Reyes, Stian](#); [Wit, Charlotte](#); [Wittner, Rudolf](#); [Andradé Buono, Rafael](#); [Marsh, Sarah Arnaud](#); [Audergon, Pauline](#); [Bonfils, Dylan](#); [Carazo, Jose-Maria](#); [Charrrel, Remi](#); [Coppens, Frederik](#); [Fecke, Wolfgang](#); [Filippone, Claudia](#); [Garcia Alvarez, Eva](#); [Gul, Sheraz](#); [Hermjakob, Henning](#); [Herzog, Katja](#); [Holub, Petr](#); [Kozera, Lukasz](#); [Lister, Allyson L.](#); [López-Coronado, José](#); [Madon, Bénédicte](#); [Majcen, Kurt](#); [Martin, William](#); [Müller, Wolfgang](#); [Papadopolou, Elli](#); [Prat, Christine M.A.](#); [Romano, Paolo](#); [Sansone, Susanna-Assunta](#); [Saunders, Gary](#); [Blomberg, Niklas](#); [Ewbank, Jonathan](#)

THIS PAPER IS NOW PUBLISHED: <https://doi.org/10.5334/dsj-2023-035>

The Horizon Europe project ISIDORE is dedicated to pandemic preparedness and responsiveness research. It brings together 17 Research Infrastructures (RIs) and networks to provide a broad range of services to infectious disease researchers. An efficient and structured treatment of data is central to ISIDORE's aim to furnish seamless access to its multidisciplinary catalogue of services, and to ensure that users' results are treated FAIRly. ISIDORE therefore requires a data management plan (DMP) covering both access management and research outputs, applicable over a broad range of disciplines, and compatible with the constraints and existing practices of its diverse partners.

We undertook an iterative, step-by-step, process to build a community-approved living document, identifying good practices and processes, on the basis of use cases, presented as proof of concepts. International fora such as the RDA and EOSC, and primarily the BY-COVID project, furnished registries, tools and online data platforms, as well as standards, and the support of data scientists. Together, these elements provide a path for building an umbrella, FAIR-compliant DMP, aligned as fully as possible with FAIR principles, which could also be applied as a framework for data management harmonisation in other large-scale, challenge-driven projects. Finally, we discuss how data management and reuse can be further improved through the writing of realistic DMPs using 'DMP profiles' and, in the future, the contribution of an Inter RIs data Community of Practice that could be integrated into planned trans-RI competence centres.



[Edit](#)

New version

Communities

BY-COVID, Beyond COVID EU Project 2021-2024 [Remove](#)

EOSC-Life [Remove](#)

ISIDORE - Integrated Services for Infectious Disease Outbreak Research project [Remove](#)

990 views

769 downloads

[See more details...](#)

Indexed in



Umbrella Data Management Plans to Integrate FAIR Data: Lessons From the ISIDORE

Overview of attention for article published in Data Science Journal, September 2023



75

About this Attention Score

In the top 5% of all research outputs scored by Altmetric

Among the highest-scoring outputs from this source (#12 of 363)

High Attention Score compared to outputs of the same age and source (97th percentile)

High Attention Score compared to outputs of the same age and source (99th percentile)

Mentioned by

- 1 blog
- 101 tweeters
- 1 Receptor

[SUMMARY](#) [Blogs](#) [Twitter](#) [Reddit](#)

So far, Altmetric has seen 135 tweets from 101 users, with an upper bound of 452,773 followers.

[Fio Grattarola](#) | [ecoevo.social/@flograttarola](#)

RT @Romain_DAVID_13: Have you had a look at our new paper? You should have, but it is not too late! <https://t.co/J0XieCuqBY> Find 07 Oct 2023

[Laurent Tranchant](#) | [@L_Tranchant](#)

RT @Romain_DAVID_13: My NEW! @ERINHA_RI PAPER #infectious #disease #metadate sharing #DMP @EosCLife @eoscsassociation @R 06 Oct 2023

**Radical collaboration
also efficient in
communication
phase!**

Radical Collaboration: some results



September 12, 2023

Preprint Open Access

Edit

New version

Preprint: "Be Sustainable", Recommendations for FAIR Resources in Life Sciences research: EOSC-Life's Lessons

David, Romain; Rybina, Arina; Burel, Jean-Marie; Heriche, Jean-Karim; Audergon, Pauline; Boiten, Jan-Willern; Coppens, Frederik; Crockett, Sara; Exter Katrina; Fahrner, Sven; Fratelli, Maddalena; Goble, Carole; Gormanns, Philipp; Grantner, Tobias; Gruning, Bjorn; Gurwitz, Kim Tamara; Hancock, John; Harmse, Henriette; Holub, Petr; Juty, Nick; Karnbach, Geoffrey; Karouni, Emma; Keppler, Antje; Klemmeier, Jessica; Lancelotti, Carla; Legras, Jean-Luc; Lister, L. Allyson; Livio Longo, Dario; Ludwig, Rebecca; Madon, Benedicte; Massimi, Marzia; Matser, Vera; Matteoni, Rafael; Mayrhofer, Michaela Th.; Ohmann, Christian; Panagiotopoulou, Maria; Parkinson, Helen; Persell, Isabelle; Pfander, Claudia; Pieruschka, Roland; Raess, Michael; Rauber, Andreas; Richard, Audrey S.; Romano, Paolo; Rosato, Antonio; Sanchez-Pla, Alex; Sansone, Susanna-Assunta; Sarkans, Ugis; Serrano-Solano, Beatriz; Tang, Jing; Tanoli, Ziaurrehman; Tedds, Jonathan; Wagener, Harald; Weise, Martin; Westerhoff, Hans V.; Wittner, Rudolf; Ewbank, Jonathan; Blomberg, Niklas; Gribbon, Philip

"Be SURE - Be Sustainable REcommendations"

The main goals and challenges for the Life Science (LS) communities in the Open Science framework are to increase reuse and sustainability of data resources, software tools, and workflows, especially in large-scale data-driven research and computational analyses. Here, we present key findings, procedures, effective measures and recommendations for generating and establishing sustainable LS resources based on the collaborative, cross-disciplinary work done within the EOSC-Life (European Open Science Cloud for Life Sciences) consortium. Bringing together 13 European LS Research Infrastructures (RIs), it has laid the foundation for an open, digital space to support biological and medical research. Using lessons learned from 27 selected projects, we describe the organisational, technical, financial and legal/ethical challenges that represent the main barriers to sustainability in the life sciences. We show how EOSC-Life provides a model for sustainable FAIR data management, including solutions for sensitive- and industry-related resources, by means of cross-disciplinary training and best practices sharing. Finally, we illustrate how data harmonisation and collaborative work facilitate interoperability of tools, data, solutions and lead to a better understanding of concepts, semantics and functionalities in the life sciences.

IN PRESS EMBO Journal: <https://www.embojournal.org/journal/14602075>

Communities

- A4Life European Project [Remove](#)
- BY-COVID, Beyond COVID [Remove](#)
- EU Project 2021-2024 [Remove](#)
- DANUBIUS-RI - International Centre for Advanced Studies on River-Sea Systems [Remove](#)
- ECRIN [Remove](#)
- ELIXIR Belgium [Remove](#)
- ELIXIR-CONVERGE [Remove](#)
- EOSC-Life [Remove](#)
- Euro-Bioimaging ERIC [Remove](#)
- FAIRplus [Remove](#)
- Instruct-ERIC [Remove](#)
- ISIDORE - Integrated Services for Infectious Disease Outbreak Research project [Remove](#)
- The Network of European Bioimage Analysts [Remove](#)

2,383

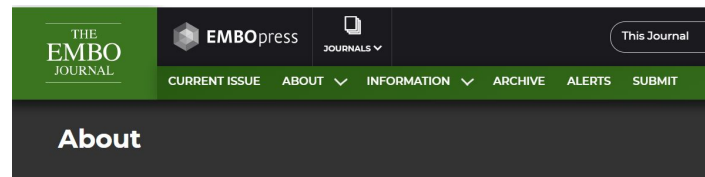
views

1,629

downloads

[See more details...](#)

IN PRESS!!



The EMBO Journal has been EMBO's flagship publication since its launch in 1982. With a scope that spans all areas of molecular biology, the journal has an international reputation for quality and originality.

- Aims & Scope
- Transparent Process
- Bibliometrics
- Open Access
- Privacy Policy

Journal's Impact IF

2022-2023

13.783



This is mainly a product of the EOSC-Life European programme funding from the European Union's Horizon research and innovation programme under grant agreement N°824087. Complementary support was provided by the EU funded project AiroServ (grant agreement N°101058020). EU funded project BY-COVID (grant

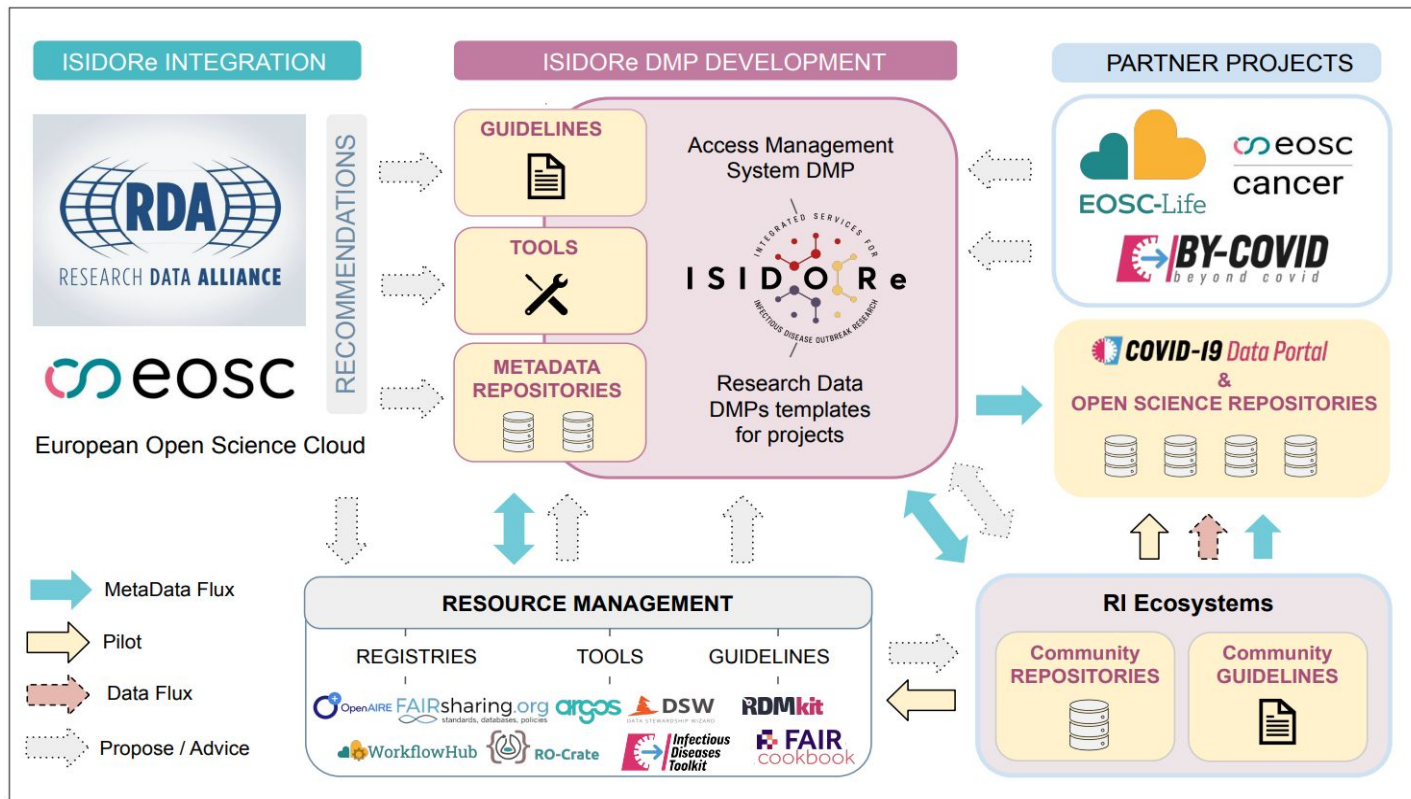
How we applied Radical Collaboration?

- 1) Inviting everybody (*collaborative intention*)
- 2) Fixing the rules and the goals together (*Openness*)
- 3) Everybody can come in and come out **when she/he want** (*Openness - Awareness of Self and Others*)
- 4) Mutual interest and common and individual **benefits clearly exposed** (*Awareness of Self and Others - Self-Accountability*)
- 5) **Dividing the effort** as possible as it is: shorts steps / quick realisations (*Awareness of Self and Others*)
- 6) High frequency of discussion, with **agreement researched** for all questions (*collaborative intention - Self-Accountability - Problem-Solving and Negotiation*)
- 7) Giving responsibilities, but **no penalties in case of a failure** (*Awareness of Self and Others - Self-Accountability - Problem-Solving and Negotiation*)
- 8) Trying to resolve issues commonly, without indexing 1 responsible, **refixing realistic goals and redistributing tasks** when something is blocked (*Awareness of Self and Others - Self-Accountability - Problem-Solving and Negotiation*)
- 9) Rewarding and Crediting everybody **for small inputs as well as big inputs** (*Awareness of Self and Others - Openness*)

Radical Collaboration: some tools

- Paper sprints
- Paper draft: google doc
 - Tagging others to obtain participations
 - Permit comments
 - Track changes with versions (saved each 1 to 3 days)
- Google slides
 - Ideas and concepts for teasers and figures
 - Versioning
- Rolling notes (as a memory for exchanges and decisions)
- GoogleSheet tracking rules, actions and roles

Radical Collaboration: Metadata RC in ISIDORe



Radical Collaboration: Metadata RC in ISIDORe

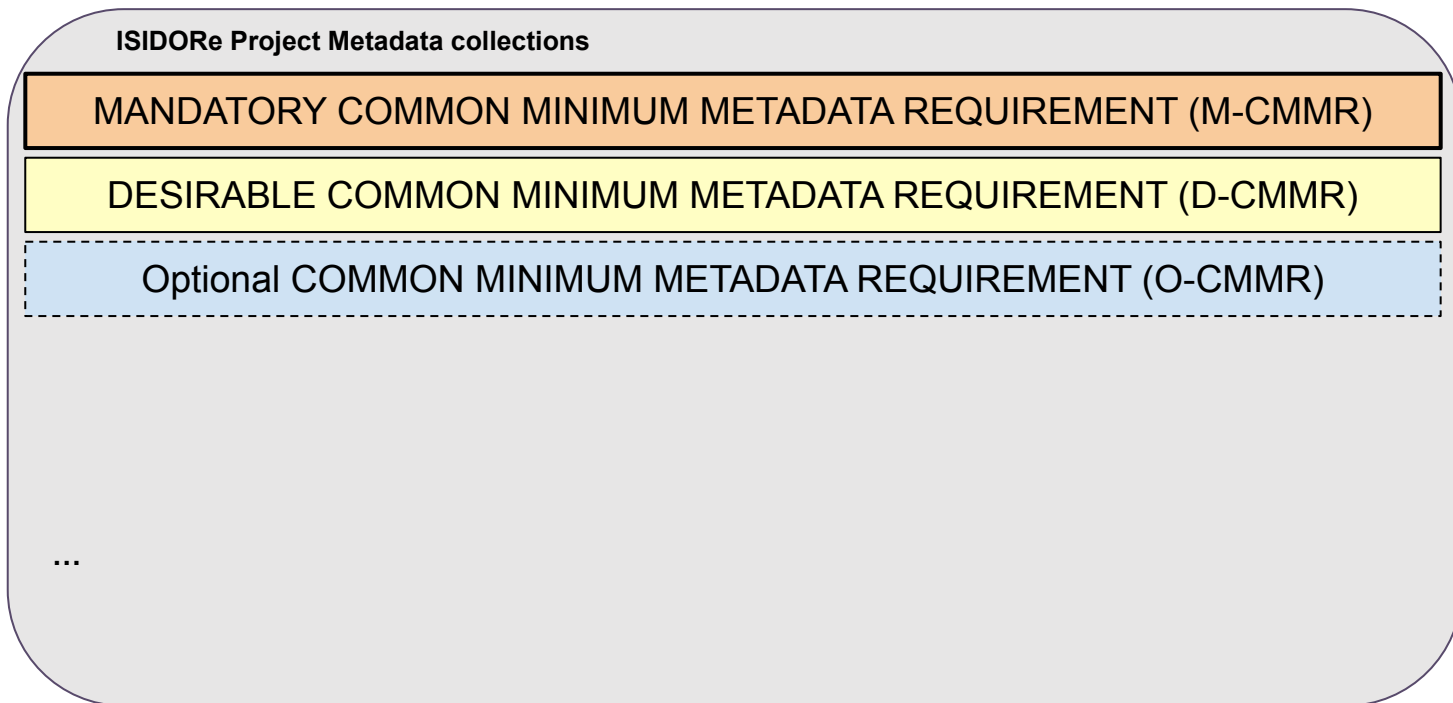
A paper is planned

Work on metadata

Metadata for

ISIDORe projects

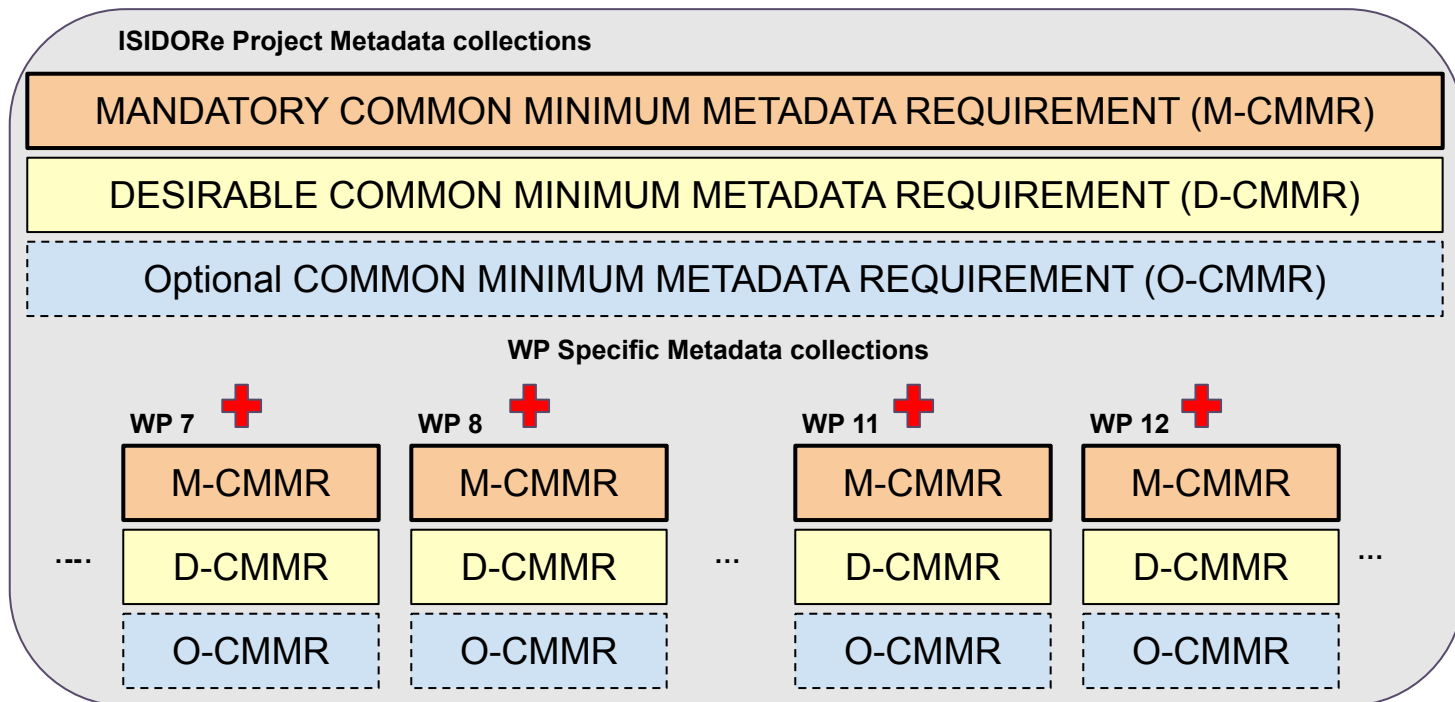
results



Radical Collaboration: Metadata RC in ISIDORE

A paper is in finalisation phase

Work on metadata
Metadata for
ISIDORE projects
results



IF Scientific Data : 8.5
IF Journal of Data and Information Quality 0.73
IF Gigascience 7.6



Home > ACM Journals > Journal of Data and Information Quality



JDIQ's mission is to publish high quality articles that make a significant and novel contribution to the field of data and information quality. JDIQ welcomes

scientific data

[Explore content](#) > [About the journal](#) > [Publish with us](#)

[nature](#) > [scientific data](#) > news & comment

News & Comment

Article Type	Year
All	All

Comment
Open Access
06 Mar 2023

Ten lessons for data sharing with a dat
A data commons is a cloud-based data platform with a g and share its data. Data commons provide a research cor using the elastic scalability provided by cloud computing accelerate the pace of research. Over the past decade, a some of the lessons learned from this effort.

Robert L. Grossman

Comment
Open Access
23 Feb 2023

Addressing barriers in FAIR data practi
Laura D. Hughes, Ginger Tsueng ... Lars Pach

Comment
Open Access
30 Sept 2022

An agenda for addressing bias in confi
With increased availability of disaggregated conflict ever inclination, prejudice, or directionality to information. In including confidence in whether data collection procedu data projects, we are uniquely aware of biases that are pr honest discussion about the responsibilities of all stakeho thoughtfully and transparently reflect on those biases; use data in good faith; and acknowledge limitations. We therefore post an agenda for data responsibility

OXFORD
ACADEMIC

Journals

Books

(GIGA)ⁿ
SCIENCE

Articles

Submit

Alerts

About

GigaScience



Latest Volume
Volume 12
2023

Publishing Director
Laurie Goodman, PhD

Editor in Chief
Scott Edmunds, PhD

Executive Editor
Nicole Nogoy, PhD

Editor
Hans Zauner, PhD

Editor
Hongling Zhou

About the journal

GigaScience is an open access, open data, open peer-review journal focusing on 'big data' research from the life and biomedical sciences.

[Learn more](#)

GigaScience has been selected as the 2018 Prose Awards Winner for "Innovation in Journal Publishing."

Scientific Data is an open access journal dedicated to data, publishing descriptions of research datasets and articles on research data sharing from all areas of natural sciences, medicine, engineering and social sciences. It aims to advance the sharing and reuse of scientific data, promote wider data sharing and reuse, and to credit those that share.

Radical Collaboration: S3 Checklist

Who to be involved?

What to bring together

Rules and roles in RC?

Common and individual
benefits?

Output to attract and/or
to go further?

Possible next step(s)?

Radical Collaboration: S3 Checklist

Who to be involved? -> Do you want TO
BE in the DREAM TEAM?

What to bring together

Rules and roles in RC?

**Common and individual
benefits?**

Output to attract and/or
to go further?

Possible next step(s)?

Radical Collaboration: S3 Checklist

Who to be involved? -> Do you want TO
BE in the DREAM TEAM?

What to bring together? -> some ideas (others are expected from the group, this one can be dropped)

- *Template for Sustainable Software*
- Workshop “XXX”
- Advisory group on minimal Recommendation
- **Checklist template for easy publication**

(to be published in an indexed journal as a concept?)

Common and individual benefits:

- credits for researcher (reports, citation of data, visibility, e-reputation: to draw a model)
- Rewards and credits for the group: an international publication (high Journal, high topic of interest...

Radical Collaboration: S3 Checklist

Who to be involved? -> Do you want TO
BE in the DREAM TEAM?

What to bring together

Rules and roles in RC?

**Common and individual
benefits?**

Output to attract and/or
to go further?

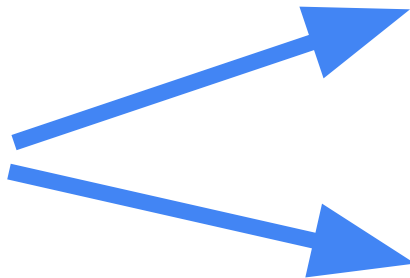
Possible next step(s)?

Radical Collaboration: S3 Checklist

Possible next step(s)?

Are you in the CORE TEAM?

**What do you want to bring
collectively for enhancing
sustainability of software in
Open Sciences?**



Rules and roles in RC?

YOU will decide!

Common and individual
benefits?

YOU will decide!

Radical Collaboration: S3 Checklist

Possible next step(s):

ARE YOU READY?

It is madness to hate all roses
because a thorn pricked you, to
abandon all dreams because one of
them did not come true, to give up
all attempts because one failed...

Le Petit Prince, Antoine de Saint-Exupéry

