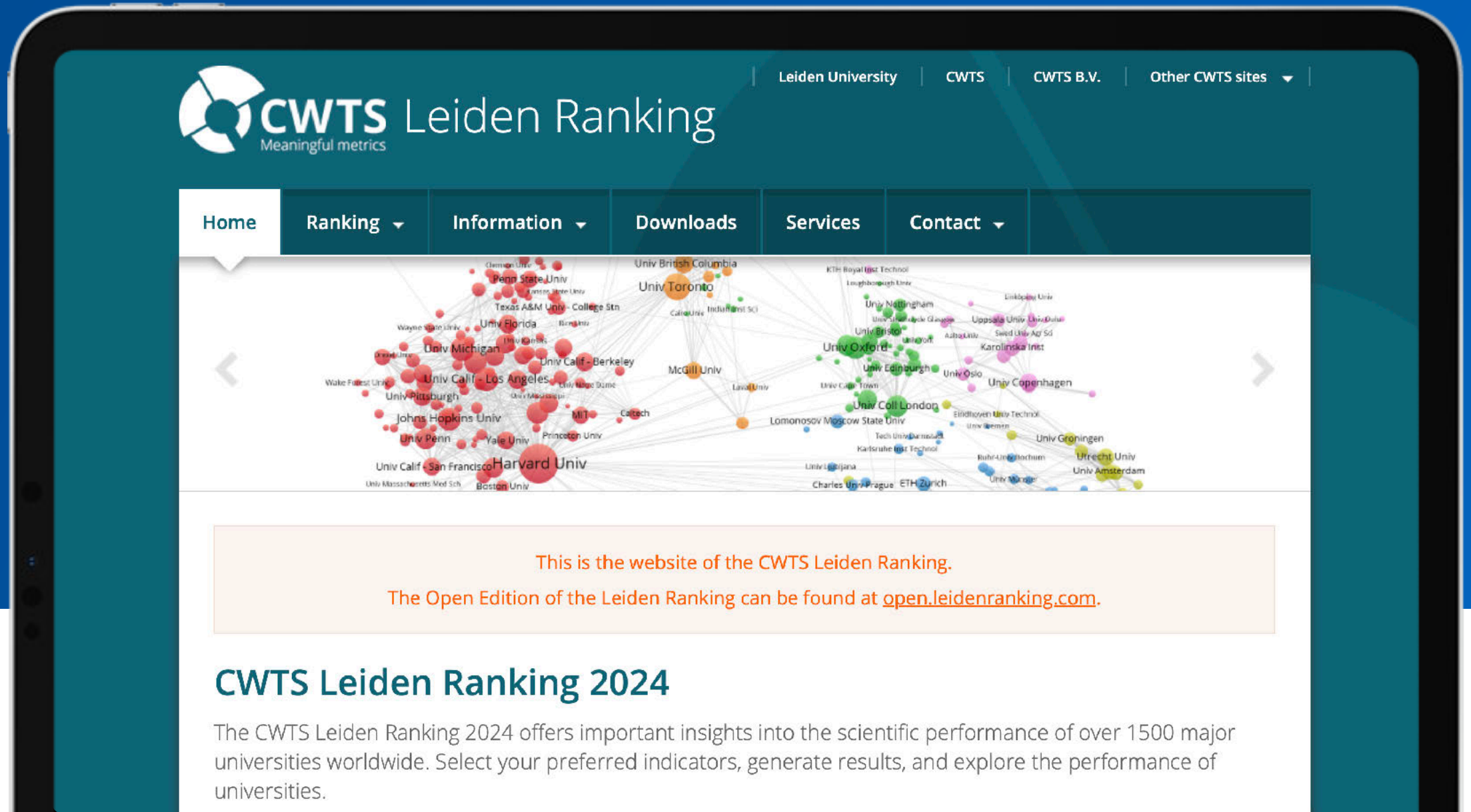
CWTS

Open Bibliometric Databases for the Leiden Ranking

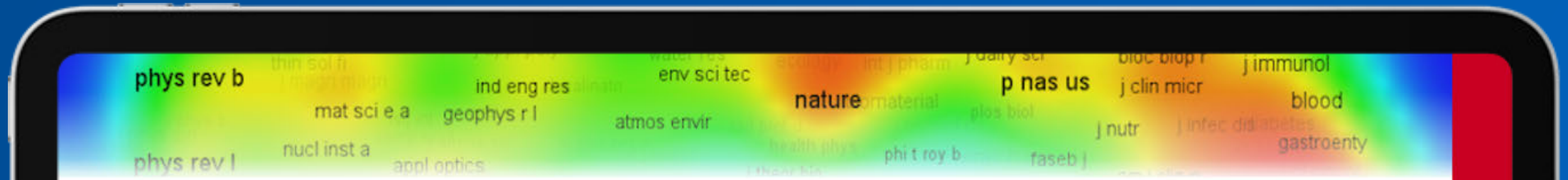
André Brasil

CNRS' Open Science Day - November, 2024

https://leidenranking.org



https://leidenranking.org



Universiteit Leiden

Welcome to the Leiden Ranking 2011/2012

The Leiden Ranking 2011/2012 measures the scientific performance of 500 major universities worldwide. Using a sophisticated set of bibliometric indicators, the ranking aims to provide highly accurate measurements of the scientific impact of universities and of universities' involvement in scientific collaboration. The ranking is based on over 25 years of bibliometric experience at the Centre for Science and Technology Studies (CWTS) of Leiden University.

Compared with other university rankings, the Leiden Ranking offers more advanced indicators of scientific impact and collaboration and uses a much more transparent **methodology**. Also, the Leiden Ranking does not rely on highly subjective data obtained from reputational surveys or on data provided by the universities themselves.

In comparsion with earlier editions of the Leiden Ranking, various improvements have been made in the Leiden Ranking

CWTS

Centrum voor Wetensch

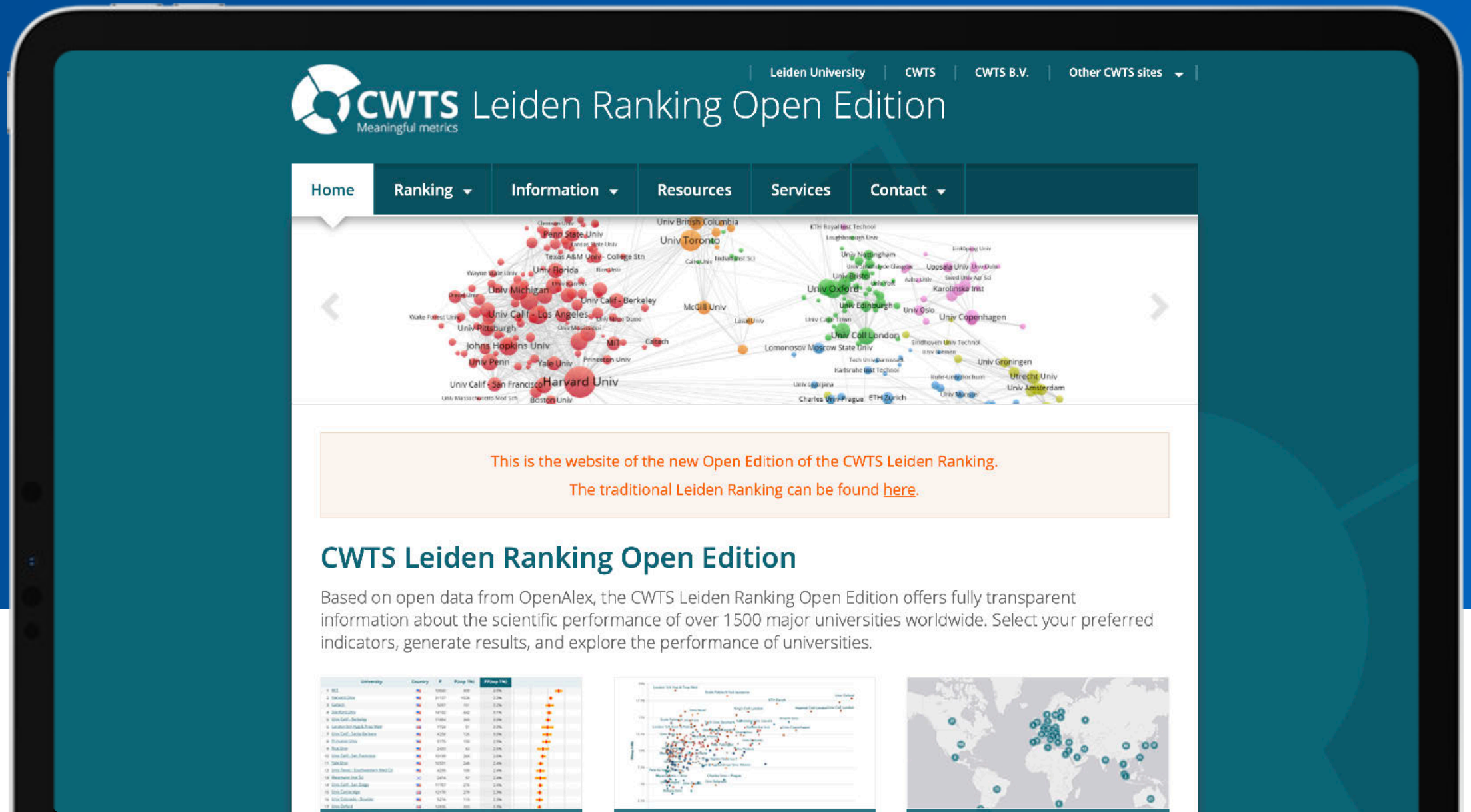
Origin and Purpose

- Response to Limitations: Developed to address the shortcomings of traditional rankings like the Shanghai Ranking.
- Multidimensional Perspective: Offers indicators on scientific impact, collaboration, and open access publishing.
- Avoiding "Black Box" Models: Moves beyond one-size-fits-all approaches, focusing on transparency and appropriate use of bibliometric data.
- Encourages responsible research assessment through open and transparent methodologies.

> From those rankings that are closest to the universities being assessed, the CWTS Leiden Ranking run by a university research group, and U-Multirank run by a consortium of European Universities, tended to better meet the community's expectations of fairness and responsibility.

— Elizabeth Gadd (2021)

https://open.leidenranking.org



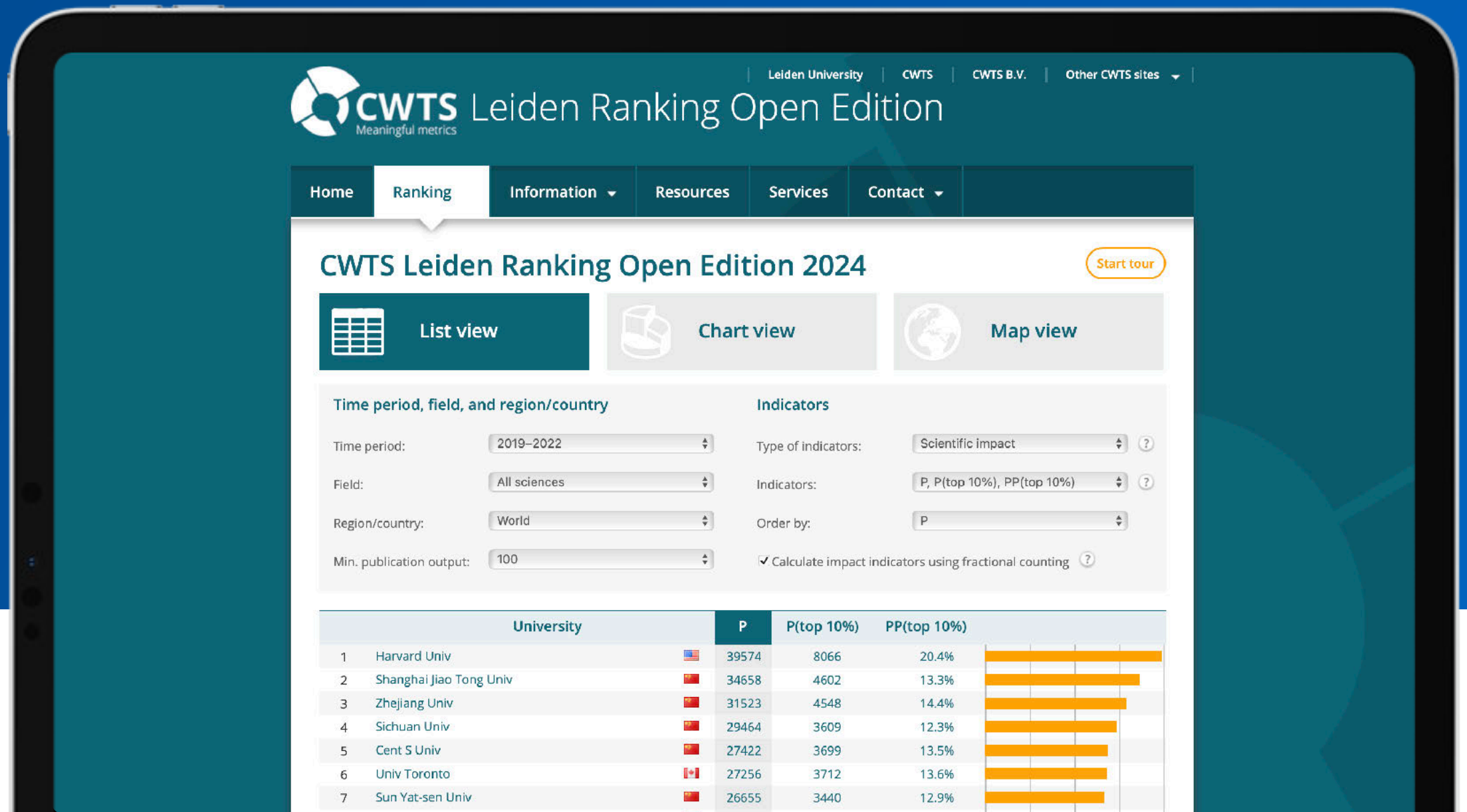
Some highlights

Replaces Web of Science with OpenAlex as the primary data source.

Covers the same 1506 universities as the traditional ranking.

Publishes algorithms alongside data for independent verification and analysis.

https://open.leidenranking.org



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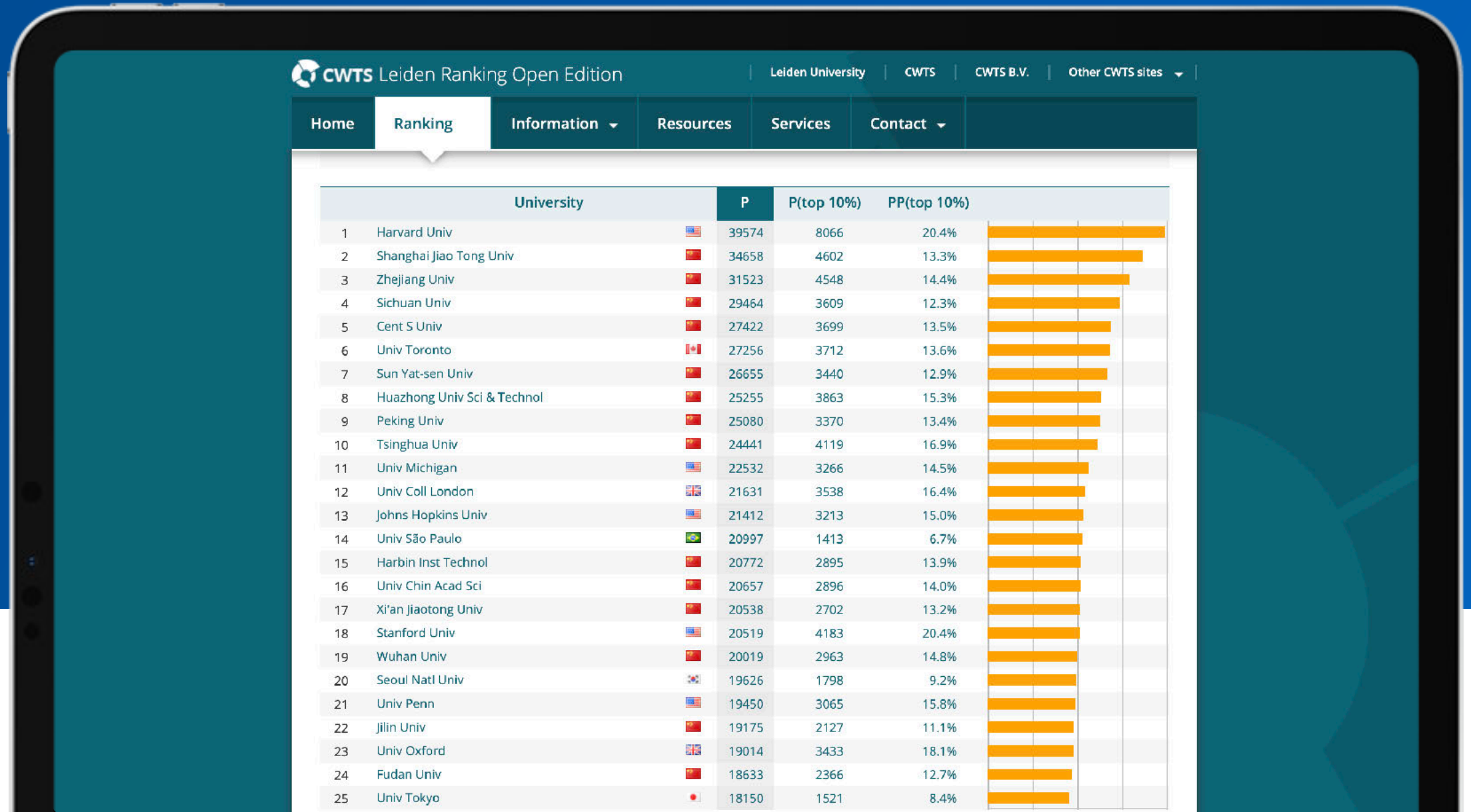

	University	P	P(top 10%)	PP(top 10%)
1	Harvard Univ	39574	8066	20.4%
2	Shanghai Jiao Tong Univ	34658	4602	13.3%
3	Zhejiang Univ	31523	4548	14.4%
4	Sichuan Univ	29464	3609	12.3%
5	Cent S Univ	27422	3699	13.5%
6	Univ Toronto	27256	3712	13.6%
7	Sun Yat-sen Univ	26655	3440	12.9%
8	Huazhong Univ Sci & Technol	25255	3863	15.3%
9	Peking Univ	25080	3370	13.4%
10	Tsinghua Univ	24441	4119	16.9%
11	Univ Michigan	22532	3266	14.5%
12	Univ Coll London	21631	3538	16.4%
13	Johns Hopkins Univ	21412	3213	15.0%
14	Univ São Paulo	20997	1413	6.7%
15	Harbin Inst Technol	20772	2895	13.9%
16	Univ Chin Acad Sci	20657	2896	14.0%
17	Xi'an Jiaotong Univ	20538	2702	13.2%
18	Stanford Univ	20519	4183	20.4%
19	Wuhan Univ	20019	2963	14.8%
20	Seoul Natl Univ	19626	1798	9.2%
21	Univ Penn	19450	3065	15.8%
22	Jilin Univ	19175	2127	11.1%
23	Univ Oxford	19014	3433	18.1%
24	Fudan Univ	18633	2366	12.7%
25	Univ Tokyo	18150	1521	8.4%

https://open.leidenranking.org

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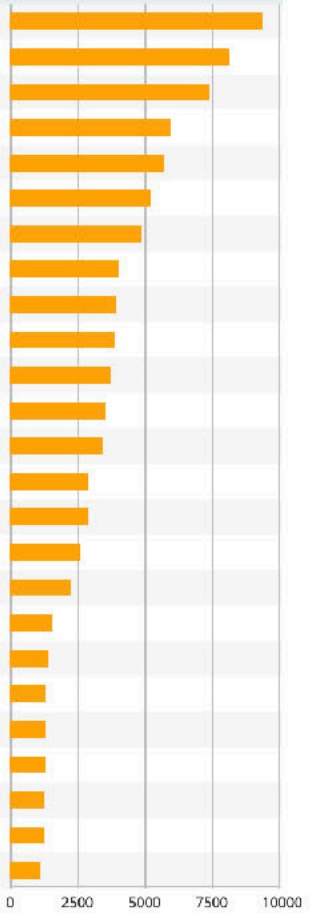
	University	P	P(top 10%)	PP(top 10%)
1	Sorbonne Univ	9390	1142	12.2%
2	Univ Paris-Saclay (EPE)	8118	942	11.6%
3	Univ Paris-Cité (EPE)	7386	935	12.7%
4	Aix-Marseille Univ	5978	635	10.6%
5	Claude Bernard Lyon 1 Univ	5727	607	10.6%
6	Univ Grenoble Alpes (EPE)	5239	505	9.6%
7	Univ Montpellier (EPE)	4878	590	12.1%
8	Univ Strasbourg	4017	424	10.6%
9	Univ Lille (EPE)	3941	376	9.5%
10	Univ Bordeaux	3899	451	11.6%
11	Univ Lorraine	3743	317	8.5%
12	Univ Toulouse III - Paul Sabatier	3517	406	11.5%
13	Univ Rennes (EPE)	3458	339	9.8%
14	Univ PSL	2914	402	13.8%
15	Univ Clermont-Auvergne	2911	272	9.3%
16	Nantes Univ (EPE)	2598	229	8.8%
17	Univ Côte d'Azur (EPE)	2227	251	11.3%
18	Inst Polytech Paris (EPE)	1584	174	11.0%
19	Univ West Brittany	1414	114	8.1%
20	Univ Tours	1324	123	9.3%
21	Univ Poitiers	1290	99	7.7%
22	Univ Paris-Est Créteil Val de Marne	1283	137	10.6%
23	Univ Rouen	1271	103	8.1%
24	Gustave Eiffel Univ (EPE)	1263	119	9.5%
25	Univ Caen Normandy	1118	97	8.6%



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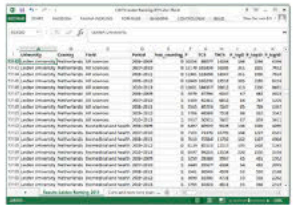
Results

The results of the Leiden Ranking Open Edition are available in a spreadsheet file. For each combination of a university, a main field, and a time period, the file provides the values of all indicators. The results are made available under a CC0 public domain dedication.



Download results (2024)

Download results (2023)

Data

The data underlying the Leiden Ranking Open Edition is available in a set of text files. These files contain (1) data about the universities included in the ranking and the links between these universities and their affiliated organizations, (2) data about the publications included in the ranking and the links between these publications and universities and main fields, (3) indicators at the level of publications, and (4) indicators at the level of universities and main fields. The data is made available under a CC0 public domain dedication.

Download data (2024)

Download data (2023)

Google BigQuery

The data underlying the Leiden Ranking Open Edition is also available through Google BigQuery.

Open Google BigQuery (2024)

Open Google BigQuery (2023)

Interactive dashboard

Resources

- Results
- Data
- Google BigQuery
- Interactive dashboard
- Source code

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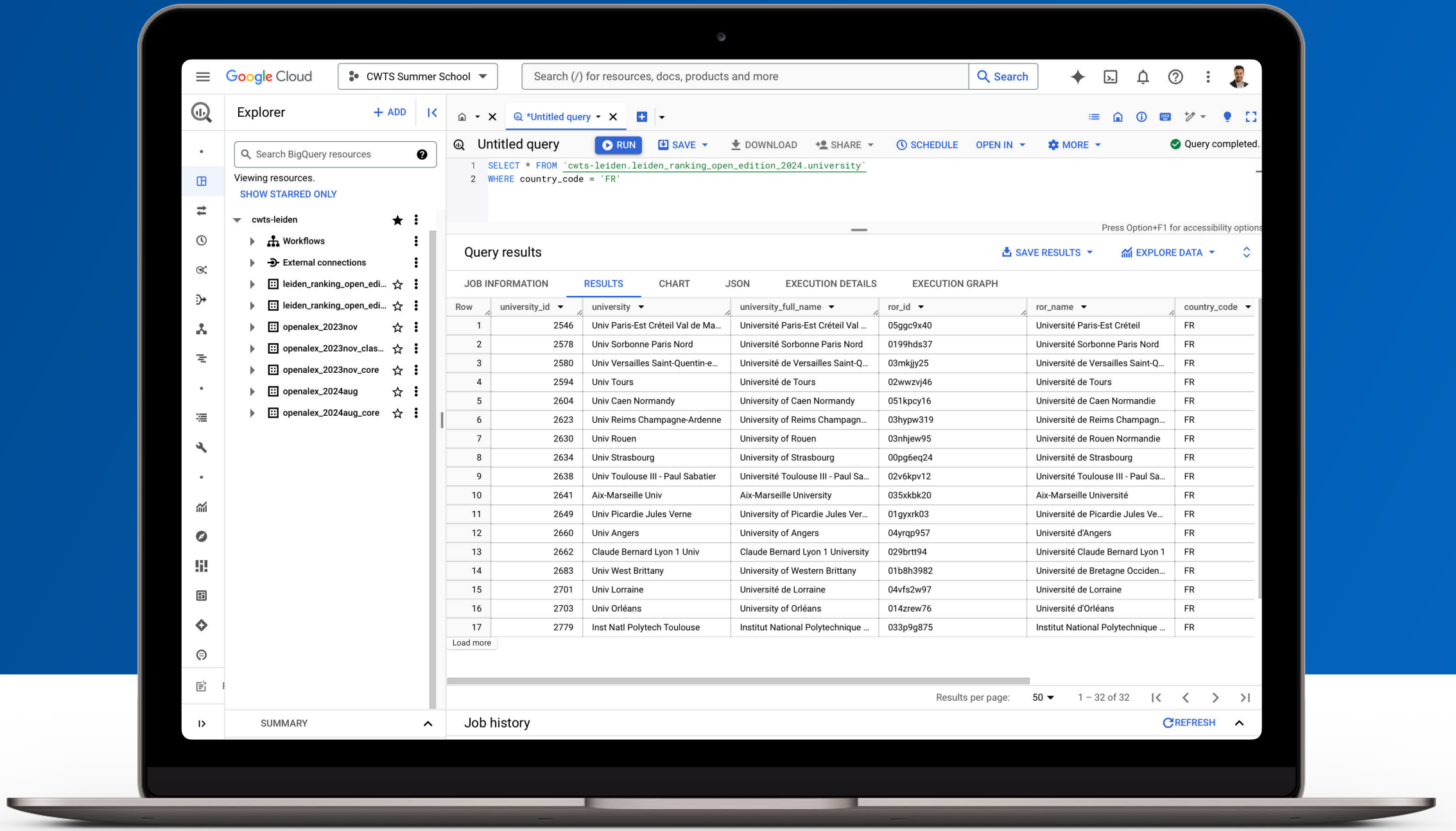
Contact



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2	2578	Univ Sorbonne Paris Nord	Université Sorbonne Paris Nord	0199hds37	Université Sorbonne Paris Nord	FR
3	2580	Univ Versailles Saint-Quentin-e...	Université de Versailles Saint-Q...	03mkjjy25	Université de Versailles Saint-Q...	FR
4	2594	Univ Tours	Université de Tours	02wwzvj46	Université de Tours	FR
5	2604	Univ Caen Normandy	University of Caen Normandy	051kpcy16	Université de Caen Normandie	FR
6	2623	Univ Reims Champagne-Ardenne	University of Reims Champagn...	03hypw319	Université de Reims Champagn...	FR
7	2630	Univ Rouen	University of Rouen	03nhjew95	Université de Rouen Normandie	FR
8	2634	Univ Strasbourg	University of Strasbourg	00pg6eq24	Université de Strasbourg	FR
9	2638	Univ Toulouse III - Paul Sabatier	Université Toulouse III - Paul Sa...	02v6kpv12	Université Toulouse III - Paul Sa...	FR
10	2641	Aix-Marseille Univ	Aix-Marseille University	035xkbk20	Aix-Marseille Université	FR
11	2649	Univ Picardie Jules Verne	University of Picardie Jules Ver...	01gyxrk03	Université de Picardie Jules Ve...	FR
12	2660	Univ Angers	University of Angers	04yrqp957	Université d'Angers	FR
13	2662	Claude Bernard Lyon 1 Univ	Claude Bernard Lyon 1 University	029brtt94	Université Claude Bernard Lyon 1	FR
14	2683	Univ West Brittany	University of Western Brittany	01b8h3982	Université de Bretagne Occiden...	FR
15	2701	Univ Lorraine	Université de Lorraine	04vfs2w97	Université de Lorraine	FR
16	2703	Univ Orléans	University of Orléans	014zrew76	Université d'Orléans	FR
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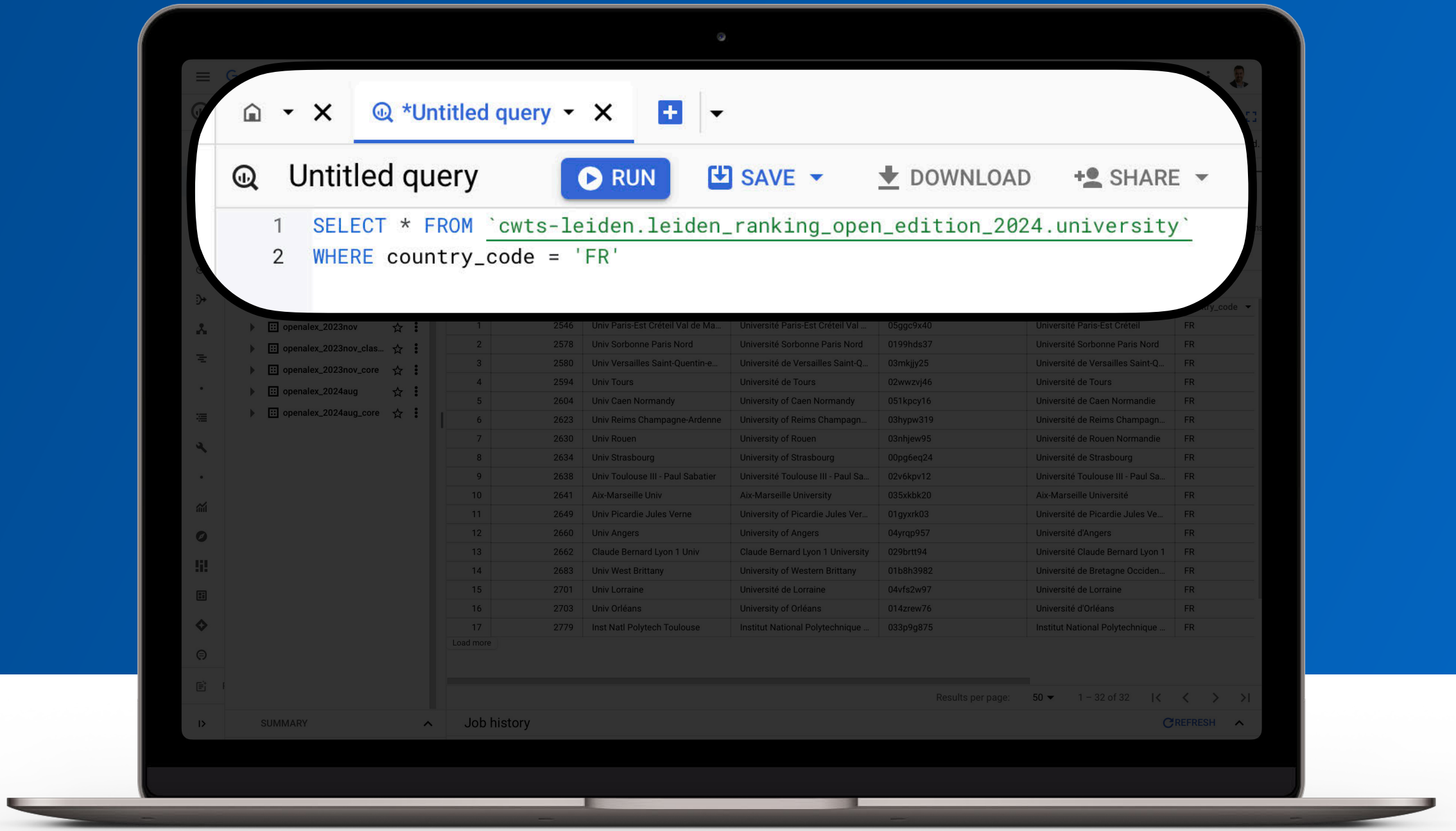
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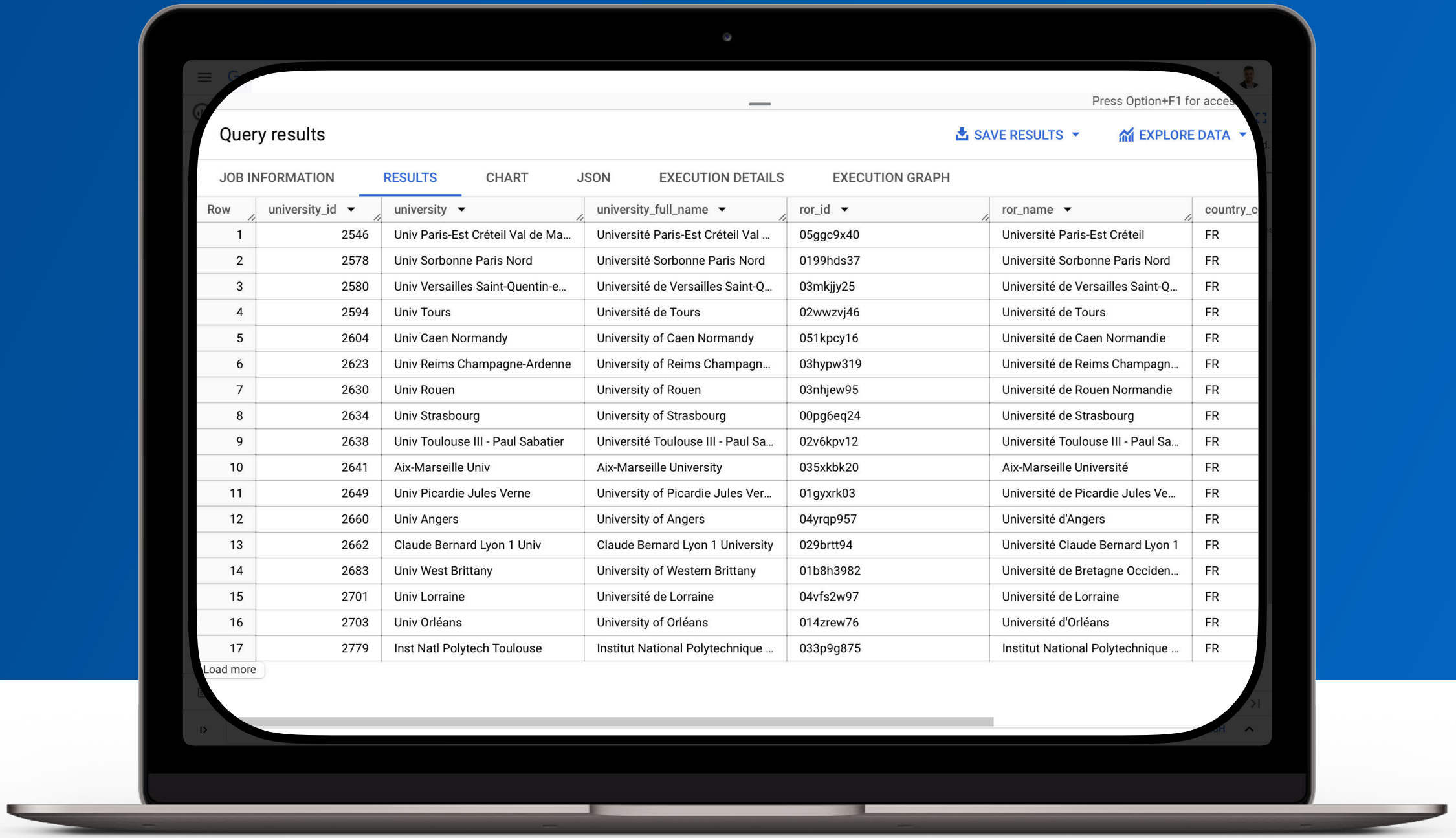
Untitled query
RUN
SAVE
DOWNLOAD
SHARE
1 SELECT * FROM `cwts-leiden.leiden_ranking_open_edition_2024.university`
2 WHERE country_code = 'FR'
openalex_2023nov
openalex_2023nov_clas...
openalex_2023nov_core
openalex_2024aug
openalex_2024aug_core
1 2546 Univ Paris-Est Créteil Val de Ma... Université Paris-Est Créteil Val ... 05ggc9x40 Université Paris-Est Créteil FR
2 2578 Univ Sorbonne Paris Nord Université Sorbonne Paris Nord 0199hds37 Université Sorbonne Paris Nord FR
3 2580 Univ Versailles Saint-Quentin-e... Université de Versailles Saint-Q... 03mkjjy25 Université de Versailles Saint-Q... FR
4 2594 Univ Tours Université de Tours 02wwzvj46 Université de Tours FR
5 2604 Univ Caen Normandy University of Caen Normandy 051kpcy16 Université de Caen Normandie FR
6 2623 Univ Reims Champagne-Ardenne University of Reims Champagn... 03hypw319 Université de Reims Champagn... FR
7 2630 Univ Rouen University of Rouen 03nhjew95 Université de Rouen Normandie FR
8 2634 Univ Strasbourg University of Strasbourg 00pg6eq24 Université de Strasbourg FR
9 2638 Univ Toulouse III - Paul Sabatier Université Toulouse III - Paul Sa... 02v6kpv12 Université Toulouse III - Paul Sa... FR
10 2641 Aix-Marseille Univ Aix-Marseille University 035xkbk20 Aix-Marseille Université FR
11 2649 Univ Picardie Jules Verne University of Picardie Jules Ver... 01gyxrk03 Université de Picardie Jules Ve... FR
12 2660 Univ Angers University of Angers 04yrqp957 Université d'Angers FR
13 2662 Claude Bernard Lyon 1 Univ Claude Bernard Lyon 1 University 029brtt94 Université Claude Bernard Lyon 1 FR
14 2683 Univ West Brittany University of Western Brittany 01b8h3982 Université de Bretagne Occiden... FR
15 2701 Univ Lorraine Université de Lorraine 04vfs2w97 Université de Lorraine FR
16 2703 Univ Orléans University of Orléans 014zrew76 Université d'Orléans FR
17 2779 Inst Natl Polytech Toulouse Institut National Polytechnique ... 033p9g875 Institut National Polytechnique ... FR
Load more
Results per page: 50
1 – 32 of 32
SUMMARY
Job history
REFRESH



Press Option+F1 for acces

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH

Row	university_id	university	university_full_name	ror_id	ror_name	country_c
1	2546	Univ Paris-Est Créteil Val de Ma...	Université Paris-Est Créteil Val ...	05ggc9x40	Université Paris-Est Créteil	FR
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3	2580	Univ Versailles Saint-Quentin-e...	Université de Versailles Saint-Q...	03mkjjy25	Université de Versailles Saint-Q...	FR
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9	2638	Univ Toulouse III - Paul Sabatier	Université Toulouse III - Paul Sa...	02v6kpv12	Université Toulouse III - Paul Sa...	FR
10	2641	Aix-Marseille Univ	Aix-Marseille University	035xkbk20	Aix-Marseille Université	FR
11	2649	Univ Picardie Jules Verne	University of Picardie Jules Ver...	01gyxrk03	Université de Picardie Jules Ve...	FR
12	2660	Univ Angers	University of Angers	04yrqp957	Université d'Angers	FR
13	2662	Claude Bernard Lyon 1 Univ	Claude Bernard Lyon 1 University	029brtt94	Université Claude Bernard Lyon 1	FR
14	2683	Univ West Brittany	University of Western Brittany	01b8h3982	Université de Bretagne Occiden...	FR
15	2701	Univ Lorraine	Université de Lorraine	04vfs2w97	Université de Lorraine	FR
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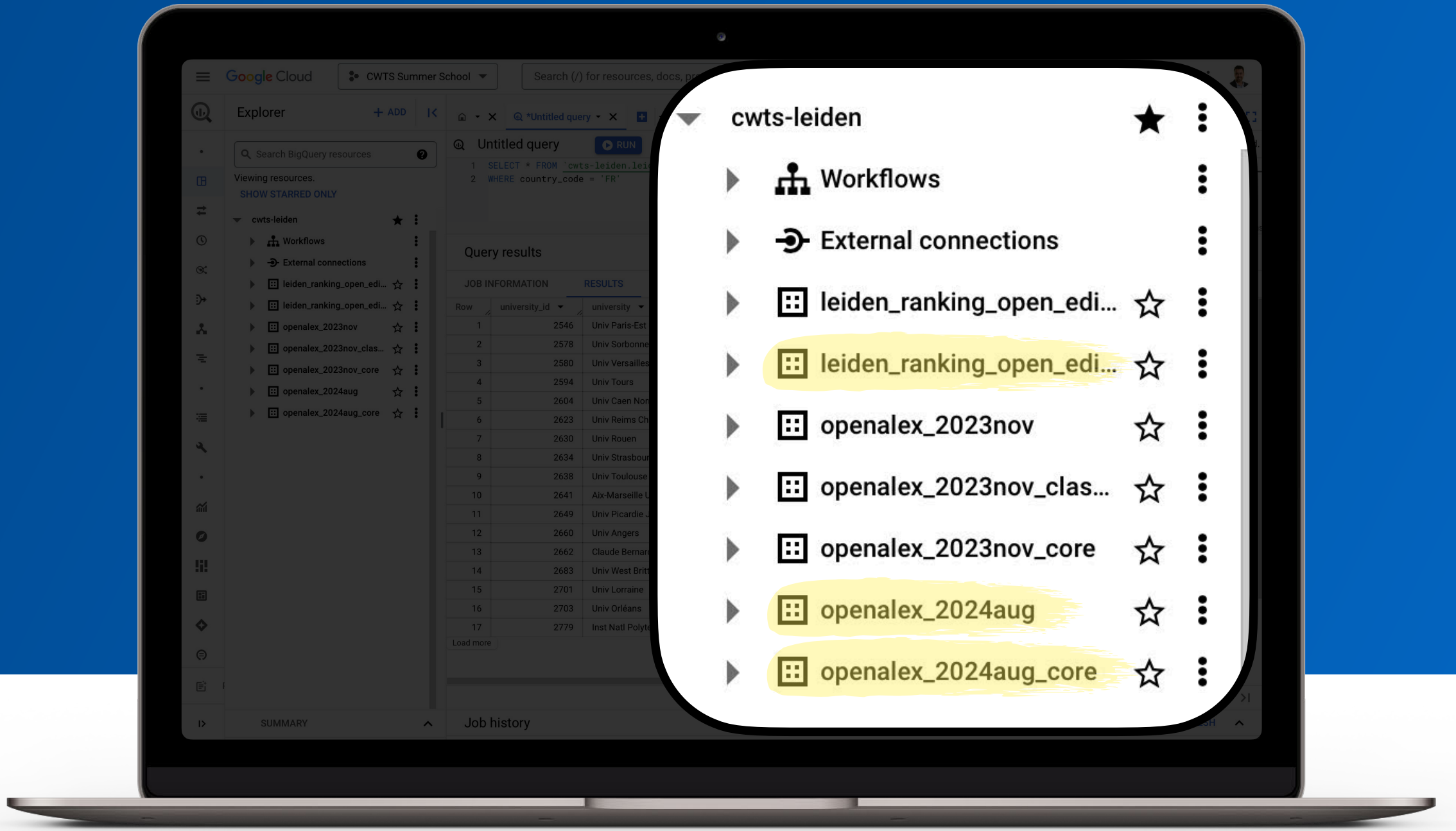
17	2779	Inst Natl Polytech Toulouse	Institut National Polytechnique ...	033p9g875	Institut National Polytechnique ...	FR

Load more


Google Cloud
CWTS Summer School
Explorer
+ ADD
Search BigQuery resources
Viewing resources.
SHOW STARRED ONLY
cwts-leiden
Workflows
External connections
leiden_ranking_open_edi...
leiden_ranking_open_edi...
openalex_2023nov
openalex_2023nov_clas...
openalex_2023nov_core
openalex_2024aug
openalex_2024aug_core
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1 SELECT * FROM `cwts-leiden.lei
2 WHERE country_code = 'FR'
Query results
JOB INFORMATION
RESULTS
Row
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university
1 2546 Univ Paris-Est
2 2578 Univ Sorbonne
3 2580 Univ Versailles
4 2594 Univ Tours
5 2604 Univ Caen Nor
6 2623 Univ Reims Ch
7 2630 Univ Rouen
8 2634 Univ Strasbour
9 2638 Univ Toulouse
10 2641 Aix-Marseille U
11 2649 Univ Picardie J
12 2660 Univ Angers
13 2662 Claude Bernard
14 2683 Univ West Britt
15 2701 Univ Lorraine
16 2703 Univ Orléans
17 2779 Inst Natl Polyte
Load more
SUMMARY
Job history
cwts-leiden
Workflows
External connections
leiden_ranking_open_edi...
leiden_ranking_open_edi...
openalex_2023nov
openalex_2023nov_clas...
openalex_2023nov_core
openalex_2024aug
openalex_2024aug_core

CWTS
Meaningful metrics

Potential challenges

- Transition Phase: Trust must be earned, so transition should not be disruptive
- Level of success: Current correlations with the traditional ranking are strong but not yet perfect.
- Coverage Issues: OpenAlex depends on the availability of open metadata from publishers.

Diversity and Inclusion in Global Science

UNESCO Chair

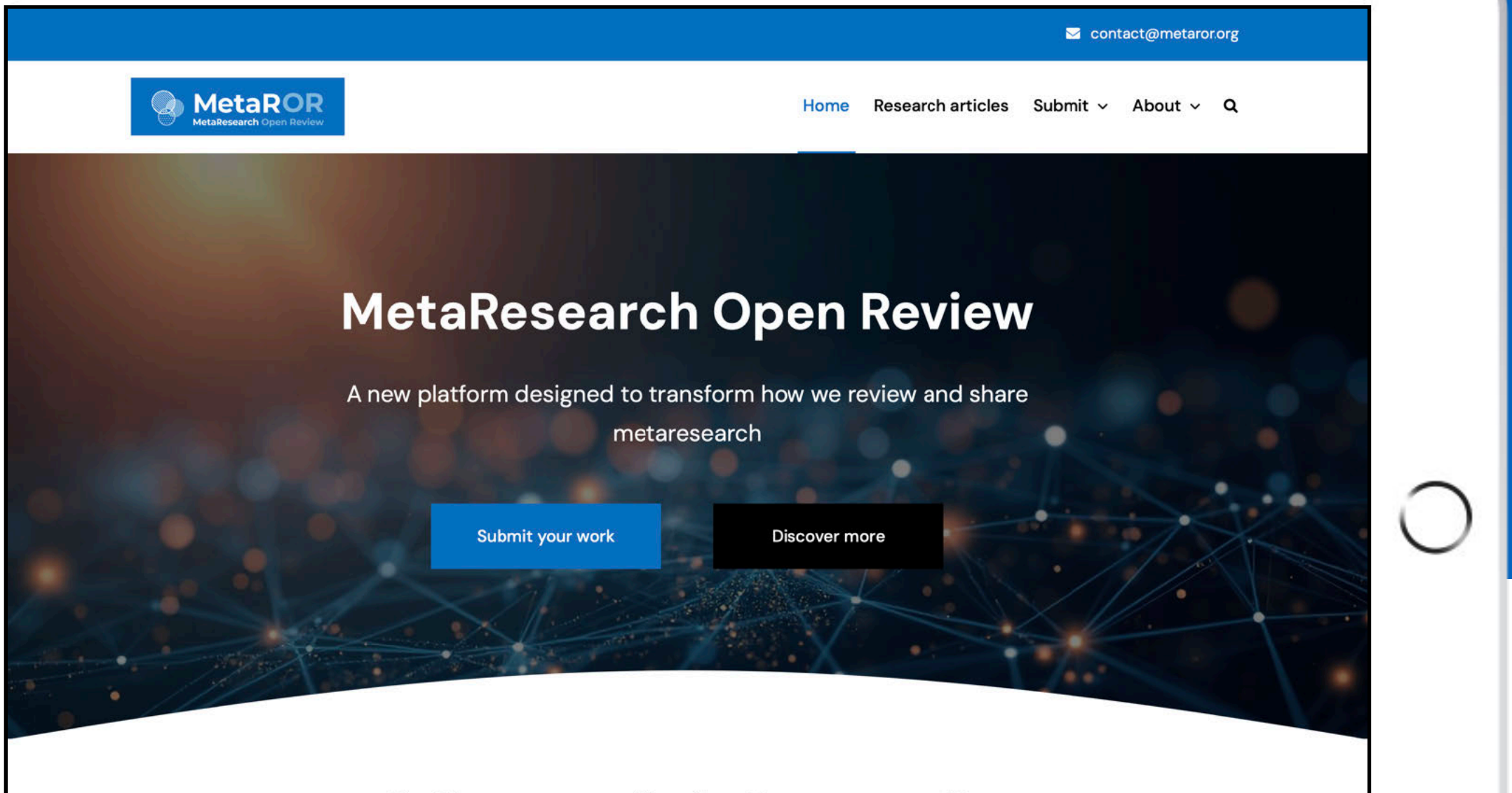
CWTS

CWTS
Meaningful metrics

Potential challenges

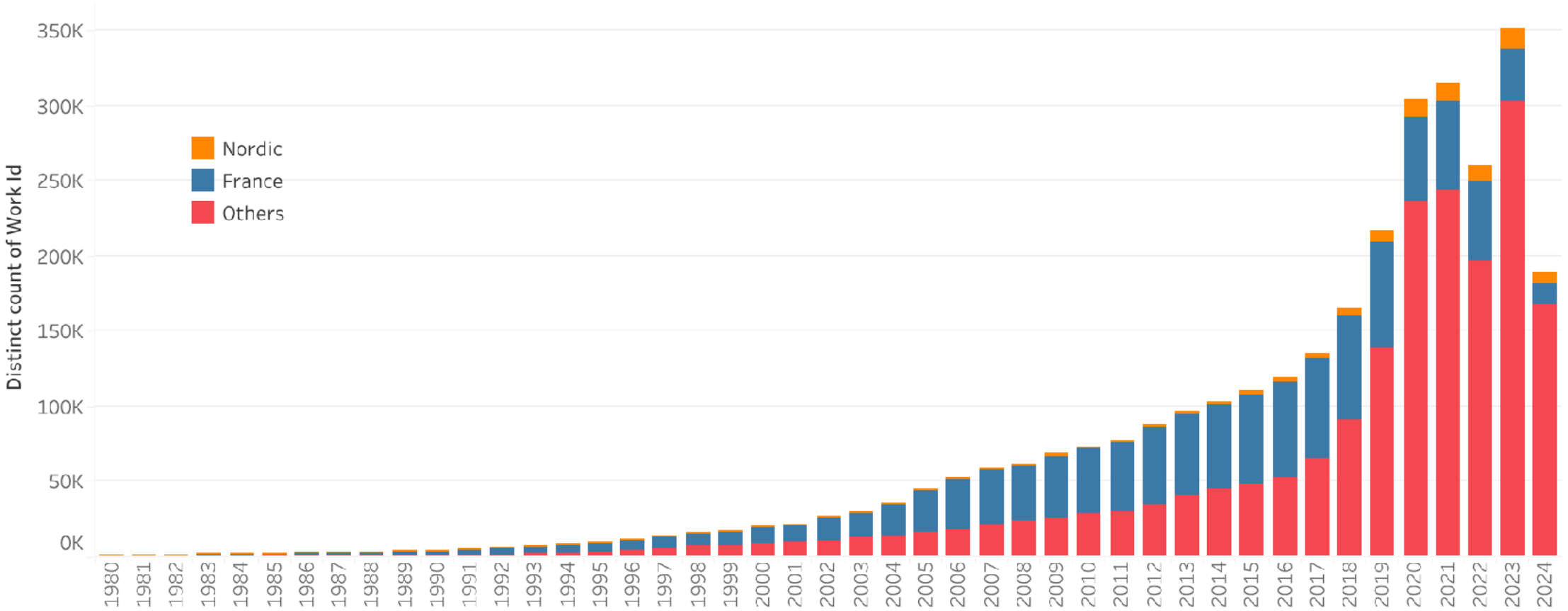
- Transition Phase: Trust must be earned, so transition should not be disruptive
- Significant success: Current correlations with the traditional ranking are strong but not yet perfect.
- Coverage Issues: OpenAlex depends on the availability of open metadata from publishers.
- Data Quality Concerns: Relies on external contributions, leading to inconsistencies in author affiliations and institutional representation.

www.metaror.org

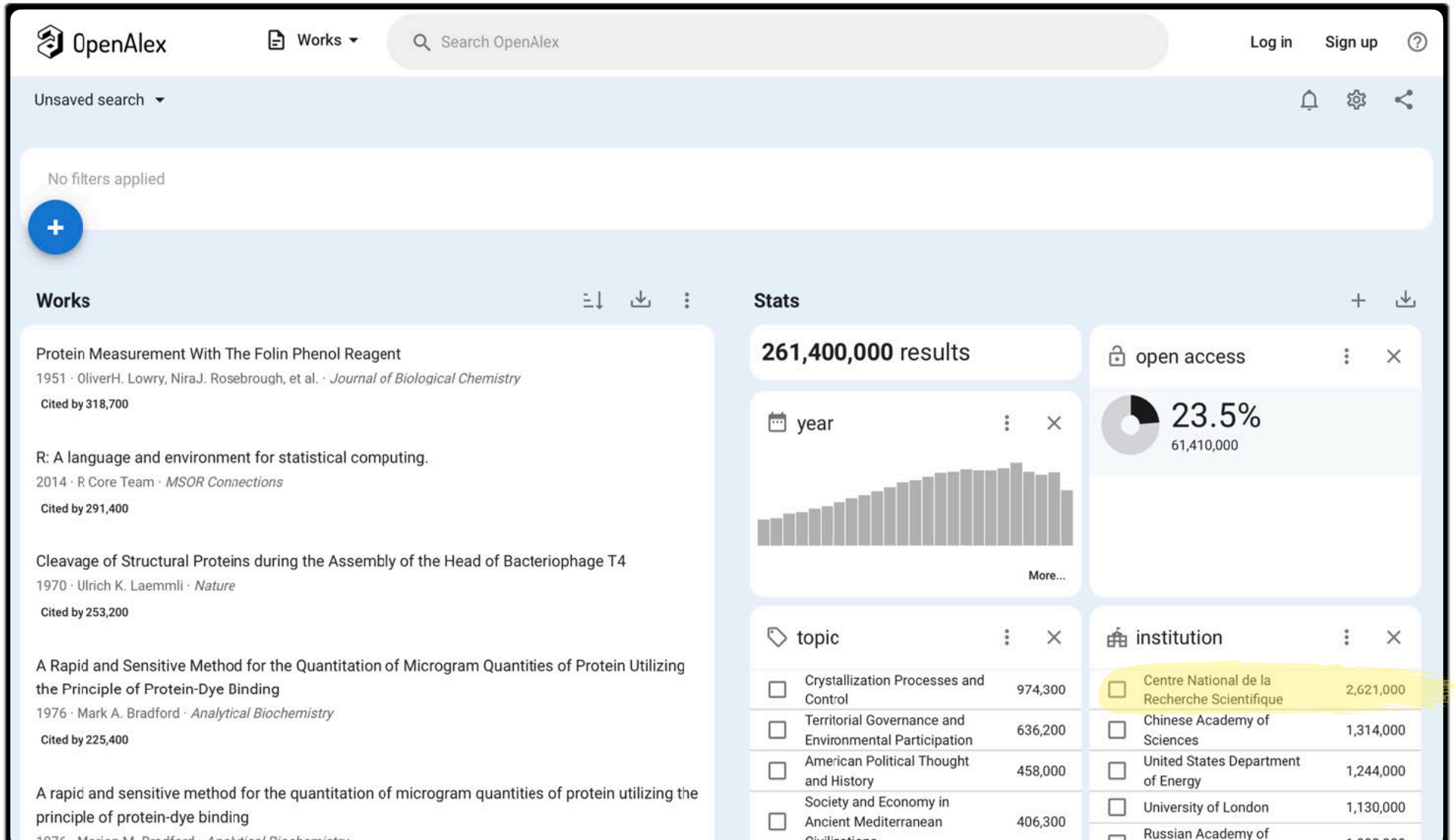


1
1.135.809
Preprinting according to OpenAlex

Preprinting according to OpenAlex



CNRS and Open Alex



Some relevant developments in France

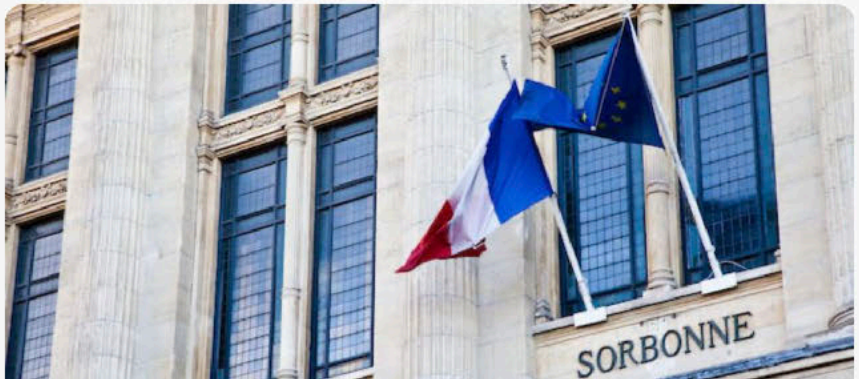
Some relevant developments in France

SCiNiTO About SCiNiTO Resources Blogs Pricing AI Assistant Institution? Book Demo Get started →

Sorbonne University in Paris opts for OpenAlex and abandons proprietary A&I products

Sorbonne University in Paris opts for OpenAlex and abandons proprietary A&I products

Sorbonne University in Paris Switches to OpenAlex. A leading French university has moved from Web of Science and from January 1st, 2024 will use OpenAlex. This is an important move which once again reiterates the well thought decision by the EKB who also opted for SCiNiTO, powered by OpenAlex, from May 2023. Welcome Sorbonne! Source: https://x.com/OpenAlex_org/status/1733187564486414729?s=20

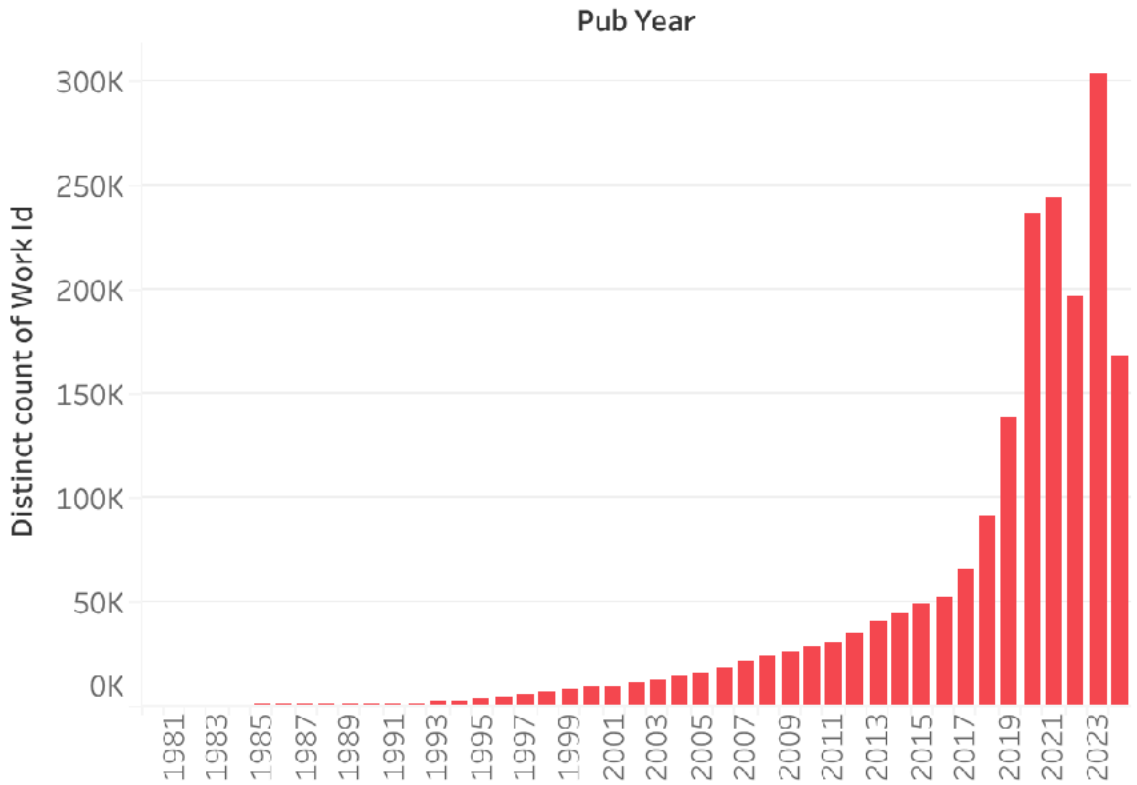


Some relevant developments in France

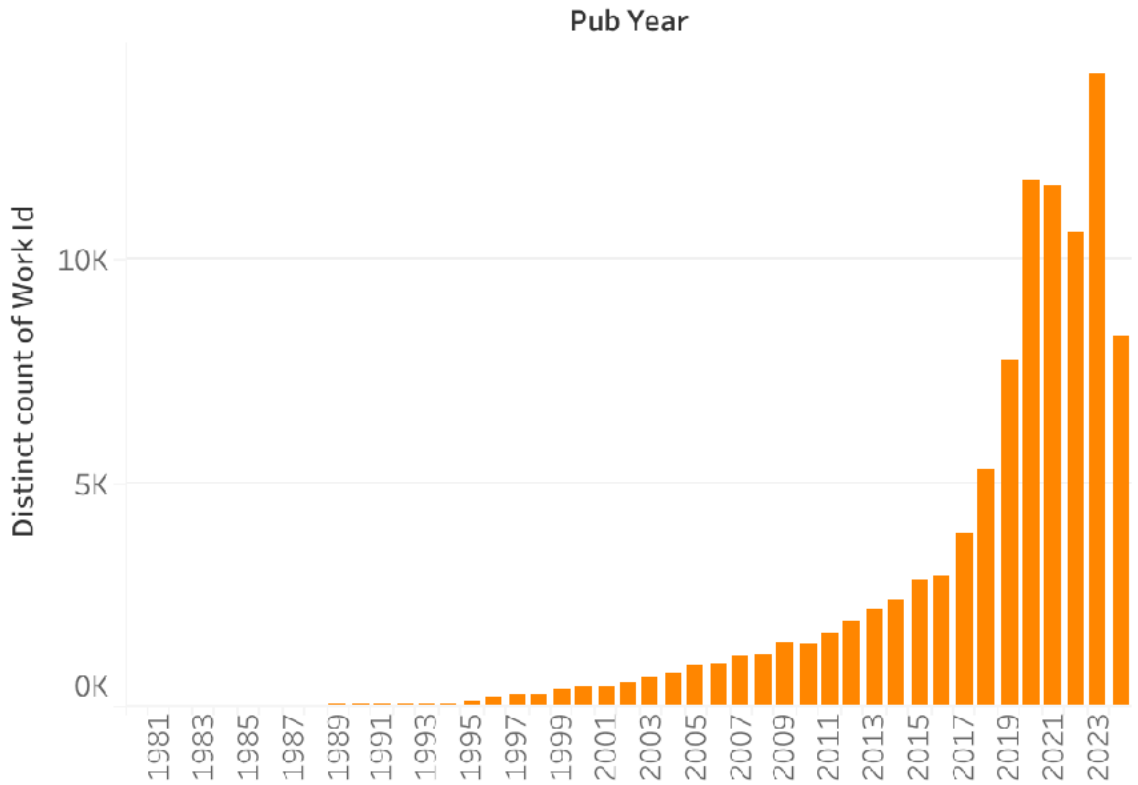
Some relevant developments in France

Preprinting according to OpenAlex

Others (minus France)



Nordic countries



CWTS
Meaningful metrics

André Brasil

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