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

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

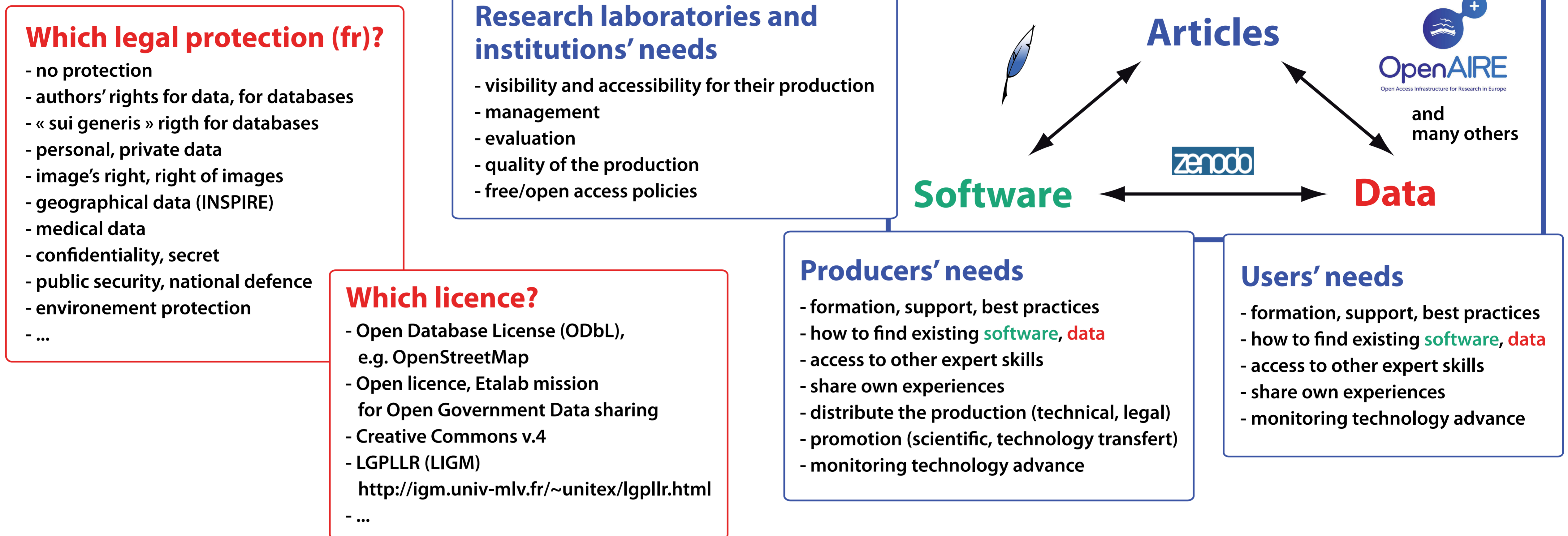
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Articles are the most visible and accessible part of the research.

The distribution of software and data raises similar issues.

Data can be complex legal objects.



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, reproductibility	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, reproductibility, 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>



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