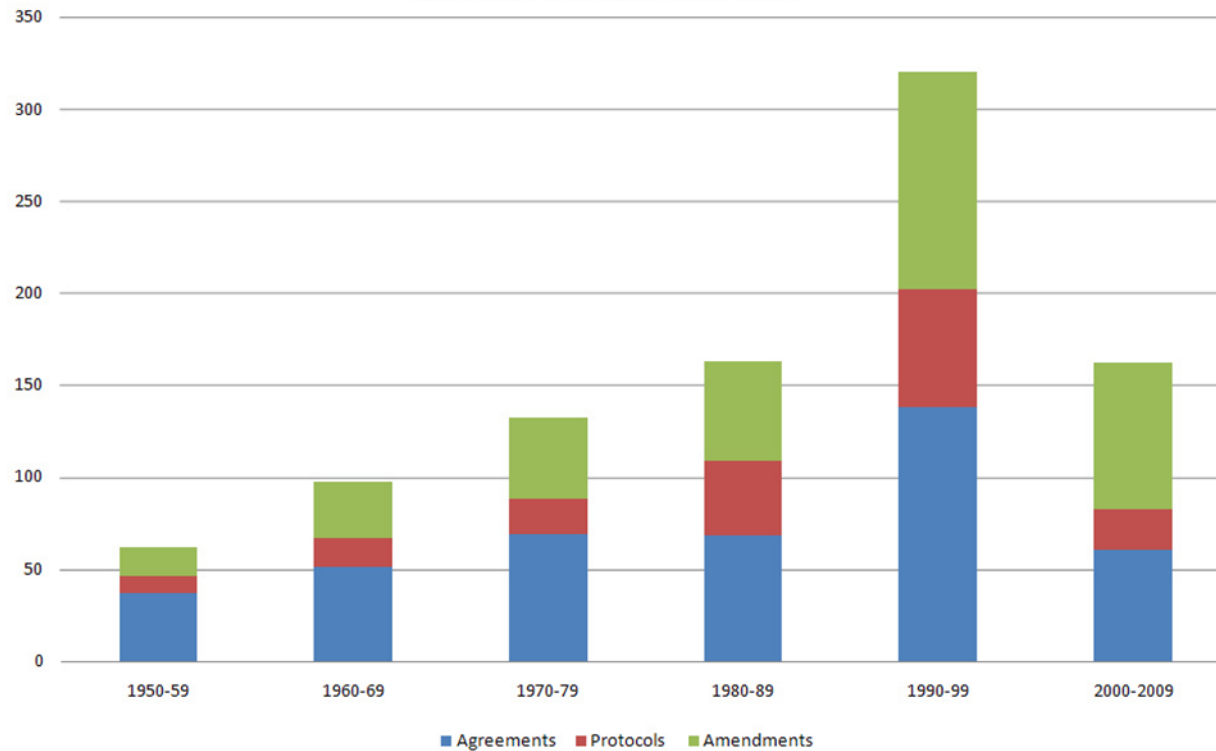


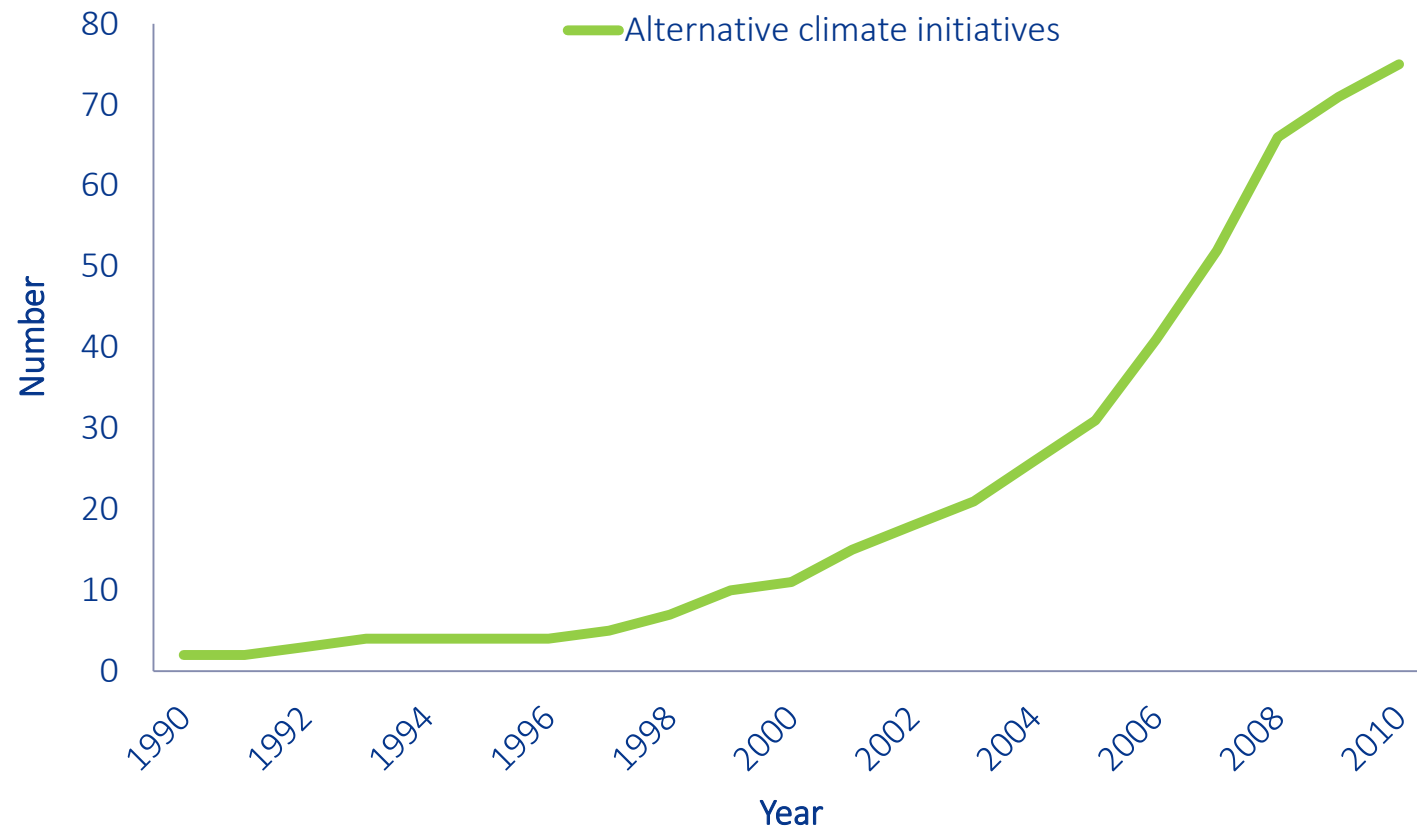
# Philipp Pattberg, 15 June 2015, The Hague



## Multilateral Environmental Agreements

Source: Ronald B. Mitchell, 2002-2010. International Environmental Agreements Database Project  
(Version 2010.2). Available at: <http://iea.uoregon.edu/>.





Based on Hale, 2014





CLIMATE AND CLEAN AIR COALITION  
TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS



**IETA**  
INTERNATIONAL EMISSIONS  
TRADING ASSOCIATION

**C40**  
**CITIES**  
CLIMATE LEADERSHIP GROUP



In partnership with:

CLINTON  
**CLIMATE**  
INITIATIVE



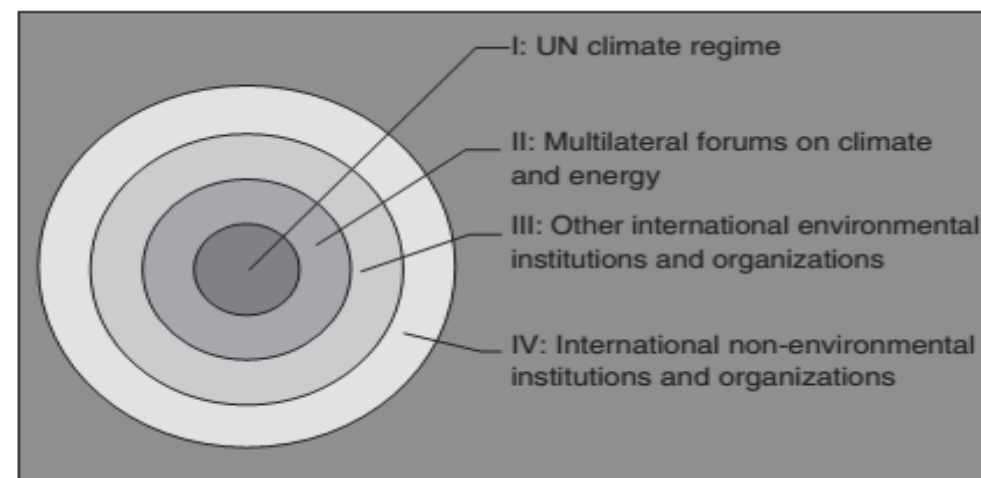
**CLIMATE SAVERS**

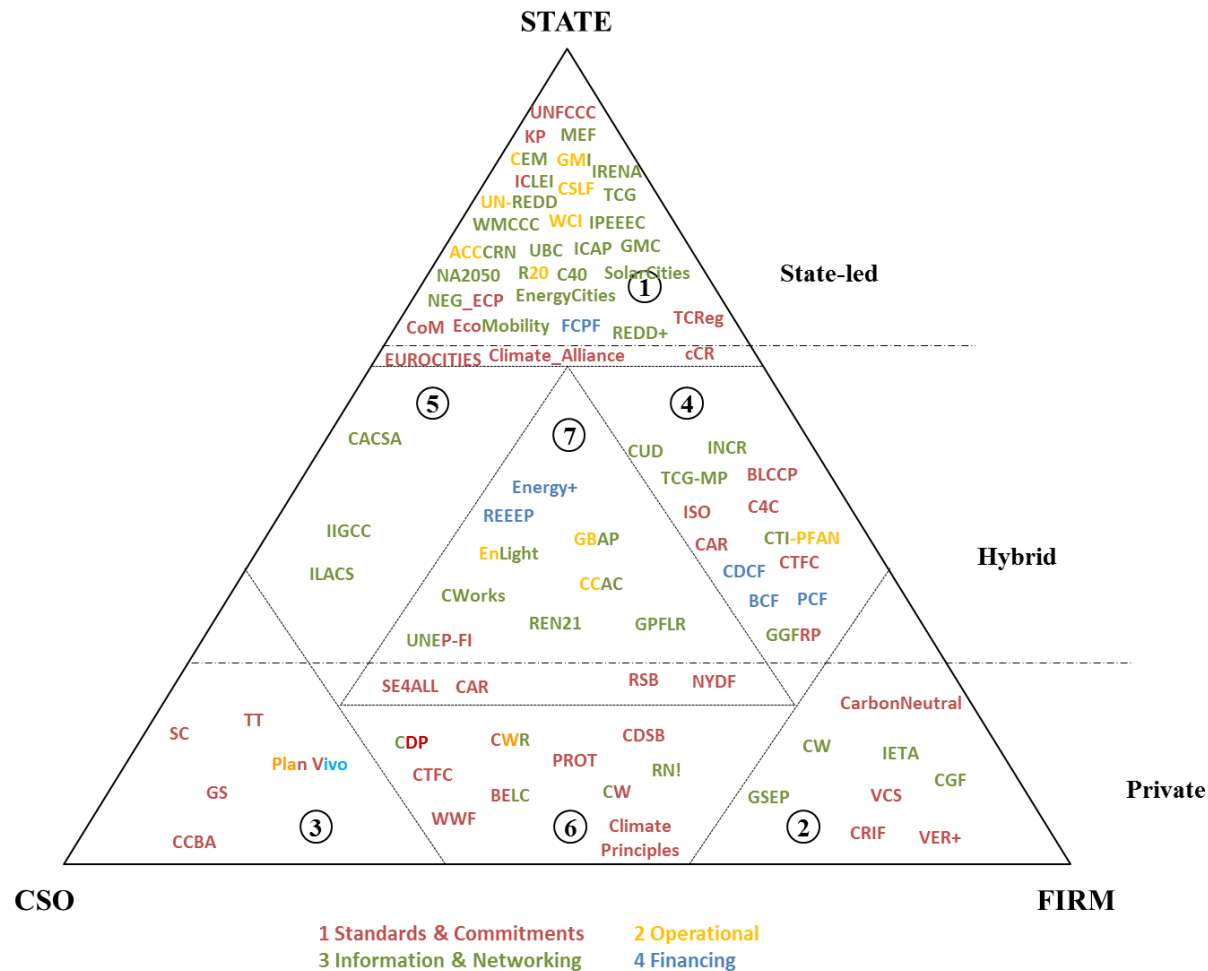
碳减排先锋

DEFENSORES DO CLIMA

クライメート・セイバーズ

A WWF GLOBAL INITIATIVE WITH BUSINESS





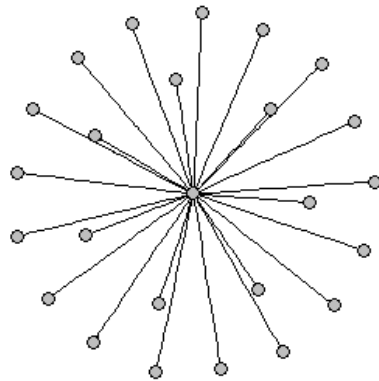
# Why bother about the institutional architecture of climate governance?

- Institutional structure influences effectiveness
- Different institutional set-ups might be more or less accountable/legitimate
- Complex governance structures might empower or disempower actors



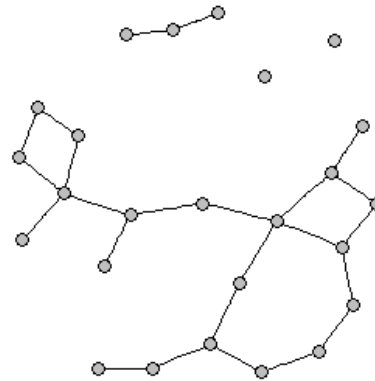
# Fragmentation or polycentrism?

Onion Model (Biermann et al., 2009)



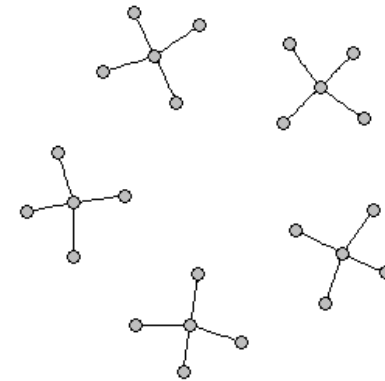
$n = 20, e = 19$

Regime Complex (Keohane and Victor, 2011)



$n = 20, e = 19$

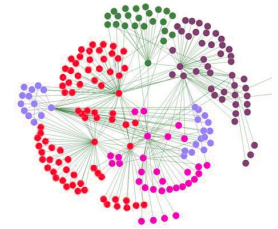
Polycentrism (Ostrom, 2009)

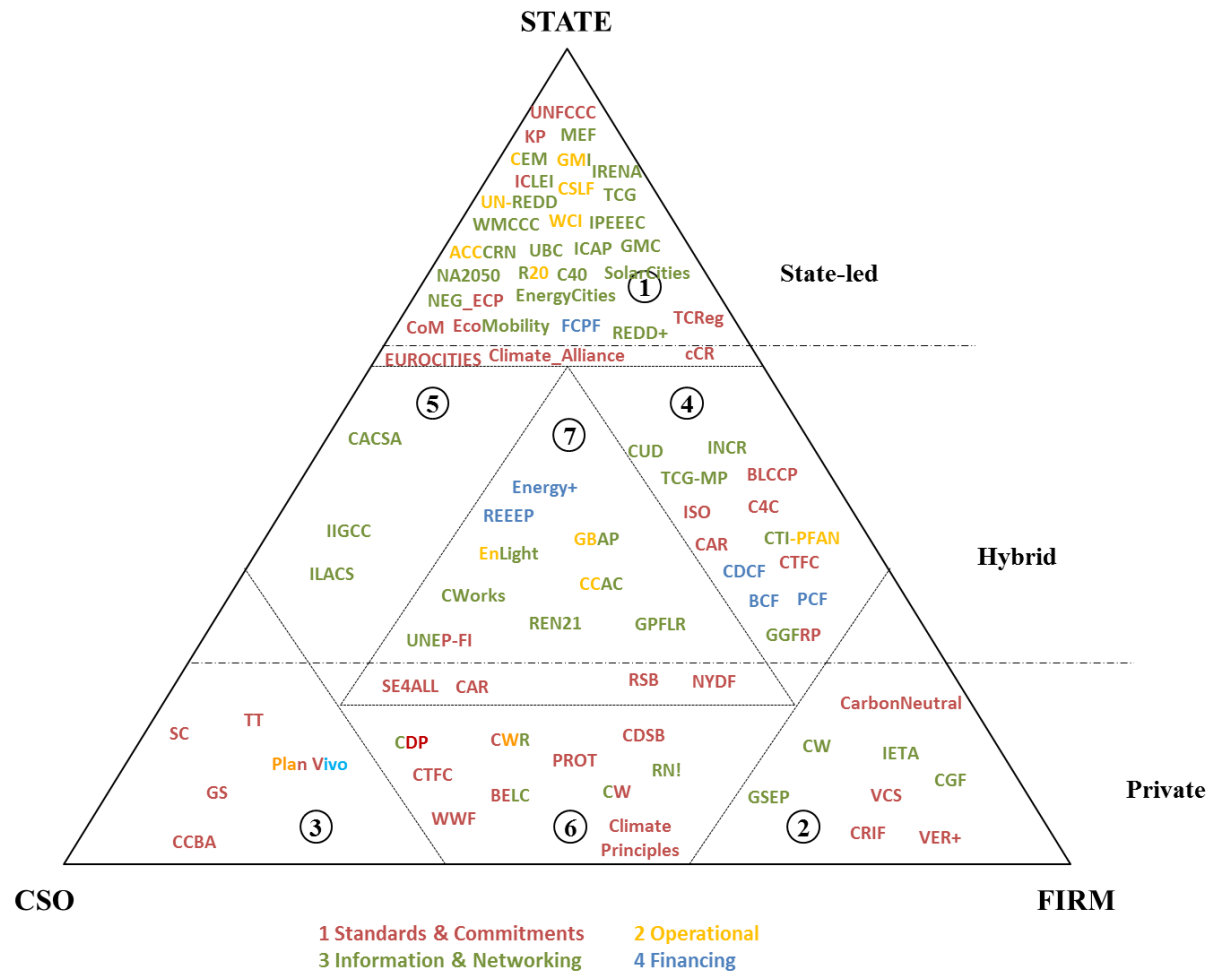


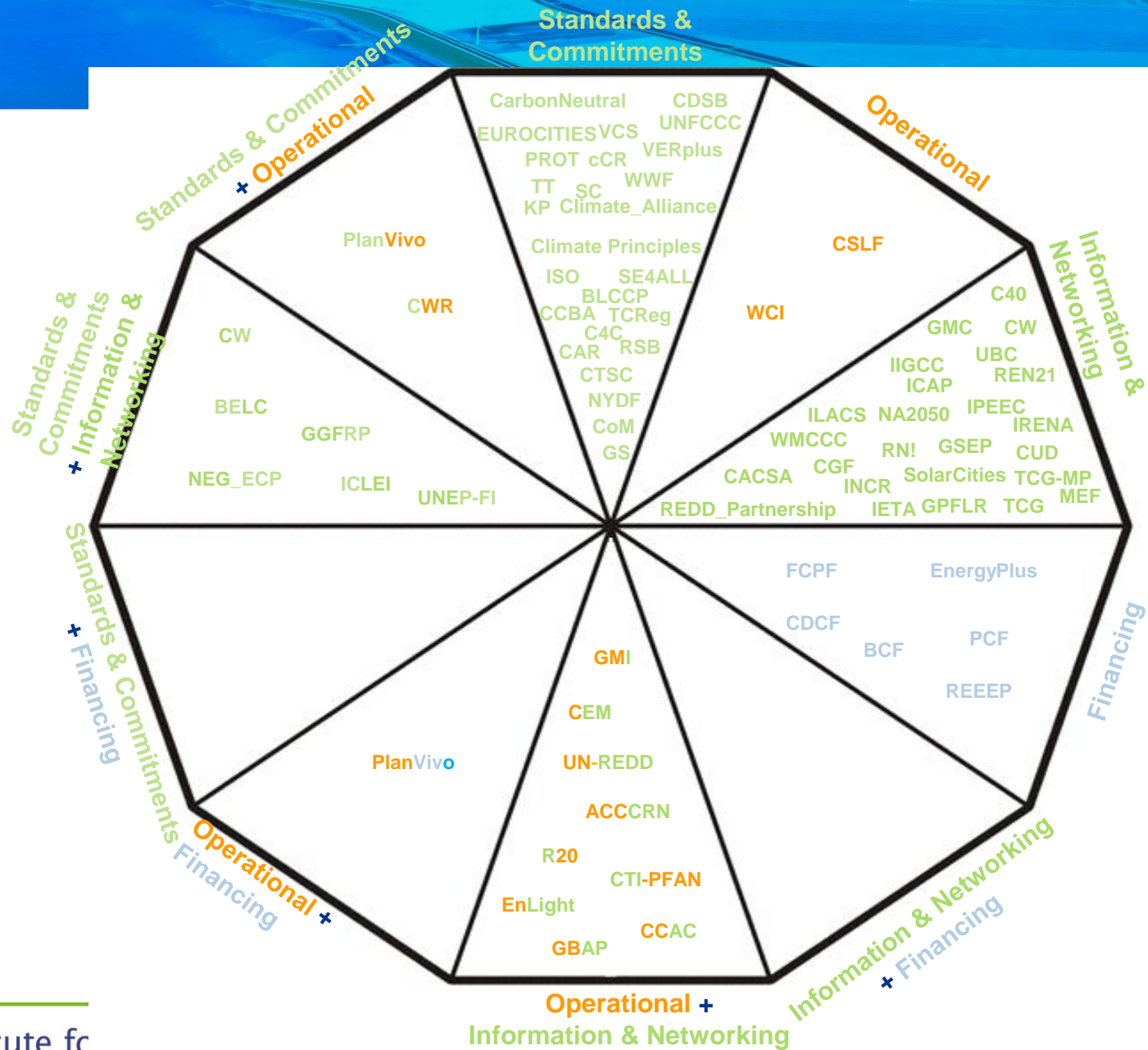
$n = 20, e = 19$

# Levels of analysis

- Institutional structure
- Actor constellations
- Discourses and framings





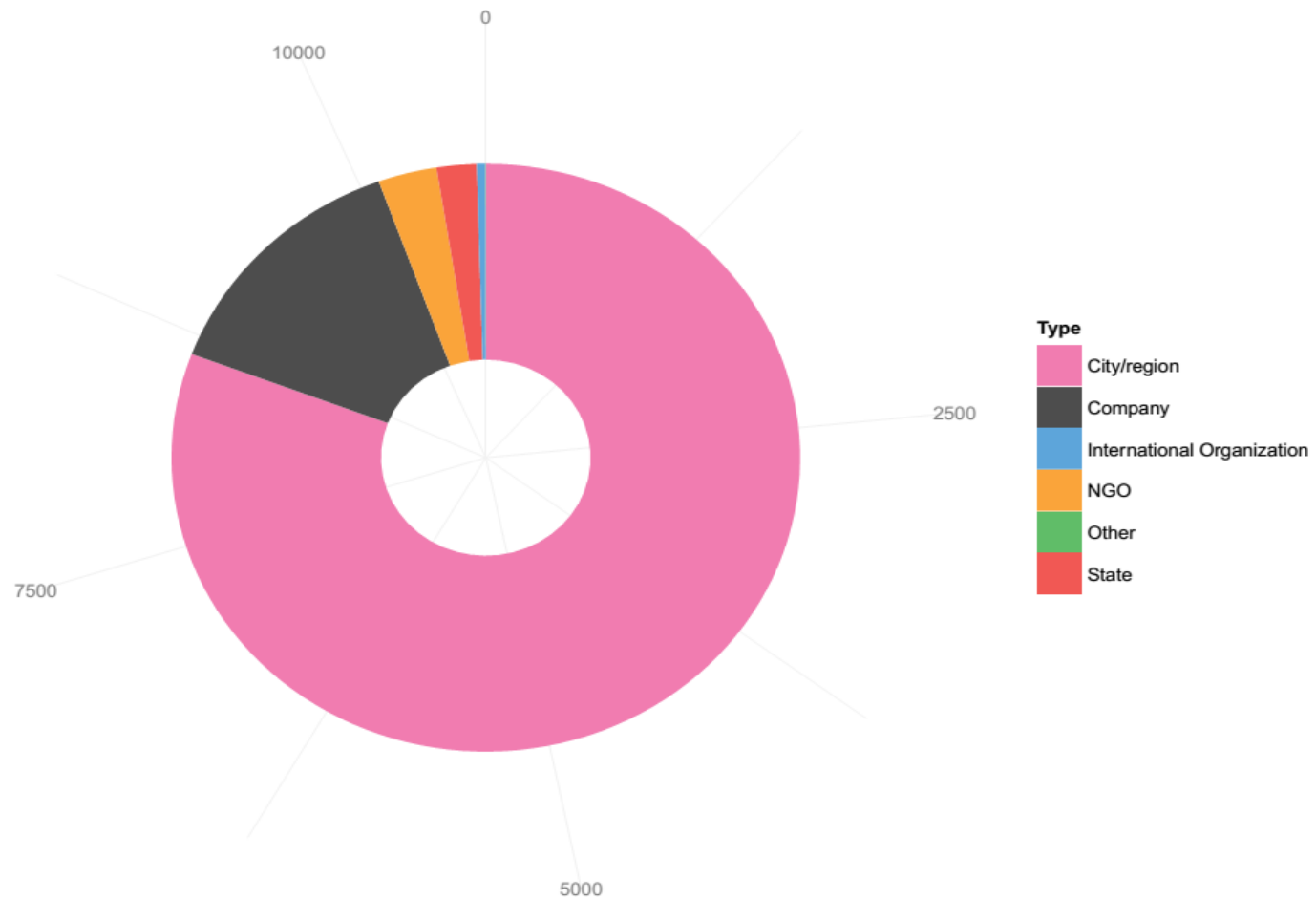


# Governance roles across zones

	Standards & Commitments	Operational	Information & Networking	Financing	Standards & Commitments + Operational	Operational + Information & Networking	Information & Networking + Financing	Standards & Commitments + Information & Networking	Standards & Commitments + Financing	Operational + Financing	Total (Zone)	%
1	7	2	13	1	0	4	1	2	0	1	31	38,8%
2	3	0	4	0	0	0	0	0	0	0	7	8,8%
3	4	0	0	0	0	0	0	0	0	1	5	6,3%
4	4	0	3	3	0	1	0	1	0	0	12	15,0%
5	0	0	3	0	0	0	0	0	0	0	3	3,8%
6	3	0	1	0	1	0	0	2	0	0	7	8,8%
7	3	0	5	2	0	4	0	1	0	0	15	18,8%
Total (Role)	24	2	29	6	1	9	1	6	0	2	80	



Number of actors by type



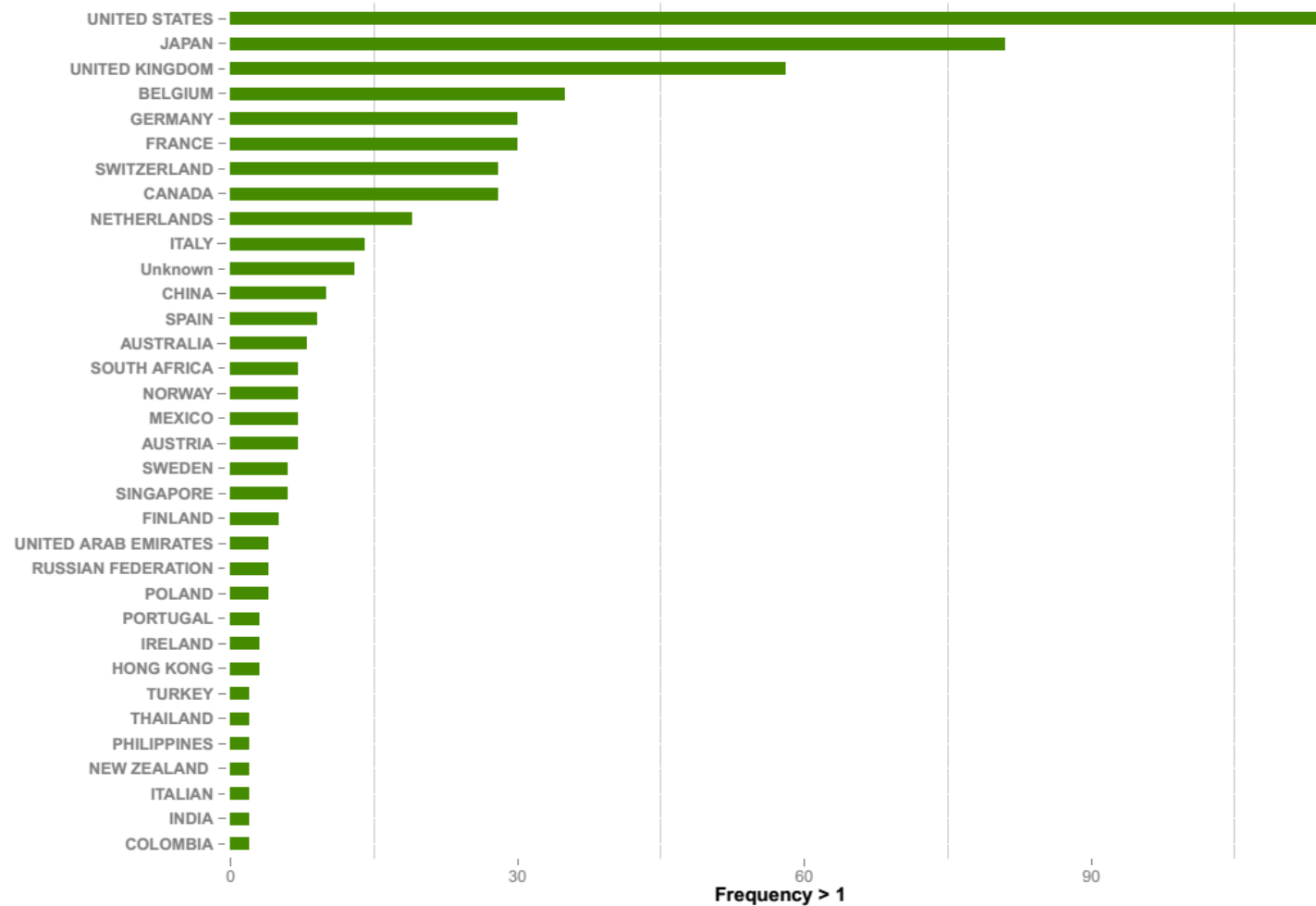
# Cities and Regions

**Geographical distribution of cities and regions**

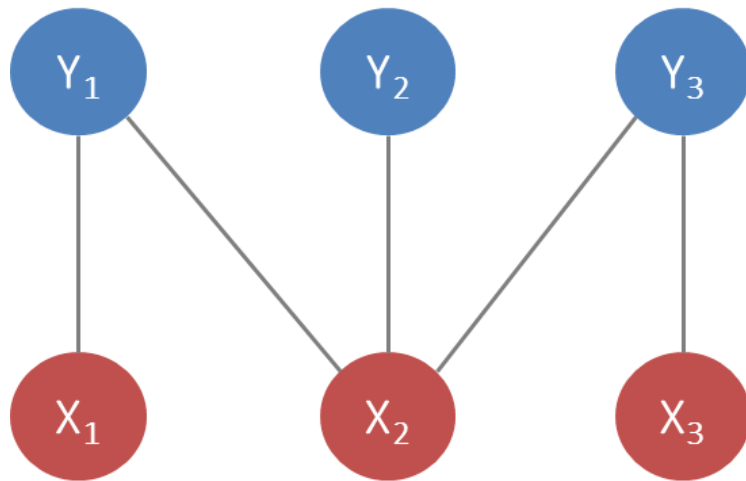


# Companies

Geographical distribution of company HQs



## 2-mode to 1-mode



Two-mode network

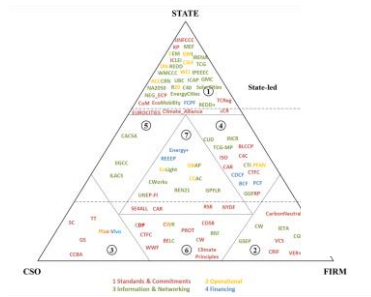
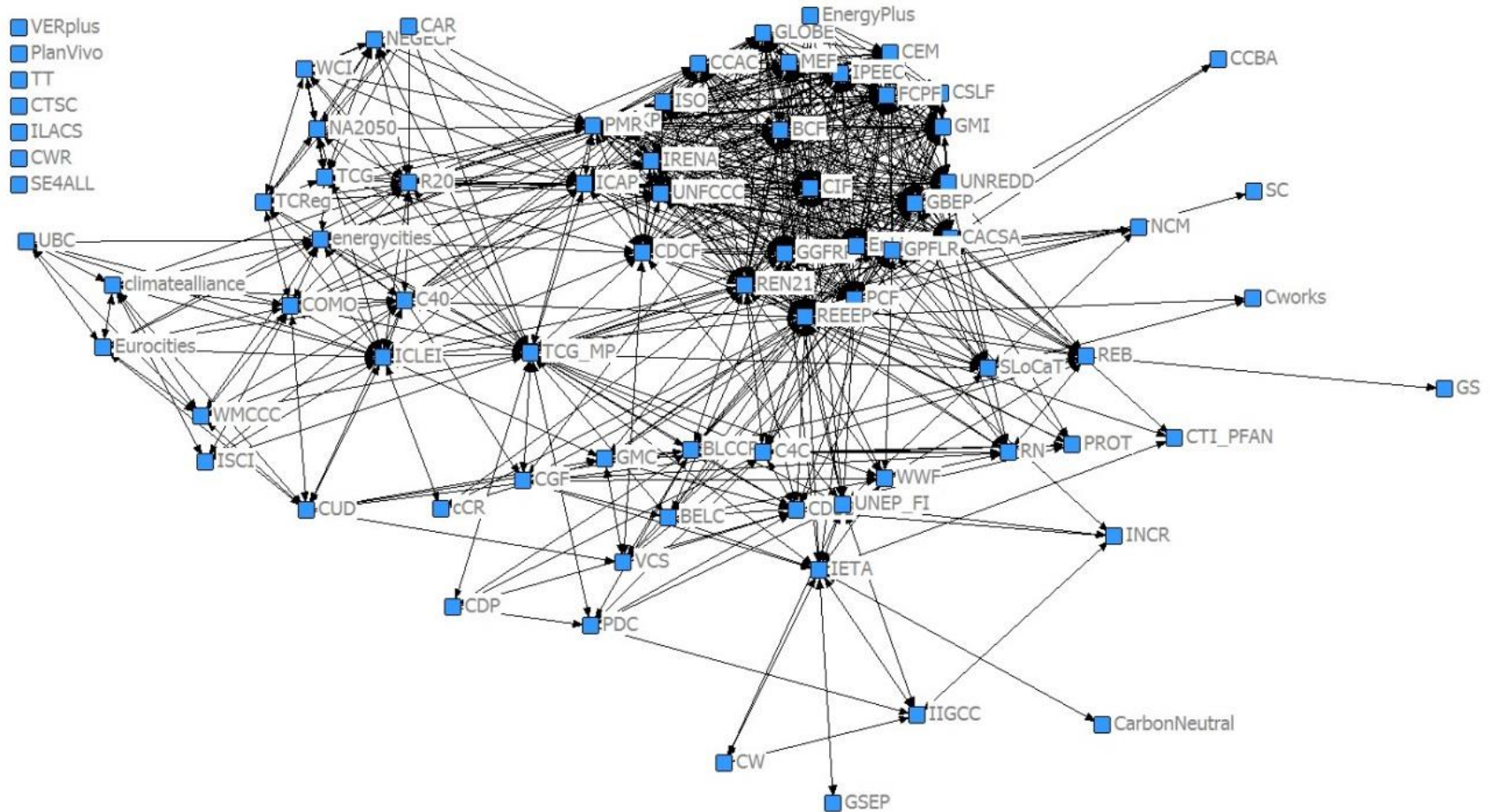


One-mode network I



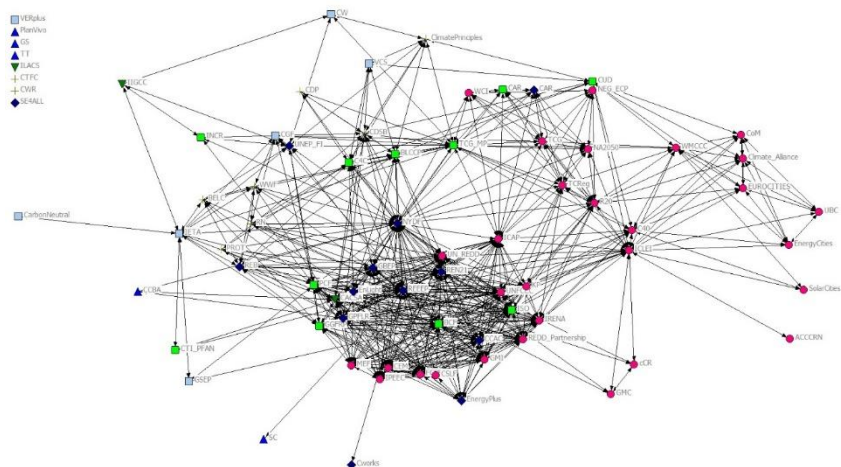
One-mode network II

# 7 zones, 1-mode institutions

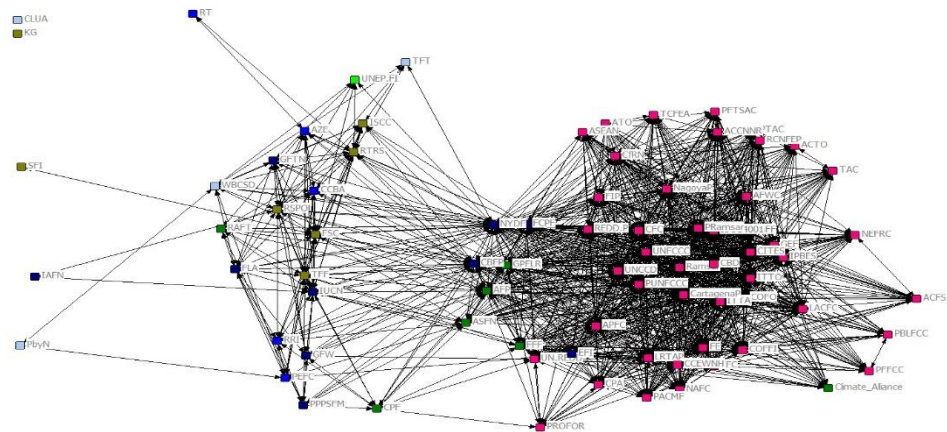




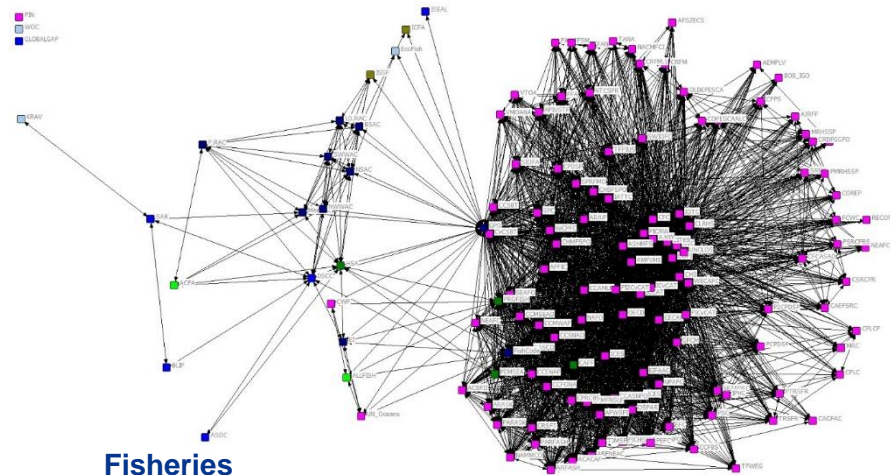
# Is it fragmented? – Comparative approach



Climate

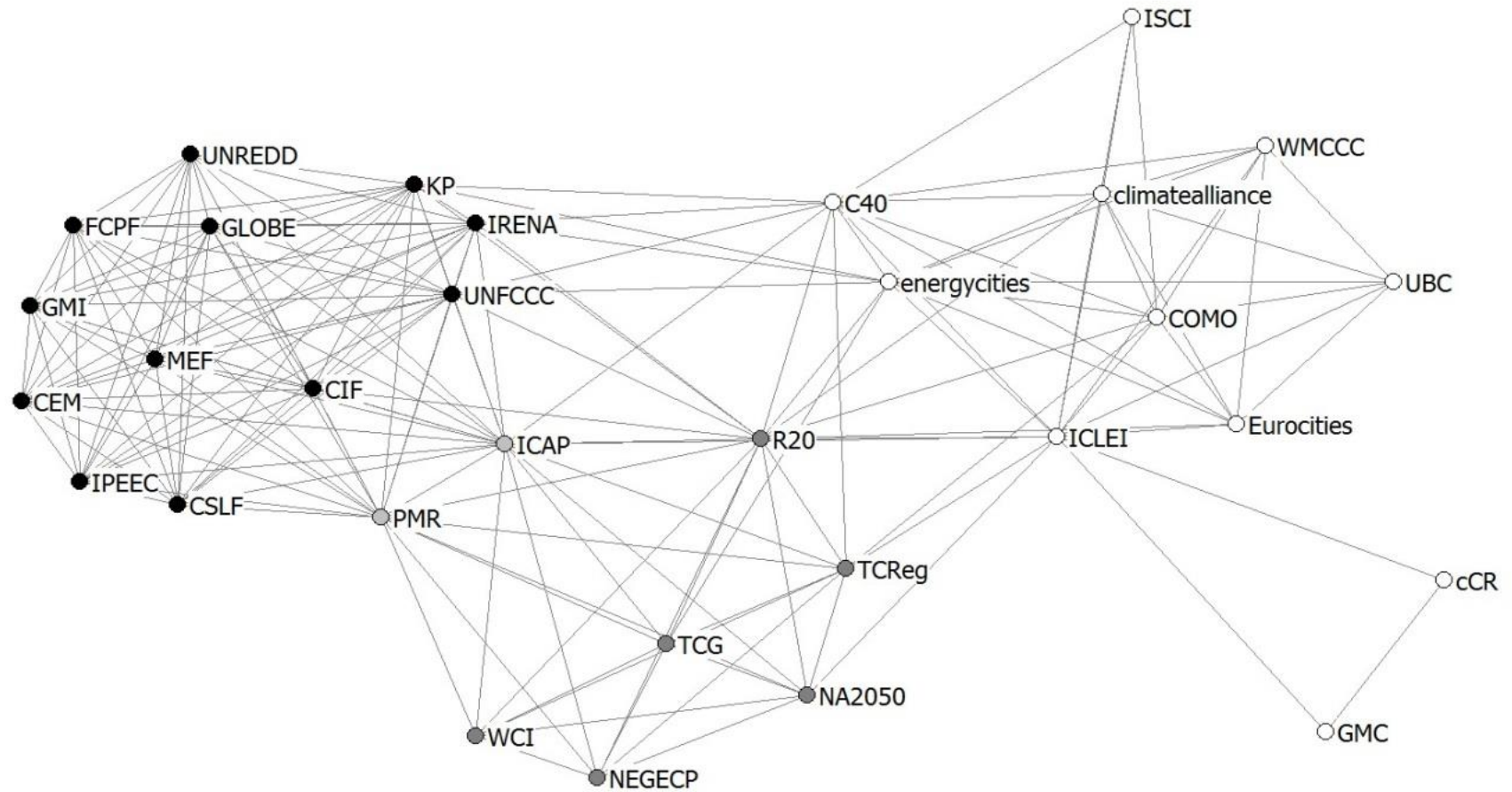


Forests

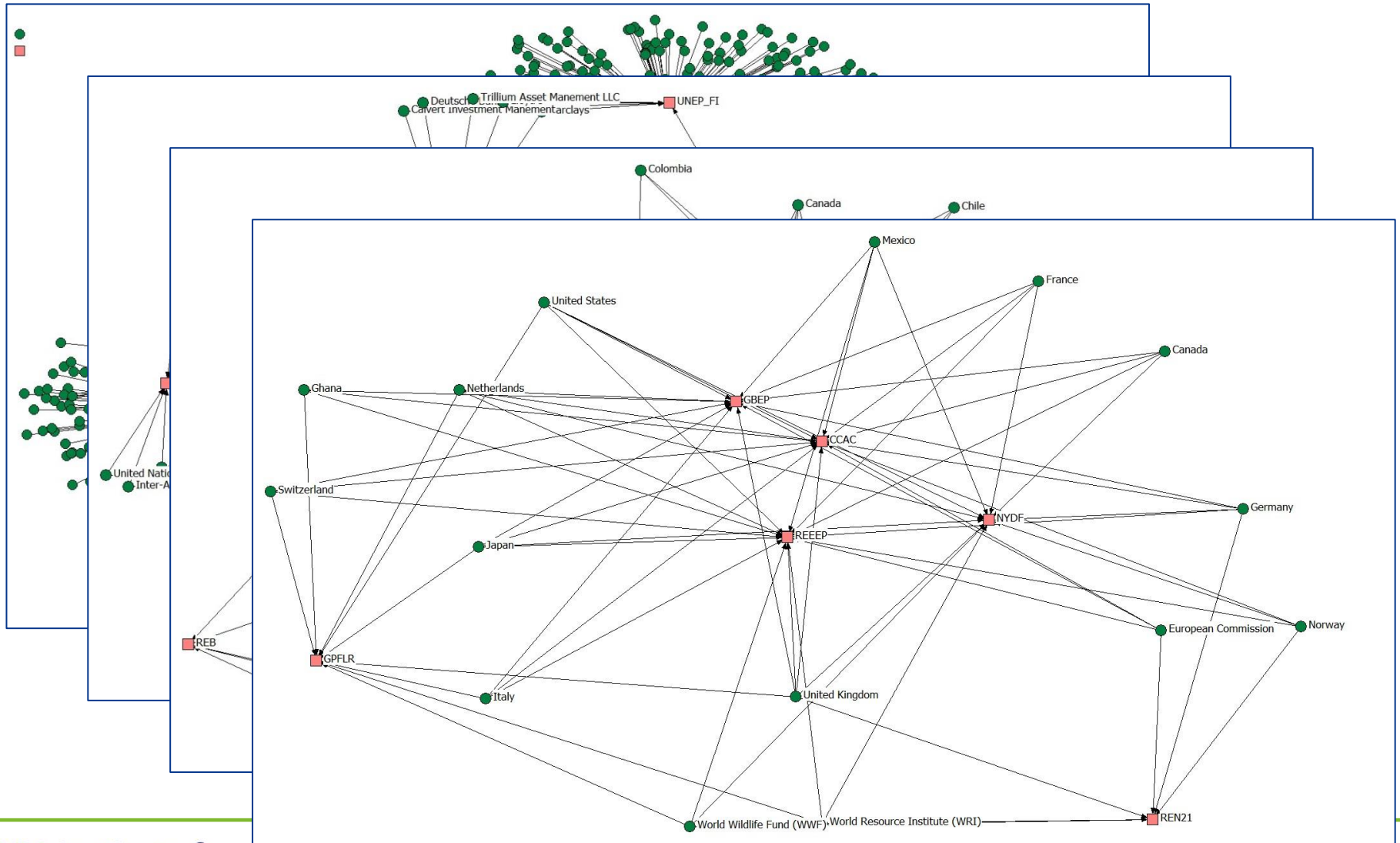


Fisheries

# (International) Regime Complex (zone 1)



## Central actors – k-core analysis - Zone 7

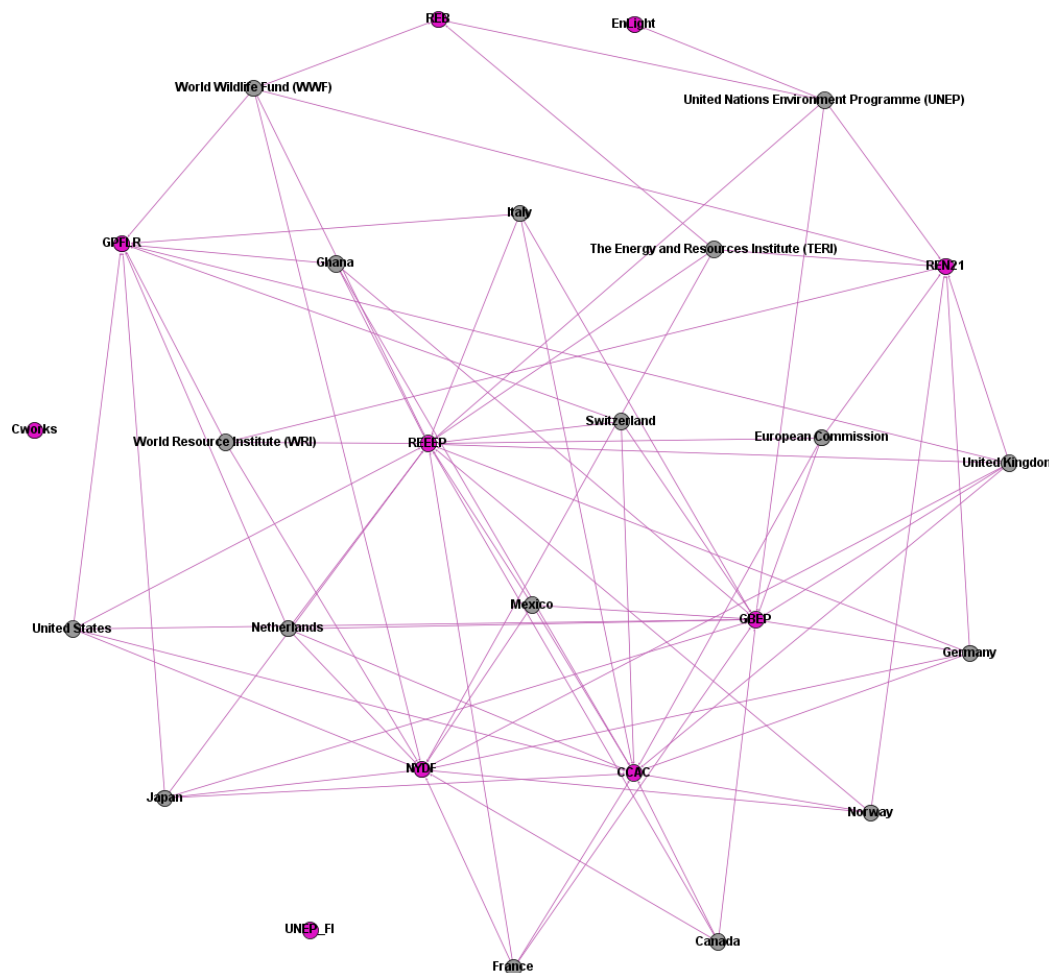




## Multi-stakeholder collaborations (zone 7)

## Important actors

- UK, Germany, Japan, NL
- WWF, TERI, WRI
- UNEP, European Commission, FAO
- ABN Amro, Deutsche Bank, Barclays



Discourse	Zone							
		1	2	3	4	5	6	7
								Average
	Green Governmentality	53,7%	42,3%	45,8%	38,0%	29,2%	42,3%	35,0%
	Ecological Modernization	18,0%	52,6%	22,1%	39,8%	41,7%	45,6%	24,2%
	Reformist Civic Environmentalism	21,1%	3,6%	29,8%	19,0%	20,8%	9,3%	37,9%
	Radical Civic Environmentalism	7,2%	1,5%	2,3%	3,2%	8,3%	2,7%	2,9%

Green Governmentality

Ecological Modernization

Reformist Civic Environmentalism

Radical Civic Environmentalism

53,7%

42,3%

45,8%

38,0%

29,2%

42,3%

35,0%

40,9%

18,0%

52,6%

22,1%

39,8%

41,7%

45,6%

24,2%

34,8%

21,1%

3,6%

29,8%

19,0%

20,8%

9,3%

37,9%

20,2%

7,2%

1,5%

2,3%

3,2%

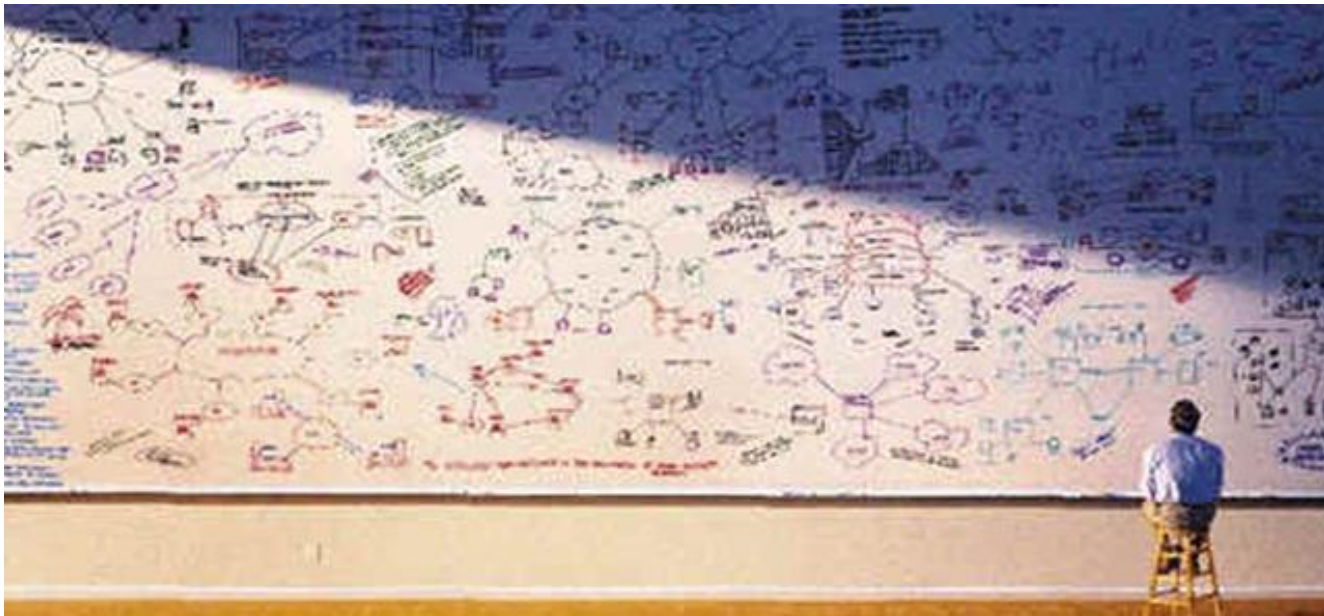
8,3%

2,7%

2,9%

4,1%





# Thank you!

- [www.fragmentation.eu](http://www.fragmentation.eu)
- Email: [philipp.pattberg@vu.nl](mailto:philipp.pattberg@vu.nl)