RDA SHARC ig
Sharing Rewards and Credit
Co-chairs: R. David, L. Mabile, A. Cambon-Thomsen
https://www.rd-alliance.org/groups/sharing-rewards-and-credit-sharc-ig

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RDA France
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ERINHA is a RI of biocontainment laboratories which specialize in infectious disease research
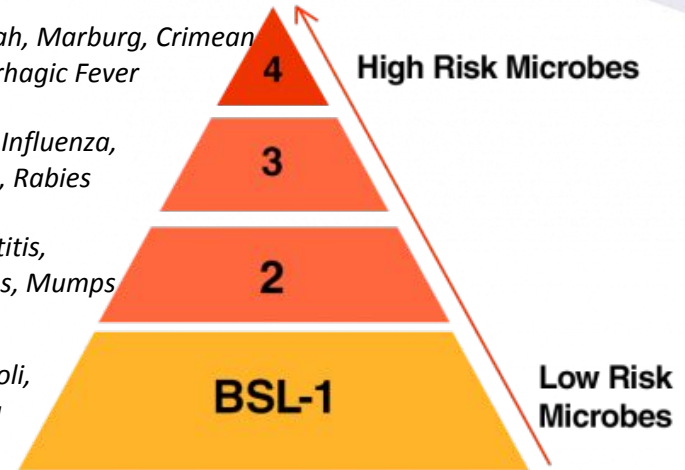

BSL-4

BSL-3

ex. Ebola, Nipah, Marburg, Crimean Congo Hemorrhagic Fever

ex. HIV, H1N1 Influenza, Yersinia pestis, Rabies

ex. Influenza, Hepatitis, Salmonella, Measles, Mumps

ex. Non pathogenic E. coli, nonpathogenic bacteria

High Risk Microbes

Low Risk Microbes

4

3

2

BSL-1

Biocontainment laboratories:

- **Unique buildings with complex engineering systems maintaining 'containment'**

- **Increased personnel and information security**

- **Nationally and internationally regulated**

SHARC ig: objectifs

Observation: Malgré de nombreuses annonces / promotion active, le partage de données selon les principes FAIR n'est toujours pas effectif dans la plupart des communautés.

Objectif: se concentrer sur un obstacle majeur:

le manque de reconnaissance des efforts requis

SHARC vise à promouvoir et améliorer les mécanismes de crédit et de récompense dans le processus de partage des données / ressources.

Comment?

En produisant des recommandations pratiques qui prendraient en compte autant que possible les contraintes au sein des infrastructures académiques existantes

SHARC ig: où en est on?

Identification

- des étapes et des tâches dans le processus de FAIRification
- des parties prenantes / des acteurs sollicités
- des moyens permettant d'encourager la réalisation de ces étapes et la reconnaissance de leur bon accomplissement par les acteurs concernés
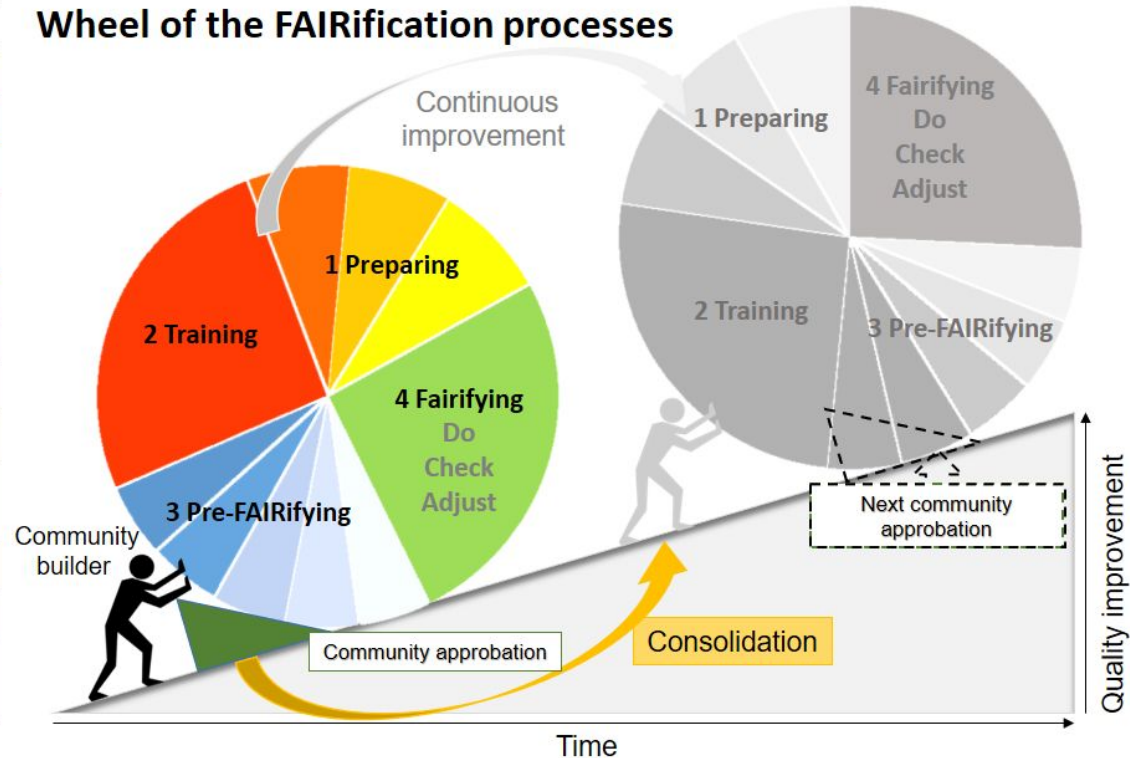
Prérequis:

- Une communauté au périmètre défini et validé
- Un dimensionnement "raisonnable" des moyens à mettre en oeuvre (ni trop, ni trop peu)
- Des outils pour (s'auto) <u>évaluer puis récompenser</u> l'efficacité des actions mises en oeuvre

SHARC ig: étapes à reconnaître

Process	Steps
Preparing FAIRification	Explain FAIRification
	Define constraints
	Define advantages
Training	Increase FAIR literacy Convince partners
Pre-FAIRifying	Building shared strategy
	Define community
	Define objects and variables
	Select items to be identified
	Analyse common denominators
FAIRifying	**Do:** Downward levelling
	Check: first interoperations
	Adjust: Identifying gaps and new expectation

Wheel of the FAIRification processes

Data Science Journal : David, R, et al. and The Research Data Alliance – SHAring Reward and Credit (SHARC) Interest Group. 2020. FAIRness Literacy: The Achilles' Heel of Applying FAIR Principles. Data Science Journal, 19: 32, pp. 1–11. DOI: https://doi.org/10.5334/dsj-2020-032

SHARC ig: acteurs et responsabilités

This table is an ongoing work that needs to be collectively discussed. Your feedback is welcome.

		Explain FAIRification	Define constraints	Define advantages	Increase FAIR literacy	Convince partners	Building shared strategy	Define community	Define objects and variables	Select items to be identified	Analyse common denominators	Do: Downward leveling	Check: Find interoperable ones	Adjust: Identifying gaps and new expectation
Research funders		F	E	E	FR	R						FR	E	R
Policy makers		CG	E	E	CGR	RG	G					E		
Coordination fora		CG	CG	CG	CG	CG	CG	G	G	G	G	G	G	G
Standards bodies		GT	G	G	GT	G	T		G	G	T	GT		G
Research providers		CGT	E	E	CGT	GV	GT	GI				ET		ER
Research communities		C	IP	IP	EV	PI	IV	PIV	V	V	V	IP	IPV	IPV
Data service providers		CG	GV	G	IT	I	GIT				V?	IT	V	I
Data stewards		PCG	GV	GV	IPT	I	IPT	I	IP	IP	IP	IT	EI	I

Preparing | Training | Pre-FAIRyfying | FAIRifying

C: Convince
E: Evaluate
F: Fund
G: Guide
I: Implement
P: Pilot (at least 1 per phase)
R: Reward
T: Train
V: Validate

SHARC ig: outil de suivi

Outil d'accompagnement ("grille SHARC")

- Générique
- Aussi simple que possible
- Adaptable aux particularités des communautés
- Outil disponible en anglais ET en français
- Utilisable pour l'auto-évaluation / le diagnostic

  https://zenodo.org/record/3922069#.X1dS4cgzaUk

Dans la réalité, nécessite de mettre à disposition

accompagnement / formation / compétences / moyens humains

"We highlight that researchers should be supported by data management professionals (not only data stewards), organised in networks and embedded in institutions. In order to enhance treatment of data according to the FAIR principles, we suggest that organisations should be assessed on the basis of how well they support their researchers in becoming FAIR advocates." (david *et al.*, 2020)

SHARC ig: à venir

Prochaines étapes

- Validation de la grille SHARC comme outil d'accompagnement dans le cadre de la RDA
- Recommandations sur les "rewards and credits" pour chaque acteur impliqué

- **Cas d'études / adoption (et adaptation) de l'outil d'accompagnement**
  - ERINHA
  - MIRRI
  - INRAE / Foosin / Food system IN
  - INIST
  - BiodiFAIRse IN?
  - RBDD?
  - … Votre communauté?

- Adaptation de l'outil dans le cadre des Data Stewardship Competence Center (DSCC)

Merci de votre attention

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David, R., Mabile, L., Specht, A., Stryeck, S., Thomsen, M., Yahia, M., Jonquet, C., Dollé, L., Jacob, D., Bailo, D., Bravo, E., Gachet, S., Gunderman, H., Hollebecq, J.-E., Ioannidis, V., Le Bras, Y., Lerigoleur, E., Cambon-Thomsen, A. and Research Data Alliance – SHAring Reward and Credit (SHARC) Interest Group, T.R.D., 2020. **FAIRness Literacy: The Achilles' Heel of Applying FAIR Principles**. *Data Science Journal*, 19(1), p.32. DOI: http://doi.org/10.5334/dsj-2020-032

DATA SCIENCE JOURNAL

Reading: FAIRness Literacy: The Achilles' Heel of Applying FAIR Principles Share: f ⅄ g+ in

Special Collection: Research Data Alliance Results

Practice Papers

FAIRness Literacy: The Achilles' Heel of Applying FAIR Principles

Authors: Romain David ✉, Laurence Mabile, Alison Specht, Sarah Stryeck, Mogens Thomsen, Mohamed Yahia, Clement Jonquet, Laurent Dollé, Daniel Jacob, Daniele Bailo, Elena Bravo, Sophie Gachet, Hannah Gunderman, Jean-Eudes Hollebecq, Vassilios Ioannidis, Yvan Le Bras, Emilie Lerigoleur, Anne Cambon-Thomsen, The Research Data Alliance – SHAring Reward and Credit (SHARC) Interest Group

Abstract

The SHARC Interest Group of the Research Data Alliance was established to improve research crediting and rewarding mechanisms for scientists who wish to organise their data (and material resources) for community sharing. This requires that data are findable and accessible on the Web, and comply with shared standards making them interoperable and reusable in alignment with the FAIR principles. It takes considerable time, energy, expertise and motivation. It is imperative to facilitate the processes to encourage scientists to share their data. To that aim, supporting FAIR principles compliance processes and increasing the human understanding of FAIRness criteria – i.e., promoting FAIRness literacy – and not only the machine-readability of the criteria, are critical steps in the data sharing process. Appropriate human-understandable criteria must be the first identified in the FAIRness assessment processes and roadmap. This paper reports on the lessons learned from