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# 101 Innovations - Présentation et résultats de l'enquête internationale sur l'utilisation des outils de communication scientifique. Focus sur les résultats de l'Inra

Pascal Aventurier

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Pascal Aventurier. 101 Innovations - Présentation et résultats de l'enquête internationale sur l'utilisation des outils de communication scientifique. Focus sur les résultats de l'Inra. Séminaire des revues scientifiques, Jun 2016, Ivry-sur-Seine, France. 27 p. hal-01594734

**HAL Id: hal-01594734**

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Submitted on 5 Jun 2020

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# 101 Innovations

Présentation et résultats de l'enquête internationale sur l'utilisation des outils de communication scientifique. Focus sur les résultats de l'Inra

**Pascal Aventurier**

Collaboration entre 3 pôles DIST :  
Bibliométrie : Hugues Leiser traitement des données  
Publication et communication scientifique  
Technologies de l'IST

Journée DIST - 8 novembre 2016  
Pôle PCS

## Innovations in Scholarly Communications. Changing research workflows. (Univ Utrecht)

- Présenter l'offre en matière d'outils pour la recherche,
- **enquête internationale** pour identifier les usages réels de ces outils et leur impact sur le comportement et le travail des scientifiques.
- **Plus de 550 outils ou sites sont répertoriés et décrits.**
- L'enquête s'est déroulée sur 9 mois (fin février 2016). Plus de 20 000 réponses. Plus de 100 organismes ont diffusé un lien personnalisé vers l'enquête.
- L'enquête a été traduite en plusieurs langues (espagnol, français...)

Enquête <https://101innovations.wordpress.com/francais>

Dominique L'Hostis (2015). Une Palette d'outils pour les chercheurs. Observatoire IST.

<http://ist.blogs.inra.fr/technologies/2015/09/11/une-palette-doutils-pour-les-chercheurs/>

## • Demography

- Discipline
- first publication date
- Professional rôle

## • Discovery

- Search literature, data etc
- Get access to literature
- Get Alerts recommendations
- Read, view, Annotate

## • Analysis

- Analyze data, text
- Analyze share notebooks, protoc workflow

## • Writing

- Writing prepare manuscript
- Reference management

## • Publication

- Archive, share publication
- Archive, share data and code
- Select Journal to submit
- Publish

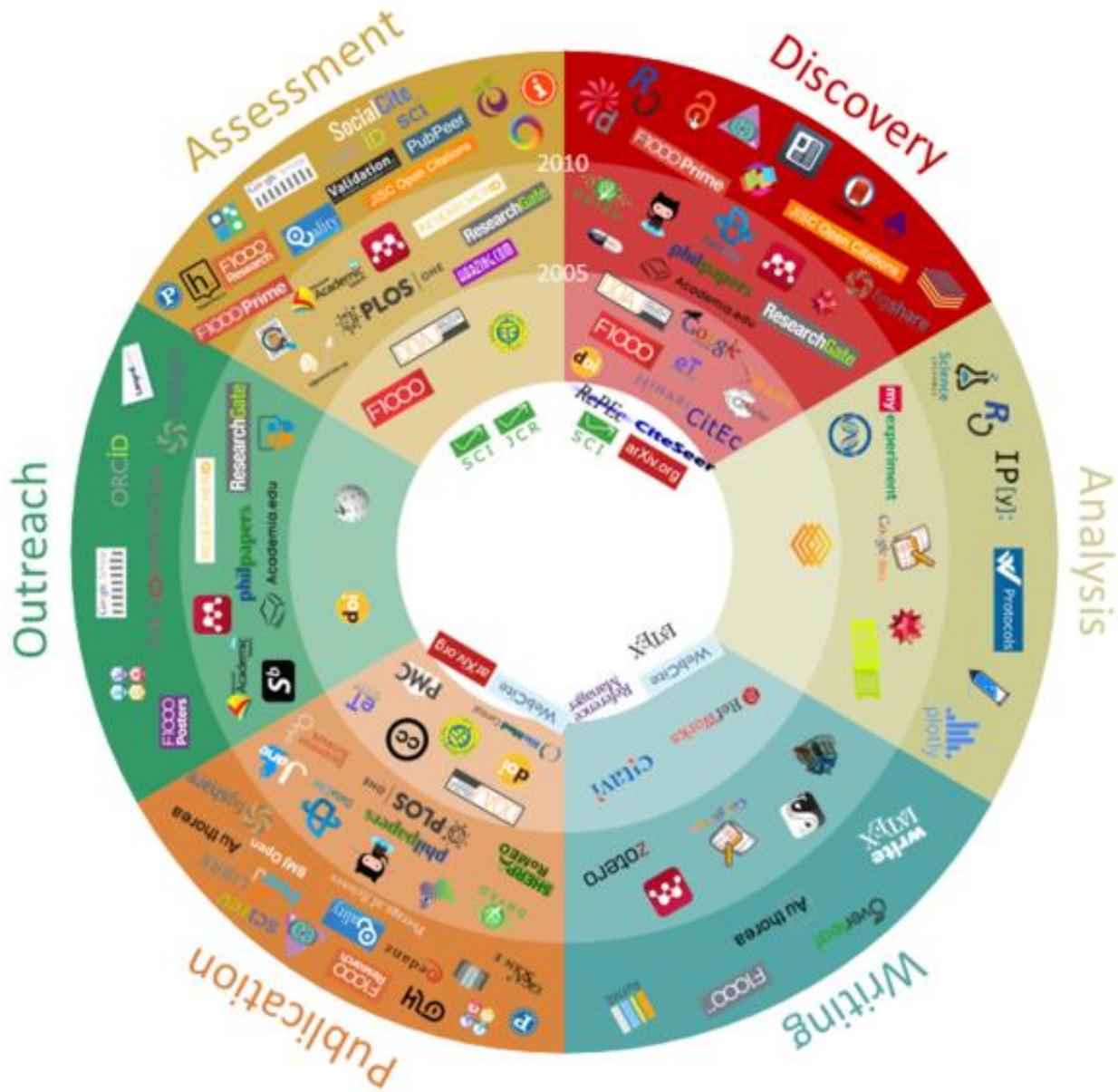
## • Outreach (valorisation)

- Archives / share posters & Presentations
- Tell about research outside academia
- Research profiles

## • Assessment (évaluation)

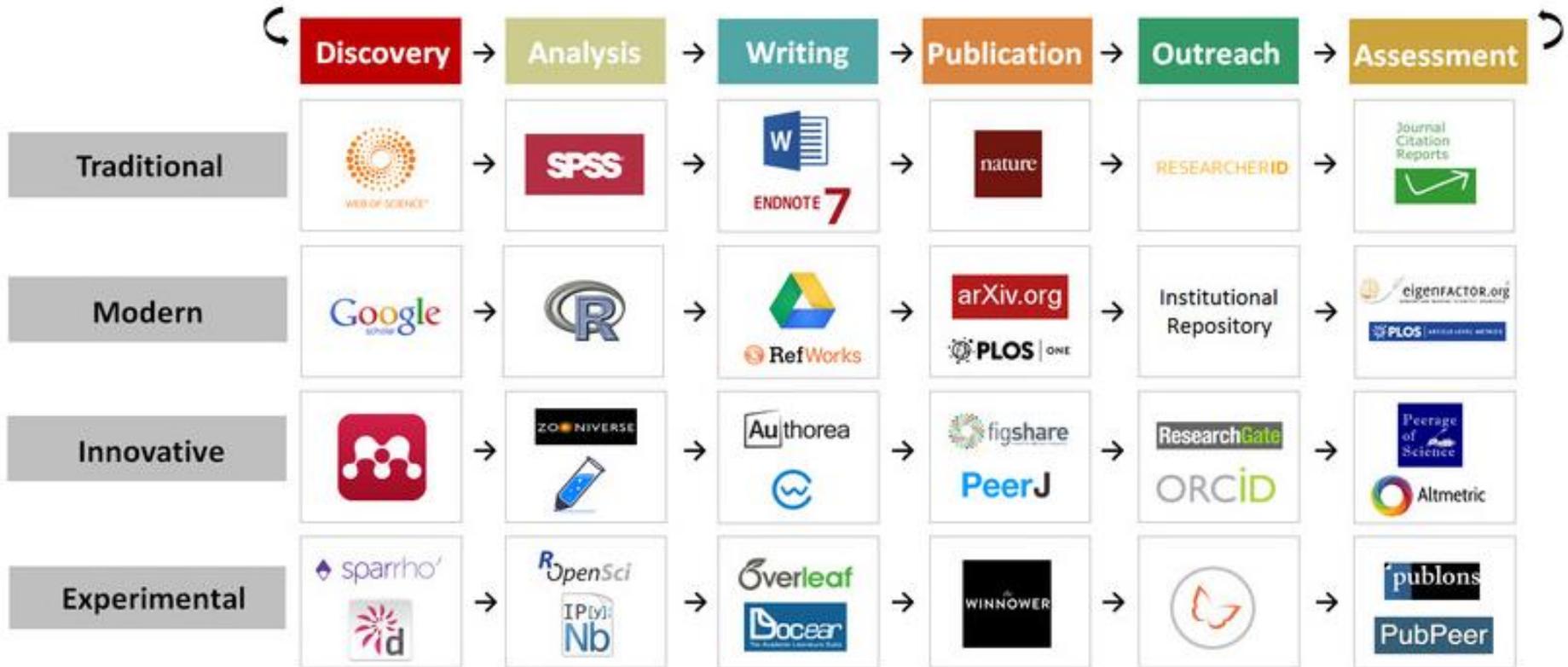
- Peer Review beyond that organized by journals
- Measure impact

+ Language specific tools (French)



<https://101innovations.wordpress.com/>

# Typical workflow examples



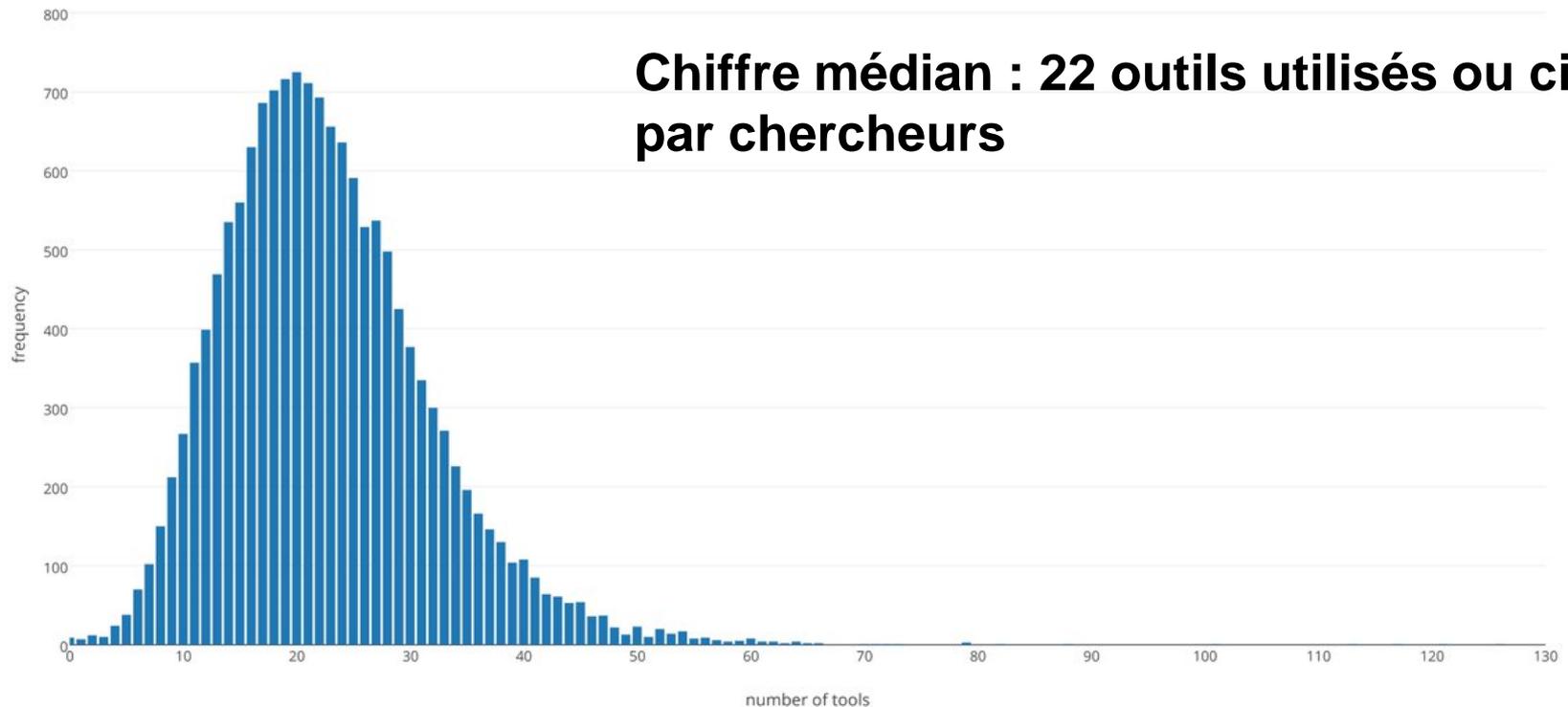
Résultats interactifs

<http://dashboard101innovations.silk.co/>

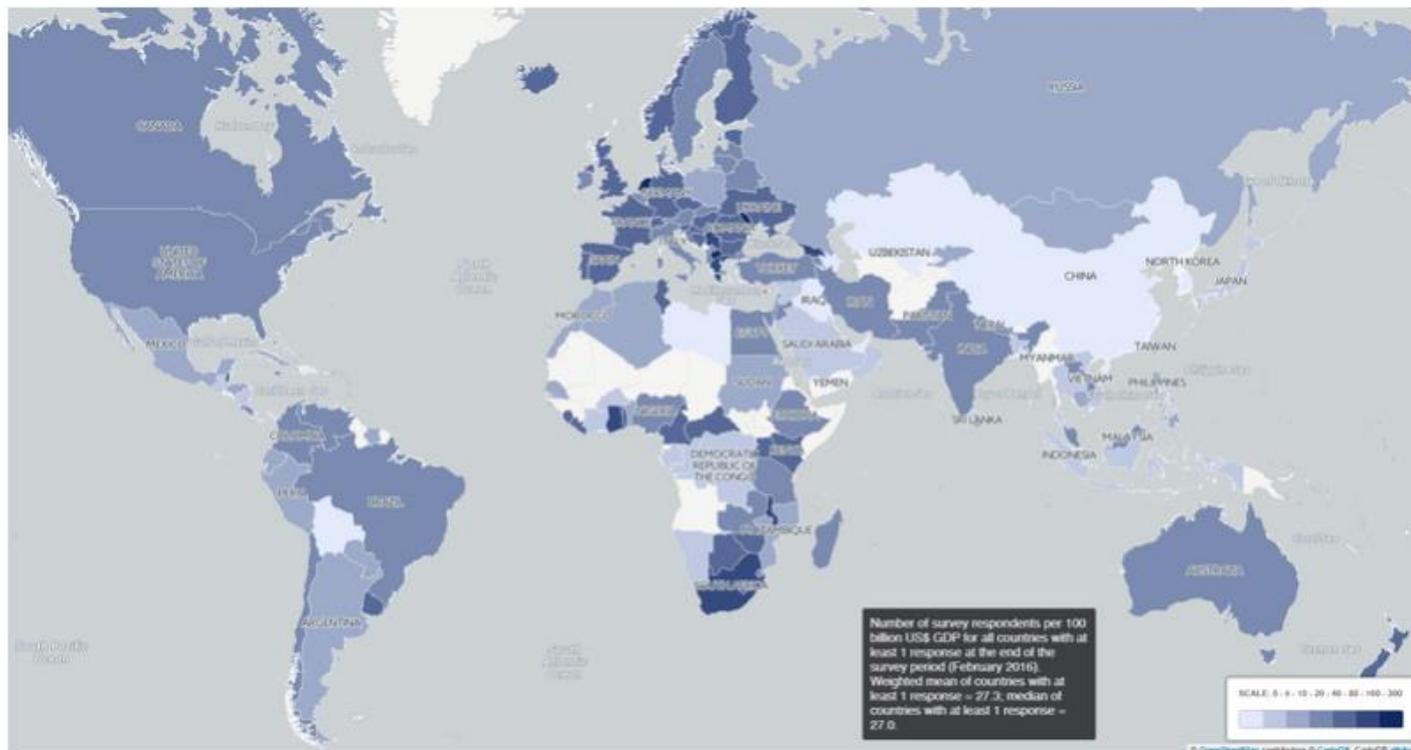
# Distribution de la fréquence des outils cités pour chaque chercheur

diffusé par @MsPhelps 10/06/20116. <https://twitter.com/MsPhelps/status/741296576585445376>

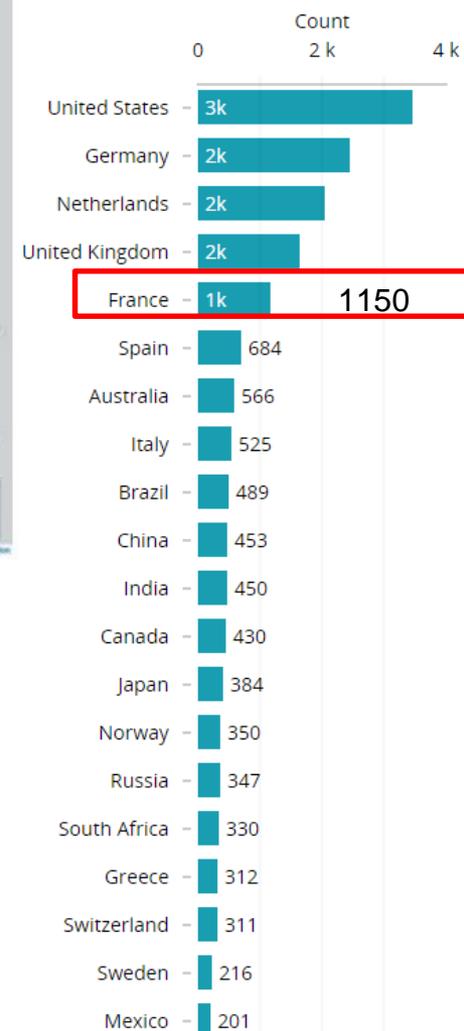
Frequency distribution of number of tools (including others) mentioned by researchers (N=14,896)



## Total survey responses per 100 billion US\$ GDP



## Country of current (or last) affiliation?

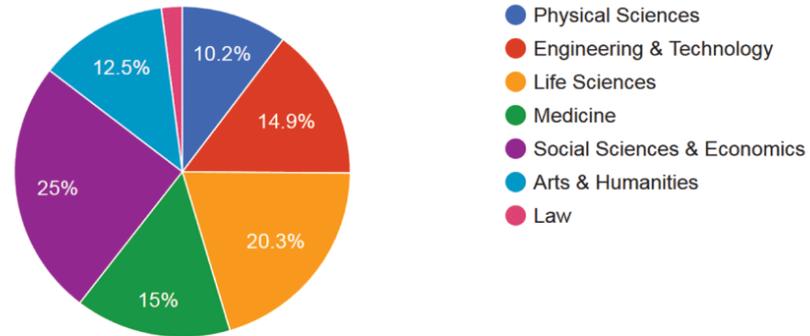


**Monde =20600 , France 1150 / INRA 276**

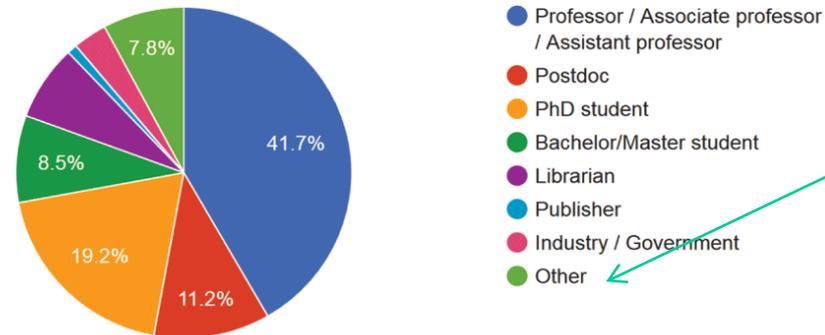
Plutôt Life Science et sous représenté en SSH, Medecine , Arts,  
Rôle Professeur et souvent autre et Researcher dans le champ libre

# Demographic distributions of survey responses.

**A Research discipline (multiple answers possible, n=25820, N=20663)**

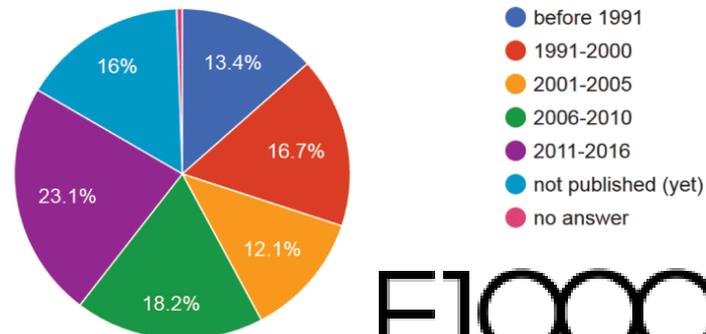


**B Research role (n=20663)**



France :  
Mention de  
Researcher dans  
Other

**C Year of 1st publication (n=20663)**



Kramer B and Bosman J 2016 [version 1; referees: awaiting peer review] F1000Research 2016, 5:692 (doi: 10.12688/f1000research.8414.1) Figure 3.

# L'analyse des résultats

- Données mises à disposition par l'Univ Utrecht
  - Réponses fermées séparées des réponses en champs libres
- Données France / INRA
  - Analyse des données fermées de l'enquête (homogénéité)
- Analyse du champ libre seul
  - Analyse des réponses ouvertes uniquement pour comparer France/INRA

# Discovery Search : quels outils pour rechercher la littérature ?

Choose as many as you like



Search literature / data / etc (PRESET ANSWERS)

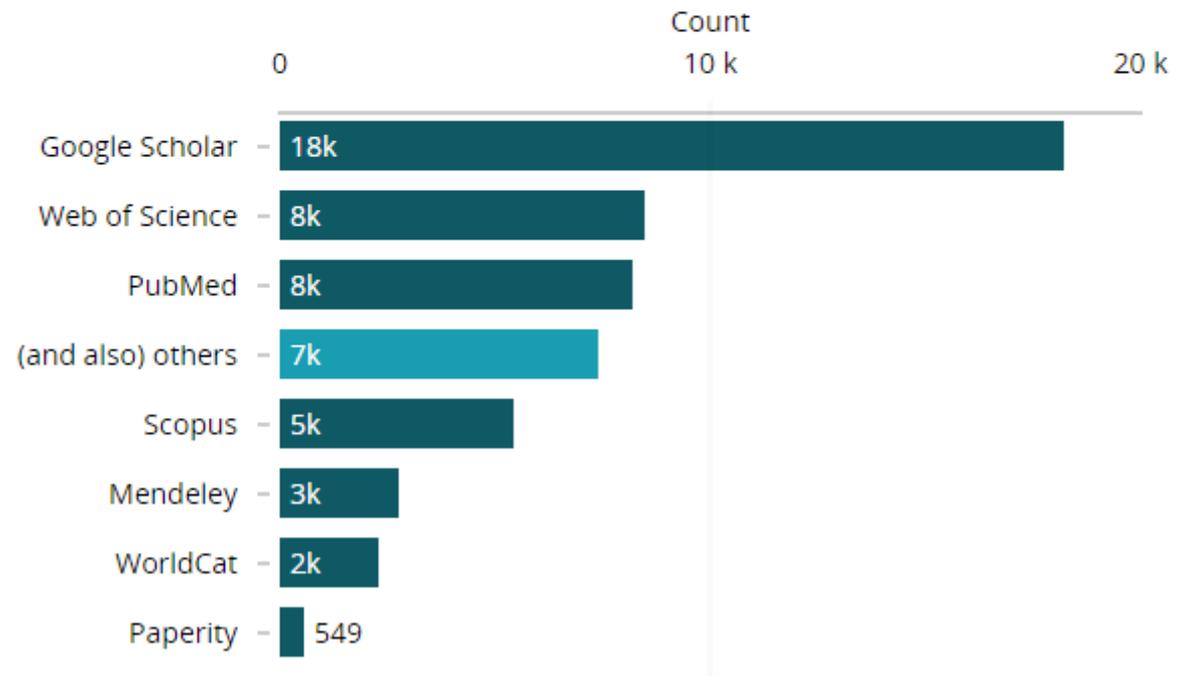
SHARE & EMBED EXPLORE

Filter by Research role

Filter by Discipline(s)

Filter by Year of first scholarly publication

Filter by Country of current (or last) affiliation?



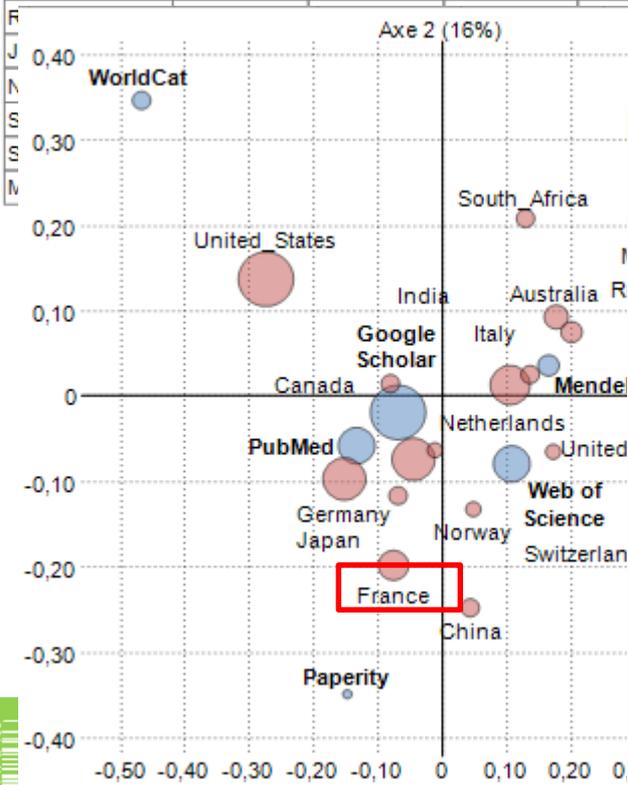
Discovery: search literature, data, etc.

|                | Google Scholar | PubMed | Web of Science | Scopus | Mendeley | WorldCat | Paperity |
|----------------|----------------|--------|----------------|--------|----------|----------|----------|
| United_States  | 3 069          | 1 549  | 1 144          | 453    | 327      | 834      | 48       |
| Netherlands    | 1 817          | 1 193  | 854            | 430    | 341      | 215      | 54       |
| Germany        | 2 079          | 697    | 724            | 265    | 245      | 267      | 147      |
| United_Kingdom | 1 480          | 673    | 765            | 482    | 285      | 158      | 9        |
| France         | 965            | 555    | 514            | 150    | 106      | 72       | 35       |
| Spain          | 584            | 222    | 490            | 407    | 163      | 37       | 17       |
| Australia      | 522            | 247    | 257            | 241    | 72       | 63       | 3        |
| Brazil         | 441            | 197    | 291            | 230    | 87       | 20       | 10       |
| Italy          | 445            | 188    | 210            | 209    | 67       | 49       | 13       |
| Canada         | 399            | 203    | 189            | 91     | 50       | 68       | 8        |
| India          | 408            | 171    | 104            | 148    | 61       | 23       | 10       |
| China          | 337            | 152    | 249            | 62     | 13       | 12       | 5        |
| Greece         | 277            | 99     | 138            | 192    | 68       | 14       | 13       |
| South_Africa   | 306            | 93     | 122            | 128    | 63       | 58       | 7        |
|                |                |        |                |        |          | 27       | 10       |
|                |                |        |                |        |          | 24       | 5        |
|                |                |        |                |        |          | 19       | 9        |

En bleu : sur-représenté / effectif

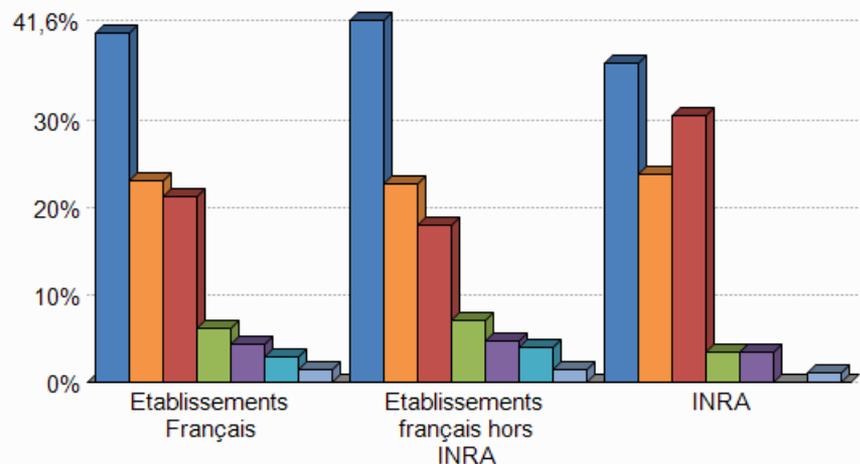
En rose sous représenté/effectif

Web of Science, Pubmed prédominant en France



Discovery: search literature, data, etc.

|                                   | Google Scholar | PubMed | Web of Science | Scopus | Mendeley | WorldCat | Paperity |
|-----------------------------------|----------------|--------|----------------|--------|----------|----------|----------|
| Etablissements Français           | 965            | 555    | 514            | 150    | 106      | 72       | 35       |
| Etablissements français hors INRA | 734            | 404    | 319            | 127    | 84       | 71       | 27       |
| INRA                              | 232            | 152    | 195            | 23     | 22       | 1        | 8        |



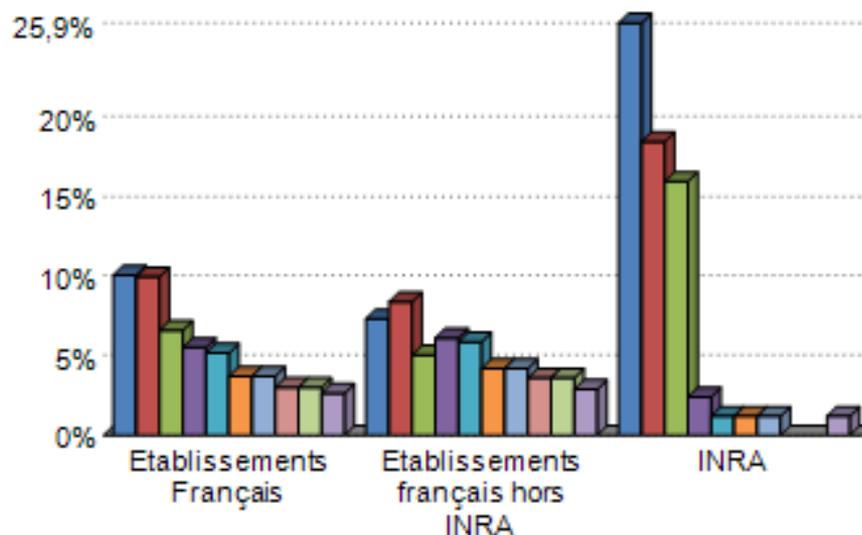
# Analyse factorielle des correspondances (AFC)

Afin de déterminer s'il existe un lien entre les modalités de 2 variables nominales, on compare les effectifs réels d'un tableau croisé avec les effectifs théoriques que l'on aurait obtenus si ces modalités étaient répartis proportionnellement. Si l'effectif obtenu au croisement de 2 modalités est supérieur à celui obtenu théoriquement alors il y a un lien positif entre les 2 modalités (valeurs en bleu), si l'effectif est inférieur à celui attendu théoriquement alors le lien entre les 2 variables est négatif (valeurs en rose). Le test statistique Chi2 est utilisé pour mesurer l'écart entre les effectifs obtenus et ceux attendus en cas de répartition proportionnelle. L'AFC consiste à représenter sur une carte à 2 dimensions les données du tableau, c'est à dire les modalités des 2 variables nominales. Les modalités sont représentées par des cercles de tailles proportionnelles à leurs effectifs et les distances entre les modalités reflètent les liens positifs (proximité) ou négatifs (éloignement) calculés dans le tableau par le test Chi2.

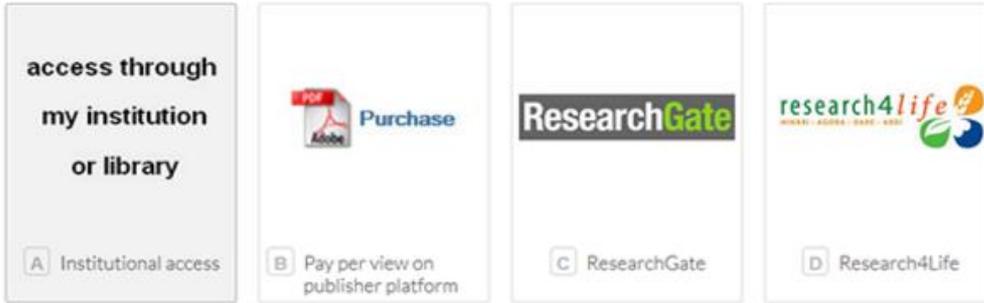
# Analyse du champ libre - France

Discovery: search literature, data, etc.

|               | Etablissements Français |               | Etablissements français hors INRA |               | INRA      |               |
|---------------|-------------------------|---------------|-----------------------------------|---------------|-----------|---------------|
|               | N                       | % cit.        | N                                 | % cit.        | N         | % cit.        |
| ResearchGate  | 56                      | 10,1%         | 35                                | 7,4%          | 21        | 25,9%         |
| ScienceDirect | 55                      | 10,0%         | 40                                | 8,5%          | 15        | 18,5%         |
| Google        | 37                      | 6,7%          | 24                                | 5,1%          | 13        | 16,0%         |
| CAIRN         | 31                      | 5,6%          | 29                                | 6,2%          | 2         | 2,5%          |
| EBSCO         | 29                      | 5,3%          | 28                                | 5,9%          | 1         | 1,2%          |
| HAL           | 21                      | 3,8%          | 20                                | 4,2%          | 1         | 1,2%          |
| Sudoc         | 21                      | 3,8%          | 20                                | 4,2%          | 1         | 1,2%          |
| arXiv         | 17                      | 3,1%          | 17                                | 3,6%          | 0         | 0,0%          |
| JSTOR         | 17                      | 3,1%          | 17                                | 3,6%          | 0         | 0,0%          |
| CAS           | 15                      | 2,7%          | 14                                | 3,0%          | 1         | 1,2%          |
| <b>Total</b>  | <b>552</b>              | <b>100,0%</b> | <b>471</b>                        | <b>100,0%</b> | <b>81</b> | <b>100,0%</b> |



# Accès :quels outils pour accéder à la littérature ?



## Access literature etc. (PRESET ANSWERS)

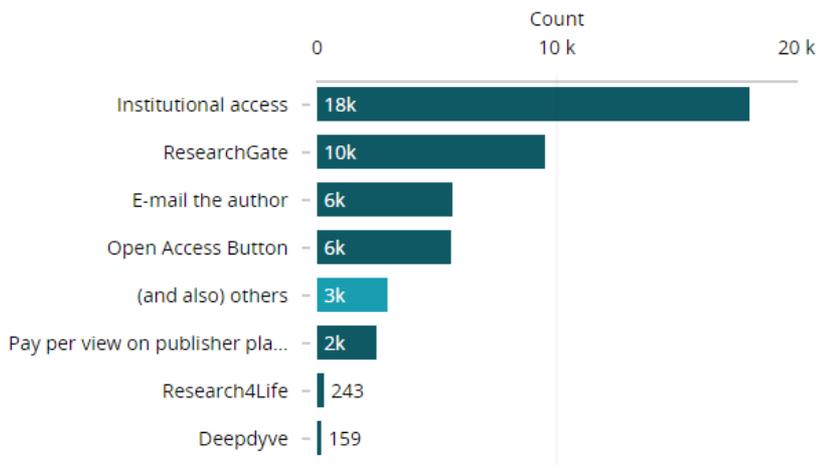
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Filter by Research role

Filter by Discipline(s)

Filter by Year of first scholarly publication

Filter by Country of current (or last) affiliation?



## Access literature etc. (OTHERS)

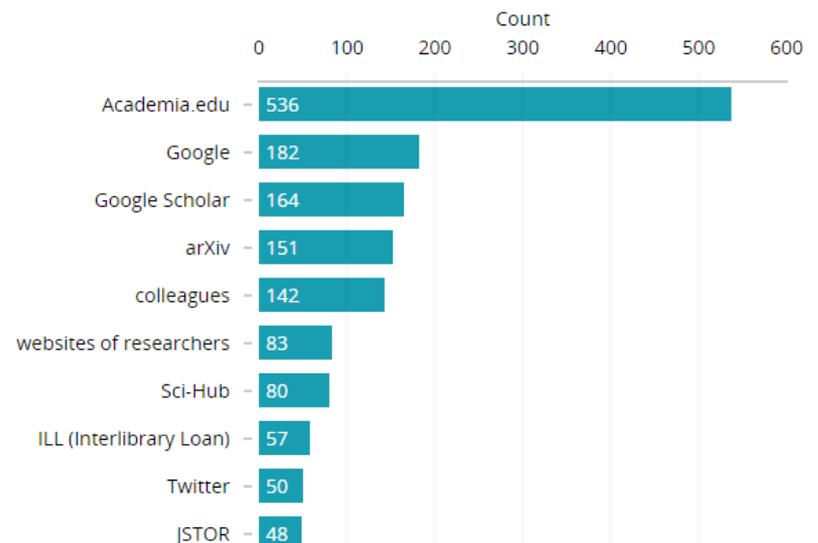
SHARE & EMBED EXPLORE

Filter by Research role

Filter by Discipline(s)

Filter by Year of first scholarly publication

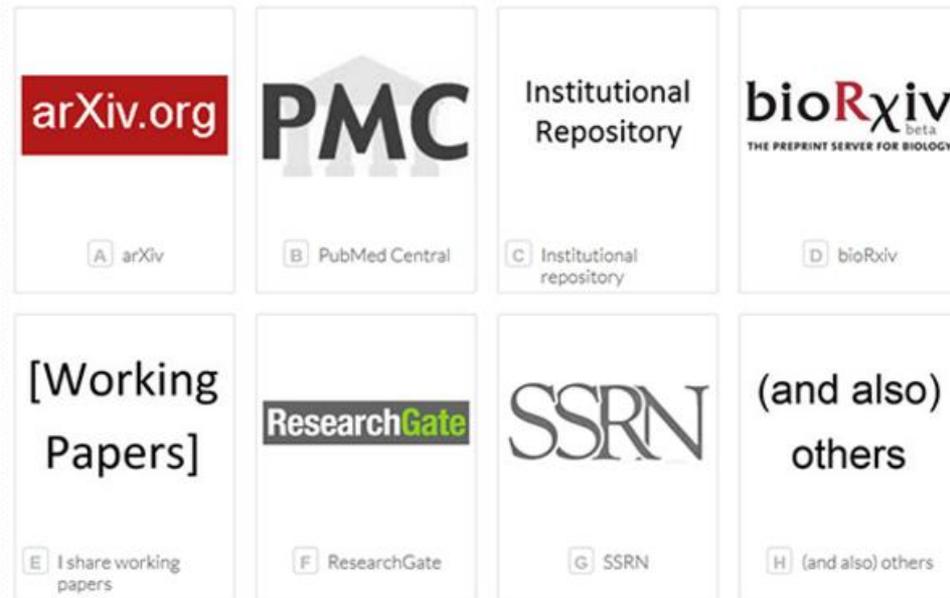
Filter by Country of current (or last) affiliation?



20188 of 20663 respondents answered this question

# Publication : archiver, partager

Ch



## Archive / share publications (OTHERS)

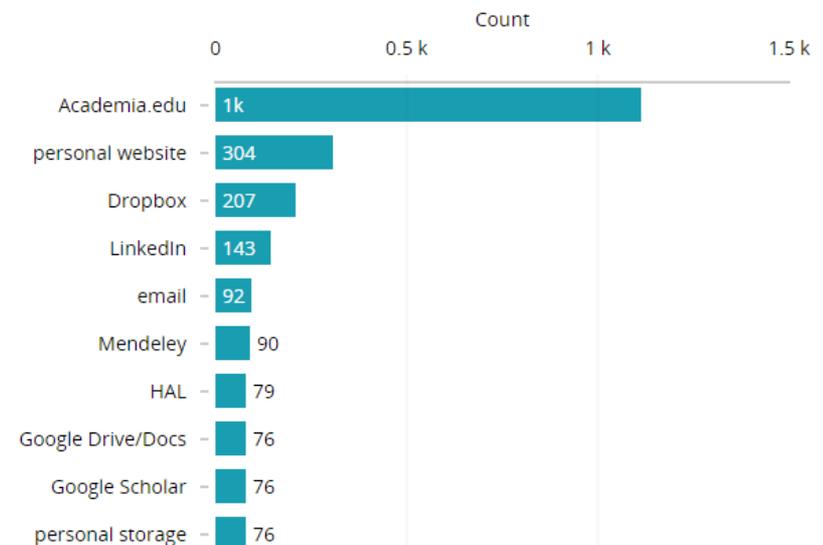
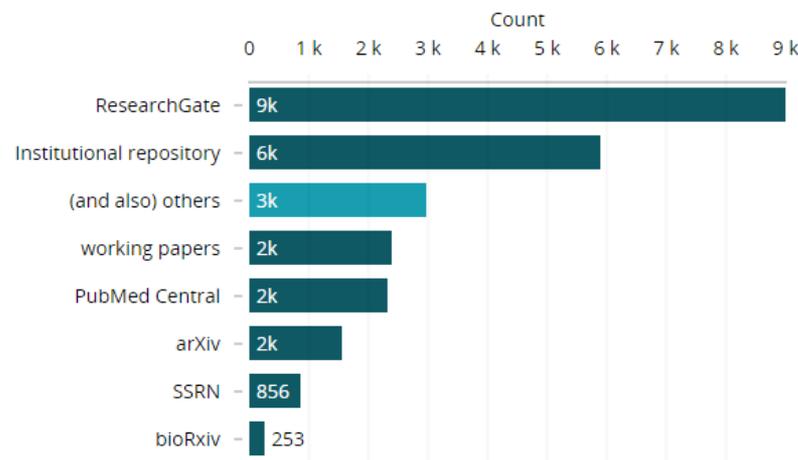
SHARE & EMBED EXPLORE

Filter by Research role

Filter by Discipline(s)

Filter by Year of first scholarly publication

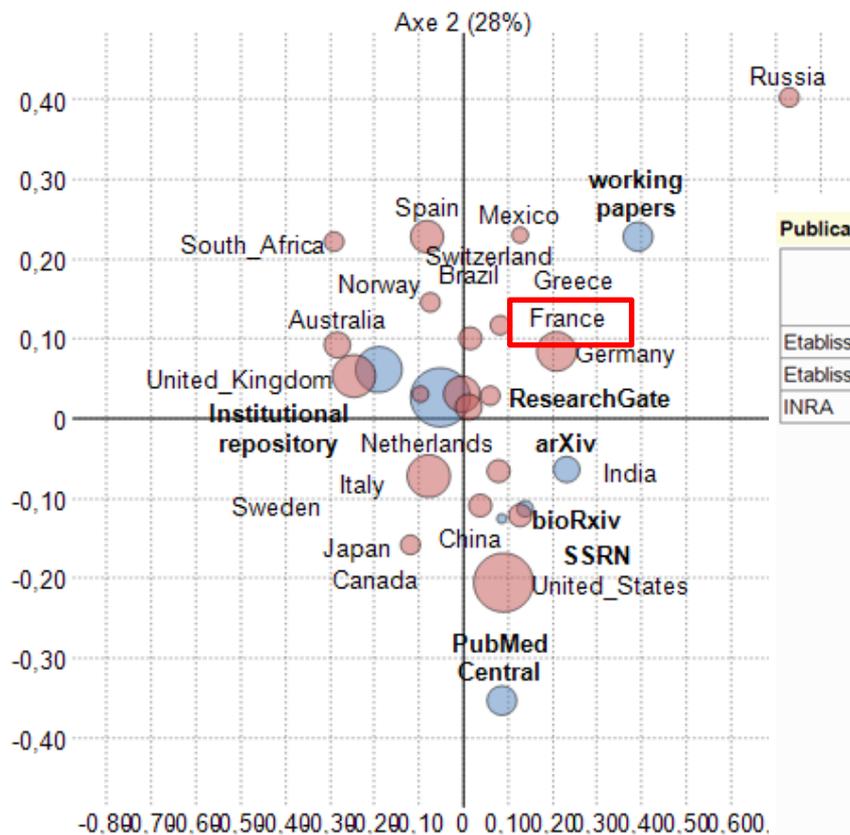
Filter by Country of current (or last) affiliation?



15341 of 20663 respondents answered this question

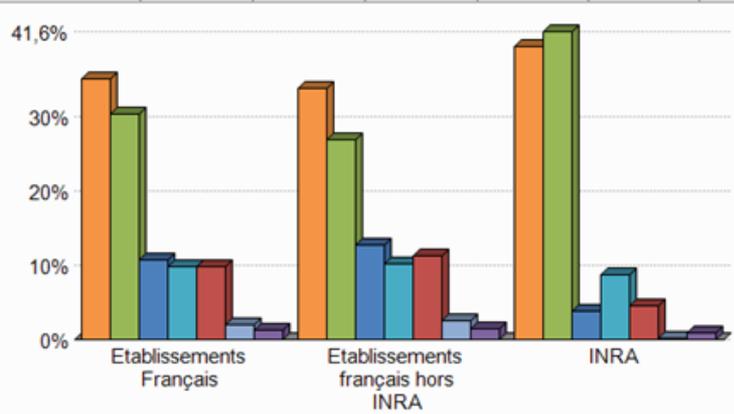
Publication: archive, share publication

|                | ResearchGate          | Institutional repository | PubMed Central      | working papers      | arXiv               | SSRN                | bioRxiv            |
|----------------|-----------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| United_States  | <a href="#">1 234</a> | <a href="#">791</a>      | <a href="#">579</a> | <a href="#">299</a> | <a href="#">320</a> | <a href="#">163</a> | <a href="#">67</a> |
| United_Kingdom | <a href="#">763</a>   | <a href="#">772</a>      | <a href="#">170</a> | <a href="#">117</a> | <a href="#">118</a> | <a href="#">51</a>  | <a href="#">36</a> |
| Netherlands    | <a href="#">949</a>   | <a href="#">465</a>      | <a href="#">260</a> | <a href="#">146</a> | <a href="#">87</a>  | <a href="#">70</a>  | <a href="#">11</a> |
| Germany        | <a href="#">600</a>   | <a href="#">346</a>      | <a href="#">151</a> | <a href="#">242</a> | <a href="#">174</a> | <a href="#">47</a>  | <a href="#">20</a> |
| France         | <a href="#">458</a>   | <a href="#">396</a>      | <a href="#">128</a> | <a href="#">128</a> | <a href="#">140</a> | <a href="#">27</a>  | <a href="#">18</a> |
| Spain          | <a href="#">447</a>   | <a href="#">338</a>      | <a href="#">54</a>  | <a href="#">130</a> | <a href="#">49</a>  | <a href="#">32</a>  | <a href="#">8</a>  |
| Australia      | <a href="#">289</a>   | <a href="#">252</a>      | <a href="#">47</a>  | <a href="#">36</a>  | <a href="#">28</a>  | <a href="#">22</a>  | <a href="#">9</a>  |
| Italy          | <a href="#">278</a>   | <a href="#">163</a>      | <a href="#">60</a>  | <a href="#">63</a>  | <a href="#">43</a>  | <a href="#">49</a>  | <a href="#">5</a>  |
| India          | <a href="#">257</a>   | <a href="#">127</a>      | <a href="#">77</a>  | <a href="#">64</a>  | <a href="#">34</a>  | <a href="#">43</a>  | <a href="#">4</a>  |
| Brazil         | <a href="#">299</a>   | <a href="#">115</a>      | <a href="#">52</a>  | <a href="#">68</a>  | <a href="#">24</a>  | <a href="#">15</a>  | <a href="#">2</a>  |
| China          | <a href="#">171</a>   | <a href="#">122</a>      | <a href="#">82</a>  | <a href="#">60</a>  | <a href="#">44</a>  | <a href="#">18</a>  | <a href="#">4</a>  |
| Canada         | <a href="#">101</a>   | <a href="#">121</a>      | <a href="#">72</a>  | <a href="#">48</a>  | <a href="#">33</a>  | <a href="#">25</a>  | <a href="#">8</a>  |

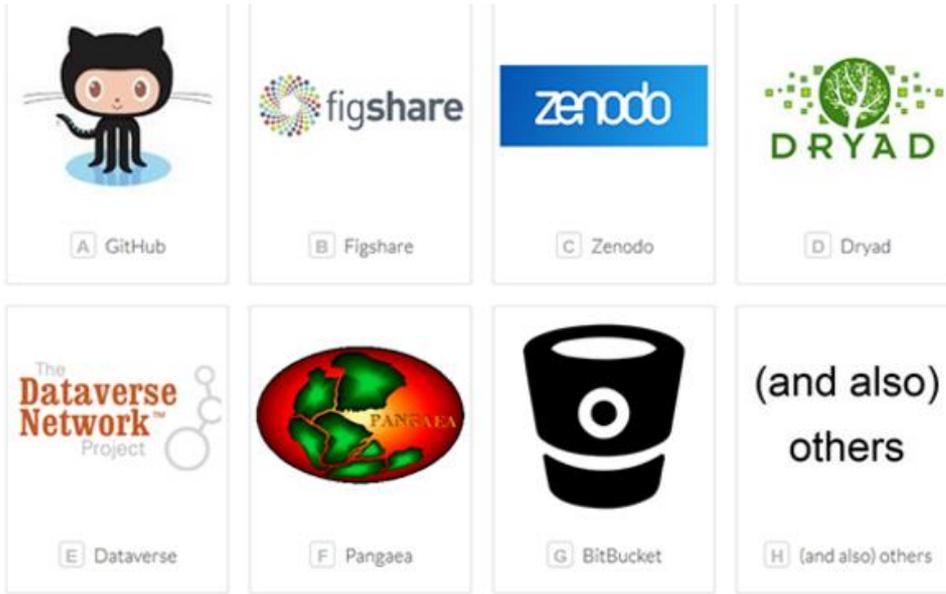


Publication: archive, share publication

|                                   | ResearchGate        | Institutional repository | arXiv               | working papers      | PubMed Central      | SSRN               | bioRxiv            |
|-----------------------------------|---------------------|--------------------------|---------------------|---------------------|---------------------|--------------------|--------------------|
| Etablissements Français           | <a href="#">458</a> | <a href="#">396</a>      | <a href="#">140</a> | <a href="#">128</a> | <a href="#">128</a> | <a href="#">27</a> | <a href="#">18</a> |
| Etablissements français hors INRA | <a href="#">338</a> | <a href="#">269</a>      | <a href="#">128</a> | <a href="#">102</a> | <a href="#">114</a> | <a href="#">26</a> | <a href="#">15</a> |
| INRA                              | <a href="#">121</a> | <a href="#">127</a>      | <a href="#">12</a>  | <a href="#">27</a>  | <a href="#">14</a>  | <a href="#">1</a>  | <a href="#">3</a>  |



# Données et code : archiver, partager



## re data & code (OTHERS)



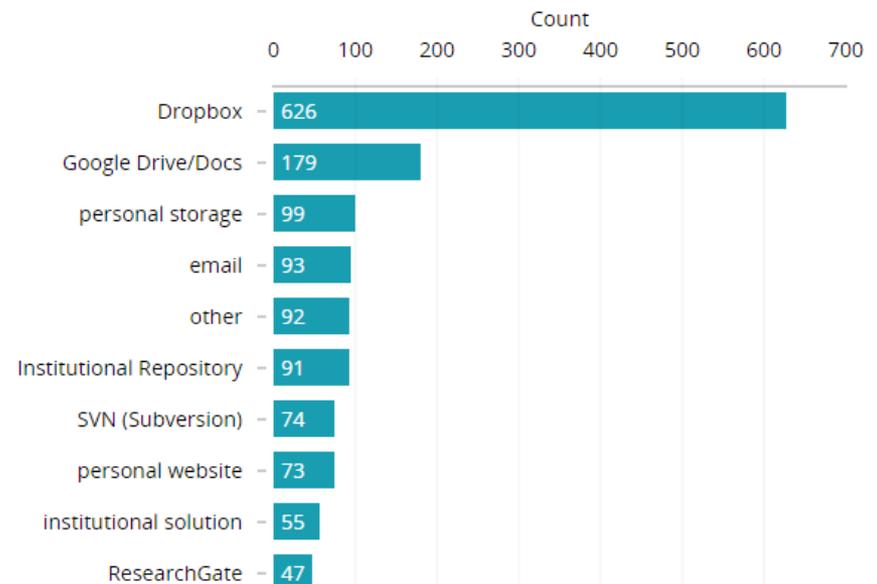
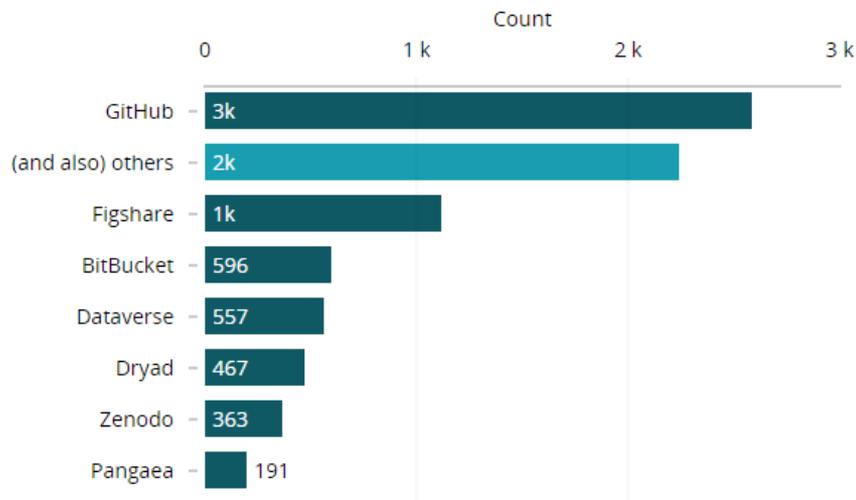
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Search role

Filter by Discipline(s)

Year of first scholarly publication

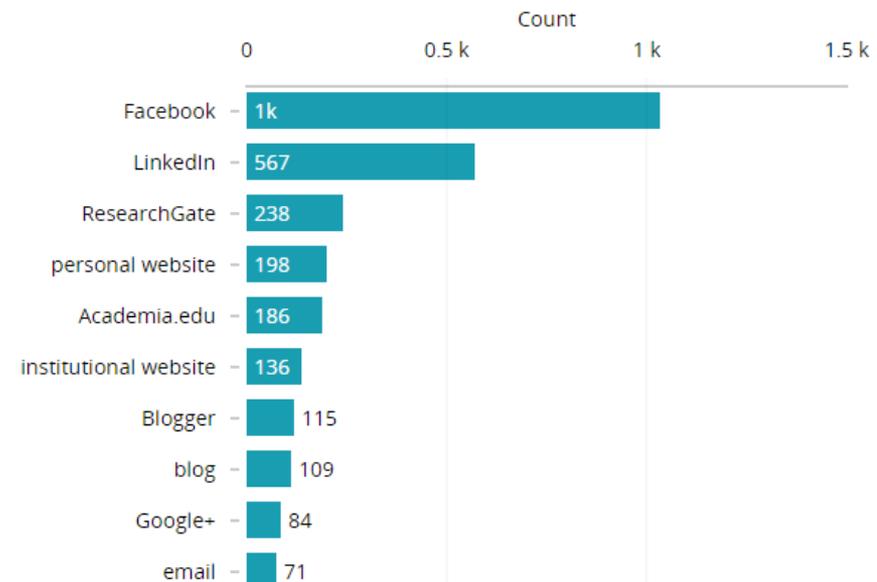
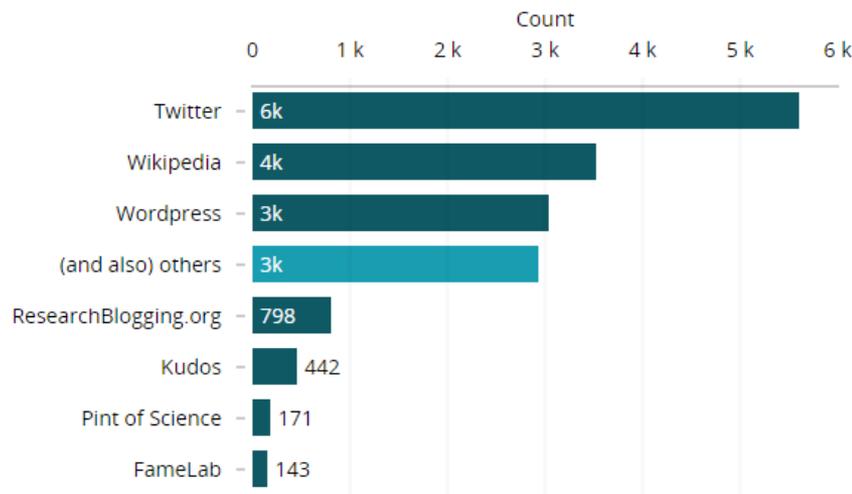
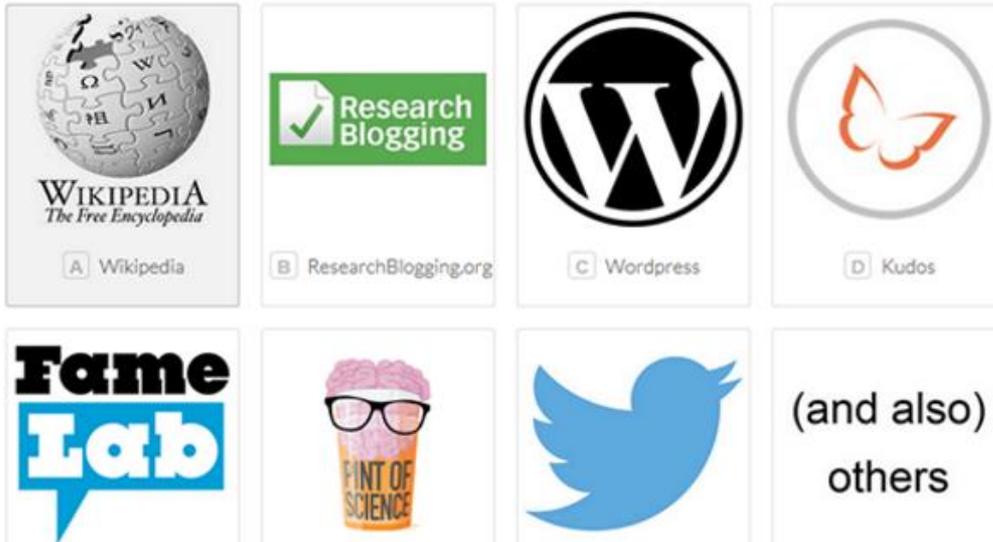
Year of current (or last) affiliation?



6156 of 20663 respondents answered this question

# Outreach – valorisation en dehors du monde académique

Choose as many as you like

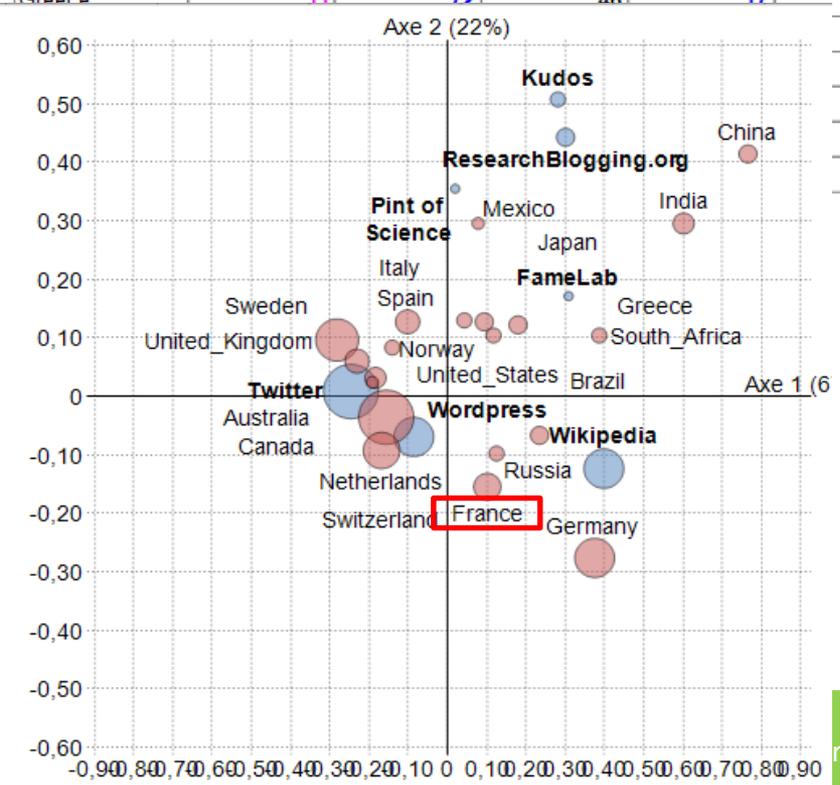


10744 of 20663 respondents answered this question

Outreach: tell about resarch outside academia

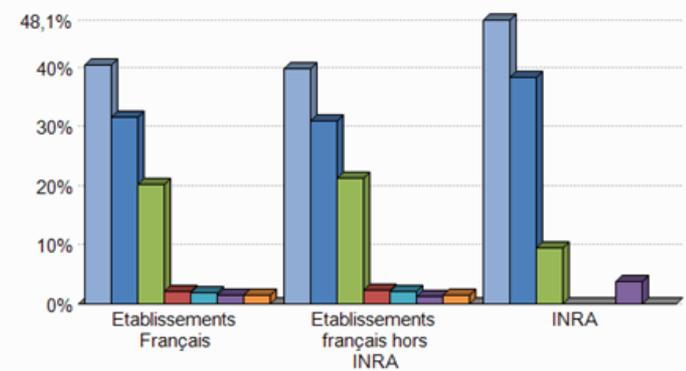
|                | Twitter               | Wikipedia           | Wordpress           | ResearchBloggng.org | Kudos              | Pint of Science    | FameLab            |
|----------------|-----------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|
| United_States  | <a href="#">1 125</a> | <a href="#">450</a> | <a href="#">602</a> | <a href="#">94</a>  | <a href="#">51</a> | <a href="#">22</a> | <a href="#">9</a>  |
| United_Kingdom | <a href="#">851</a>   | <a href="#">205</a> | 348                 | 65                  | 44                 | <a href="#">38</a> | 14                 |
| Germany        | <a href="#">365</a>   | <a href="#">569</a> | 299                 | <a href="#">39</a>  | <a href="#">20</a> | 9                  | 10                 |
| Netherlands    | <a href="#">523</a>   | <a href="#">214</a> | <a href="#">280</a> | <a href="#">39</a>  | <a href="#">11</a> | 8                  | 6                  |
| France         | <a href="#">246</a>   | <a href="#">192</a> | 123                 | <a href="#">13</a>  | 10                 | 9                  | <a href="#">12</a> |
| Spain          | <a href="#">231</a>   | <a href="#">90</a>  | 114                 | 31                  | 20                 | 8                  | 4                  |
| Australia      | <a href="#">237</a>   | <a href="#">69</a>  | 96                  | 17                  | 18                 | 2                  | 2                  |
| Canada         | <a href="#">176</a>   | <a href="#">60</a>  | 86                  | 20                  | 8                  | 2                  | 2                  |
| India          | <a href="#">69</a>    | <a href="#">138</a> | <a href="#">58</a>  | <a href="#">49</a>  | <a href="#">26</a> | 2                  | 5                  |
| Italy          | 115                   | 76                  | 80                  | 23                  | 15                 | 5                  | 5                  |
| Brazil         | <a href="#">104</a>   | 82                  | 69                  | <a href="#">25</a>  | <a href="#">15</a> | 1                  | 5                  |
| China          | <a href="#">44</a>    | <a href="#">133</a> | <a href="#">32</a>  | <a href="#">43</a>  | <a href="#">26</a> | <a href="#">12</a> | 4                  |
| Russia         | 91                    | <a href="#">88</a>  | 46                  | 12                  | 6                  | 4                  | <a href="#">6</a>  |
| Norway         | 112                   | <a href="#">40</a>  | 47                  | 16                  | 5                  | 1                  | 2                  |
| Greece         | <a href="#">53</a>    | <a href="#">72</a>  | 46                  | <a href="#">17</a>  | <a href="#">12</a> | 2                  | 4                  |

|                    |   |                   |
|--------------------|---|-------------------|
| <a href="#">14</a> | 5 | 2                 |
| 5                  | 5 | 4                 |
| 4                  | 1 | 2                 |
| 6                  | 1 | 0                 |
| 6                  | 3 | <a href="#">4</a> |



Outreach: tell about resarch outside academia

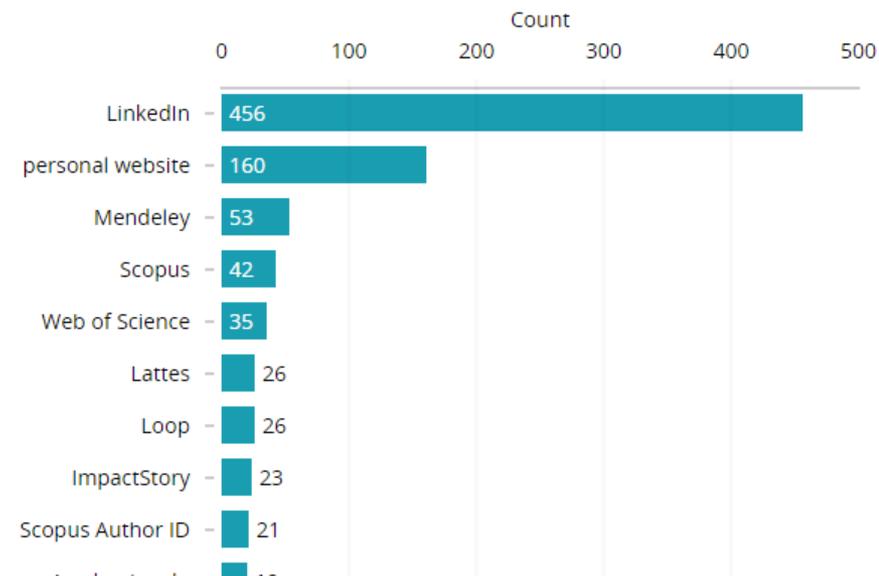
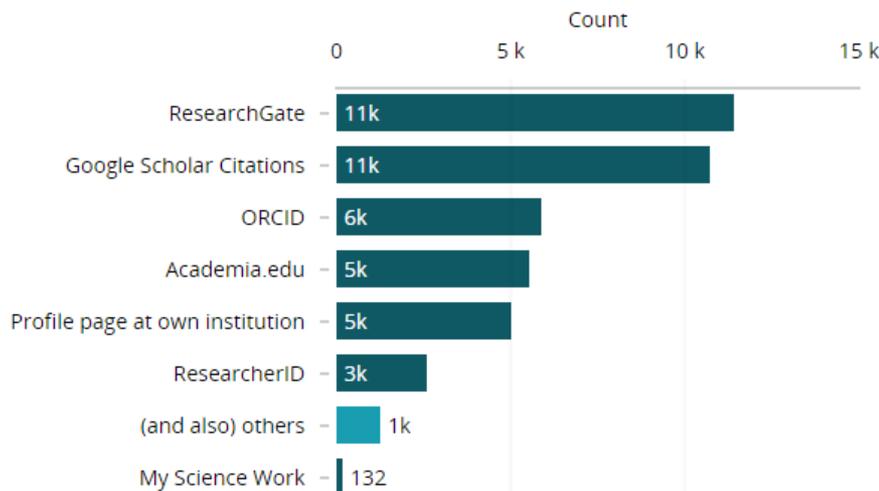
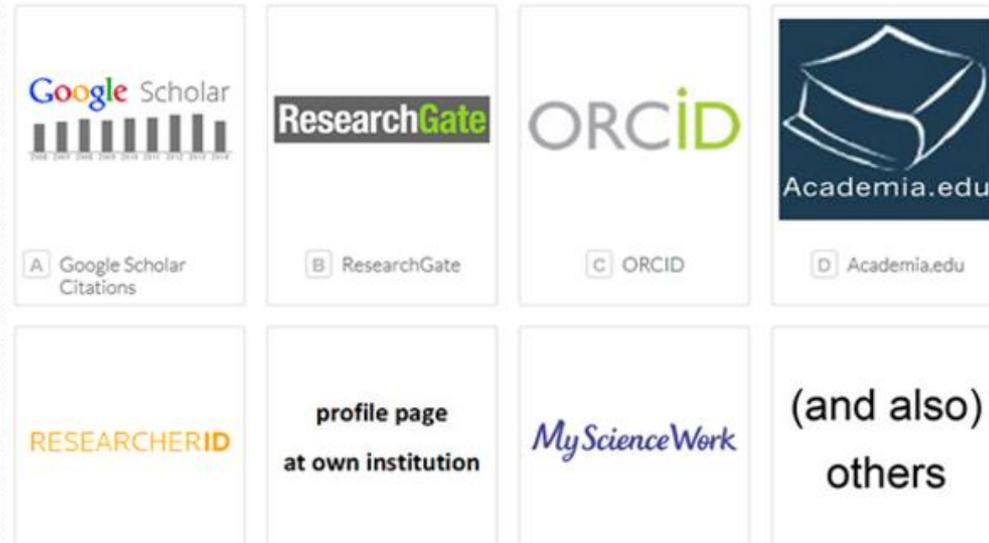
|                                   | Twitter | Wikipedia | Wordpress | ResearchBloggng.org | FameLab | Kudos | Pint of Science |
|-----------------------------------|---------|-----------|-----------|---------------------|---------|-------|-----------------|
| Etablissements Français           | 246     | 192       | 123       | 13                  | 12      | 10    | 9               |
| Etablissements français hors INRA | 221     | 172       | 118       | 13                  | 12      | 8     | 9               |
| INRA                              | 25      | 20        | 5         | 0                   | 0       | 2     | 0               |



rés

# Outreach – profil de chercheurs

Choose as many as you like

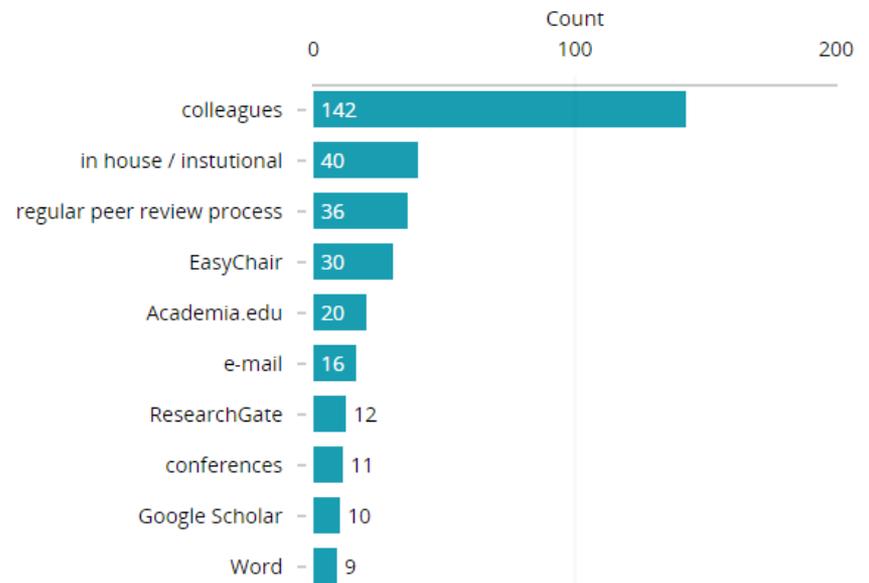
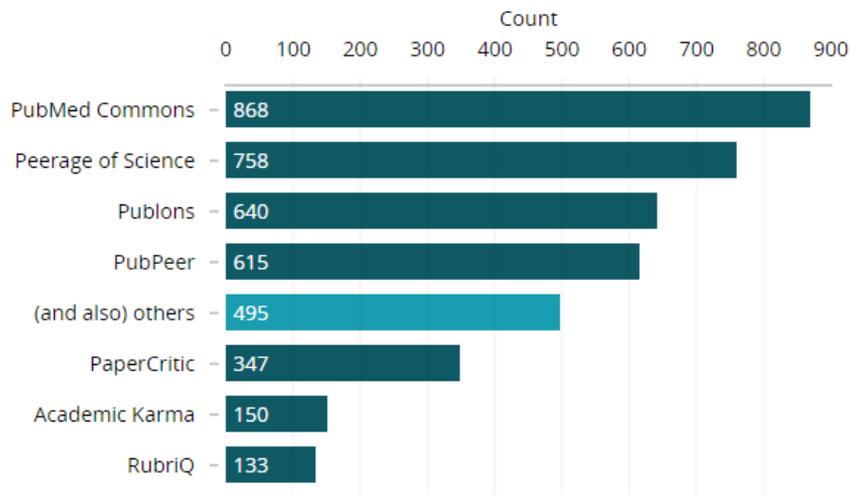
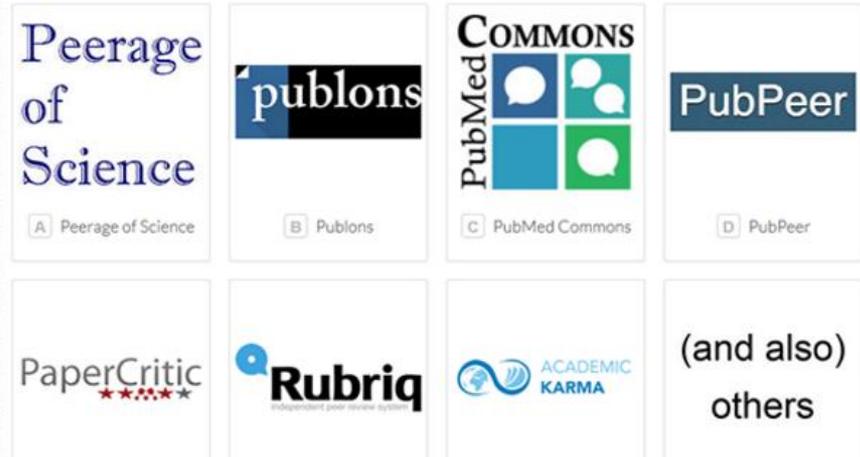


# Evaluation – Peer-review en dehors du journal

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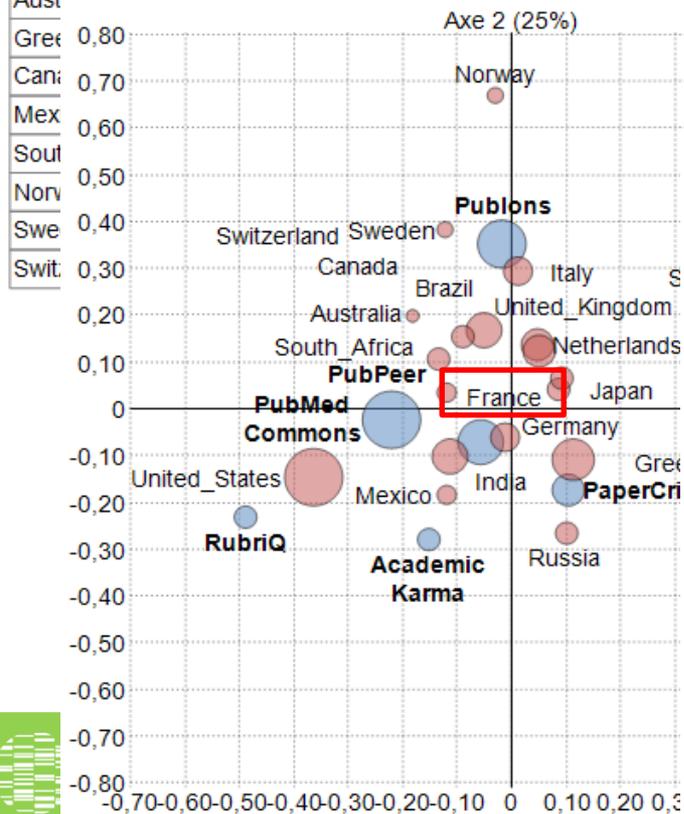
Choose as many as you like



3312 of 20663 respondents answered this question

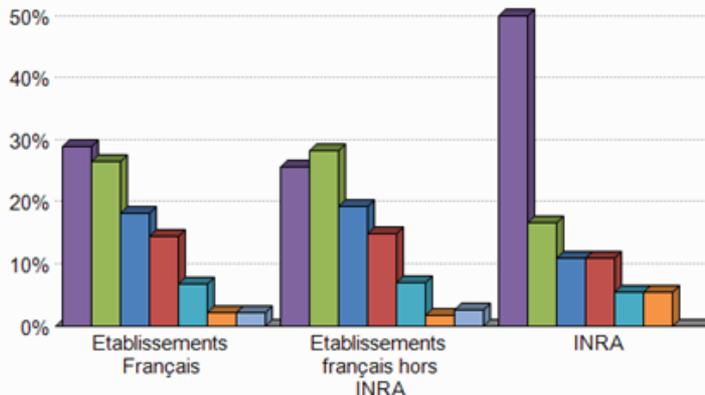
Assessment: peer review beyond that organized by journals

|                | PubMed Commons | Peerage of Science | Publons | PubPeer | PaperCritic | Academic Karma | RubriQ |
|----------------|----------------|--------------------|---------|---------|-------------|----------------|--------|
| United_States  | 173            | 41                 | 62      | 85      | 34          | 28             | 32     |
| Germany        | 51             | 52                 | 39      | 51      | 30          | 15             | 5      |
| China          | 34             | 92                 | 20      | 37      | 23          | 9              | 1      |
| United_Kingdom | 49             | 38                 | 49      | 31      | 5           | 8              | 11     |
| India          | 52             | 28                 | 28      | 30      | 18          | 10             | 9      |
| Netherlands    | 37             | 32                 | 35      | 31      | 10          | 1              | 6      |
| Brazil         | 43             | 29                 | 32      | 13      | 13          | 6              | 2      |
| France         | 35             | 24                 | 19      | 38      | 9           | 3              | 3      |
| Spain          | 26             | 41                 | 35      | 10      | 11          | 3              | 2      |
| Italy          | 34             | 19                 | 31      | 19      | 9           | 0              | 0      |
| Russia         | 16             | 19                 | 9       | 17      | 10          | 6              | 4      |
| Japan          | 20             | 18                 | 15      | 17      | 5           | 2              | 2      |
| Australia      | 11             | 11                 | 11      | 11      | 9           | 5              | 1      |
| Greece         | 8              | 8                  | 8       | 8       | 8           | 2              | 4      |
| Canada         | 2              | 2                  | 2       | 2       | 2           | 4              | 2      |
| Mexico         | 5              | 5                  | 5       | 5       | 5           | 2              | 5      |
| South Africa   | 11             | 11                 | 11      | 11      | 11          | 3              | 3      |



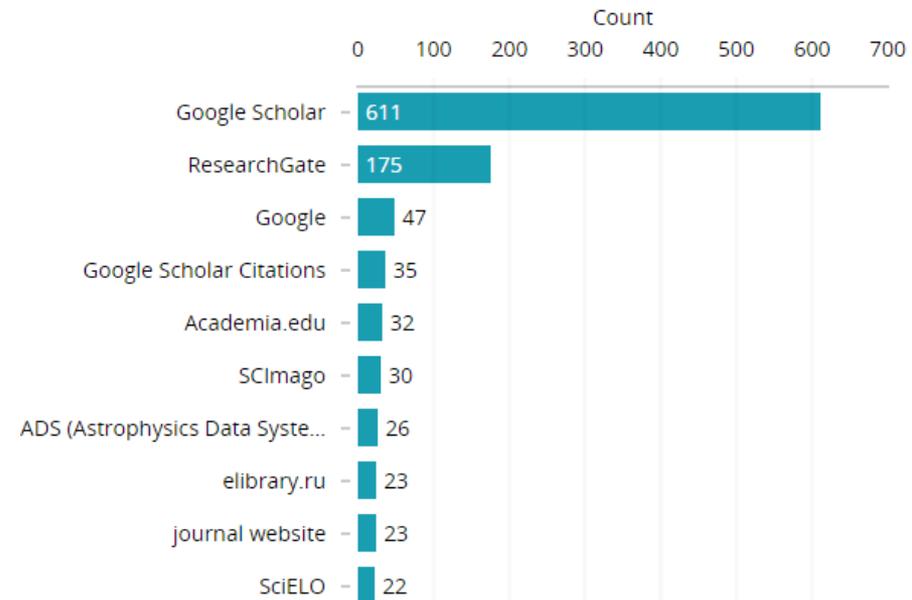
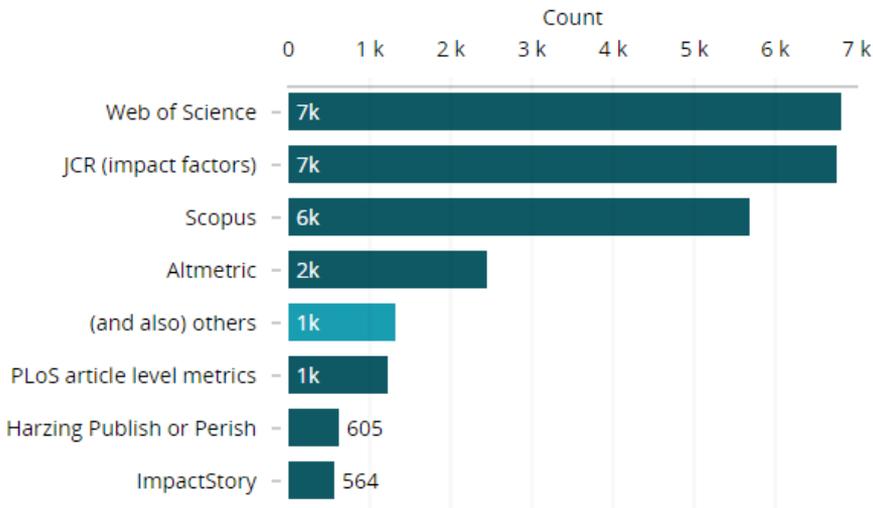
Assessment: peer review beyond that organized by journals

|                                   | PubPeer | PubMed Commons | Peerage of Science | Publons | PaperCritic | RubriQ | Academic Karma |
|-----------------------------------|---------|----------------|--------------------|---------|-------------|--------|----------------|
| Etablissements Français           | 38      | 35             | 24                 | 19      | 9           | 3      | 3              |
| Etablissements français hors INRA | 29      | 32             | 22                 | 17      | 8           | 2      | 3              |
| INRA                              | 9       | 3              | 2                  | 2       | 1           | 1      | 0              |



# Evaluation – mesure de l'impact

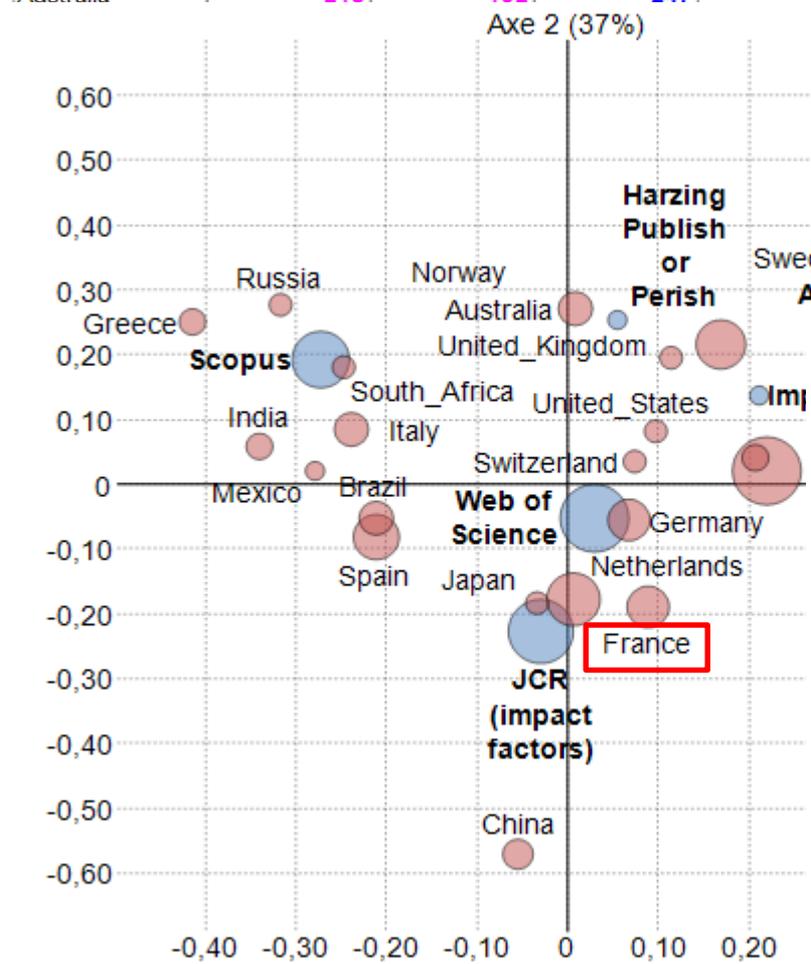
Choose as many as you like



12750 of 20663 respondents answered this question

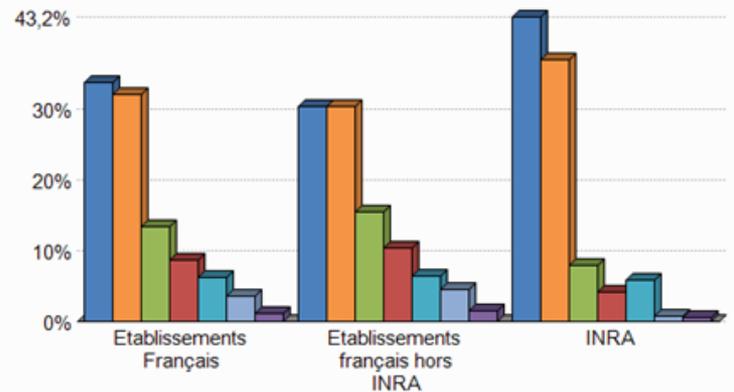
**Assessment: measure impact**

|                | Web of Science | JCR (impact factors) | Scopus | Altmetric | PLoS article level metrics | Harzing Publish or Perish | ImpactStory |
|----------------|----------------|----------------------|--------|-----------|----------------------------|---------------------------|-------------|
| United_States  | 882            | 905                  | 535    | 461       | 300                        | 84                        | 145         |
| Netherlands    | 691            | 645                  | 338    | 157       | 108                        | 40                        | 25          |
| United_Kingdom | 500            | 414                  | 421    | 377       | 115                        | 50                        | 51          |
| Spain          | 403            | 531                  | 423    | 120       | 38                         | 16                        | 25          |
| Germany        | 477            | 381                  | 247    | 143       | 87                         | 39                        | 25          |
| France         | 400            | 421                  | 168    | 109       | 79                         | 45                        | 16          |
| Brazil         | 232            | 312                  | 264    | 70        | 34                         | 14                        | 13          |
| Australia      | 215            | 192                  | 247    | 144       | 43                         | 49                        | 23          |



**Assessment: measure impact**

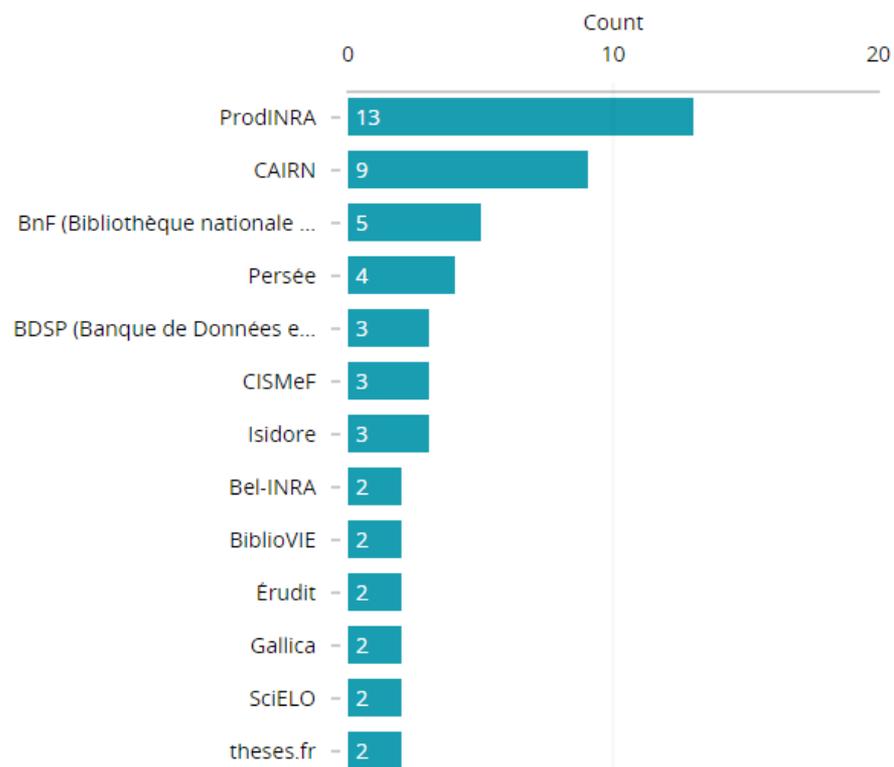
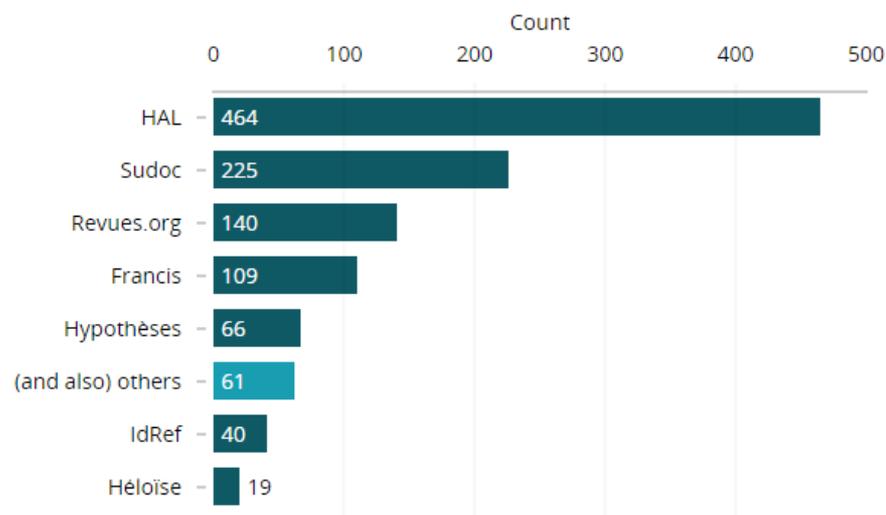
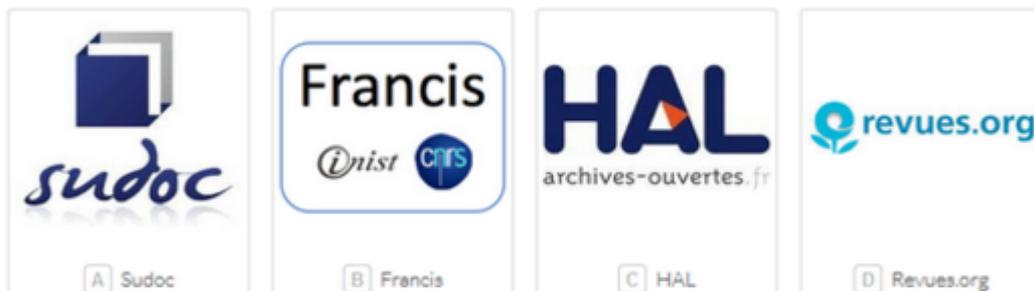
|                                   | JCR (impact factors) | Web of Science | Scopus | Altmetric | PLoS article level metrics | Harzing Publish or Perish | Impact Story |
|-----------------------------------|----------------------|----------------|--------|-----------|----------------------------|---------------------------|--------------|
| Etablissements Français           | 421                  | 400            | 168    | 109       | 79                         | 45                        | 16           |
| Etablissements français hors INRA | 277                  | 276            | 141    | 95        | 59                         | 42                        | 14           |
| INRA                              | 145                  | 125            | 27     | 14        | 20                         | 3                         | 2            |



# Outils spécifiques France

Quels sont les outils/sites que vous utilisez qui sont spécifiques de votre pays ou votre langue ?

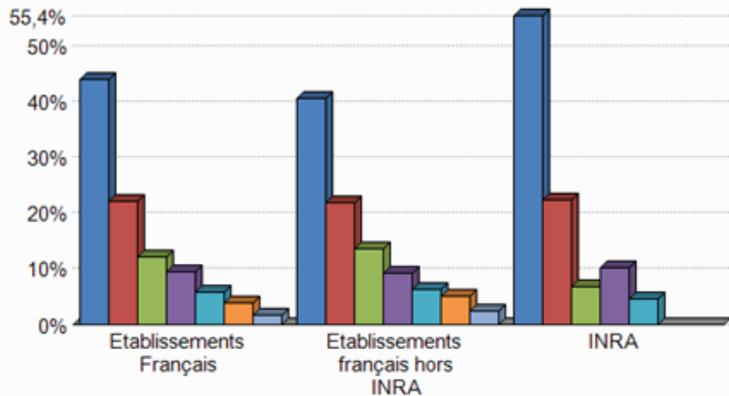
Choisissez-en autant que vous le voulez



582 of 955 respondents answered this question

Language-specific tools: french

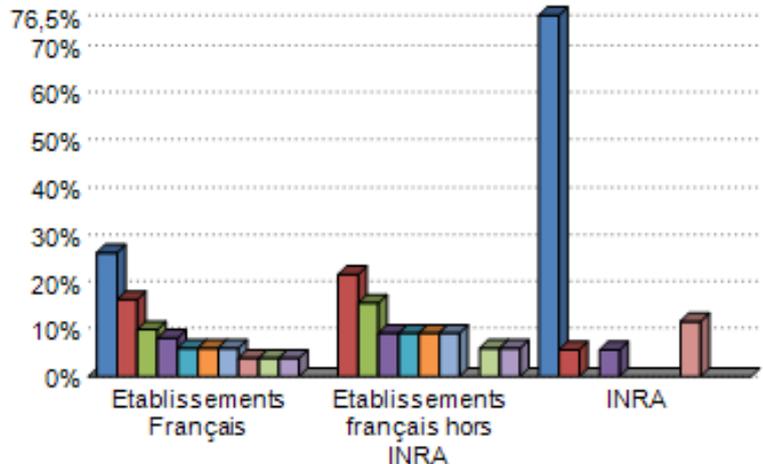
|                                   | HAL | Sudoc | Revue s.org | Francis | Hypothèses | IdRef | Héloïse |
|-----------------------------------|-----|-------|-------------|---------|------------|-------|---------|
| Etablissements Français           | 427 | 215   | 118         | 93      | 58         | 39    | 18      |
| Etablissements français hors INRA | 300 | 163   | 102         | 69      | 47         | 39    | 18      |
| INRA                              | 128 | 52    | 16          | 24      | 11         | 0     | 0       |



Analyse du champ réponses libres

Language-specific tools (french)

|              | Etablissements Français |               | Etablissements français hors INRA |               | INRA      |               |
|--------------|-------------------------|---------------|-----------------------------------|---------------|-----------|---------------|
|              | N                       | % cit.        | N                                 | % cit.        | N         | % cit.        |
| ProdINRA     | 13                      | 26,5%         | 0                                 | 0,0%          | 13        | 76,5%         |
| CAIRN        | 8                       | 16,3%         | 7                                 | 21,9%         | 1         | 5,9%          |
| BnF          | 5                       | 10,2%         | 5                                 | 15,6%         | 0         | 0,0%          |
| Persée       | 4                       | 8,2%          | 3                                 | 9,4%          | 1         | 5,9%          |
| BDSP         | 3                       | 6,1%          | 3                                 | 9,4%          | 0         | 0,0%          |
| CISMeF       | 3                       | 6,1%          | 3                                 | 9,4%          | 0         | 0,0%          |
| Isidore      | 3                       | 6,1%          | 3                                 | 9,4%          | 0         | 0,0%          |
| Bel_INRA     | 2                       | 4,1%          | 0                                 | 0,0%          | 2         | 11,8%         |
| BiblioVIE    | 2                       | 4,1%          | 2                                 | 6,3%          | 0         | 0,0%          |
| Érudit       | 2                       | 4,1%          | 2                                 | 6,3%          | 0         | 0,0%          |
| <b>Total</b> | <b>49</b>               | <b>100,0%</b> | <b>32</b>                         | <b>100,0%</b> | <b>17</b> | <b>100,0%</b> |



# Conclusions

- La divulgation de l'enquête par les institutions par des questionnaires personnalisés a renforcé son impact
- La mise à disposition des données permet une analyse plus fine
- Sur les répondants France : problème sur les rôles définis au départ, disparité dans les disciplines
- Des utilisations plutôt conservatrices mais apparition des nouveaux outils pour l'évaluation, la diffusion, le peer-review
- INRA : Utilisation des entrepôts institutionnels... et de Researchgate
- INRA : Utilisation des outils mis à disposition par l'INRA (Prodinra, Web Of Science)