FOSDEM'23 Brussels 4 & 5 February 2023

LISIS LABORATOIRE INTERDISCIPLINAIRE Sciences Innovations Sociétés

CORTEXT

An open platform for research in the social sciences and humanities
Methodological expertise — Infrastructure — Cloud services

Lionel Villard
Alexandre Hannud Abdo
Joenio Marques da Costa
Jean-Philippe Cointet
Philippe Breucker
Marc Barbier

INRAE
Université Gustave Eiffel
ESIEE PARIS
cnrs

But what is a CorTexT, anyway?

CORTEXT platform

*"Its primary goal is that a **social scientist** - or other user - can come with **a research question** and leave us **enjoying the benefits of a computational method** that fits to their question."*

Origins

Born in 2009, **driven by social science researches** and sustained by the development of a technical infrastructure and computational methods.

- Supported originally by the french institut INRA
- Joined by LISIS, and H2020 RISIS

IFRIS Institute For Research and Innovation in Society

LabEx Science, Innovation and TEchnology in Society

RISIS RESEARCH INFRASTRUCTURE FOR SCIENCE AND INNOVATION POLICY STUDIES

Two major versions of CorTexT Manager web app: v1 (2011) and v2 (2016)

- Originally designed **for social scientists**: low computing power required, no coding
- **Collaborative**
- **No need to leave the interface** to access and combine analytical dimensions
- **Discover from the unexpected: very permissive** way of handling data types and parameters, all algorithms and methods are “runnable” on all variables

Look around

For greater glory!

- Over 250 peer-reviewed publications total
- At least 75 documents published in 2022
- In 2022, 50K analysis have been performed by the IT infrastructure, launched by over 1 000 users coming from more than 400 institutions located in about 50 countries

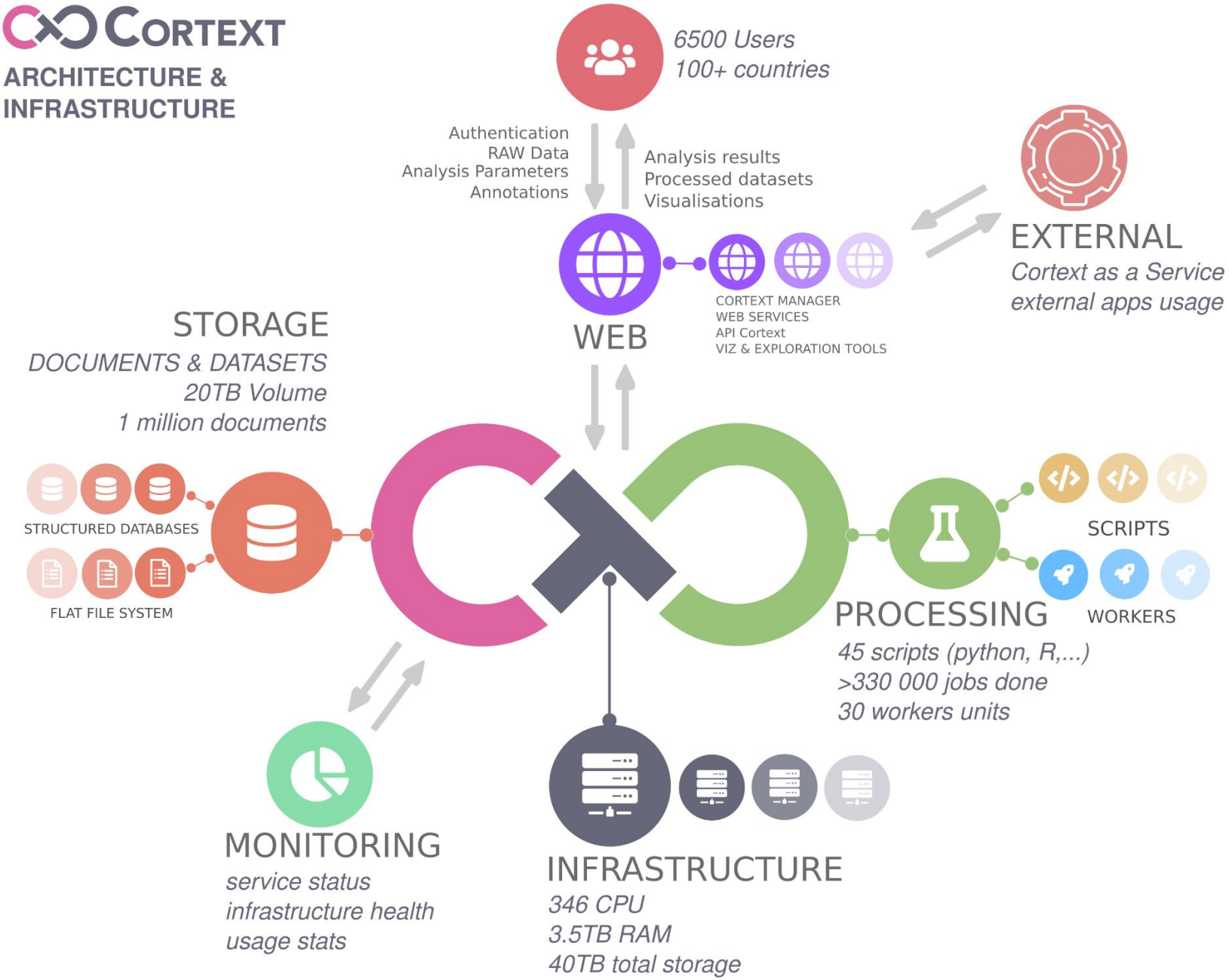
Team in 2023

- 8 technical (3' permanent)
- 2 researchers (2' permanent)
- 1 trainees
- 2 close collaborators

Université Gustave Eiffel

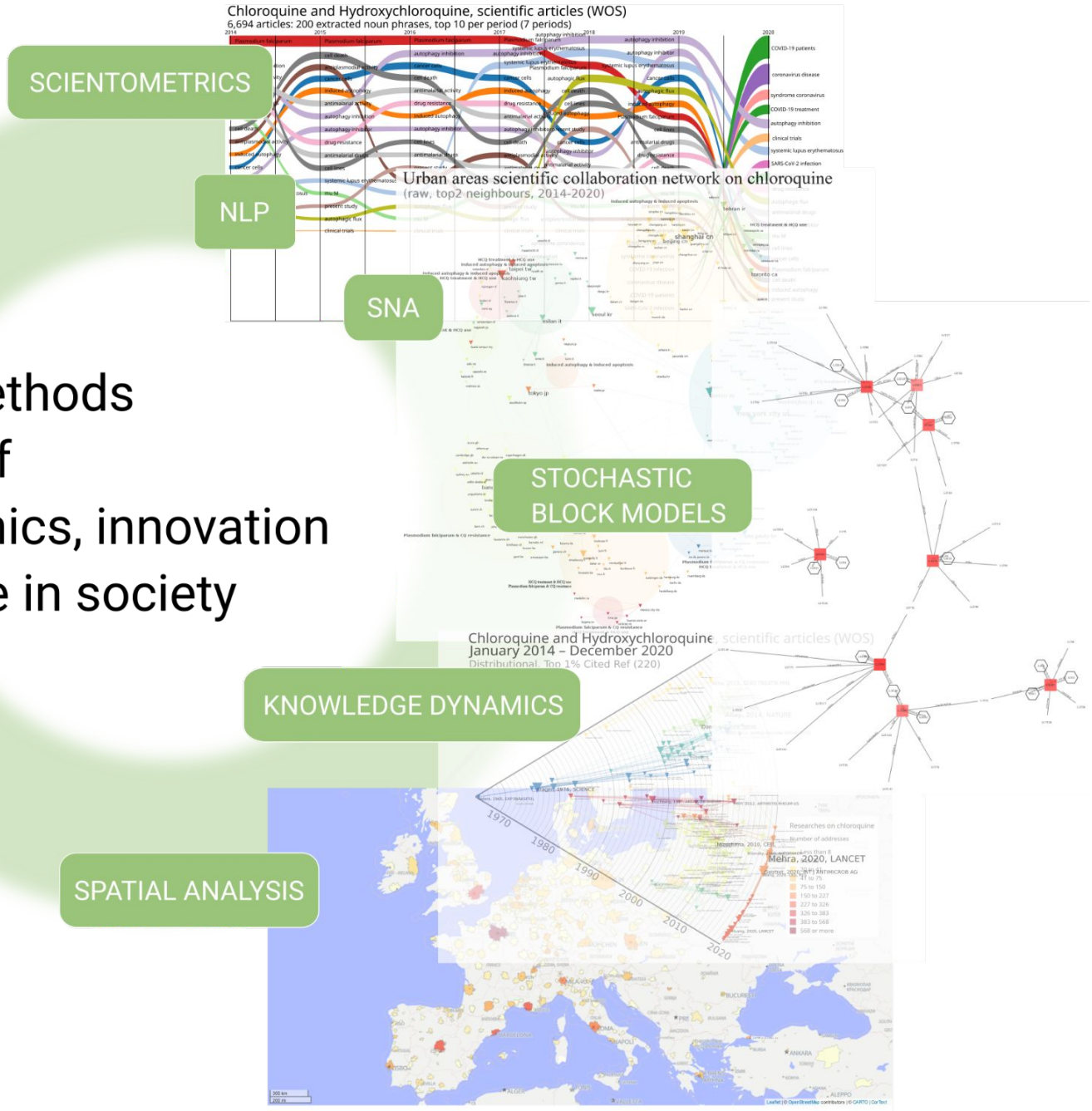
Le Grand PARIS EXPRESS

CORTEXT
ARCHITECTURE & INFRASTRUCTURE



CorTexT in science

A variety of methods
for the study of
science dynamics, innovation
and knowledge in society



CorTexT visibility and recognition

How to cite CorTexT Manager
(August 2022)

https://docs.cortext.net/how-to-cite-cortext-manager
https://github.com/cortext/how-to-cite-cortext

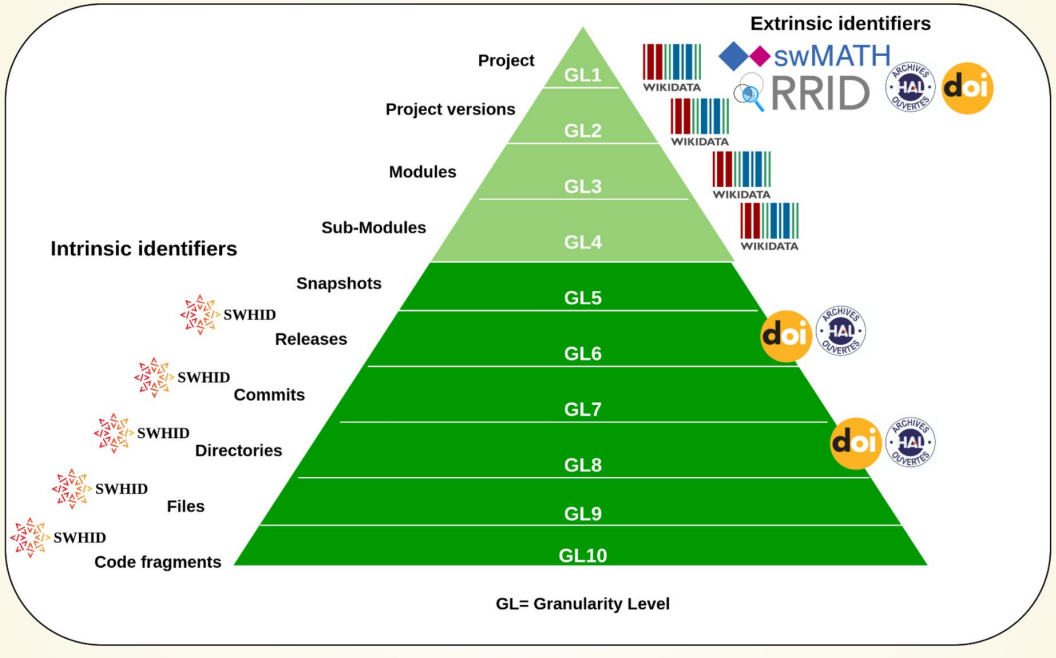
[SW] Philippe Breucker et al., *CorTexT Manager* version v2 (Coord.by Marc Barbier and Lionel Villard), Oct. 28, 2016. CorTexT Platform, Laboratoire Interdisciplinaire Sciences Innovations Sociétés (LISIS). URL: `https://docs.cortext.net`(visited on 01/31/2022), VCS: `https://github.com/cortext/how-to-cite-cortext`.

CITATION.cff: Citation File Format (CFF)

CorTexT visibility and recognition

To reinforce the cumulative effect (still need to be discussed in 2023)

- a DOI maybe (?)
- persistent identifier: SWHID from Software Heritage?



softwareheritage.org/faq/#32_What_can_be_identified_with_a_SWHID

Three ways of open

FLOSS in Cortext's infrastructure

No platform without FLOSS!

- in methods
- in interfaces
- in backends
- in docs and q&a

Cortext infra as FLOSS

Setting the stage for openness

- Gitlab (https://gitlab.com/cortext)
- Matrix (#cortext-welcome:matrix.org)
- Cortextlib (https://gitlab.com/cortext/cortext-methods/cortextlib)
- Containers (Docker ✅ ; Guix ❓)
- Strategic planning (Horizons stratégiques 2020 – 2023)

The challenge of producing FLOSS

- Lack of know-how
- Resources and priorities
- Learning curve of open culture and its tooling
- FUD 4evah

CorTexT science as FLOSS

Opening software at CorTexT

- SASHIMI (https://gitlab.com/solstag/abstractology)
- Istex importer (https://gitlab.com/cortext/cortext-methods/istex)
- Parscival (https://gitlab.com/cortext/cortext-methods/parscival)
- Kansatsu (https://gitlab.com/cortext/kansatsu/kansatsu)
- Named entity recognizer (in progress 🚧)
- …

THANK YOU !

@CorTexT_team

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

https://docs.cortext.net/

Your analyses

Network Mapping ▶ cortext-blitz-v06
May 06 12:57

Network Mapping ▶ cortext-blitz-v06
May 06 12:54

Network Mapping ▶ cortext-blitz-v06
May 06 12:40

Network Mapping ▶ cortext-blitz-v06
May 06 12:25

Network Mapping ▶ cortext-blitz-v06

datasets

cortext-blitz-v06

participants

Lionel

Tatiana Sánchez

Diego Fernando Gómez Peña

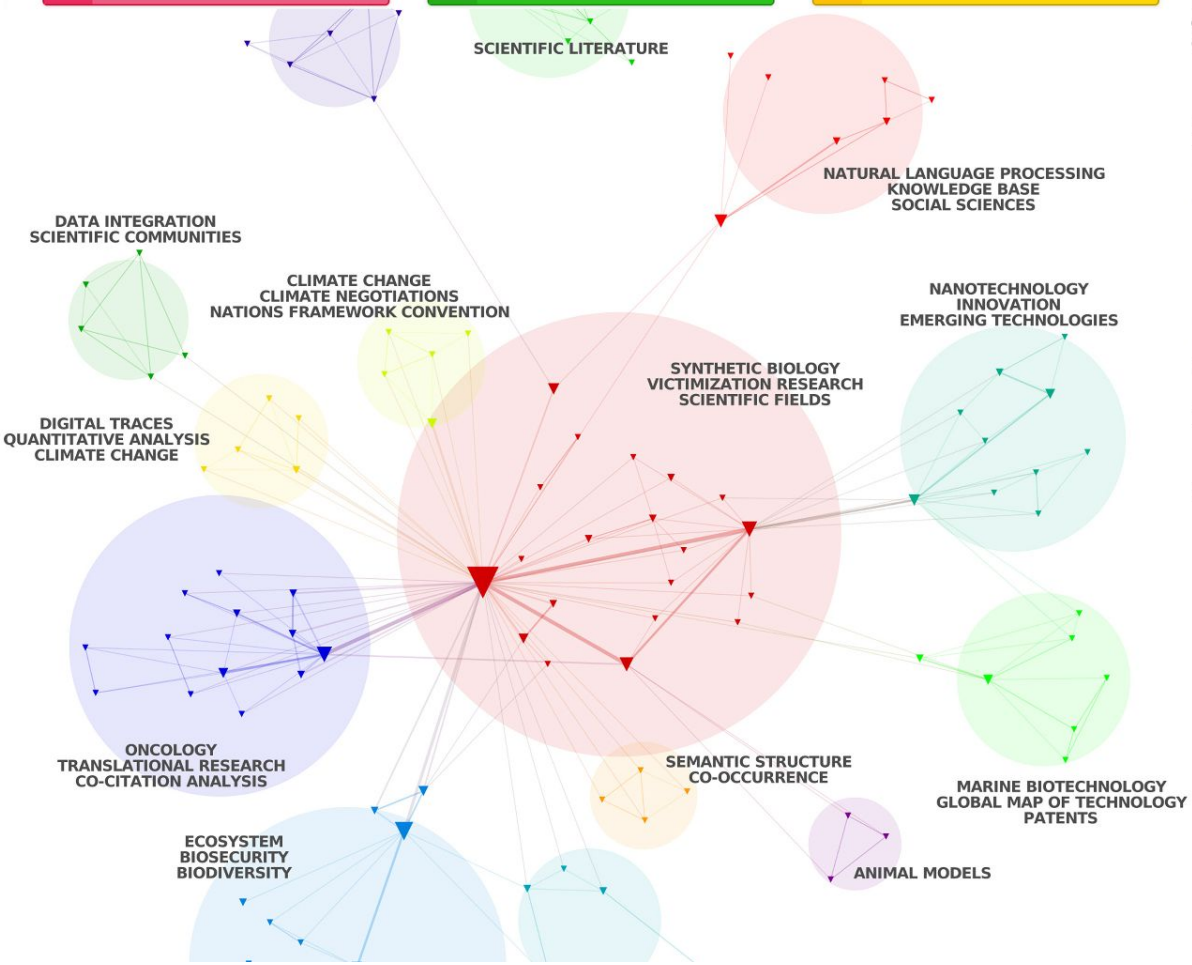
genderli

Luis Daniel

upload file

start script

start discussion



Information

CORTEXT MANAGER

Cite CorTexT Manager

APA BibTex BibLatex

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

Read more ...

Housekeeping

Read more ...