CORTEXT

Cortext Platform, LISIS

Information extraction and socio-semantic analysis for the social sciences and humanities

UFBA Cortext Manager workshop

LISIS, INRAE, ESIEE Paris, Université Gustave Eiffel

Program of the workshop (first day)

🗓️ Monday, 27 April 2026

09:30 – 11:00 🎓 **Welcome**

- Introduction: objectives of the training
- Presentation of Cortext platform

11:00 – 12:00 ⚙️ **Setup**

- Access Cortext Manager
- Project setup

12:00 – 13:00 🍽️ **Lunch break**

13:00 – 15:30 🌏 **Live Demo**

- Climate change adaptation research
- Query design & corpus management
- From semantic landscapes to geospatial networks

15:30 – 17:00 🧠 **Hands-on session (part one)**

- Group constitution
- Data preparation
- First analysis

Program (second and last days)

🗓️ Tuesday, 28 April 2026

09:30 – 12:00	🧠 **Hands-on session (part two)**
12:00 – 13:00	🍽️ **Lunch break**
13:00 – 14:30	📊 **Metrics & algorithms**
14:30 – 17:00	🧠 **Hands-on session (part three)** • Last analysis • Preparation for group or individual presentations

🗓️ Wednesday, 29 April 2026

09:30 – 11:00	🎤 **Group presentations**
11:00 – 12:00	💬 **Final remarks**

Workshop materials

📚 A training website with all the materials presented and additional resources for further exploration:

https://docs.cortext.net/trainings/cortext-ufba-2026/

🔗 A link to register for the training and access Cortext Manager:

https://auth.cortext.net/user/register?callback=https://managerv2.cortext.net/login?from=register

🧪 A shared Cortext Manager project for demonstrations:

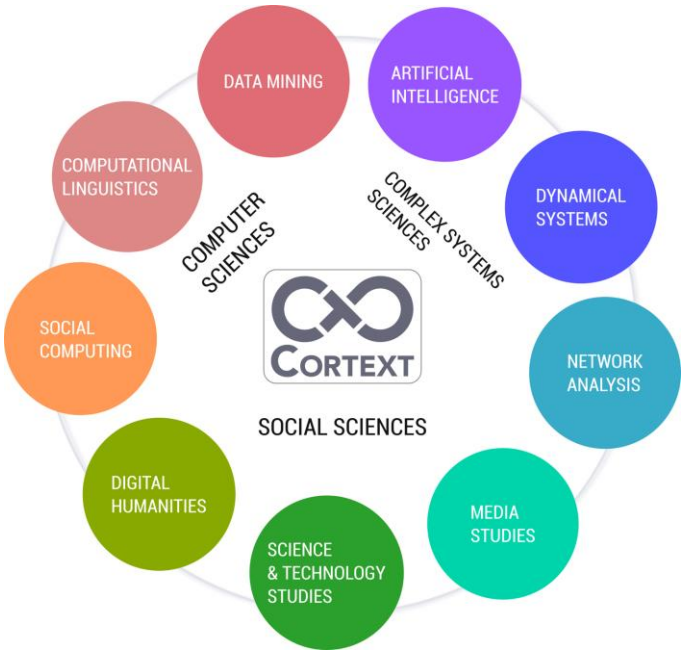
https://managerv2.cortext.net/project/270700003210

Platform CORTEXT

"The main aim of the CorText platform is to enable a social scientist, or any other user, to come with a research question and leave having benefited from a computational method applied to their textual corpora and adapted to their specific research".

A platform that combines

- *Computer Science*
- *Data Science*
- *and the Social Sciences and Humanities*



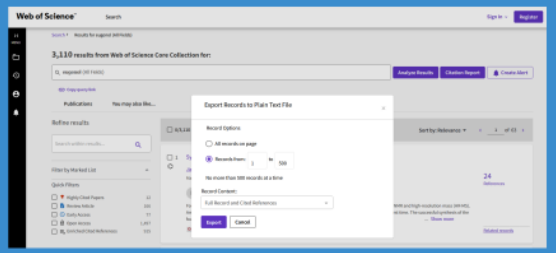
INRAE LISIS ESIEE PARIS Université Gustave Eiffel

LabEx Sciences, Innovations et TEchniques en Société IFRIS Institut Francilien Recherche Innovation Société RISIS RESEARCH INFRASTRUCTURE FOR SCIENCE AND INNOVATION POLICY STUDIES

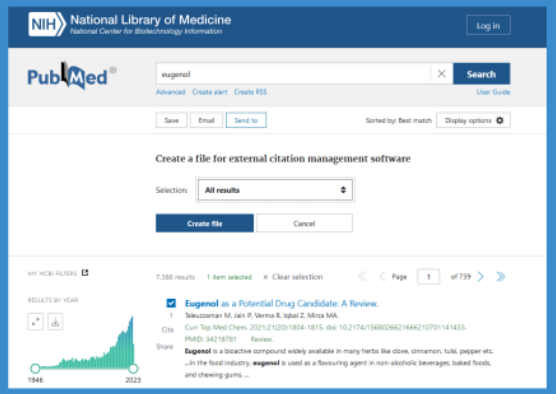
A variety of sources

SCIENTIFIC PRODUCTION

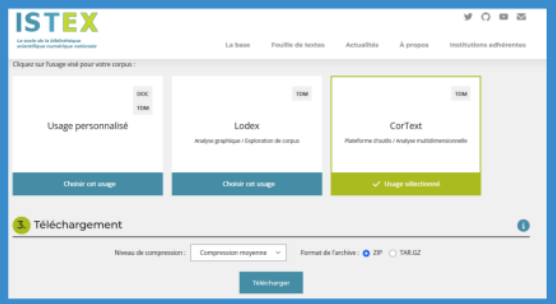
Web Of Science



PubMed

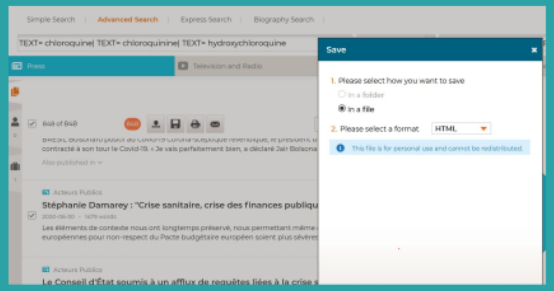


ISTEX

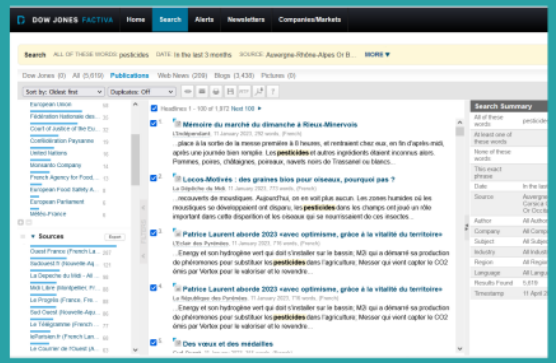


MEDIA & SOCIAL NETWORKS

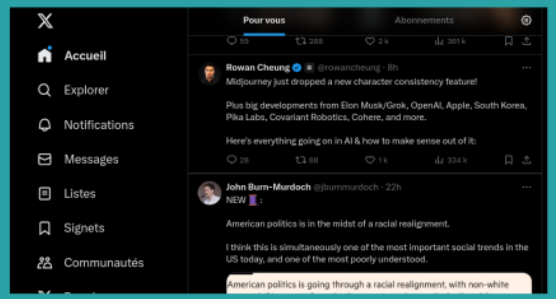
Europress



Factiva

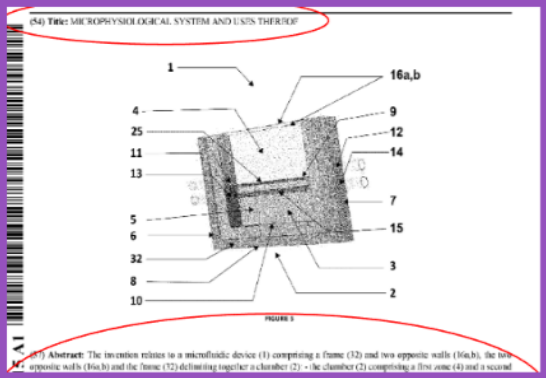


X (Twitter)



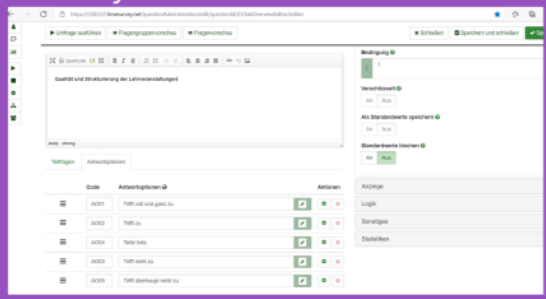
SPECIFIC DATABASES

Risis Patents



Text Archives

Surveys



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Member of CorText platform, Researcher at LISIS, Head of IFRIS

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Member of CorText platform, Researcher at LISIS, Senior lecturer at ESIEE Paris

Lionel Villard
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Patricia Laurens
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IT engineer from INRAE, LISIS. Technical Director of the Cortext Digital Platform. Web Designer and developer.

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Researcher, Senior lecturer at LISIS

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Post-doctorant, LISIS

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IT Engineer Assistant, Cortext

Luis-Daniel Medina
IT Engineer, Cortext

Diego-Fernando Gómez Peña
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IT Engineer, Cortext

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IT Engineer

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IT Engineer, Trainee, Cortext

Anis Arabi
Big data engineer

Nicolas Ricci
Web developper and data

Audrey Baneyx
Project manager Data science, Sciences Po Paris - médialab

Andrei Mogoutov
Bullescence

Élise Tancoigne
Researcher, University of Geneva, Switzerland

INTERACTION CHERCHEURS, PROJETS, FORMATIONS, VALORISATION, COMMUNICATION — 5 CHERCHEURS, 1 ASSISTANT INGÉNIEUR

COLLECTE DE DONNÉES, STOCKAGE ET CALCUL — 1 INGÉNIEUR

DEVELOPPEMENT D'INTERFACES, VISUALISATIONS, FRONTEND — 1 INGÉNIEUR

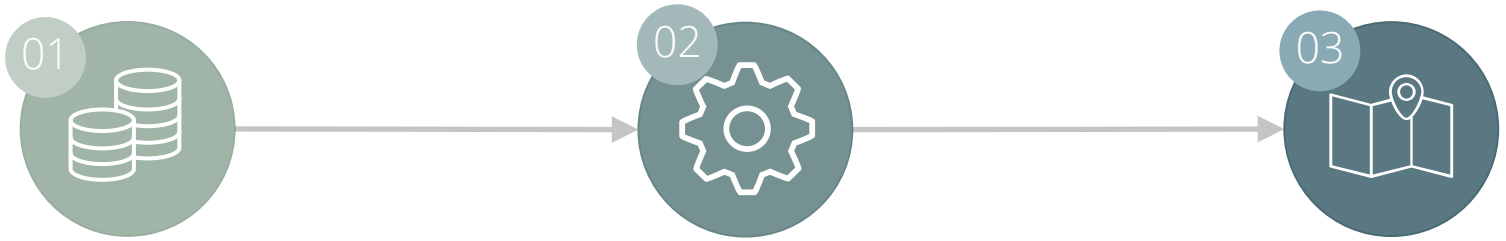
DEVELOPPEMENT DE SERVICES, API, BACKEND — 1 INGÉNIEUR

ARCHITECTURE INFRASTRUCTURE, DEVOPS — 1 INGÉNIEUR

METHODES D'ANALYSES, STATISTIQUES, SCRIPTS — 1 INGÉNIEUR DE RECHERCHE, 2 INGÉNIEURS D'ETUDES

GESTION DES SERVEURS, SUPPORT, SECURITÉ — 1 INGÉNIEUR SYSTÈME MI-TEMPS

User perspective: the three steps from the research question to the use of results (iterative process)



Files and data

Optionally enriched with platform data: on **actors** (authors, inventors, organizations...), on **geography**, and on **text** (classifications, ontologies).

csv, WOS, html...

Data analyses

Texts (NLP), **social networks**, geographic or statistical data...

Cross-referenced with a **time** variable.

Scripts, algorithms, selections, projections...

Results and visualizations

Results of analyses generated from the data.

PDFs, images, data tables, maps...

Engaged academic disciplines

- Scientometrics
- Social Network Analysis (SNA)
- Natural Language Processing (NLP)
- Statistics
- Geographic Mapping and Spatial Analysis
- Data Visualization
- Methods in the Social Sciences and Humanities, especially digital methods, but not exclusively
- Software Development

Origin of the CorTexT Manager web application

Born in 2009, developed in close connection with research in the social sciences, and supported by the growth of a technical infrastructure and computational methods.

IFRIS
Institut Francilien Recherche Innovation Société

LabEx
Science, Innovation and TEchnology in Society

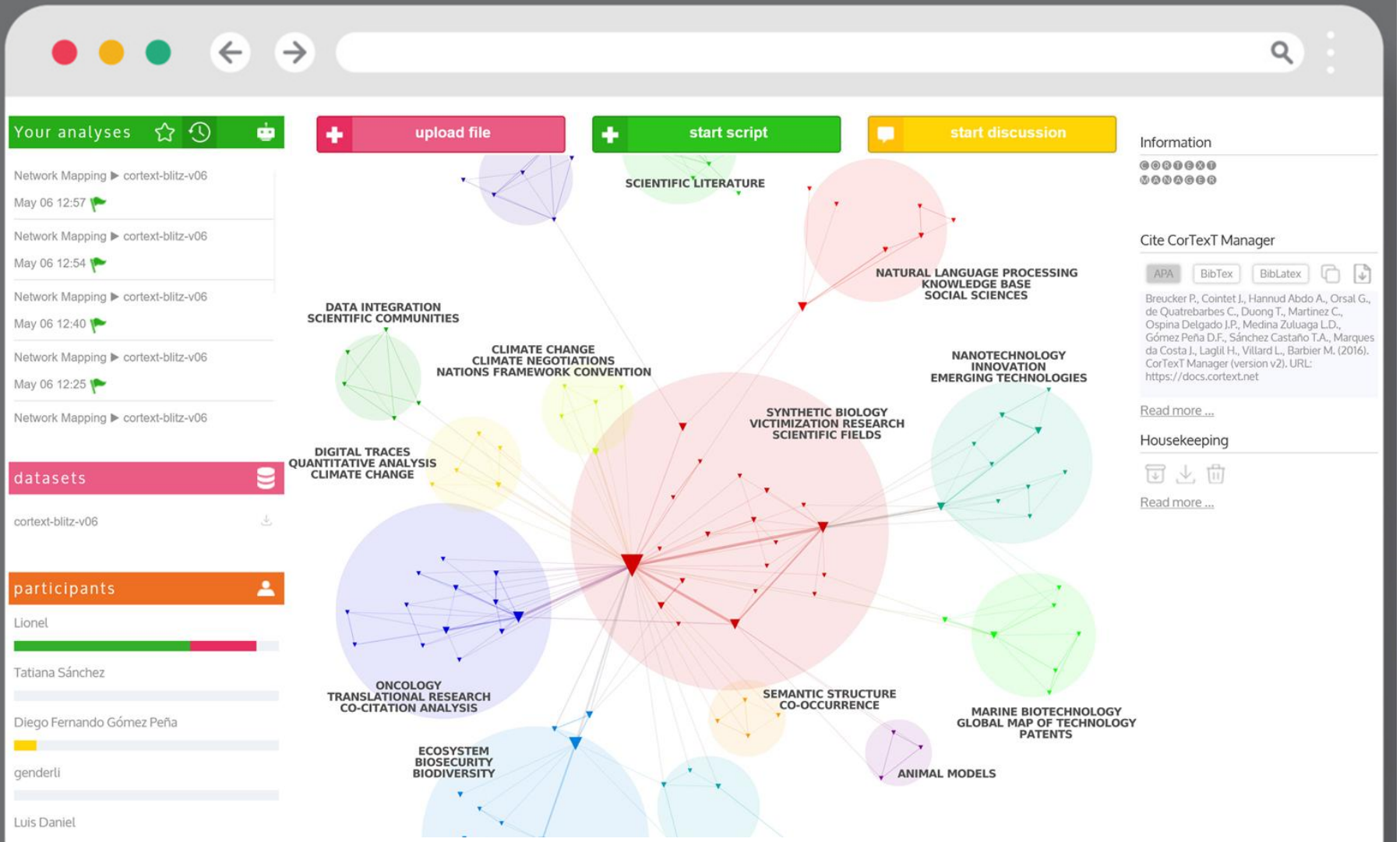
RISIS
RESEARCH INFRASTRUCTURE FOR SCIENCE AND INNOVATION POLICY STUDIES

Two major versions of the CorTexT Manager web application:

- **v1 (2011)**
- **v2 (2016)**

Originally designed to relieve social science researchers from the need for intensive computing power required to run certain algorithms, **without requiring programming skills**.

- Combines multiple dimensions of analysis within a single interface
- Collaborative
- Discovery can be unexpected: the system is highly permissive in handling different data types and parameters. All algorithms and methods can be executed on any variable.



Breucker P., Cointet J., Hannud Abdo A., Orsal G., de Quatrebarbes C., Duong T., Martinez C., Ospina Delgado J.P., Medina Zuluaga L.D., Gómez Peña D.F., Sánchez Castaño T.A., Marques da Costa J., Laglil H., Villard L., Barbier M. (2016). CorTexT Manager (version v2). URL: https://docs.cortext.net

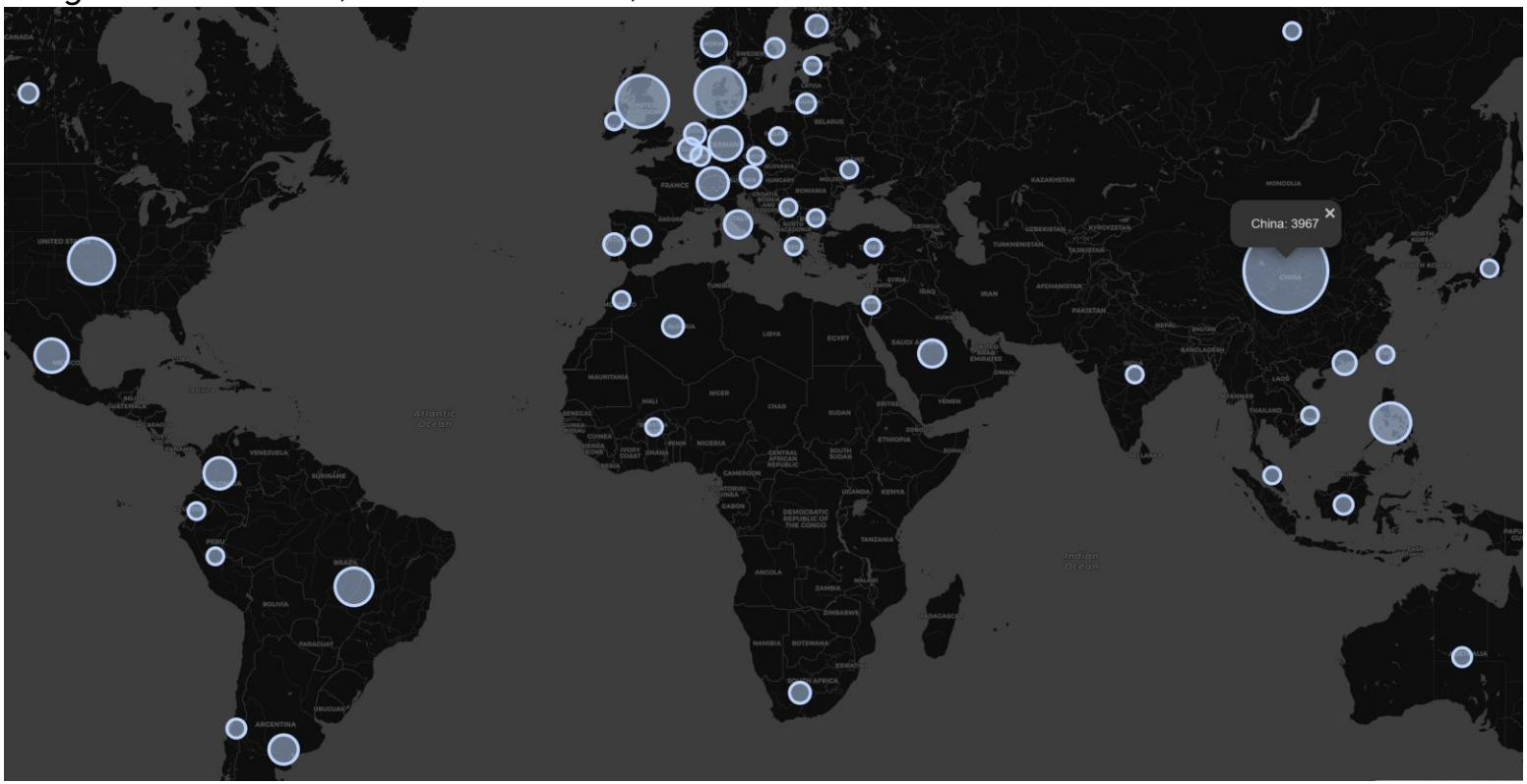
@CorTexT_team

https://docs.cortext.net/

USER GUIDE

Cortext Manager in 2023

- 1,190 active users, generating over 45,000 computations;
- from 492 institutions (universities, companies, ministries, consulting firms, journalists, intelligence services, etc.) and cities, located in 70 different countries.

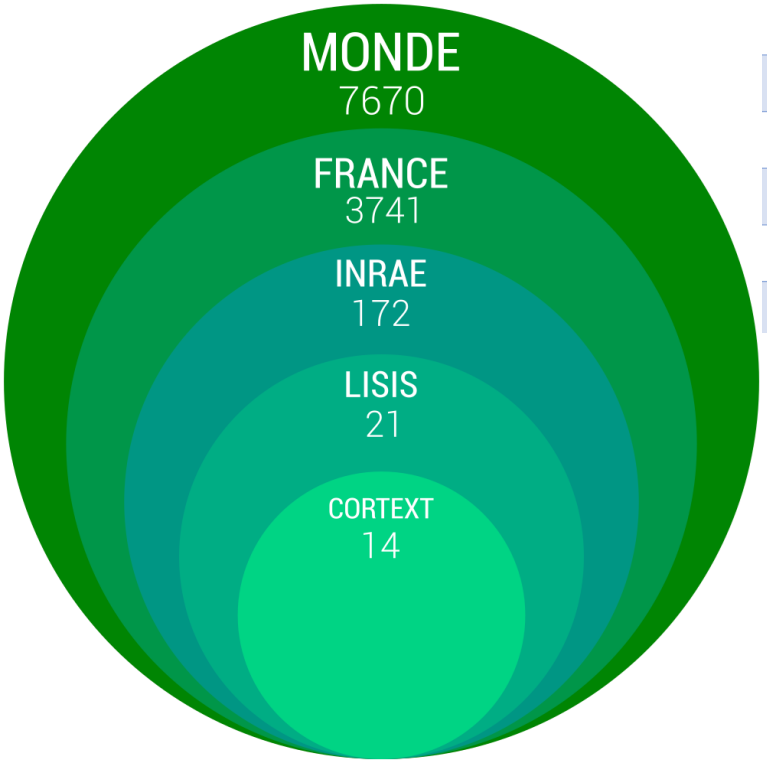


Publications using CorTexT Manager

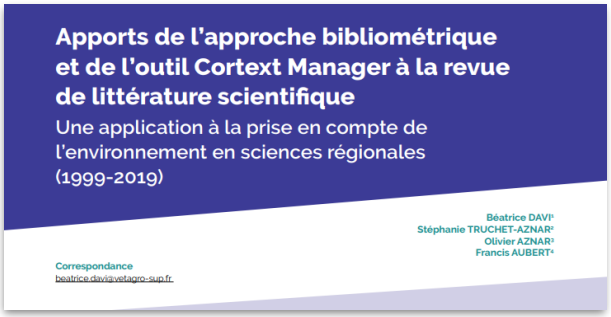
- More than 1,000 authors have published claiming the use of CorText Manager since 2016. These authors represent less than 10% of the CorText Manager user community.
- Outside France, there has been significant growth in China, the Philippines, and Brazil, with the emergence of structured user communities in Wuhan and Manila.

👉 https://www.cortext.net/publications/

Scope of the platform



	Utilisateurs	Publiants	
Monde	7670	354	***5%***
France	3741	160	***4%***
INRAE	172	50	***23%***
LISIS (INRAE)	21	16	***36%***
CorTexT (INRAE)	14	6	***21%***


Apports de l'approche bibliométrique et de l'outil Cortext Manager à la revue de littérature scientifique

Une application à la prise en compte de l'environnement en sciences régionales (1999-2019)

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Stéphanie TRUCHET-AZNAR[2]
Olivier AZNAR[3]
Francis AUBERT[4]

Correspondance
beatrice.davi@vetagro-sup.fr


Dominique Fournier lauréate des Lauriers d'INRAE 2023

COMMUNIQUE DE PRESSE REGIONAL. Le 28 novembre 2023, INRAE célèbre l'excellence et l'innovation lors de sa 4e cérémonie des Lauriers. Les lauréats sont distingués par un jury international pour leurs contributions exceptionnelles soutenant les missions de recherche de l'institut pour relever les défis des changements globaux impactant l'agriculture, l'alimentation et l'environnement. Dominique Fournier, documentaliste sur le centre INRAE Occitanie-Montpellier, a été distinguée par un Laurier de l'Appui à la Recherche –

Publié le 28 novembre 2023

Observed usage modes

Four Modes of Use in Research and Education

1. **Quantitative analysis** of academic production
    - **Socio-semantic and relational mapping** of outputs, particularly in research (e.g., publications, patents, projects)...
        - Including **bibliometric** analysis (06-2022-environnement-en-sciences-regionales.pdf);
        - and **scientometric** analysis (05-2022-Scientometric-review-permafrost-research.pdf);
    - ...then extending to press and **social media** (03-2022-robots-vs-algorithmes.pdf)
    - Study of **relative positioning** and **specialization** of actors (e.g., companies, universities) and geographical areas (e.g., urban or rural zones, regions, countries) (08-2023-geographical-dynamics-R-and-D-networks-robotics.pdf)
2. **Support for qualitative approaches**
    - Using maps as effective tools to inform field investigations (e.g., dialog with stakeholders)
    - Using CorText Manager to process data collected through field techniques
        - **Text analysis** to capture the representations of actors and organizations (04-2022-divinfood-food-chains-actors-for-using-agrobiodiversity.pdf);
        - **Social Network Analysis (SNA)** to reveal organizational and social structures in observed situations (07-2021-european-quality-assurance-initiatives-local-gastronomy-small-scale-farmers.pdf);
3. **Literature reviews**: Using CorText Manager to delimit and position scholarly work (e.g., doctoral research, academic papers)
4. **Educational contexts**: natural language processing and text analysis, studying controversies, social and political dynamics on social media (e.g., language trends, social mobilizations, systemic discrimination), Social Network Analysis, technological and scientific monitoring [...]. During the 2023 academic year, eleven courses used CorText Manager in their teaching programs (e.g., Sciences Po Paris, Aalborg University, De La Salle University, University of Bordeaux, MINES Paris - PSL, University of Lyon 1).

Strategic Insights and Expert Reports for Decision-Making Support

1. **Policy or strategic insights**: strategic notes for policymakers, R&D management, research policy, monitoring trending topics…
2. **Expert reports**: on controversies, standards development, state-of-the-art reviews... (some publicly available examples are listed here)

The production cycle of certified knowledge

A scientific article is considered an important indicator of scientific research production, though not the only one.

“Certified knowledge” refers to knowledge that has been submitted to peer criticism and has resisted to their objections (Callon, 1993).

As early as 1962, Derek de Solla Price identified general laws **characterizing scientific activity** by applying quantitative analyses to scientific articles, using documents to understand scientific and social dynamics.

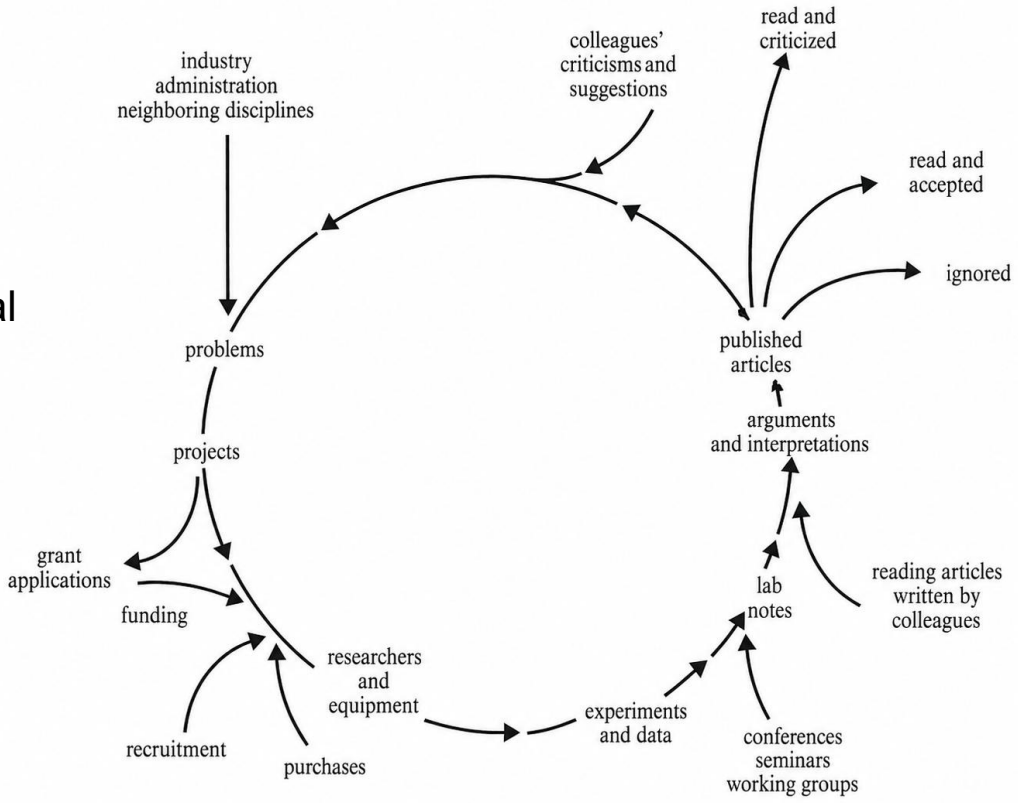
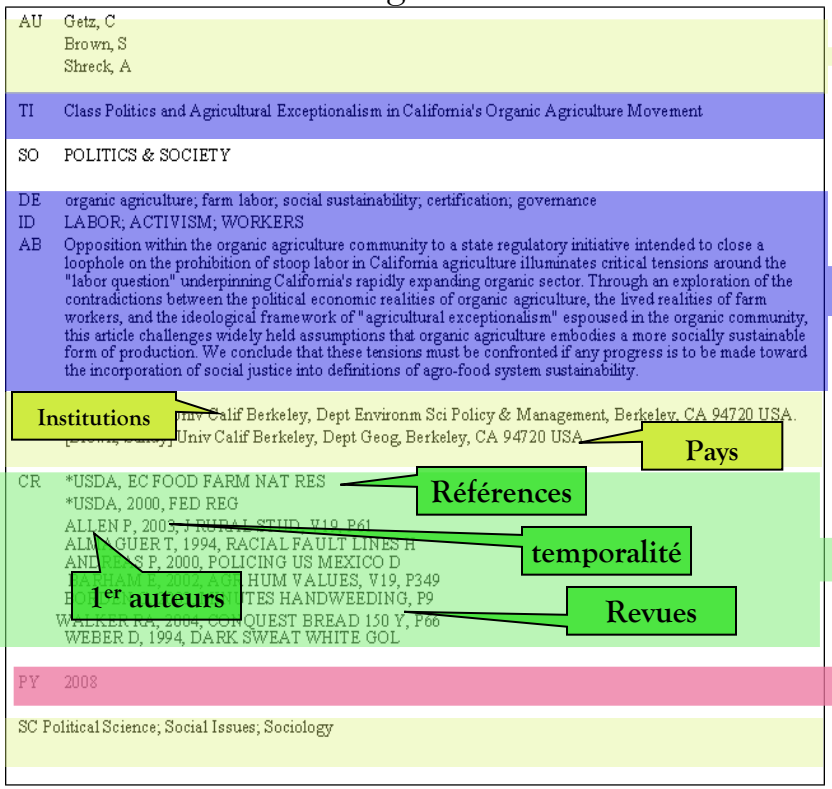


Fig. 2. — The production cycle of certified knowledge.

The bibliographic notice of scientific articles

Citing article



Objective : identifying following differnet insights the structuration and dynamic of a scientific domain

Limits :

- Depend on data bases and tools
- linguistic biases
- no exhaustivity
- data cleaning
- partial aspect of scientific activity

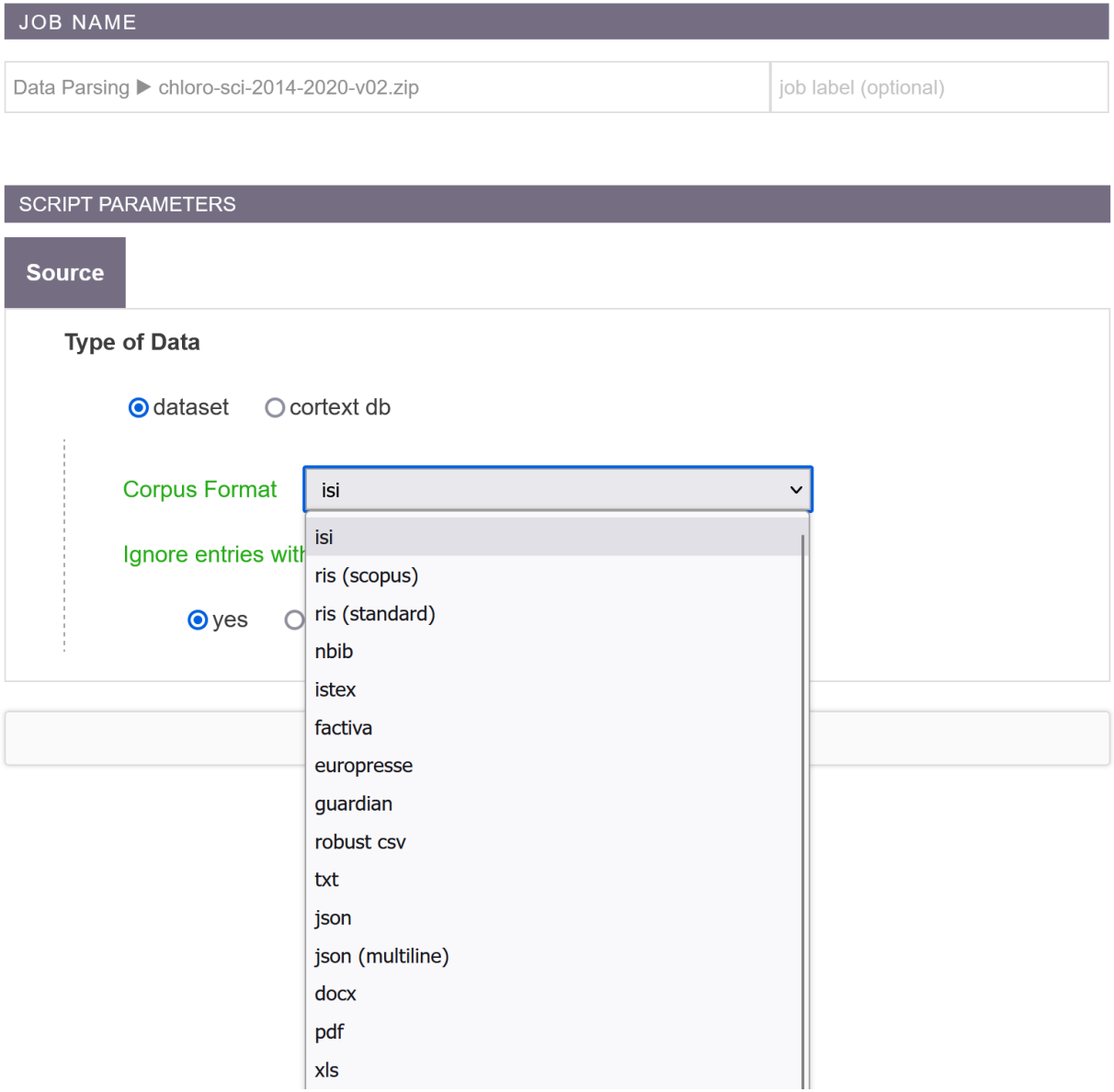
Multiple data sources

Scientific production
- Web of Science / ISI
- Scopus
- PubMed / nbib
- Istex : full text archive
- RIS : standard

Press / newpapers
- Factiva
- Europress
- Guardian

Social media
- Twitter : json

Generic formats
- Json
- csv (robust csv) and xls
- txt, docx and pdf



Outputs generated by CorText Manager

Two Main Types of Indicators

1. Simple descriptive statistics indicators:

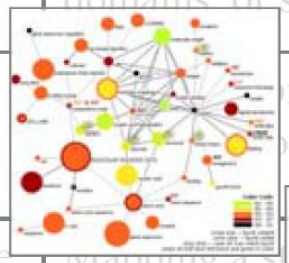
- Totals, ranks, frequencies

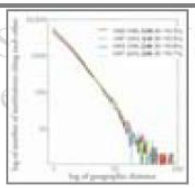
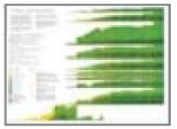
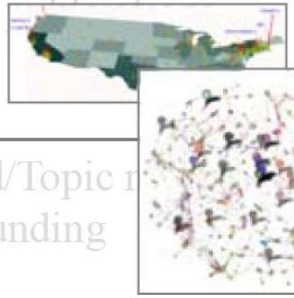
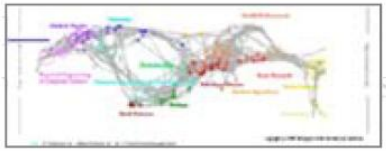
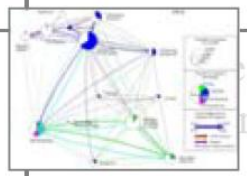
2. Relational indicators (networks), with two subtypes:

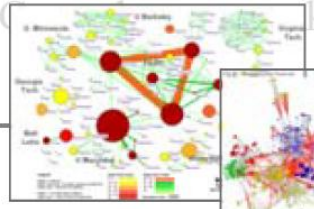
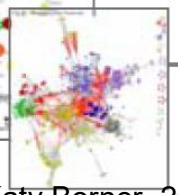
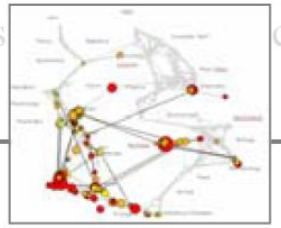
- **Native:** based on variables directly available in the original data, such as metadata. These indicators do not rely on document content.
  Example: collaboration between authors
- **Derived:** based on the results of content analysis. The resulting networks are generated through computational processing.
  Examples: co-occurrence networks of terms in the documents, or collaboration networks between urban areas

Analytical dimensions and scales

	Micro/Individual (1-100 records)	*Meso/Local (101–10,000 records)*	*Macro/Global (10,000 < records)*
Statistical Analysis/Profiling	Individual person and their expertise profiles	Larger labs, centers, universities, research domains, or states	All of NS SA, all of sci
Temporal Analysis (When)	Funding portfolio of one individual	ic bursts f PNAS	113 Years of P Research
Geospatial Analysis (Where)	Career trajectory of one individual	Mapping a s intellectual l	PNAS
Topical Analysis (What)	s.	flows in research	VxOrd/Topic m NIH funding
Network Analysis (With Whom?)	NSF work of one	k	NIH's cy



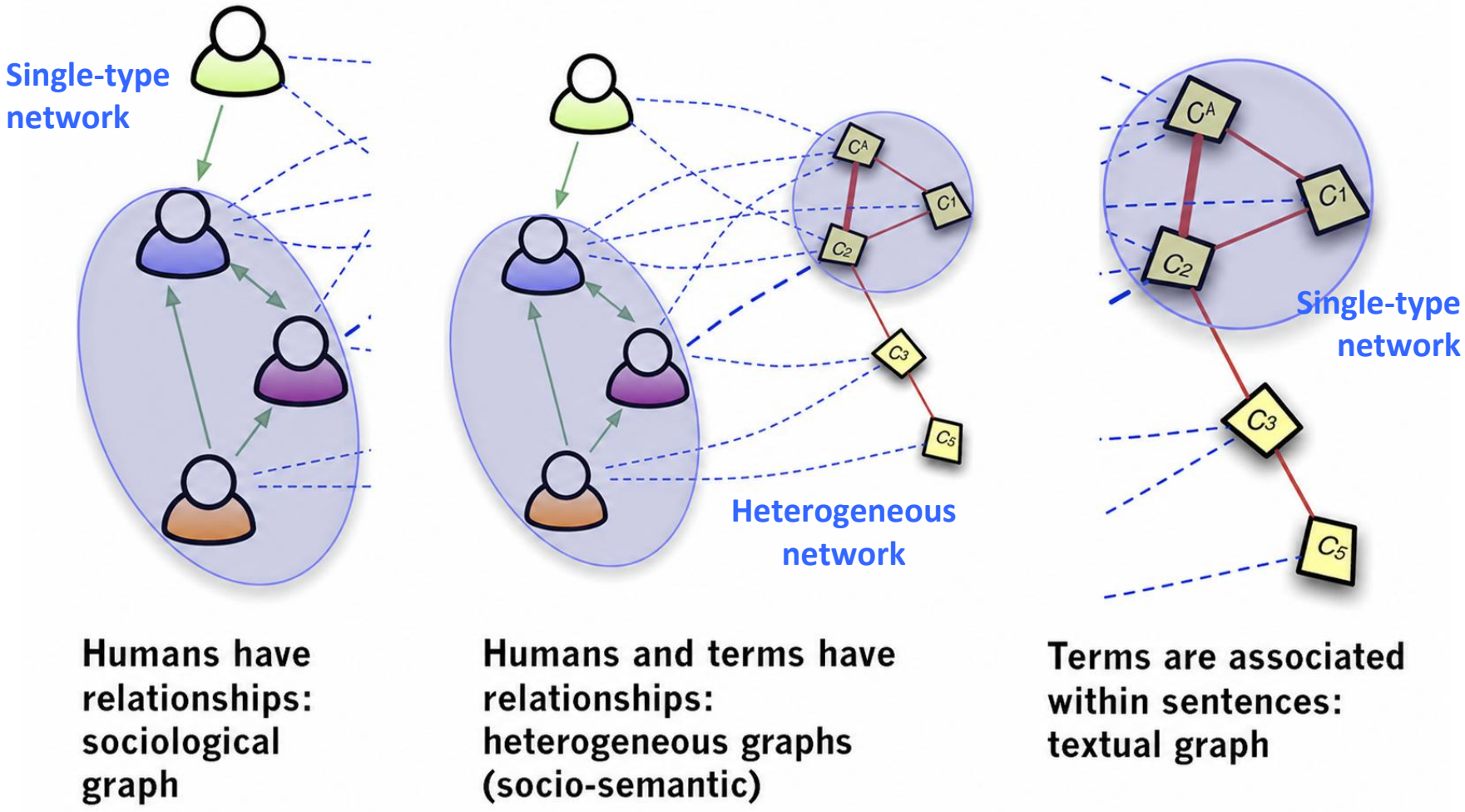






Atlas of science - Visualizing What We Know, Katy Borner, 2010, The MIT Press, 272 p.

Mining, Mapping, and Acceleration Science and Technology, Katy Borner, 2012, Sciences Po, paris

Heterogeneous network combining direct and indirect relations



Measures of similarity

proximity measures	type of network	normalisation	special properties
raw	interaction network (*e.g.* social network)	no	-
χ^2	homogeneous & heterogeneous	yes	normalization tend to create links toward higher degree nodes
MI	homogeneous & heterogeneous	yes	Inspired from information theory
Cramer	homogeneous & heterogeneous	yes	-
cosine	homogeneous network (eg. semantic)	yes	Classical measure (originating from scientometrics)
distributional	homogeneous network (eg. semantic)	yes	very robust measure (coming from computational linguistics)
cosine_het	affiliation network (eg. users sharing the same hashtags)	yes	two fields are required but the final network is homogeneous
dot_product_het	affiliation network (eg. users sharing the same hashtags)	no	two fields are required but the final network is homogeneous

CORTEXT

Strategic use case demonstration: geospatial and thematic analysis of INRAE's patent portfolio

Intellectual property at INRAE

Partenariat et innovation

Partenariats socioéconomiques

Nouveaux contrats de partenariats avec des partenaires socioéconomiques	408
Nombre de dispositifs de partenariats avec des partenaires socioéconomiques	**29** Unités mixtes technologiques (UMT) **5** Instituts Carnot **5** Labcom **5** LPA

Propriété intellectuelle

Déclarations d'invention et de résultats valorisables	140
Demandes de brevets déposées	30
Familles de brevets en portefeuille	405
Nouveaux certificats d'obtention végétale (COV)	20
Variétés inscrites à un catalogue officiel et/ou protégées en portefeuille	425

Valorisation

Nouveaux accords de valorisation (licence, option, etc.) sur brevet, savoir-faire, logiciel, marque, modèle	46
Licences en portefeuille	640
Nouvelles licences sur COV	19
Licences sur COV en portefeuille	1 128

Prématuration

Financement réparti sur 16 projets	700k€

Création d'entreprises

Création d'entreprises à partir de résultats INRAE	6

Recettes

Contrats de recherche avec les partenaires socioéconomiques	27,7 M€
Licences sur les certificats d'obtention végétale (COV)	3 029 k€
Licences sur brevets et savoir-faire	1 966 k€

Rapport d'activité INRAE – 2021,
https://www.inrae.fr/sites/default/files/pdf/RA2021-Web6juil.pdf

Datasets

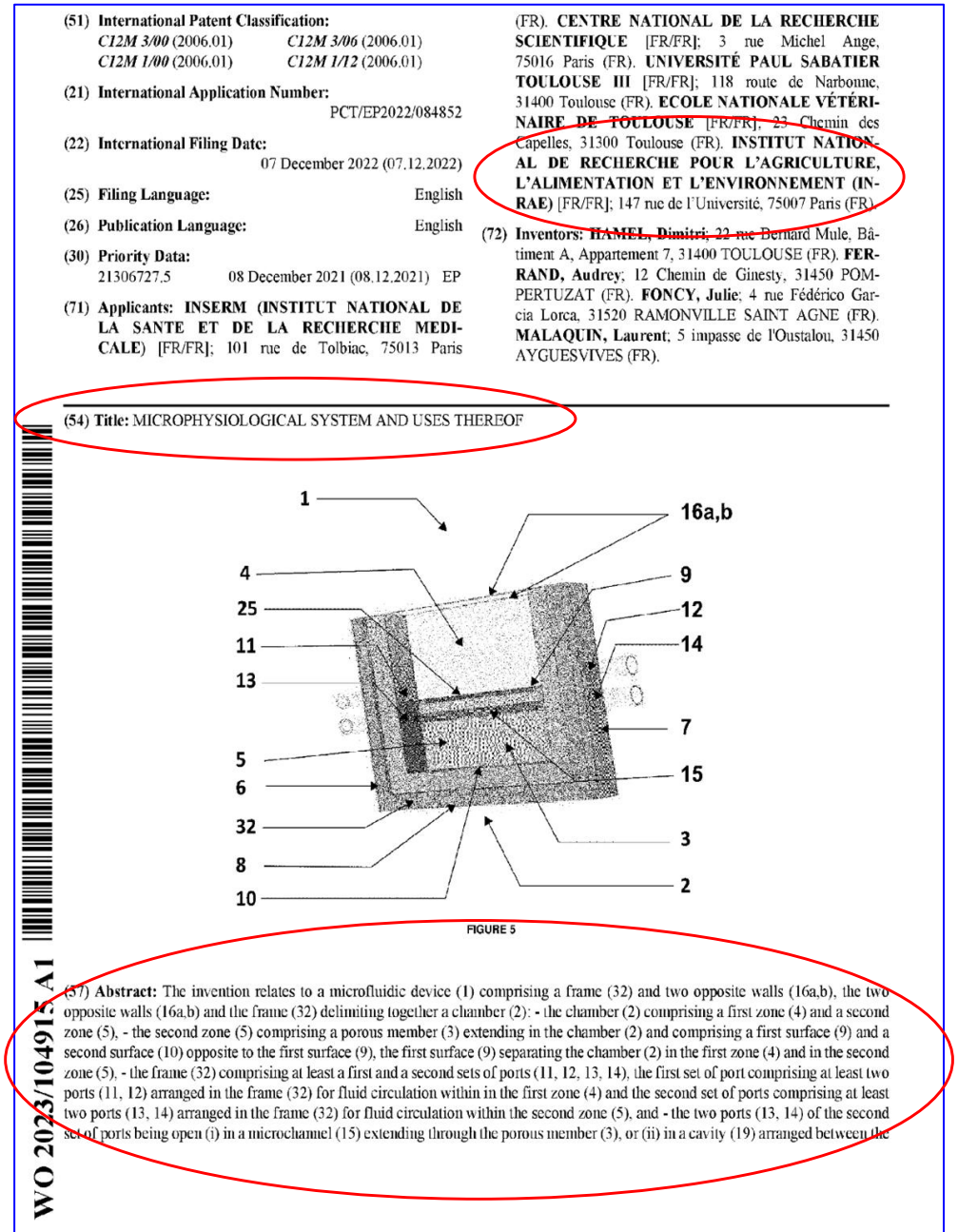
RISIS

RESEARCH INFRASTRUCTURE FOR SCIENCE AND INNOVATION POLICY STUDIES

630 INRAE priority patents identified in the RISIS Patent Database,

including **Sustainable Development Goal (SDG)** information.

Patents filed between 2000 and 2019, with the latest publications in 2021.



(51) **International Patent Classification:**
C12M 3/00 (2006.01) *C12M 3/06* (2006.01)
C12M 1/00 (2006.01) *C12M 1/12* (2006.01)

(21) **International Application Number:**
PCT/EP2022/084852

(22) **International Filing Date:**
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(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
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(71) **Applicants: INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE)** [FR/FR]; 101 rue de Tolbiac, 75013 Paris (FR). **CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE** [FR/FR]; 3 rue Michel Ange, 75016 Paris (FR). **UNIVERSITÉ PAUL SABATIER TOULOUSE III** [FR/FR]; 118 route de Narbonne, 31400 Toulouse (FR). **ECOLE NATIONALE VÉTÉRINAIRE DE TOULOUSE** [FR/FR]; 23 Chemin des Capelles, 31300 Toulouse (FR). **INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT (INRAE)** [FR/FR]; 147 rue de l'Université, 75007 Paris (FR).

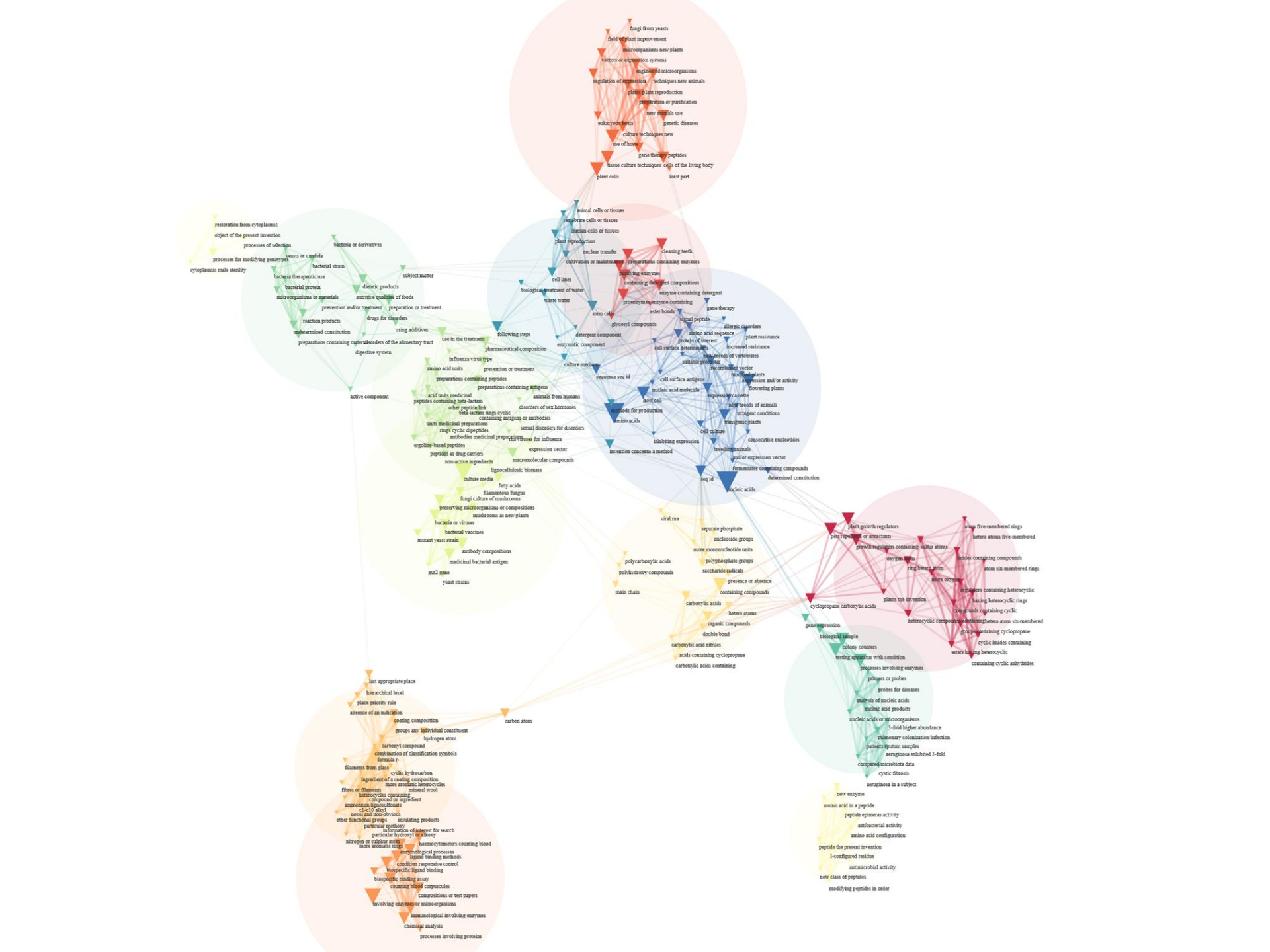
(72) **Inventors: HAMEL, Dimitri**; 22 rue Bernard Mule, Bâtiment A, Appartement 7, 31400 TOULOUSE (FR). **FERRAND, Audrey**; 12 Chemin de Ginesty, 31450 POMPERTUZAT (FR). **FONCY, Julie**; 4 rue Fédérico Garcia Lorca, 31520 RAMONVILLE SAINT AGNE (FR). **MALAQUIN, Laurent**; 5 impasse de l'Oustalou, 31450 AYGUESVIVES (FR).

(54) **Title:** MICROPHYSIOLOGICAL SYSTEM AND USES THEREOF

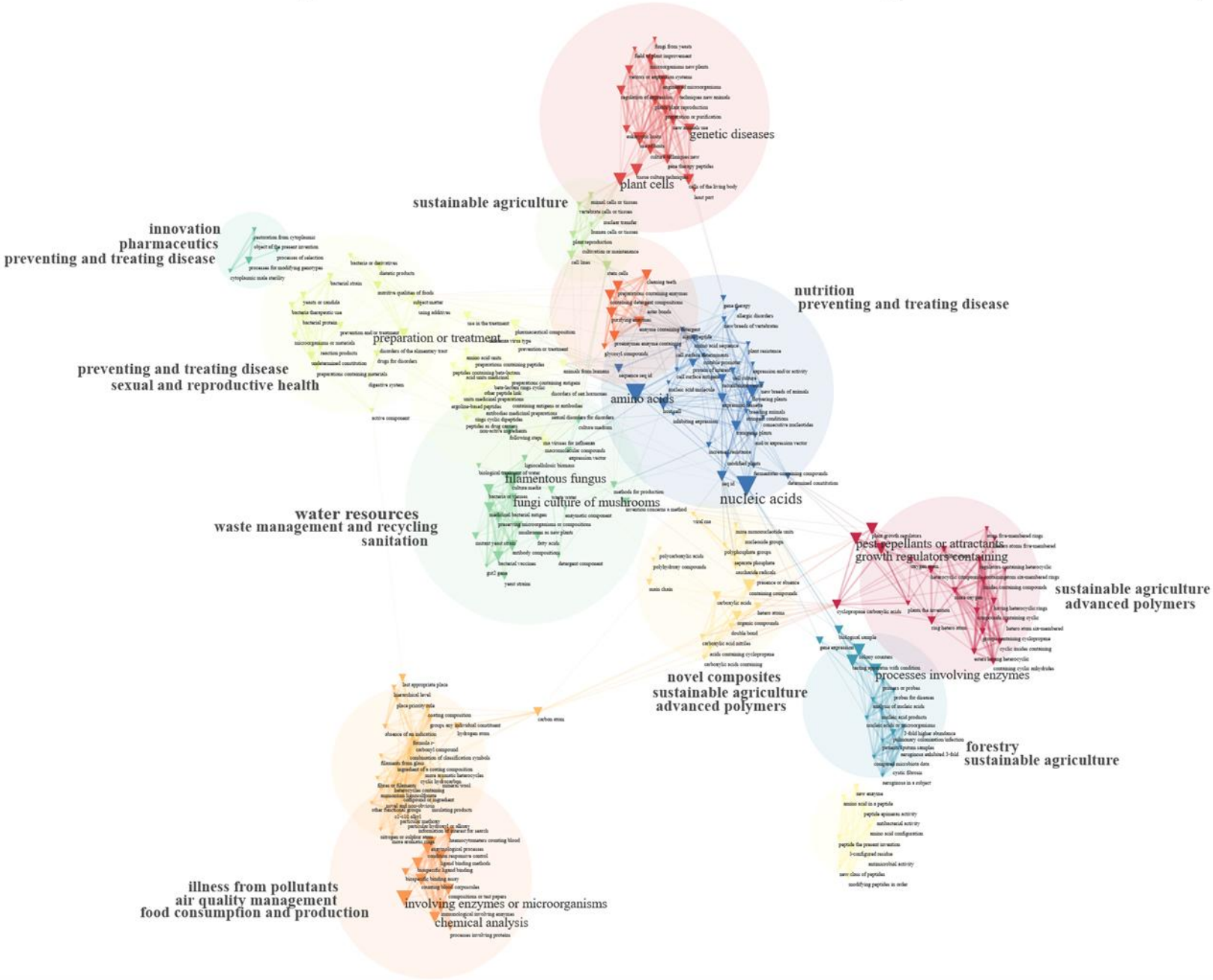
FIGURE 5

(57) **Abstract:** The invention relates to a microfluidic device (1) comprising a frame (32) and two opposite walls (16a,b), the two opposite walls (16a,b) and the frame (32) delimiting together a chamber (2): - the chamber (2) comprising a first zone (4) and a second zone (5), - the second zone (5) comprising a porous member (3) extending in the chamber (2) and comprising a first surface (9) and a second surface (10) opposite to the first surface (9), the first surface (9) separating the chamber (2) in the first zone (4) and in the second zone (5), - the frame (32) comprising at least a first and a second sets of ports (11, 12, 13, 14), the first set of port comprising at least two ports (11, 12) arranged in the frame (32) for fluid circulation within in the first zone (4) and the second set of ports comprising at least two ports (13, 14) arranged in the frame (32) for fluid circulation within the second zone (5), and - the two ports (13, 14) of the second set of ports being open (i) in a microchannel (15) extending through the porous member (3), or (ii) in a cavity (19) arranged between the

WO 2023/104915 A1


fungi from yeasts
field of plant improvement
microorganisms new plants
vectors or expression systems
engineered microorganisms
regulation of expression
techniques new animals
plants plant reproduction
preservation or purification
new animals use
eukaryotic hosts
genetic diseases
culture techniques new
use of hosts
gene therapy peptides
tissue culture techniques
cells of the living body
plant cells
least part
animal cells or tissues
vertebrate cells or tissues
human cells or tissues
plant reproduction
nuclear transfer
cleaning teeth
cultivation or maintenance
preparations containing enzymes
purifying enzymes
containing detergent compositions
cell lines
biological treatment of water
enzyme containing detergent
waste water
proenzymes enzyme containing
gene therapy
stem cells
ester bonds
signal peptide
glycosyl compounds
allergic disorders
amino acid sequence
detergent component
plant resistance
protein of interest
enzymatic component
increased resistance
cell surface determinants
new breeds of vertebrates
suitable promoter
culture medium
recombinant vector
sequence seq id
modified plants
cell surface antigens
expression and/or activity
nucleic acid molecule
flowering plants
expression cassette
host cell
new breeds of animals
methods for production
stringent conditions
amino acids
transgenic plants
cell culture
consecutive nucleotides
inhibiting expression
invention concerns a method
treated animals
and/or expression vector
fermentates containing compounds
seq id
determined constitution
nucleic acids
restoration from cytoplasmic
object of the present invention
processes of selection
bacteria or derivatives
yeasts or candida
processes for modifying genotypes
bacterial strain
cytoplasmic male sterility
subject matter
bacteria therapeutic use
dietetic products
bacterial protein
nutritive qualities of foods
microorganisms or materials
prevention and/or treatment
preparation or treatment
reaction products
drugs for disorders
undetermined constitution
using additives
preparations containing materials
disorders of the alimentary tract
use in the treatment
following steps
digestive system
pharmaceutical composition
influenza virus type
amino acid units
prevention or treatment
preparations containing peptides
preparations containing antigens
active component
acid units medicinal
animals from humans
peptides containing beta-lactam
disorders of sex hormones
other peptide link
beta-lactam rings cyclic
containing antigens or antibodies
units medicinal preparations
sexual disorders for disorders
rings cyclic dipeptides
antibodies medicinal preparations
flu viruses for influenza
ergoline-based peptides
expression vector
peptides as drug carriers
macromolecular compounds
non-active ingredients
lignocellulosic biomass
culture media
fatty acids
filamentous fungus
fungi culture of mushrooms
preserving microorganisms or compositions
mushrooms as new plants
bacteria or viruses
bacterial vaccines
mutant yeast strain
antibody compositions
medicinal bacterial antigen
gut2 gene
yeast strains
viral rna
separate phosphate
nucleoside groups
more mononucleotide units
polyphosphate groups
saccharide radicals
polycarbenylic acids
polyhydroxy compounds
presence or absence
containing compounds
main chain
carboxylic acids
hetero atoms
organic compounds
double bond
carbenylic acid nitriles
acids containing cyclopropane
carboxylic acids containing
plant growth regulators
pest repellents or attractants
growth regulators containing sulfur atoms
oxygen atoms
ring hetero atom
more oxygen
plants the invention
cyclopropane carboxylic acids
gene expression
biological sample
colony counters
testing apparatus with condition
processes involving enzymes
primers or probes
probes for diseases
analysis of nucleic acids
nucleic acid products
nucleic acids or microorganisms
3-fold higher abundance
pulmonary colonization/infection
patients sputum samples
aeruginosa exhibited 3-fold
compared microbiota data
cystic fibrosis
aeruginosa in a subject
new enzyme
amino acid in a peptide
peptide epimeras activity
antibacterial activity
amino acid configuration
peptide the present invention
l-configured residue
antimicrobial activity
new class of peptides
modifying peptides in order
atoms five-membered rings
hetero atoms five-membered
imides containing compounds
atom six-membered rings
oxygens containing heterocyclic
having heterocyclic rings
compounds containing cyclic
heterocyclic compounds containing hetero atom six-membered
groups containing cyclopropane
cyclic imides containing
esters having heterocyclic
containing cyclic anhydrides
last appropriate place
hierarchical level
place priority rule
absence of an indication
coating composition
carbon atom
groups any individual constituent
hydrogen atom
carbonyl compound
combination of classification symbols
formula i-
filaments from glass
cyclic hydrocarbon
ingredient of a coating composition
more aromatic heterocycles
fibres or filaments
mineral wool
heterocycles containing
compound or ingredient
ammonium lignosulfonate
c1-c10 alkyl
novel and non-obvious
other functional groups
insulating products
particular methoxy
information of interest for search
particular hydroxyl or alkoxy
nitrogen or sulphur atom
haemocytometers counting blood
more aromatic rings
enzymological processes
ligand binding methods
condition responsive control
biospecific ligand binding
biospecific binding assay
counting blood corpuscules
compositions or test papers
involving enzymes or microorganisms
immunological involving enzymes
chemical analysis
processes involving proteins

Clusters thématiques et Sustainable Development Goals (SDGs)



https://retina.cortext.net/#/graph/?url=https%3A%2F%2Fassets.cortext.net%2Fdocs%2F9a9000a3bac9ac5422e5b2da2bf317ad&s=w-n&sa[]=w-n&sa[]=be&sa[]=re&ca=cll&st[]=w-n&st[]=be&st[]=re&st[]=cll&nr=0.979&lt=3.819

Mapping inventive capacities

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International Bureau

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WIPO | PCT

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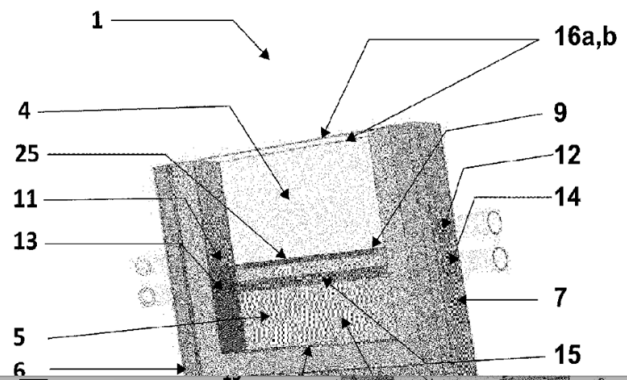
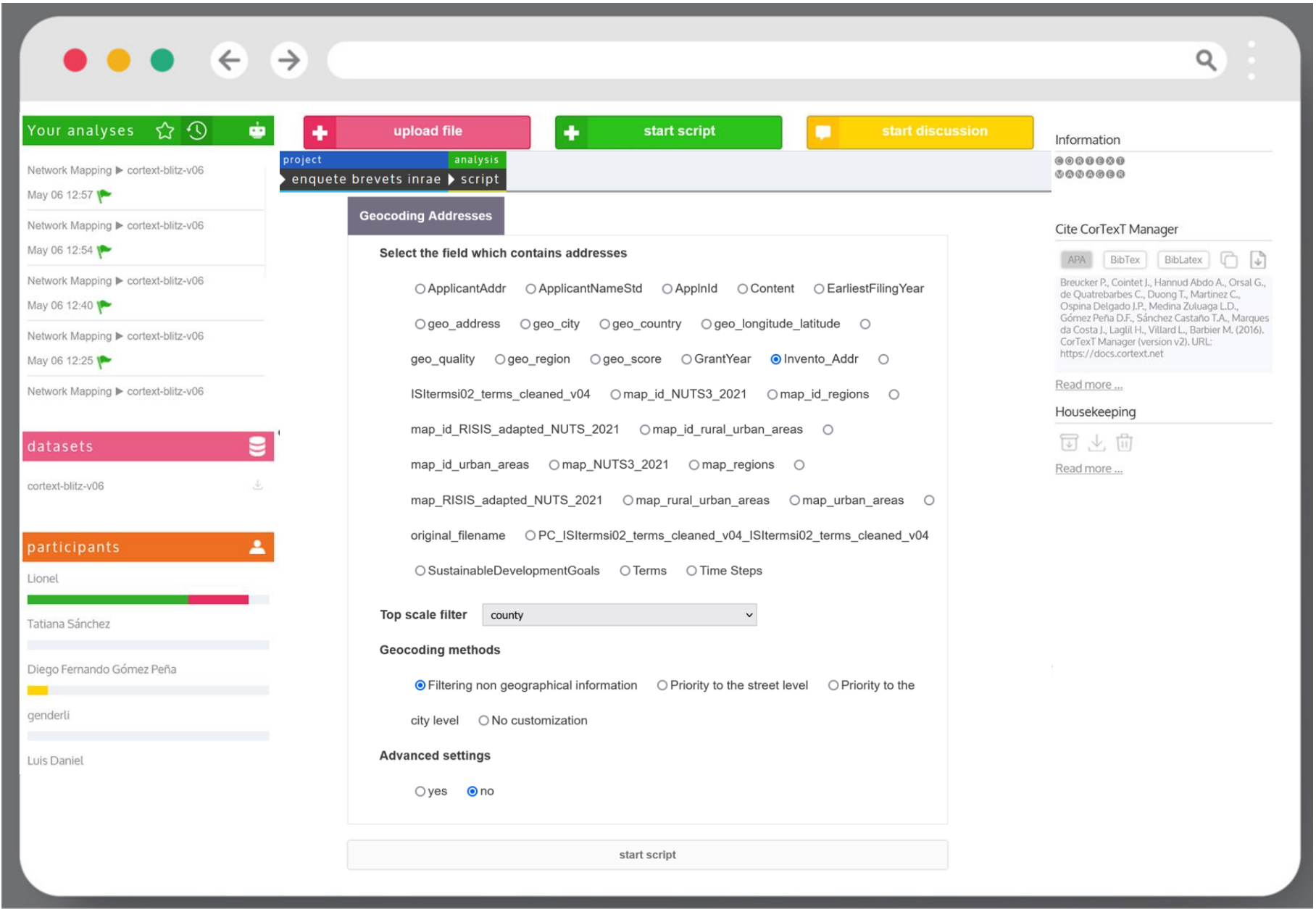
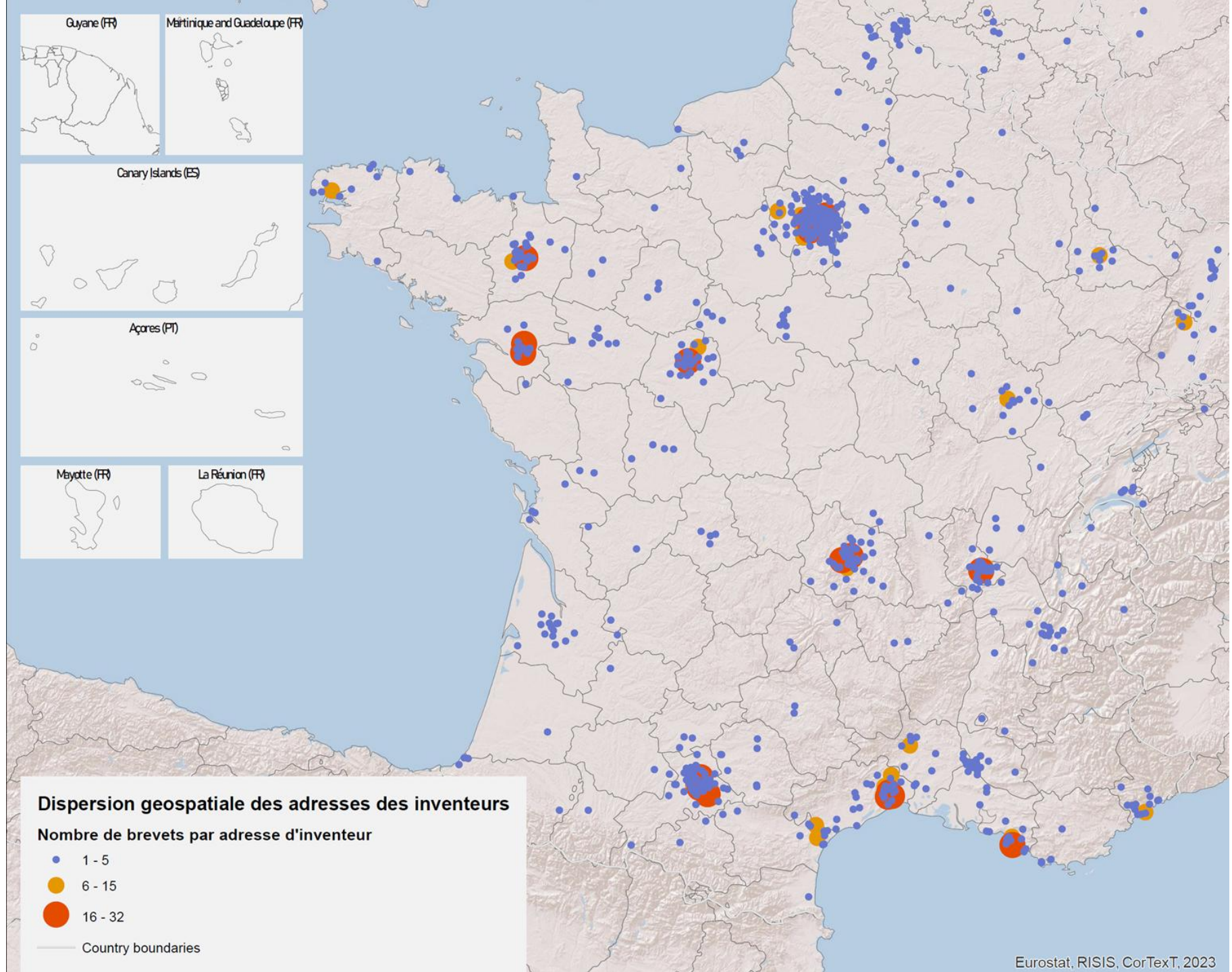
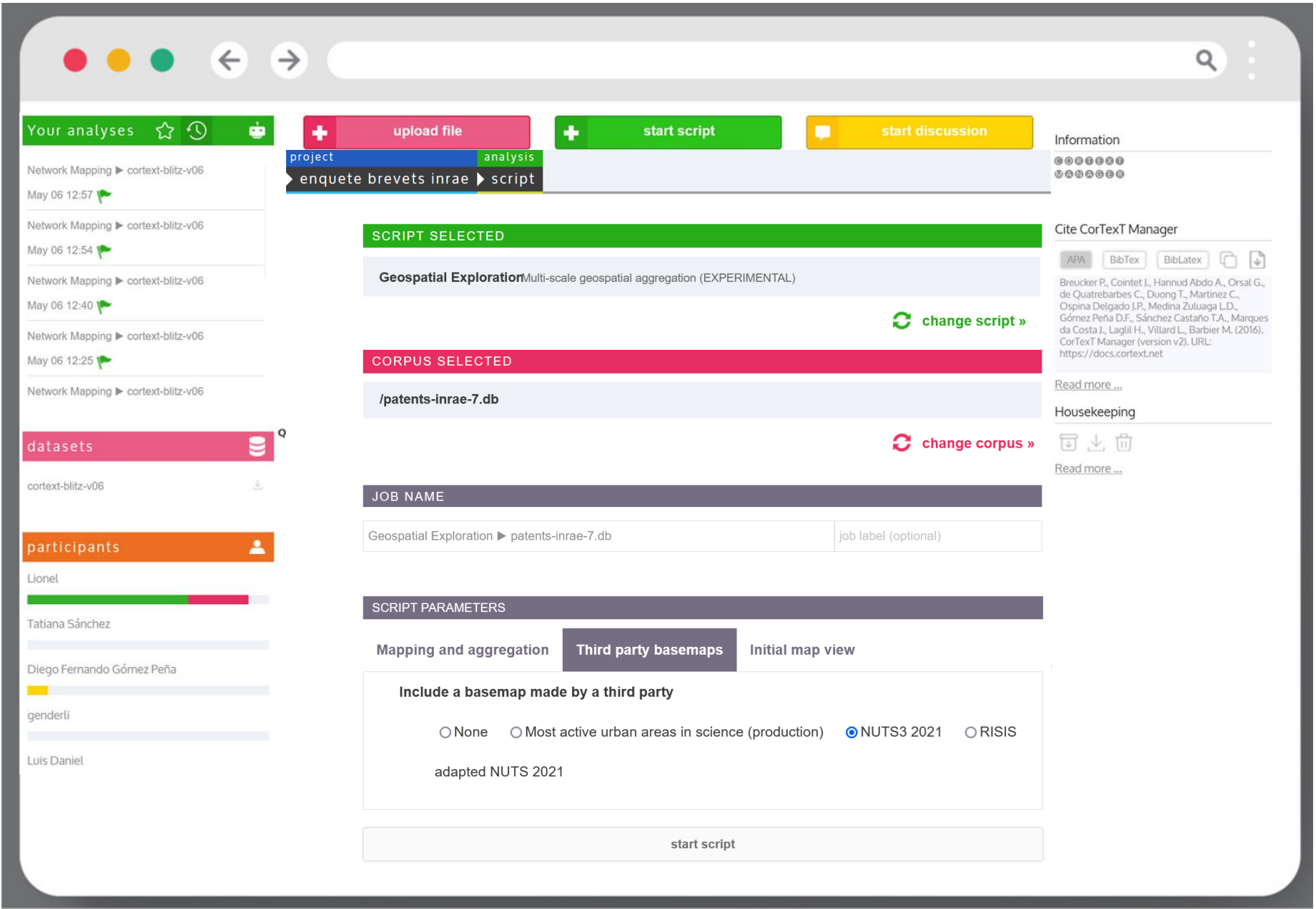


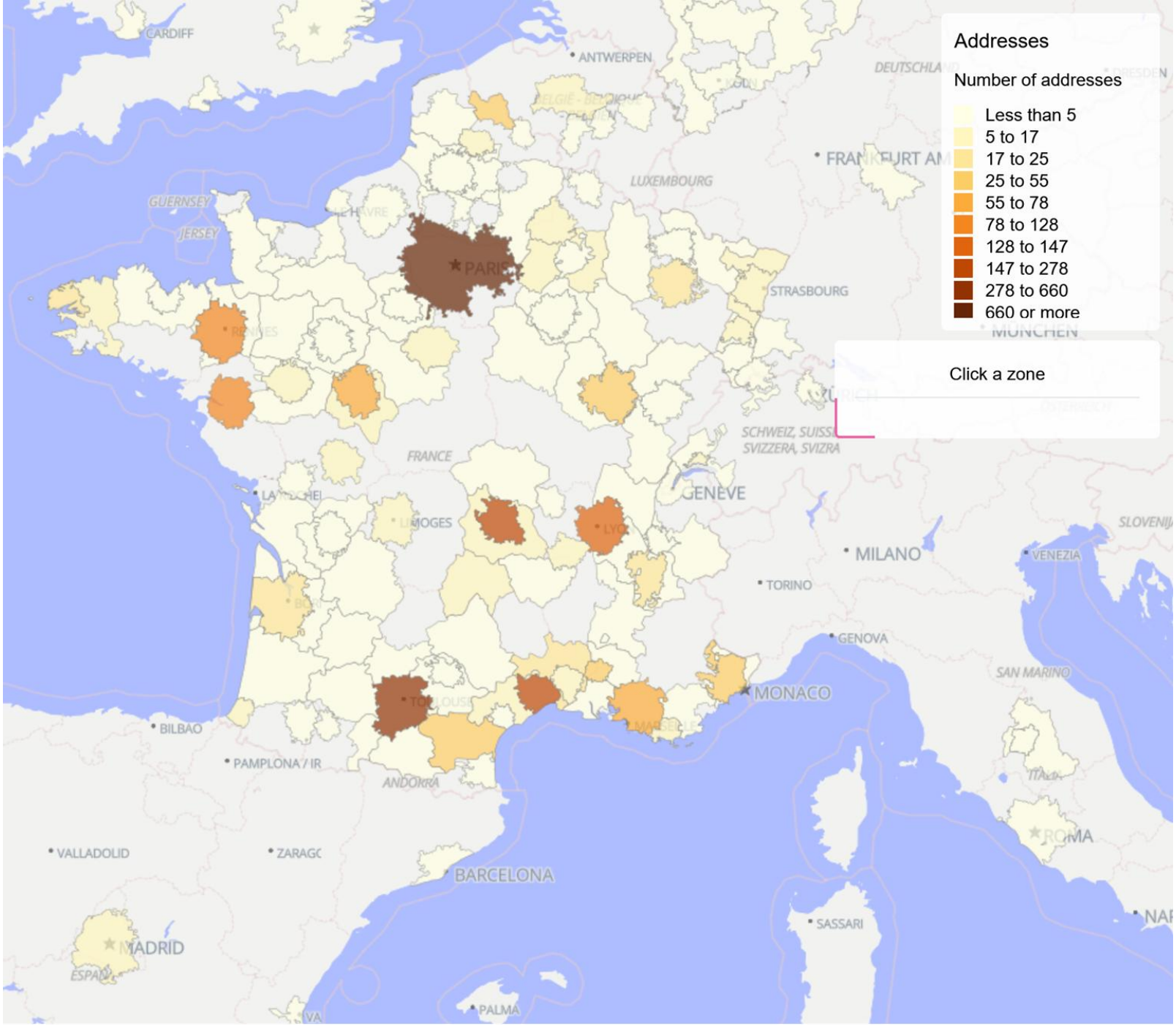
Geocoding inventors' addresses




Guyane (FR)
Martinique and Guadeloupe (FR)
Canary Islands (ES)
Açores (PT)
Mayotte (FR)
La Réunion (FR)
Dispersion geospatiale des adresses des inventeurs
Nombre de brevets par adresse d'inventeur
1 - 5
6 - 15
16 - 32
Country boundaries
Eurostat, RISIS, CorTexT, 2023

Visualizing the inventive capacity of urban (or rural) areas





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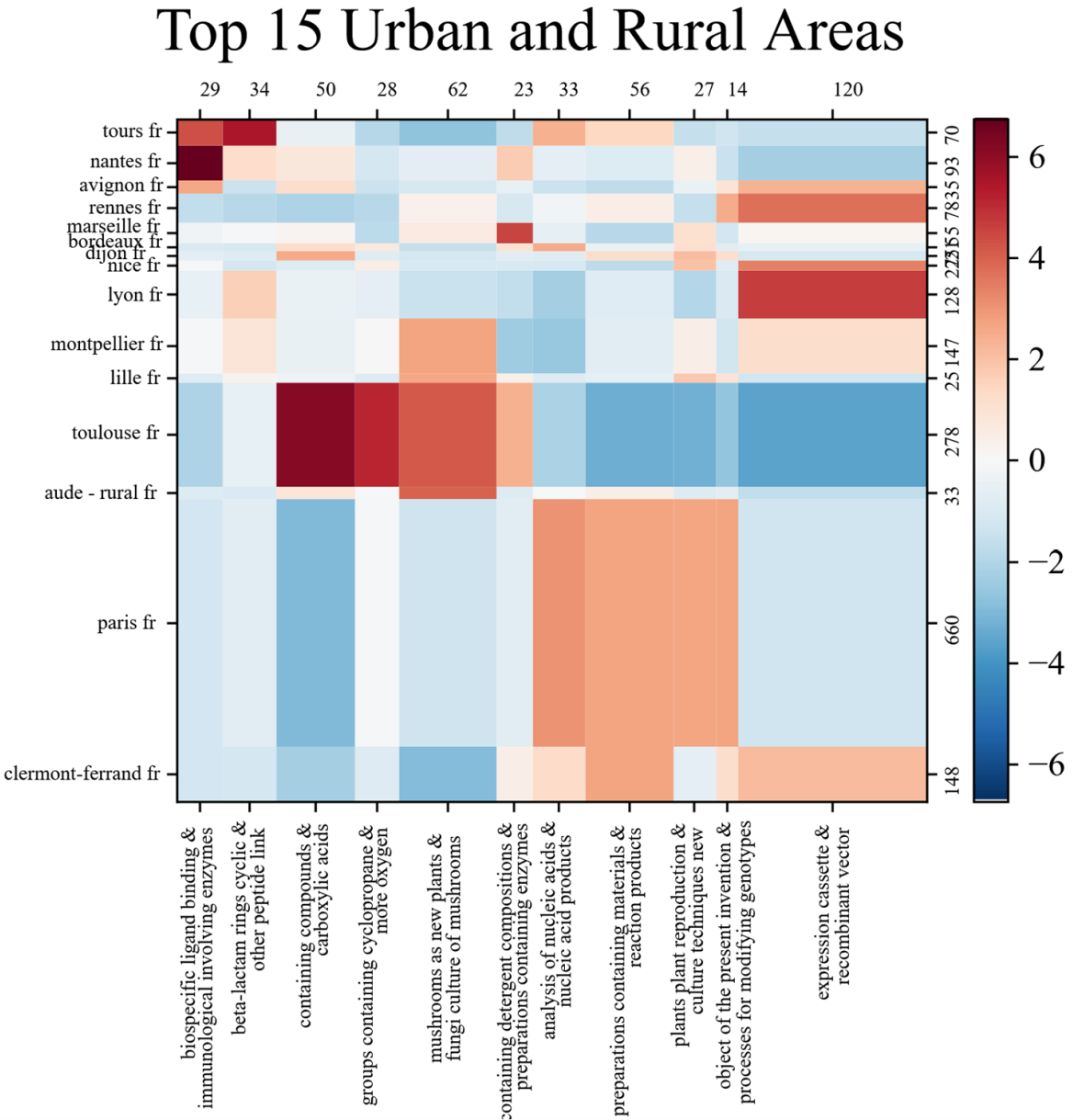
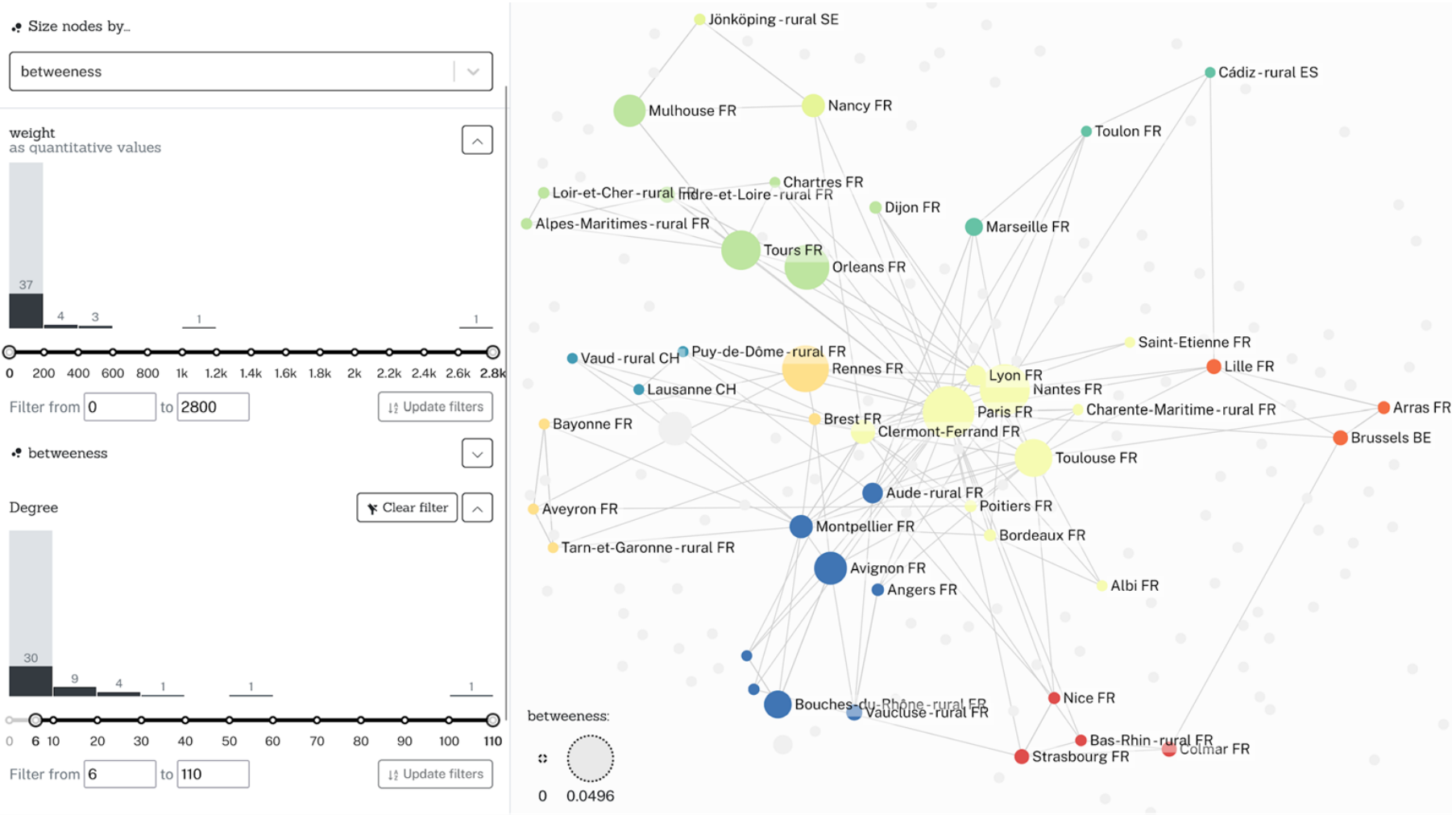
Levels of specialization of urban (or rural) areas



Global collaboration network between urban and rural areas



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The Cortext platform and strategic intelligence

Two use cases

- Analysis of a controversial research domain
- Deployment of an institute's inventive capacity

Cortext helps assess current and past situations in order to support:

- Strategic positioning
- Comparative analysis
- Benchmarking

Across four analytical dimensions:

- Topics
- Actors
- Places
- Time

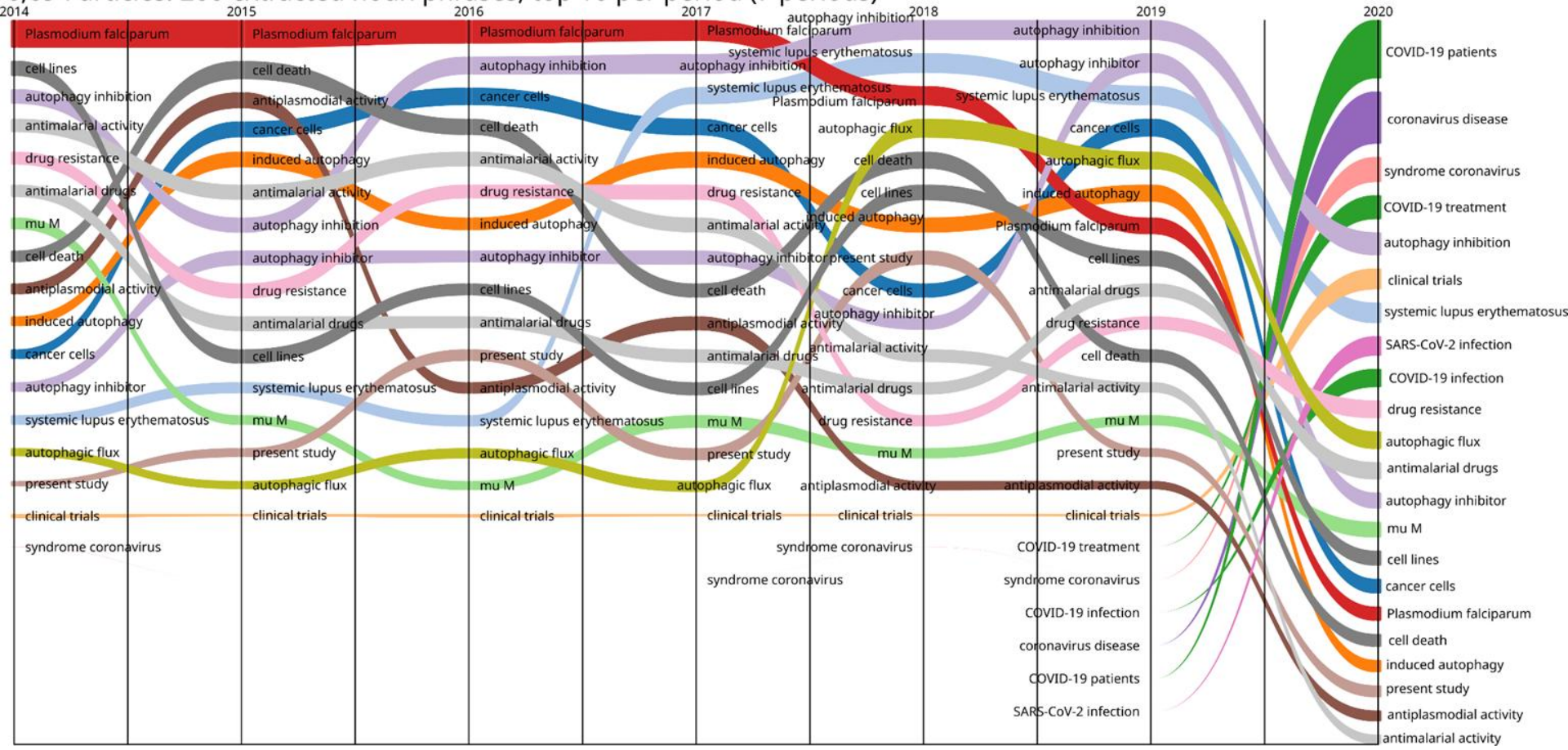
What about a forward-looking perspective?

CORTEXT

Strategic use case demonstration: analysis of a controversial research field

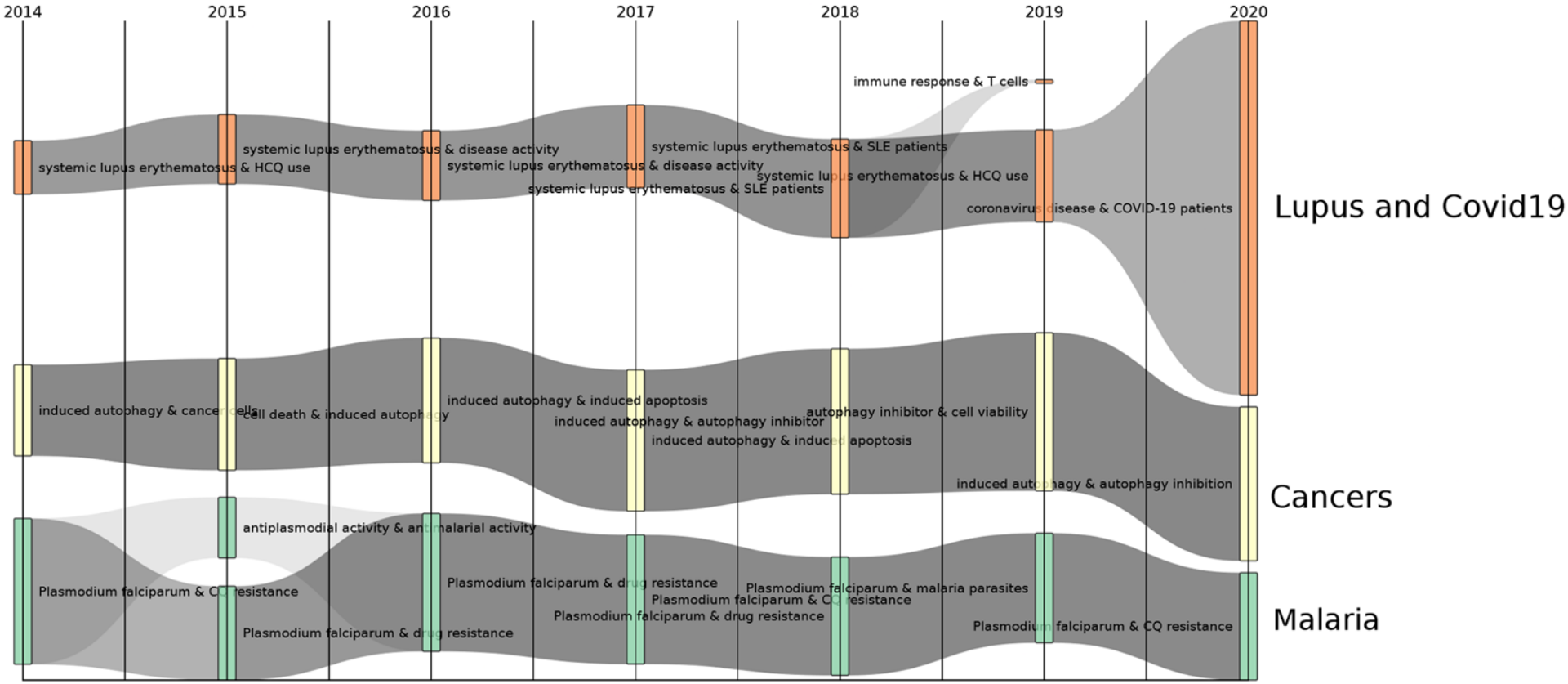
Chloroquine and Hydroxychloroquine, scientific articles (WOS)

6,694 articles: 200 extracted noun phrases, top 10 per period (7 periods)



Semantic landscape evolution for Chloroquine and Hydroxychloroquine

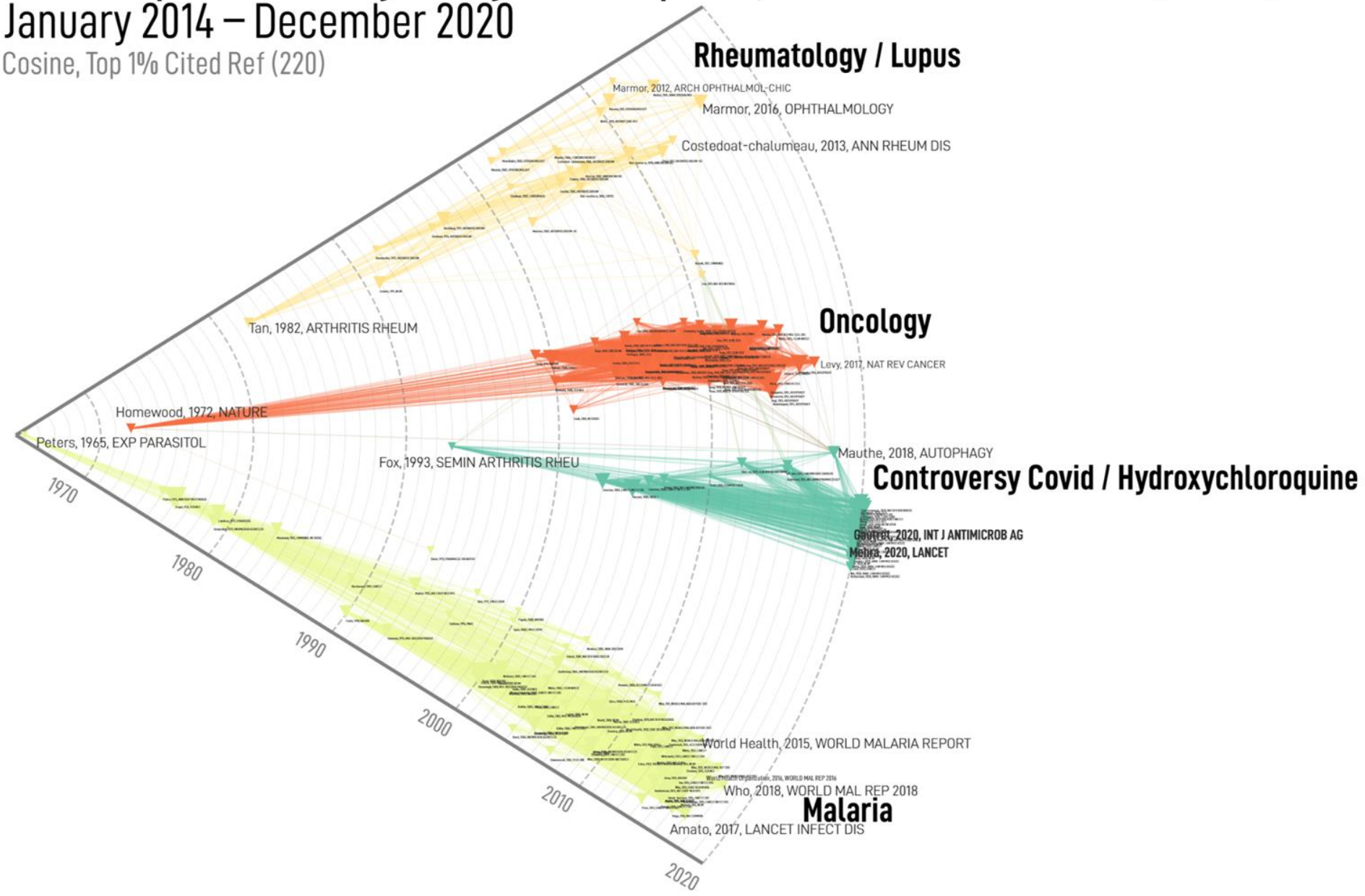
6694 scientific articles (wos), 200 extracted noun phrases, distributional, louvain resolution



Chloroquine and Hydroxychloroquine, scientific articles (WOS)

January 2014 – December 2020

Cosine, Top 1% Cited Ref (220)

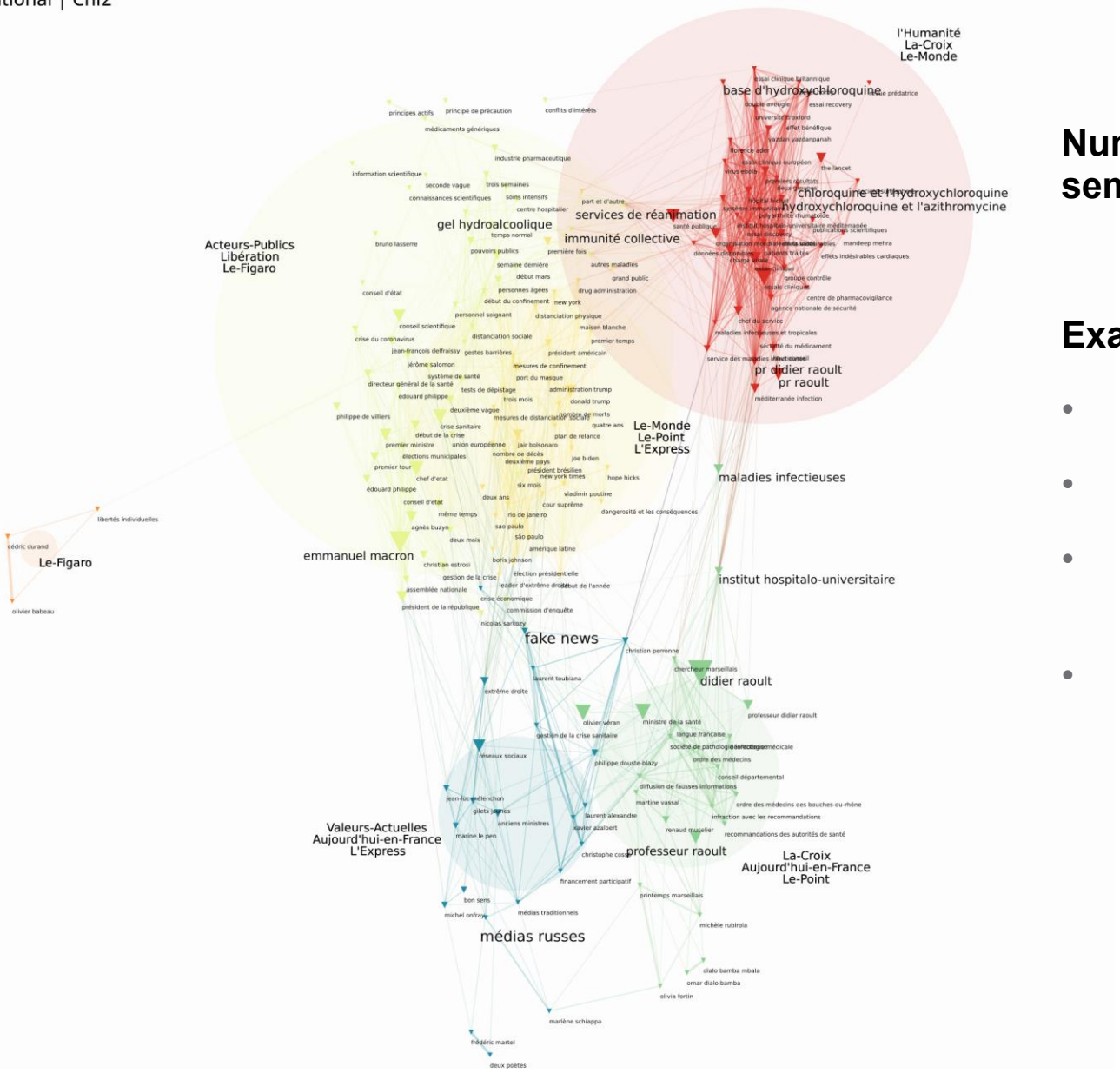


Visualizations and the three levels of interpretation

Macro-level perspective

Chloroquine | French national newspapers | January 2020 - November 2020

Distributional | Chi2

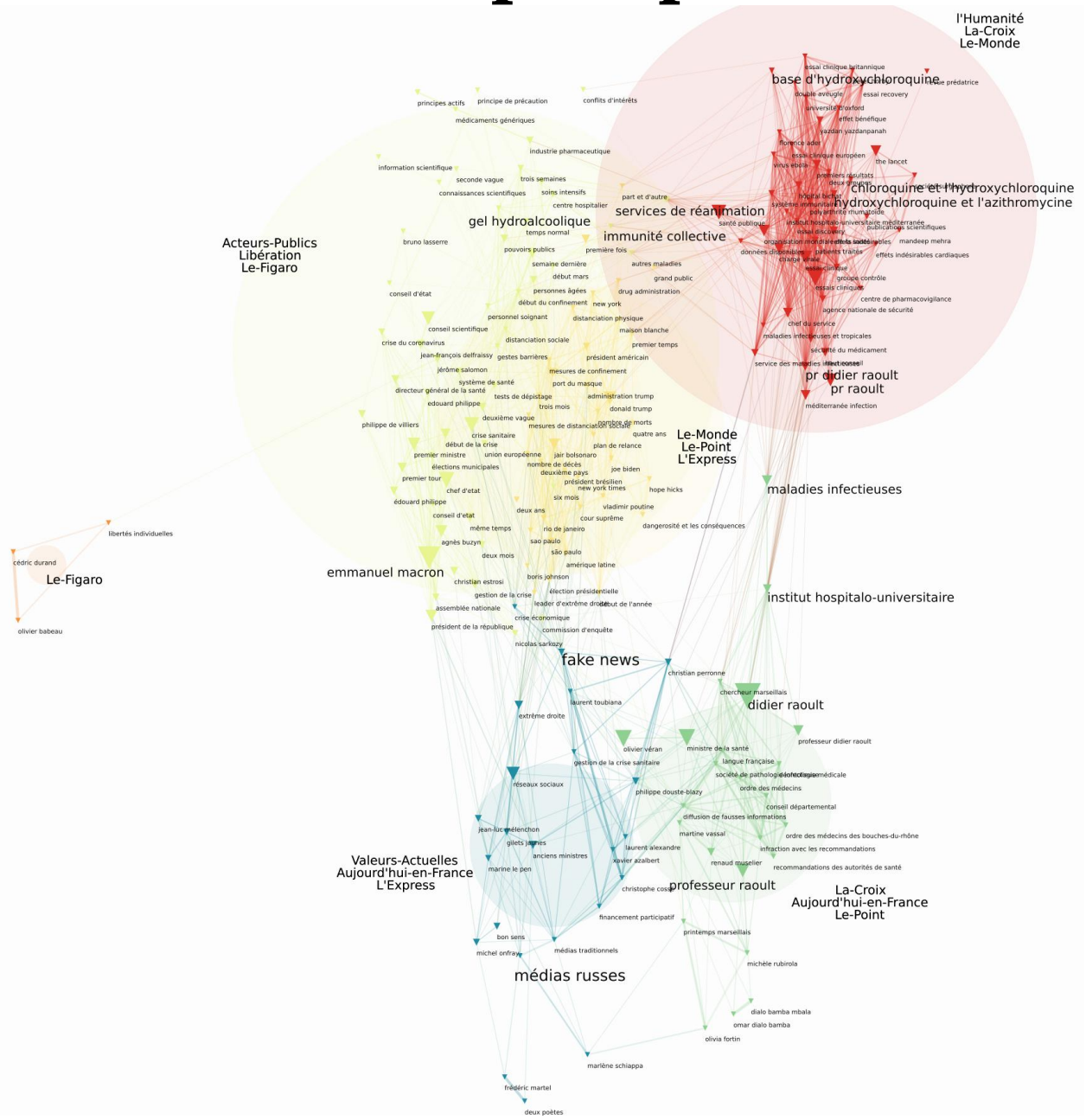


Number of clusters / semantic spaces

Examples of metrics

- Number of clusters
- Network density
- Centralized or distributed network
- …

Meso-level perspective

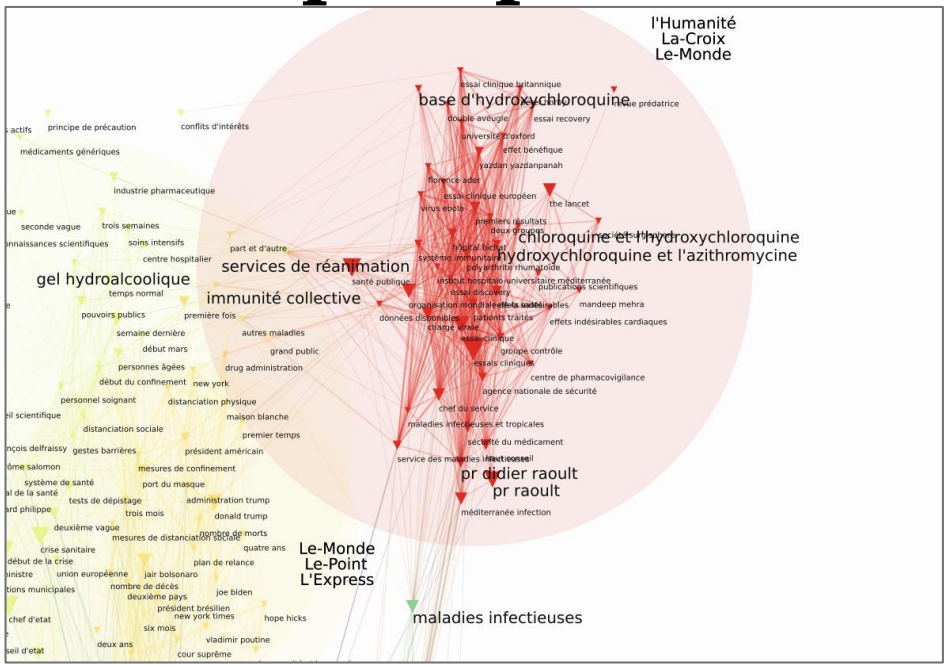


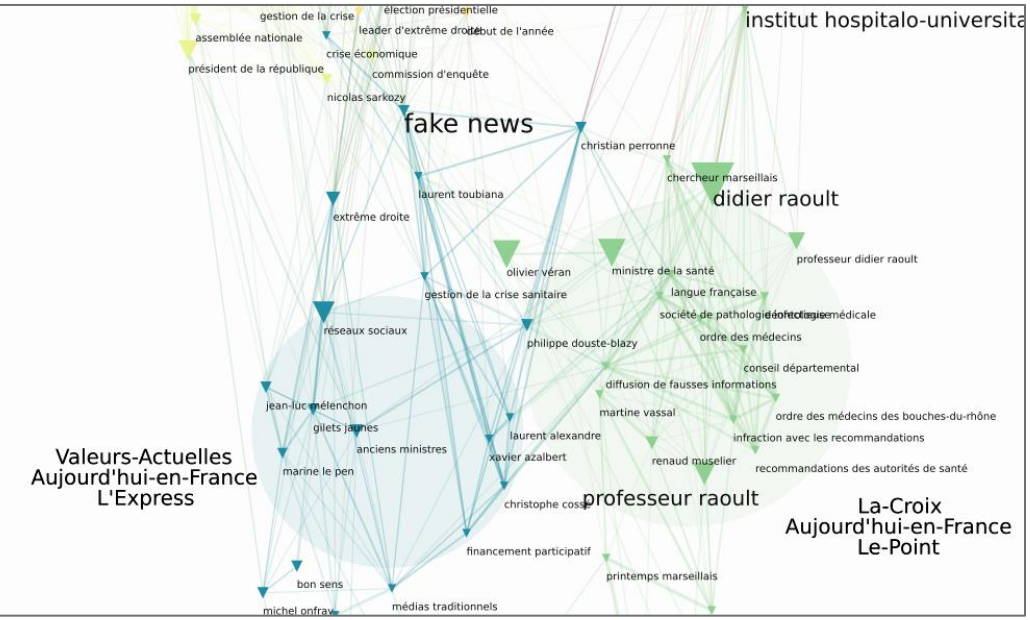
Proximity between clusters / interstitial semantic spaces

Examples of metrics

- Distances between clusters
- Number of links or shared documents
- Relative size and importance of clusters
- Intra-cluster density

Micro-level perspective





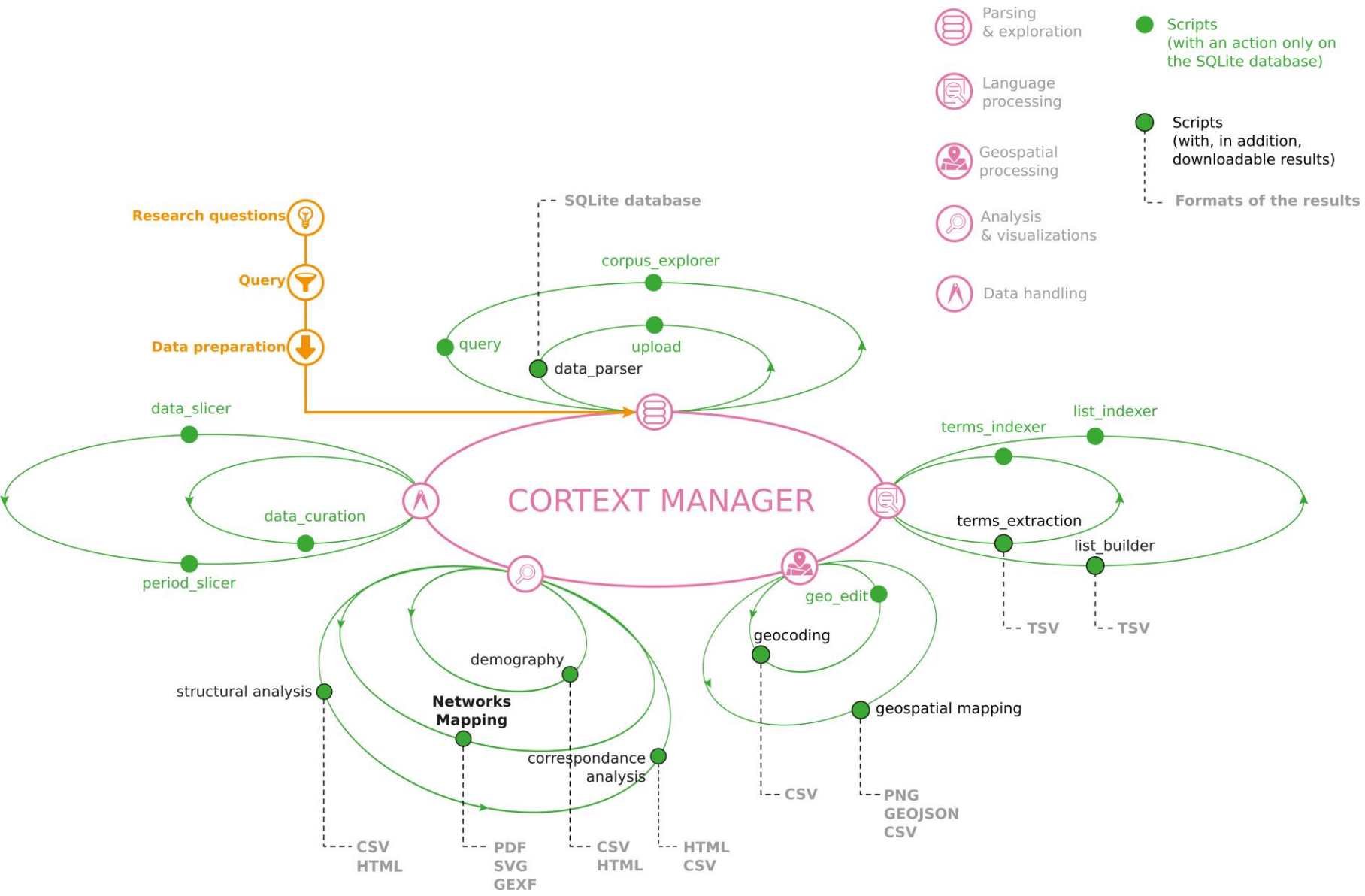
Local interpretation of cluster composition

And node positions

Examples of metrics

- Node centrality measures
- Cluster composition
- Overlaps between clusters

Cortext Manager galaxy



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https://docs.cortext.net/

→ https://docs.cortext.net/trainings/cortext-ufba-2026/

Et

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