



Articles, software, data: a study of the (French) scientific production

Teresa Gomez-Diaz

► To cite this version:

Teresa Gomez-Diaz. Articles, software, data: a study of the (French) scientific production. EUDAT 3rd Conference, Sep 2014, Amsterdam, Netherlands. 2014, <<http://eudat.eu/events/conferences/3rd-eudat-conference-bringing-data-infrastructures-horizon2020-24-25-september>>. <10.5281/zenodo.18103>. <hal-01162179>

HAL Id: hal-01162179

<https://hal.archives-ouvertes.fr/hal-01162179>

Submitted on 9 Jun 2015

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Distributed under a Creative Commons Attribution - NonCommercial - NoDerivatives 4.0
International License

Articles, software, data: a study of the (French) scientific production

T. Gomez-Diaz (CNRS, LIGM)



Articles are the most visible and accessible part of the **research**.

The distribution of **software** and **data** raises similar issues.

Data can be complex legal objects.

Which legal protection (fr)?

- no protection
- authors' rights for data, for databases
- « sui generis » right for databases
- personal, private data
- image's right, right of images
- geographical data (INSPIRE)
- medical data
- confidentiality, secret
- public security, national defence
- environment protection
- ...

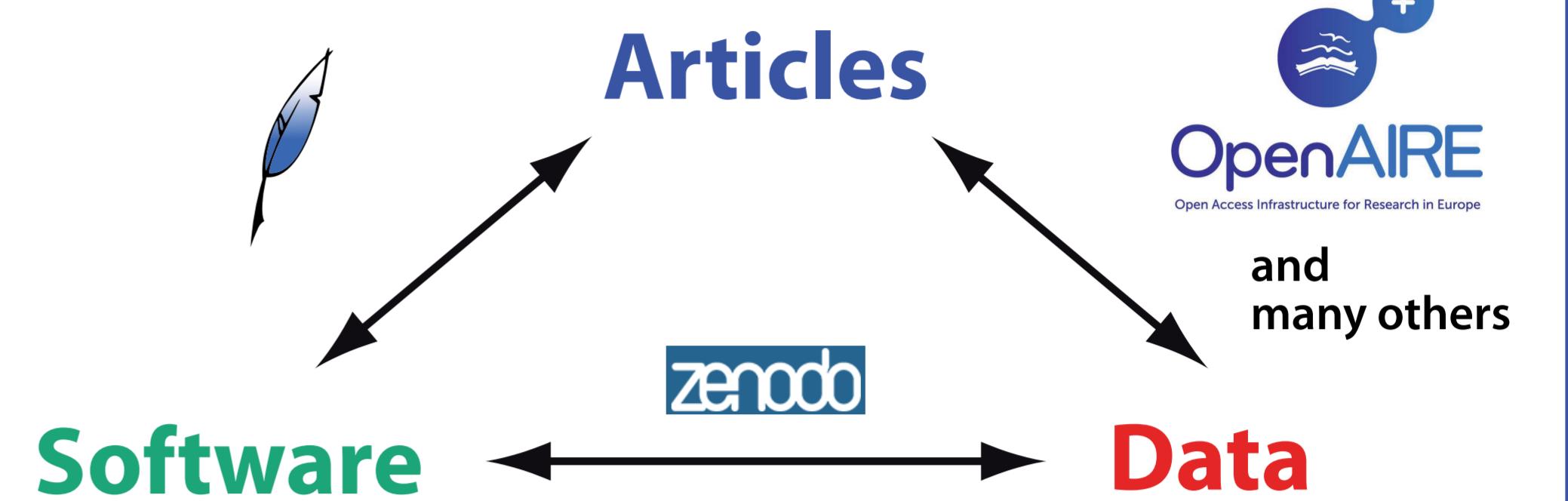
Research laboratories and institutions' needs

- visibility and accessibility for their production
- management
- evaluation
- quality of the production
- free/open access policies

Which licence?

- Open Database License (ODbL),
e.g. OpenStreetMap
- Open licence, Etalab mission
for Open Government Data sharing
- Creative Commons v.4
- LGPL (LIGM)
<http://igm.univ-mlv.fr/~unitex/lgpl.html>
- ...

Research needs links



Producers' needs

- formation, support, best practices
- how to find existing **software**, **data**
- access to other expert skills
- share own experiences
- distribute the production (technical, legal)
- promotion (scientific, technology transfert)
- monitoring technology advance

Users' needs

- formation, support, best practices
- how to find existing **software**, **data**
- access to other expert skills
- share own experiences
- monitoring technology advance

On the management of the research production: a comparison study

	Article (*)	Software (*)	Data
Definition (L, T) (**)	ok	to be defined	to be defined
Signature (C, T)	ok, defined by head institutions	to be defined (copyright line), associate the labs	to be defined, associate the labs
References (L, T)	HAL	PLUME	metadata, more and more deposits, which one?
List of lab's works (L, T)	up to date	unknown, PLUME can be useful	unknown
Free/open access (C, L, T, CSI)	policies (+/-) ok, deposit ok (HAL)	policies (licences) to be defined, deposit to be establish	policies (licences) to be defined, deposit to be establish
Validation (C, L, T, CSI)	peer review, reproducibility	to be defined validated (in PLUME's sense)	to be defined curation?
Quality and evaluation (C, L, T, CSI)	nb. of citations	according to associated articles, capacity to attract users, contracts	according to associated articles, capacity to attract collaborators
Motivation (C, L, T, CSI)	research, article	research, not the software	research, data
Object (C, L, T, CSI)	scientific	3D: scientific, but also a potential of technology, industrial transfert	MultiD: scientific, transfert, multiple reuse possible

(*) See Article vs. Logiciel : questions juridiques et de politique scientifique dans la production de logiciels
<https://www.projet-plume.org/ressource/article-vs-logiciel>

(**) (C, L, T, CSI): different levels of decision making.

Keywords: shared knowledge, reproducibility, accessibility, free/open access, ...

Help researchers and laboratories to improve the management and dissemination of software and data improves the smooth functioning of research.

Few references

- Safe to be open. Study on the protection of research data and recommendations for access and usage, L. Guibault, A. Wiebe (2013), University of Göttingen
- Creative Commons licences, <http://creativecommons.org/>
- Droit d'auteur des chercheurs, Bases de Données et Archives Ouvertes, Martin Dantant (DAJ, CNRS), July 2013, <http://mistral.cnrs.fr/spip.php?article350>
- A Surfboard for Riding the Wave - Towards a four country action programme on research data, Nov. 2013, <http://www.knowledge-exchange.info/Default.aspx?ID=469>
- 2nd Open Access Colloquium : présent et futur des publications scientifiques, June 2014, http://wavelets.ens.fr/OAC_ENS_2014/
- INSPIRE : une infrastructure de partage des données géographiques, Marc Leobet (presentation RBDD, Oct. 2013)
- Thème PLUME : patrimoine logiciel d'un laboratoire, T. Gomez-Diaz, <https://www.projet-plume.org/patrimoine-logiciel-laboratoire>



Bringing data infrastructures to Horizon2020
 Amsterdam, 24-25 September 2014