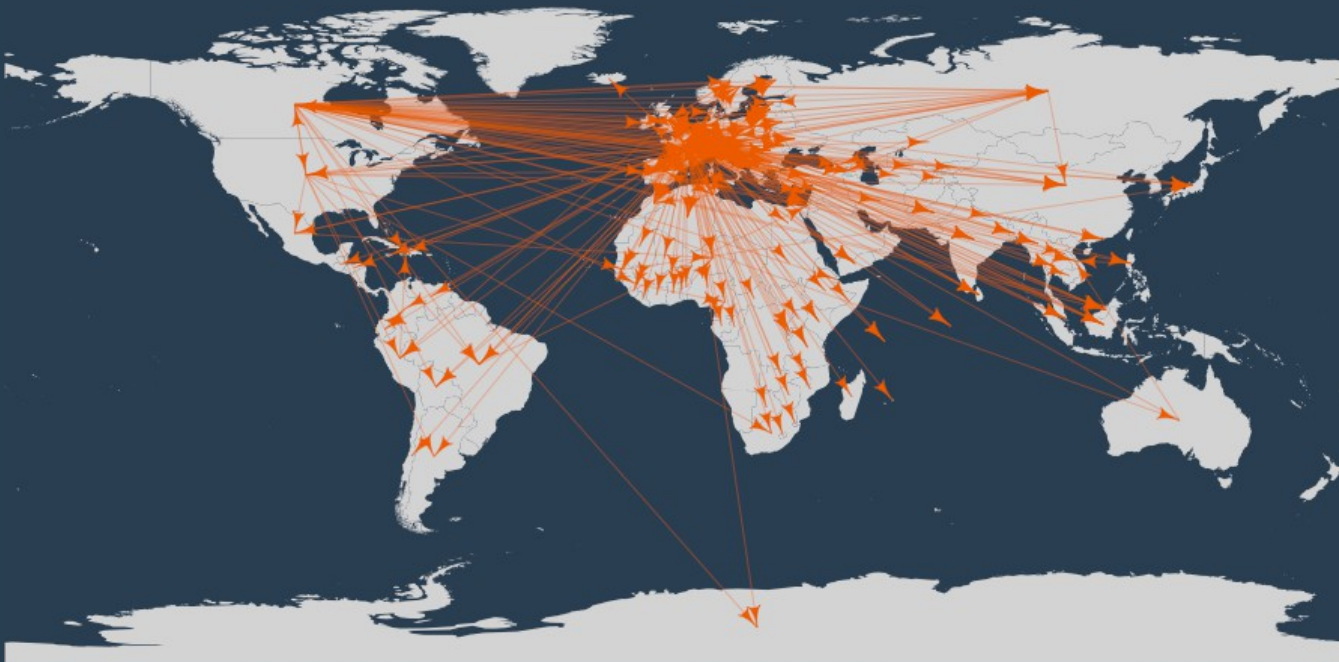


Visualizing **Semantic** and **Geographical** Networks



Hadrien **Commenges**, U. Paris 1
Clementine **Cottineau**, UCL-CASA



Cybergeo | 1996-2016

20 years of Cybergeo, European Journal of Geography

The Project

Overview

Citation network

Semantic network

Keyword network

Geo-semantic Networks

About

Global Stats

Time Range

1,996

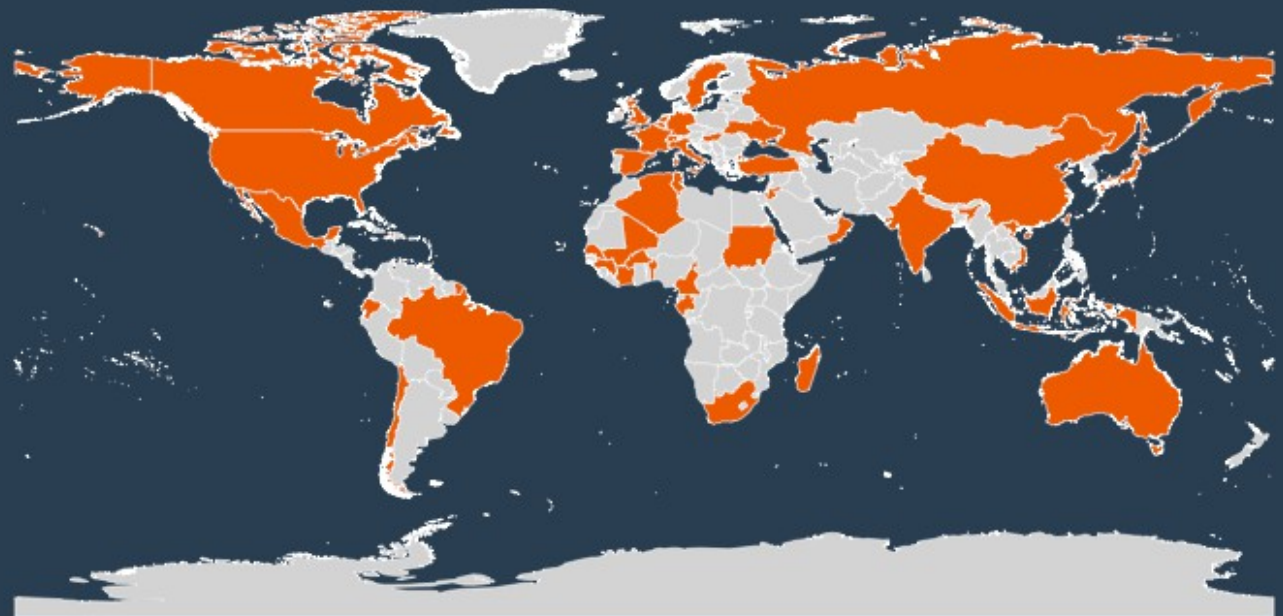
2,015

1,996 1,998 2,000 2,002 2,004 2,006 2,008 2,010 2,012 2,014 2,015

Indicator to map

Countries Studies by Locals

Countries studied by locals in Cybergeo articles | 1996 - 2015



Indicator



Value

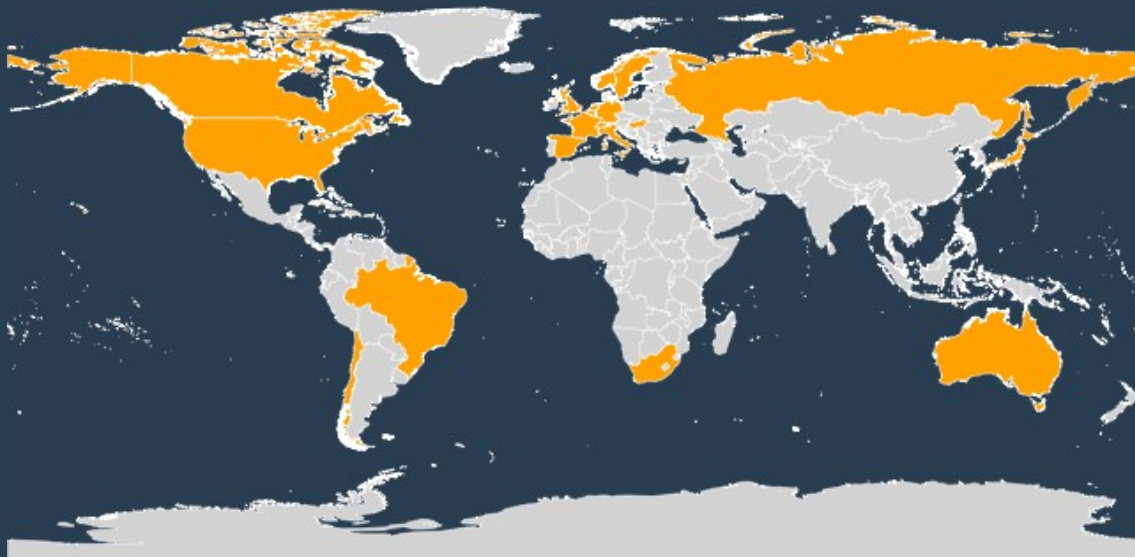


Number of
scientific articles

737

1996–2000

Authoring



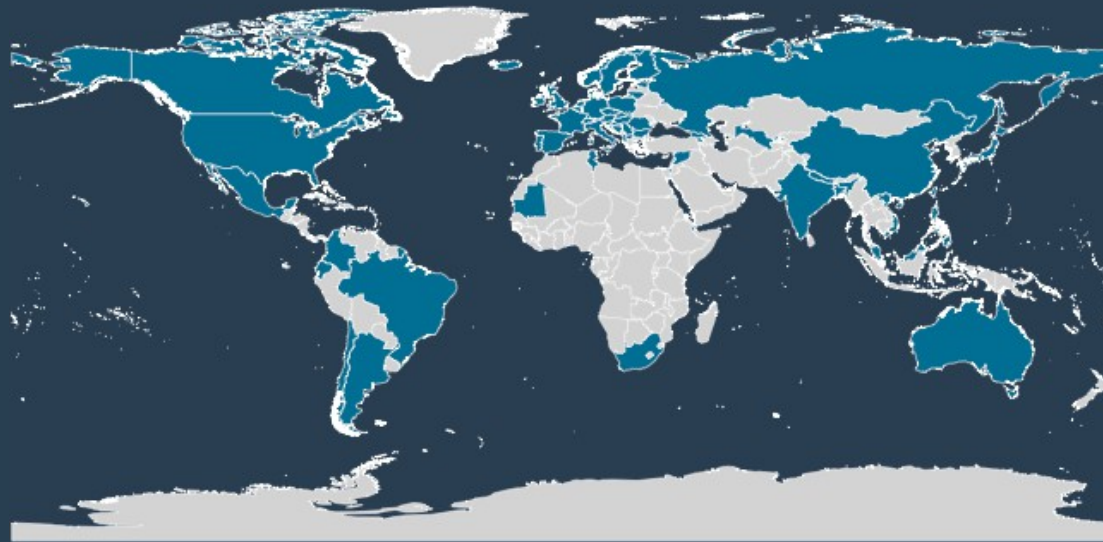
Number of scientific articles 181

Number of authors 273

Number of countries authoring 21

Top countries authoring FR (128), IT (8), UK (8), US (8), CA (4)

Studied



Number of countries studied 62

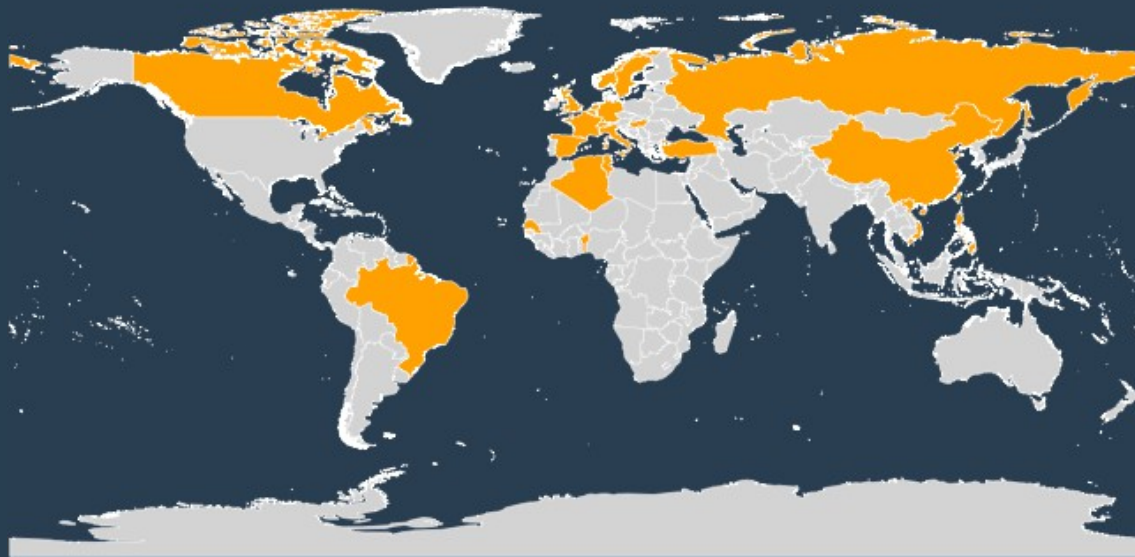
Top countries studied FR (73), DE (11), UK (11), IT (10), ES (9)

Number of citations from other articles 767

Number of citations of other articles 376

2001–2005

Authoring



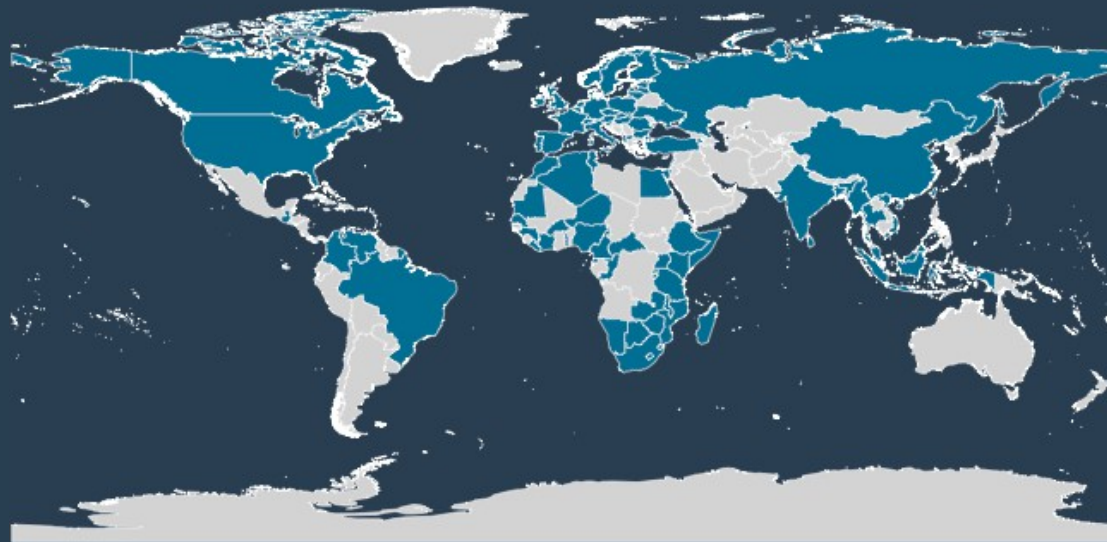
Number of scientific articles	164
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Number of authors	280
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Number of countries authoring	23
-------------------------------	----

Top countries authoring	FR (130), BE (8), UK (7), CA (6), IT (6)
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Studied



Number of countries studied	89
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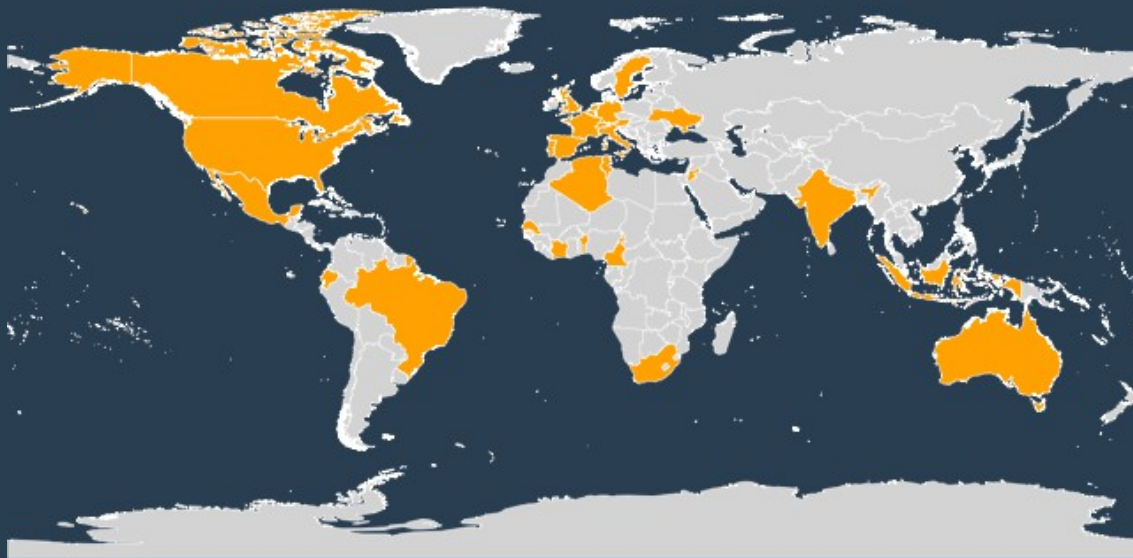
Top countries studied	FR (75), ES (9), UK (8), BE (6), IT (6)
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Number of citations from other articles	856
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Number of citations of other articles	826
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2006–2010

Authoring



Number of scientific articles	208
-------------------------------	-----

Number of authors	384
-------------------	-----

Number of countries authoring	30
-------------------------------	----

Top countries authoring	FR (162), CA (11), BE (6), UK (6), US (5)
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Studied



Number of countries studied	90
-----------------------------	----

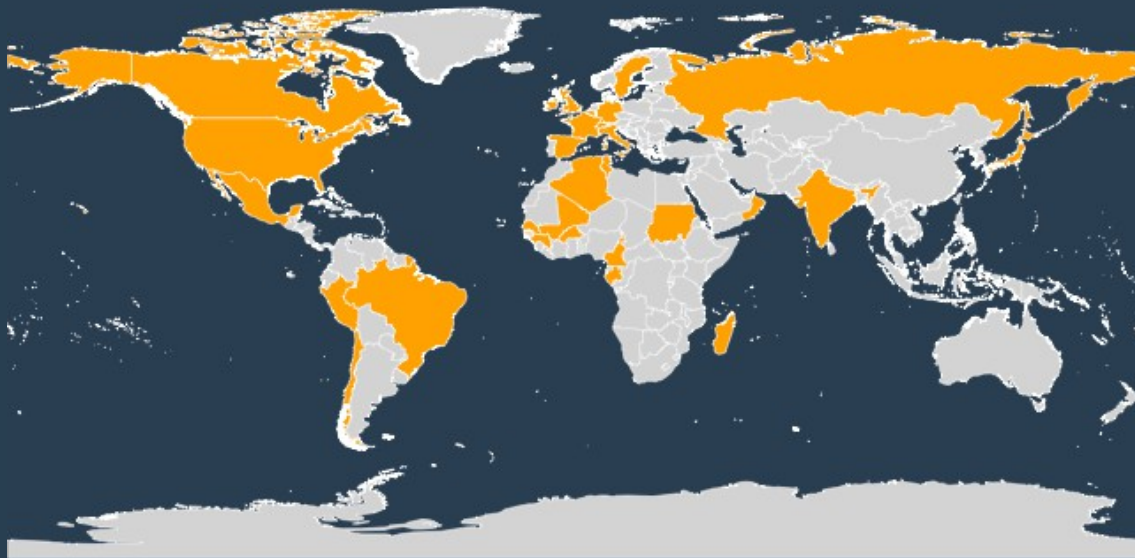
Top countries studied	FR (77), UK (13), BE (11), DE (11), ES (11)
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Number of citations from other articles	850
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Number of citations of other articles	1483
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2011–2015

Authoring



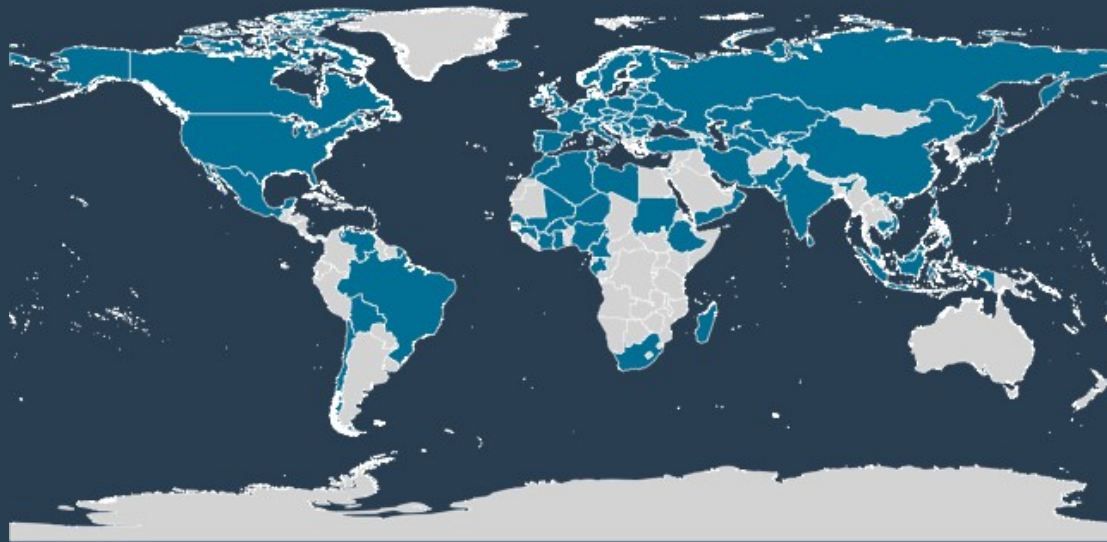
Number of
scientific articles 184

Number of authors 414

Number of
countries
authoring 29

Top countries
authoring FR (141), CA (14), CH (13), SN (6), BR (3)

Studied



Number of
countries studied 89

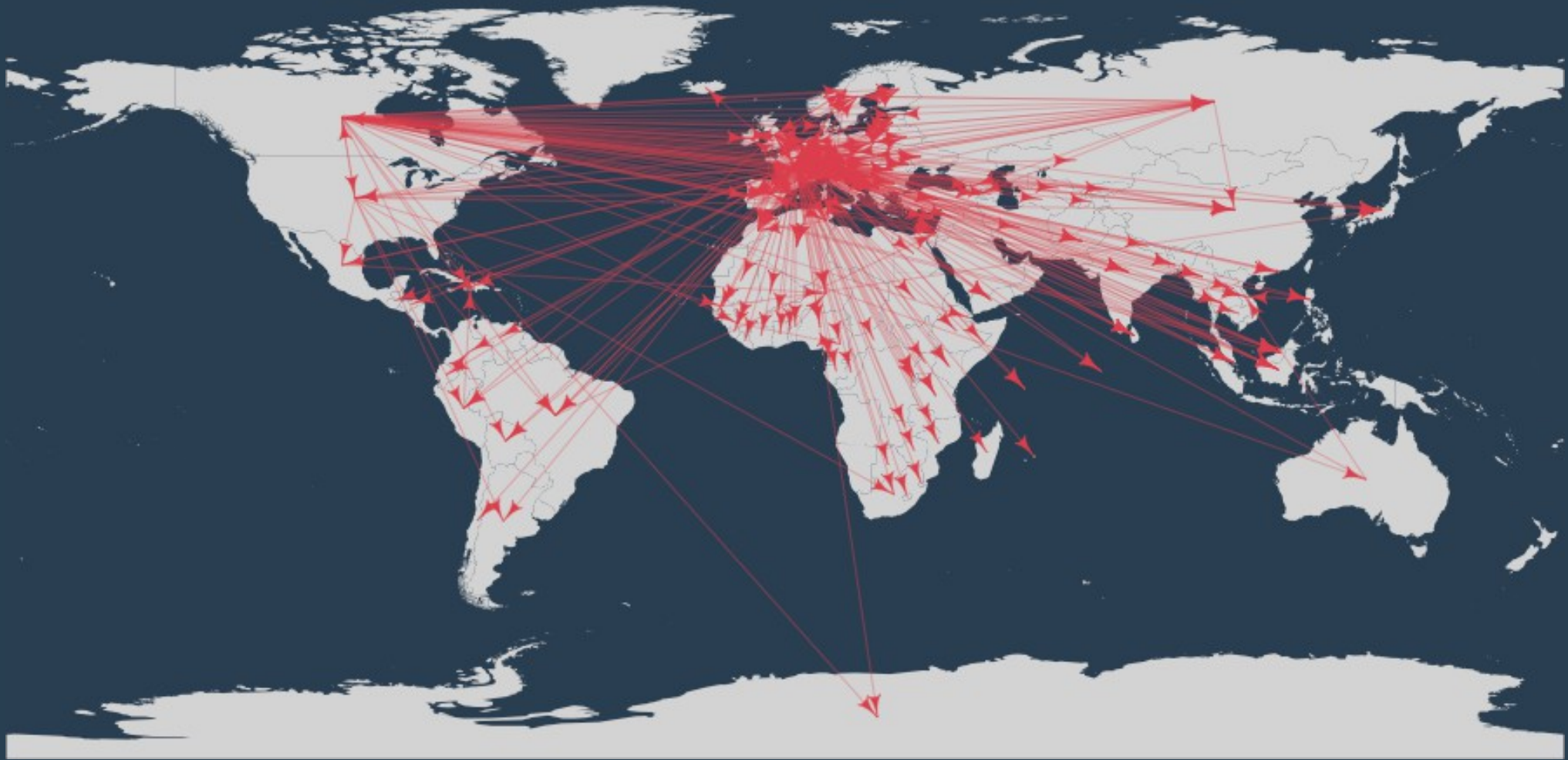
Top countries
studied FR (67), SN (9), US (9), CA (8), RU (8)

Number of
citations from
other articles 237

Number of
citations of other
articles 2860

Geo-authoring networks

Who studies who? | 1996-2015



20 years of Cybergeog

More articles published

Spread of geographical Objects

French-speaking bias for authorship

Growing connexion in citation networks

Hadri

Geo-Semantic Networks

Each article **geocoded**

Aggregation by country

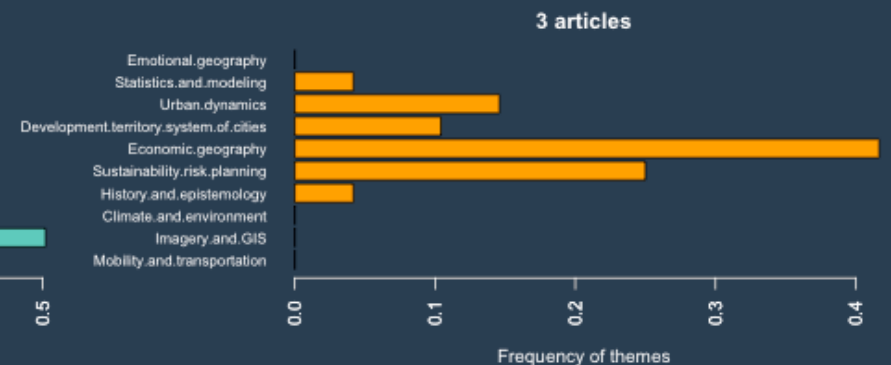
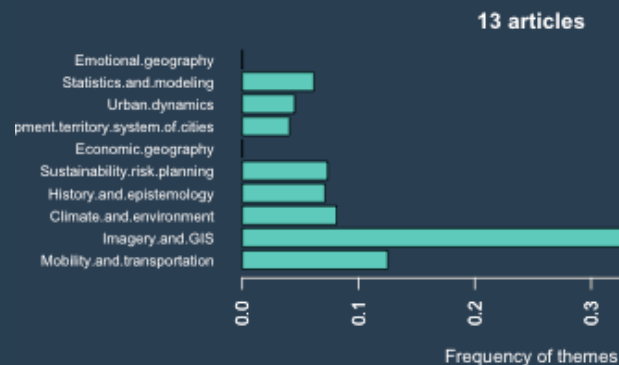
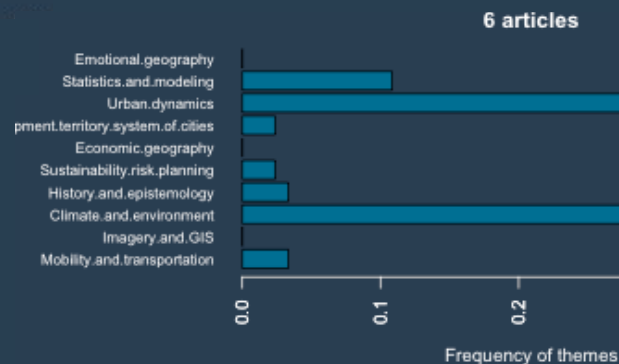
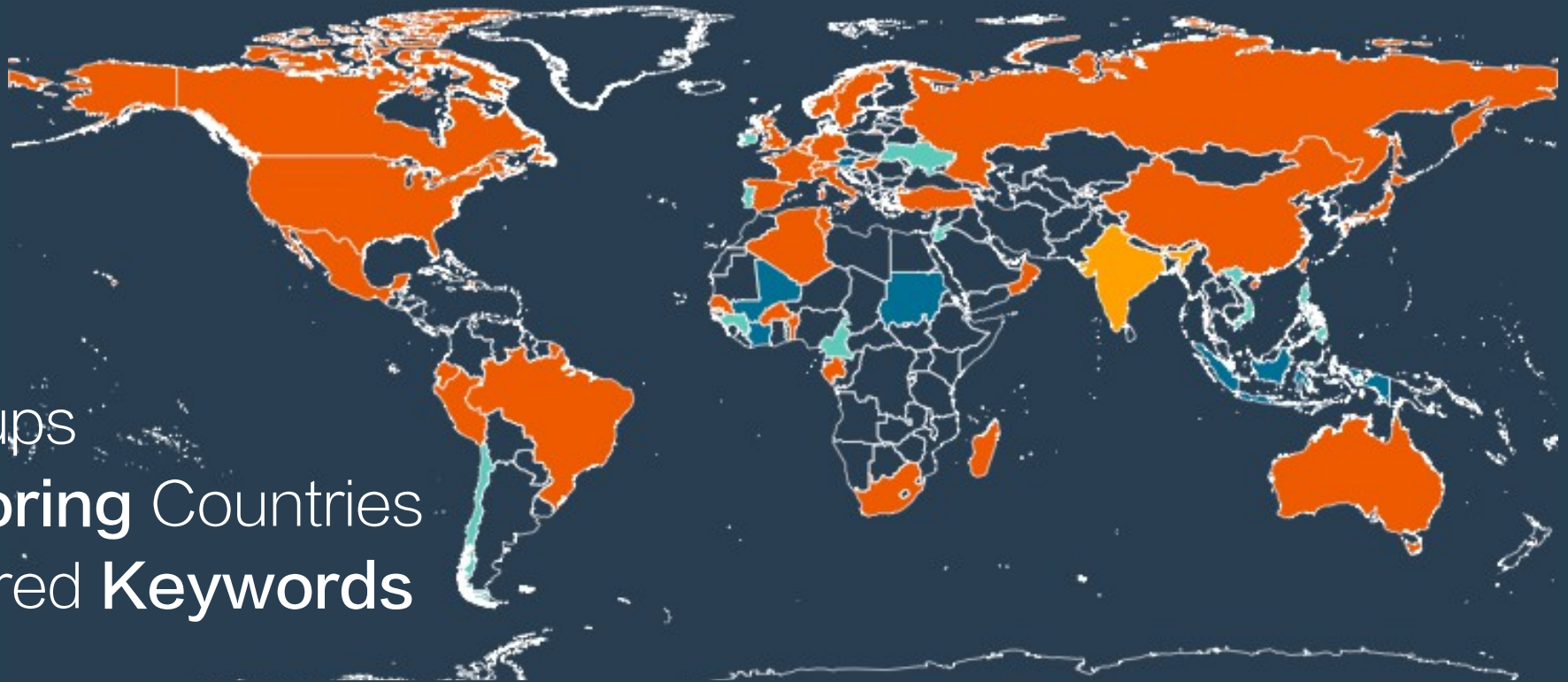
Hierarchical **clustering** based on semantics:

- Declared **Keywords** (HC)
- **Citations** Communities (JR)
- **Terms** Communities (POC)

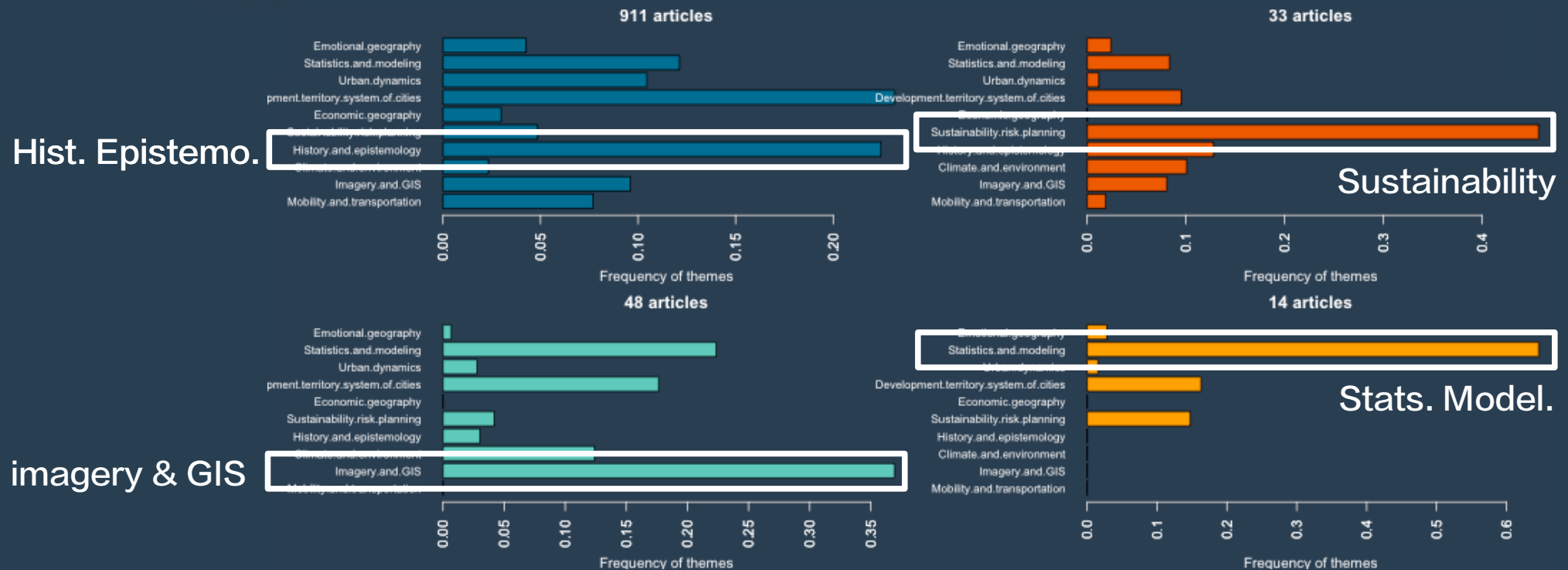
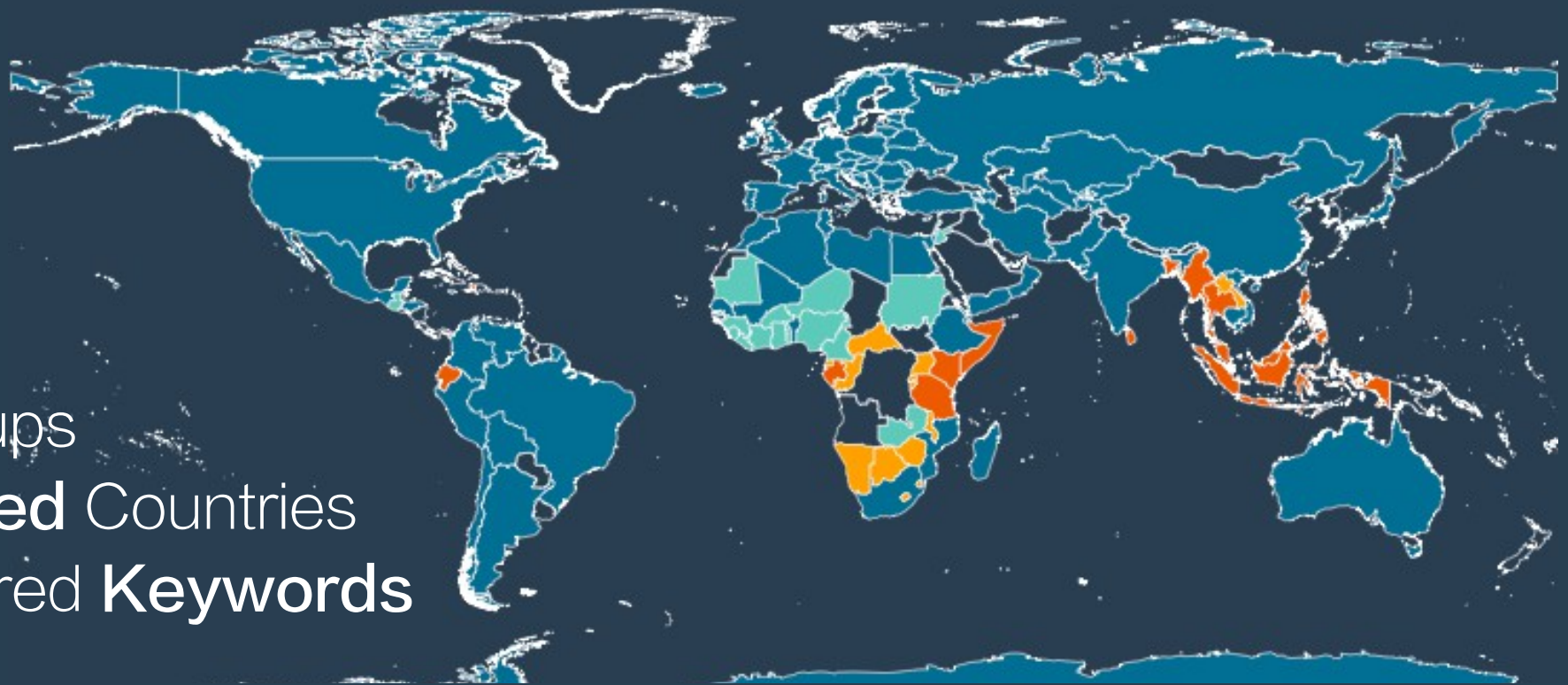
4 groups

Authoring Countries

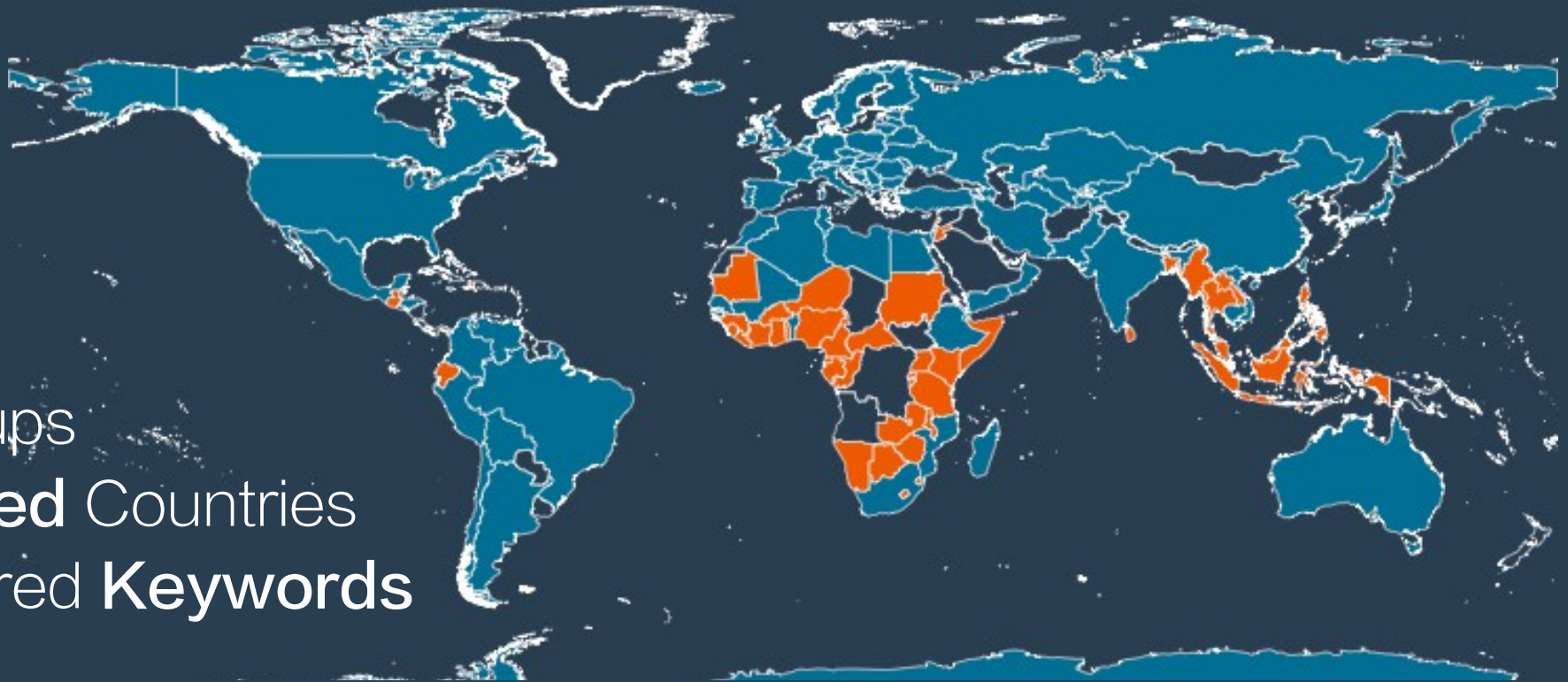
Declared Keywords



4 groups
Studied Countries
 Declared **Keywords**

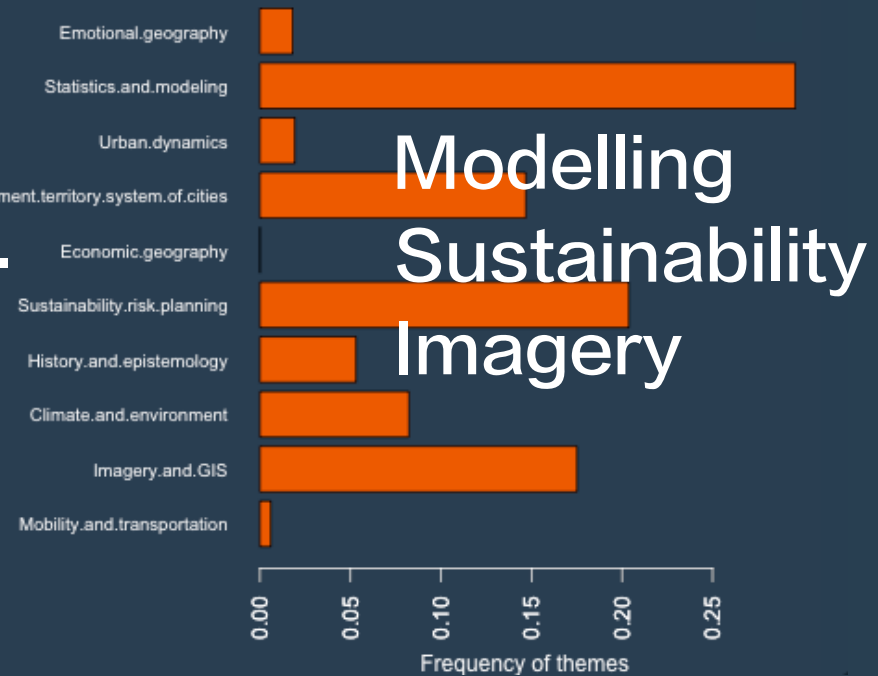
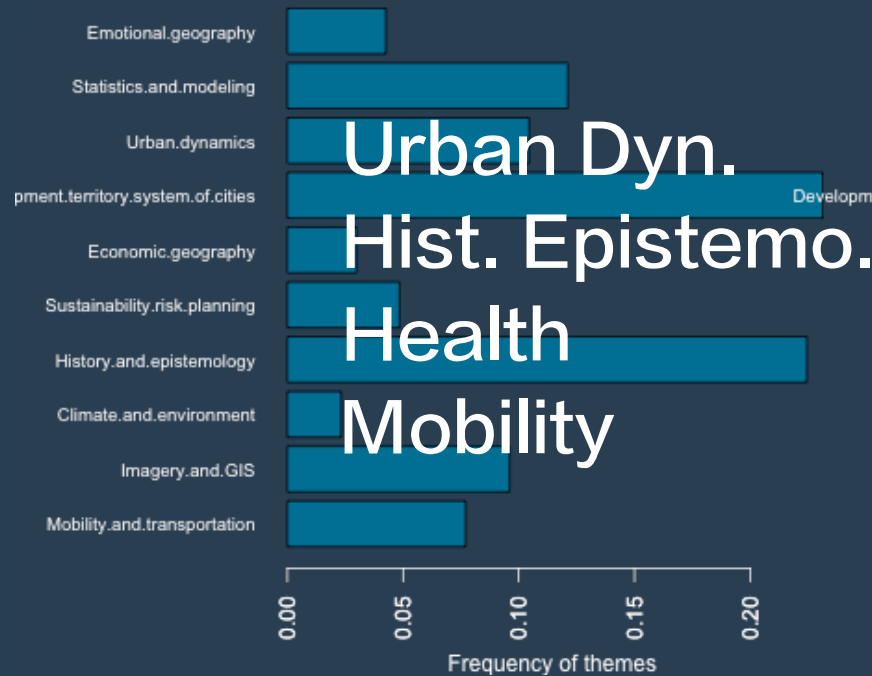


2 groups
Studied Countries
 Declared **Keywords**

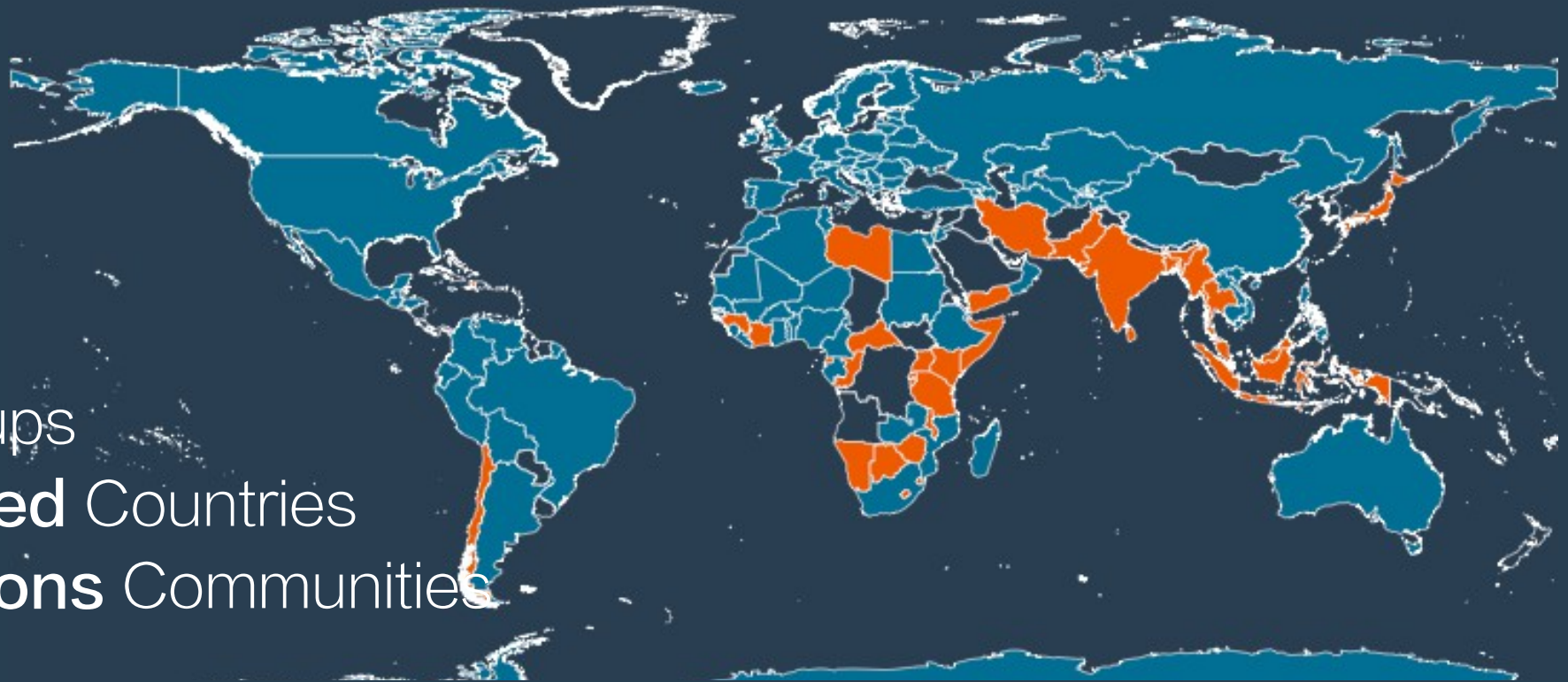


911 articles

95 articles

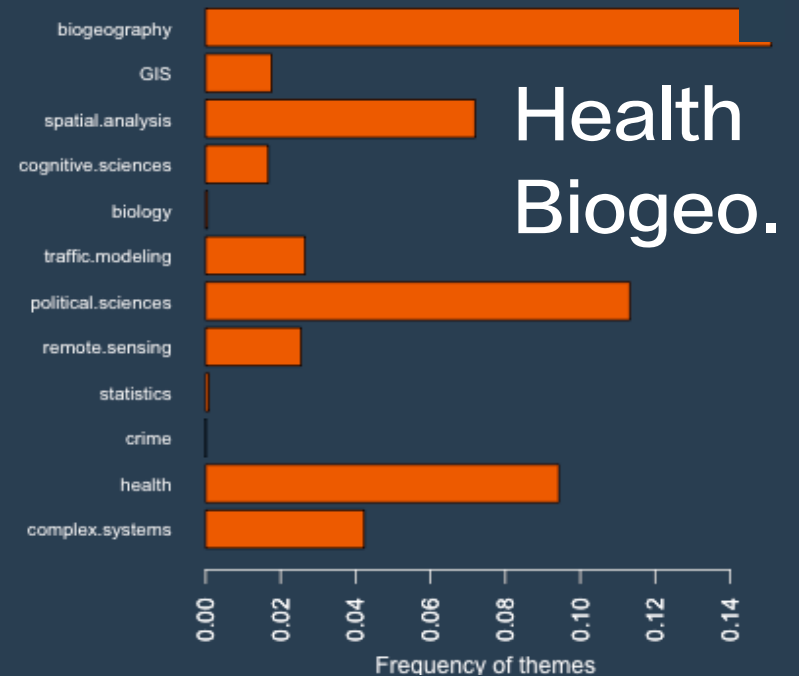
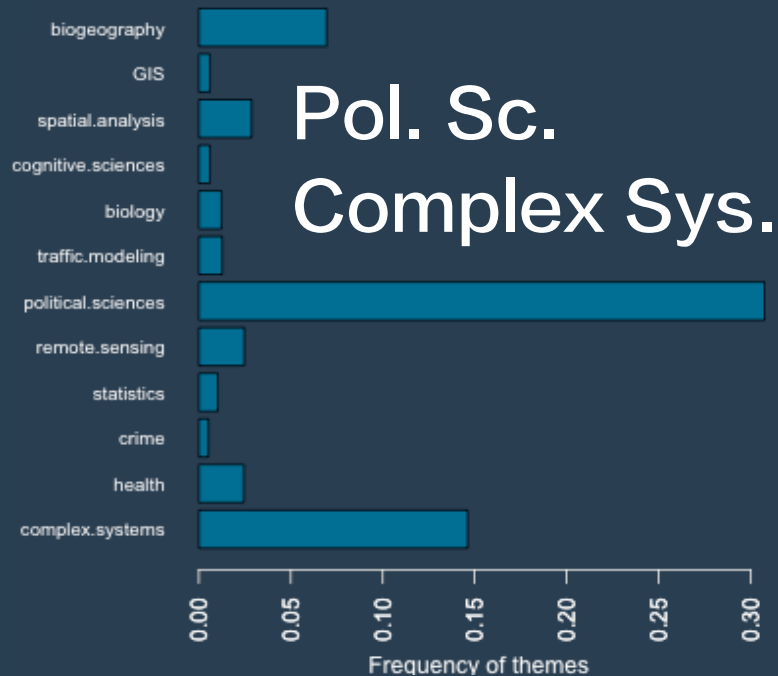


2 groups
Studied Countries
Citations Communities

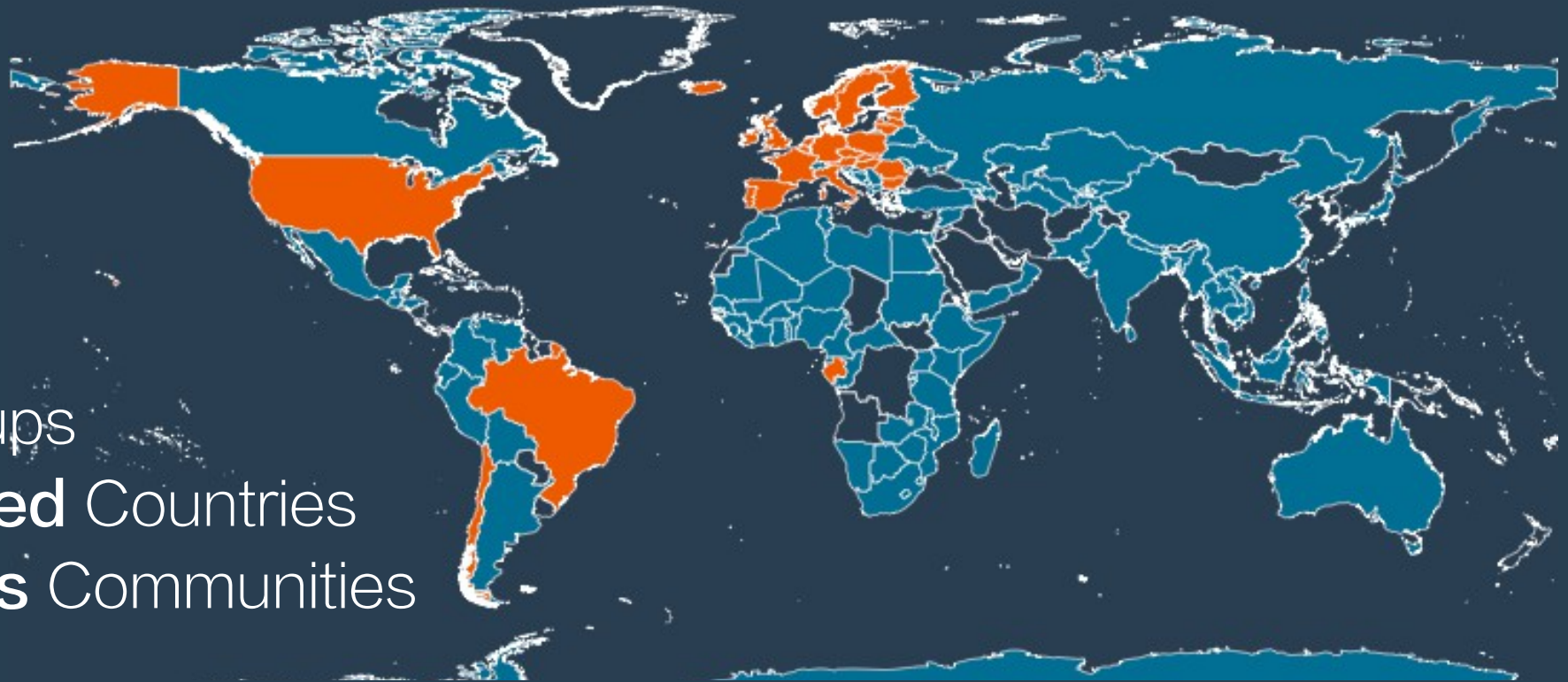


831 articles

59 articles

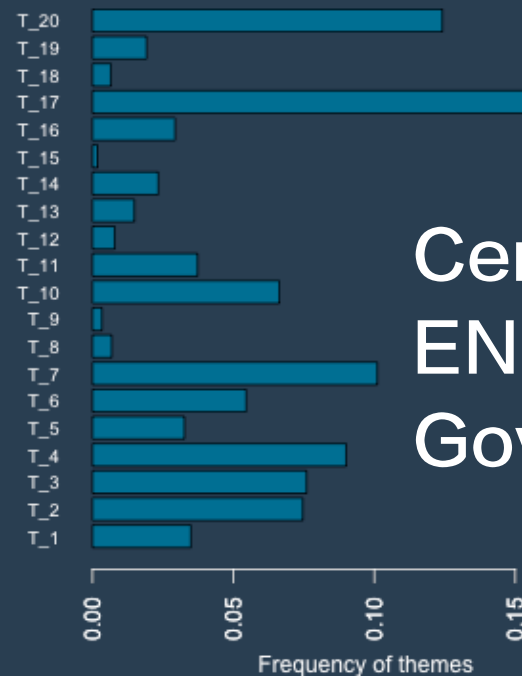


2 groups
Studied Countries
Terms Communities

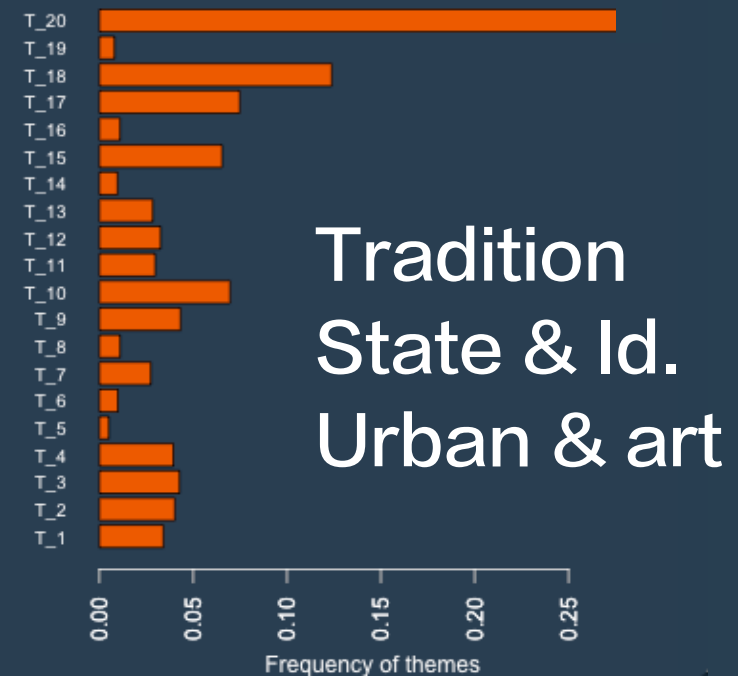


292 articles

537 articles



Census
 EN.
 Governance



Tradition
 State & Id.
 Urban & art

Geo-Semantic Networks

Each semantic method...

... gives a different insight!

- Declared Keywords: **how the paper is advertised**
- Citations Communities: **who the paper talks to**
- Terms Communities: **how the paper is written**