

3<sup>rd</sup> International Conference on Public Policy (ICPP3) June 28-30, 2017 – Singapore
Panel T10P06 Session 1 Digital methods for Public Policy, Thursday 29<sup>th</sup> June 2017

## Moving beyond the digitalised and natively digital divide?

Mapping climate policy debates in multiple spaces

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#### Introduction

"The past few decades have seen an explosion in "born digital" data – including from social media services and online platforms, smart phones, digital devices and the web. These sources of data open up new avenues for the study for social and political phenomena (Savage & Burrows, 2007; Lazer et al., 2009). This panel will examine the potential implications of a shift from "digitized" to "born digital" data and methods (Rogers, 2014). This methodological shift from a focus on polls, surveys and interviews to repurposing digital traces and big data is accompanied by a corresponding shift in ways of studying and thinking about of social life. Drawing on research in digital sociology, media studies, communication studies and Science and Technology Studies, this panel will look at how "born digital" data is and can be used in the context of public policy".

Addressing the panel topic by reflecting on the "digitalised" and "natively digital" distinction in digital studies through two examples of engagements between digital research, including "Digital Methods" approaches, and policy research

Thereby, thinking the distinction not in terms of a "shift", but rather in terms of choices of specific proxies that are more or less suited to produce distant readings of dynamics taking place in specific places, some online, some offline, in the same world.

## Situating "Digital Methods" within digital studies in SHS

What are we saying when we say "digital methods" for public policy (research and analysis)?

DM are an approach within "digital studies" within the computational turn in SHS proposing a « web epistemology » to address challenges of web-based research. By contrast to the import of existing SHS methods into the web or to the use of digitalized data, DM are "fully digitally native" by engaging in a repurposing of online devices and their methods for social research: they are "interface methods" (Marres & Weltevrede 2013) which are experimental, situational and precarious.

This highlights the need to reflect on the the ways different kinds of digital data are collected and analysed in studying complex policy debate dynamics, such as those around international climate policy



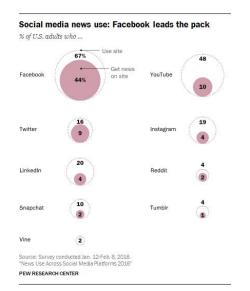
## Mapping climate policy debates relying on digital data

Debates over international climate policy deploy over different spaces forming the mosaic of public space of issues, at the official COP venues and beyond, including more and more "online" spaces, such as those provided by social media platforms.

How can we map the different spaces of climate debate by relying on digital data? And who does the nature of that data comes at play when considering tools and methods for producing distant readings?











# Mapping climate policy debates: finding the right data for the right space

Project MEDEA + EMAPS at médialab Projet ClimatCOP, LISIS, IFRIS, & NUMI SciencesPo 2011-2014 **Datasprints 2014-2016** Overarching objective Mapping emerging debates on adaptation to Mapping the spaces of "issue climatisation" at the climate change on different institutional spaces, occasion of COP21, actors involved and their

including UNFCCC; develop methodology. strategies and orientations.

What topics have structured the negotiation at How is COP21 thematised and different issues Research questions COPs and what have been their trajectories; how

within the larger project climatised in key social media platforms, and how framework are these trajectories are telling about climatisation those spaces affect the modes of issue climatisation

Space and timeframe of Inside COPs, off-line, over 20 years Outside COP's, online, namely on digital platformes,

inclduingTwitter and Youtube, over 2 weeks

inquiry Digitalized daily issues of the Earth Negotiations Corpora or data sets Social media data bought to data providers providing "proxy" access Bulletin of the 'IISD scraped from the web with ad (Linkfluence) and, Twitter data extracted via its APIs

with ad hoc software developed by the Digitial to those spaces hoc scripts in Python Methods Initiative, T-CAT

Tools CorText for text and network analysis, GePhi, Raw Radarly and TCAT for data analysis, CorText for

for data visualisation text and network analysis; Tableau, Gephi, Raw for data visualisation

# Inside the COPs

What digital data for mapping climate debates within the annual COP space?

## Data collection: finding a proxy for 20 years of COP climate negotiations





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Tuesday, 16 December 2014	Reporting Services	n Negotiations Buttetin	Vol. 12 No. 619 Page 36
The EU clarified that "evolving respon	nsibilities and	New Zealand, with Switzerla	and, called for concluding the
pabilities" captures the growth in the k HG emissions of developing countries, arrently more prosperous than some EU	noting that some are	consideration of the Co-Chairs' most of the elements of the CR undertaken over the past two di	

On policy signals and enabling environments, the US called for including text: encouraging parties to build effective enabling environments; calling for elimination of public incentives for high-carbon investment; and recognizing that climate finance flows in all directions. He suggested deleting reference to mobilization of climate finance "as a means to stay below the

long-term temperature limit," and, opposed by the African Group, to "adequate and predictable" funding for adaptation. Malawi, for the LDCs, lamented that text on "encouraging policy signals by governments" does not address provision of climate finance. New Zealand described "right" policies and enabling environments as a prerequisite for more effective flows

On sources of finance, Norway, Switzerland, Canada and the US suggested highlighting a variety of sources. The Republic including: a balanced approach to finance, with equal footing for adaptation and mitigation; a practical approach for mobilizing finance from the public and private sectors; and creating

synergies among different financial institutions. On the scale of finance, Egypt, with Paraguay, emphasized that adequate and predictable finance should come mainly from public sources. Algeria suggested that "adequate and predictable funding for adaptation" also be "additional." The EU and Japan, opposed by Ecuador, considered specifying finance as "adequate and predictable" problematic.

Egypt sought clarity on the scale of finance and supported quantified targets for finance to ensure predictability. Norway, the EU, Switzerland and Japan opposed an ex ante process to commit to quantified support commensurate with the ambition reflected in the adaptation and mitigation goals, with the EU signaling this as "a red line." Colombia emphasized the need to capture predictability in the new agreement.

Japan proposed deleting text suggesting that mobilization

and progress already achieved.

The G-77/China stressed the legal standing of the CRP as opposed to the Co-Chairs' non-paper. ADP Co-Chair Runge-Metzger invited parties to consult informally on the way forward. This issue was not further addressed during the session.

Adaptation: The US, Mexico, the Republic of Korea, Norway, Canada, Switzerland, the EU, Zambia, Japan and others provided comments on, inter alia: long-term and global aspects of adaptation; commitments and contributions; monitoring and evaluation; sharing information, knowledge and lessons learned; and institutional arrangements.

Saudi Arabia, for the LMDCs, Zambia, South Africa and others stressed the need to address differentiation. Switzerland said there is no need for differentiation on adaptation, noting that commitments are intended to facilitate preparation for adaptation actions without being burdensome. Australia and New Zealand opposed a "bifurcated" approach.

Tuvalu, for the LDCs, cautioned against referring to "contributions" or "commitments." The US proposed referring to "actions." Brazil said work that has been done under the Cancun Adaptation Framework and Nairobi Work Programme should be recognized. The LMDCs favored the terms "commitments" and "actions." India emphasized that determination of contributions should be country-driven.

The Republic of Korea supported a global adaptation goal that is general enough to be applicable to all and specific enough to inspire action on the ground. Norway requested that an option for no global adaptation goal be reflected. Japan expressed doubt over a quantitative goal on adaptation. The US, Norway, Canada and the EU supported broadening the scope of national adaptation planning processes.

New Zealand opposed a global goal on adaptation. The LDCs supported a long-term goal, noting that action on adaptation is dependent on mitigation and the global temperature limit. Ghana,

Malawi, for the LDCs, lamented that text on « encouraging policy signals by governments » does not address provision of climate finance. New Zealand described « right » policies and enabling environments as a prerequisite for more effective flows of climate finance

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## Data analysis: identifying topics over the ENB reporting on annual COPs



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ELOPMENT	development	830
	gef, global environment facility	438
5	ldcs, ldc. least developed countries	988
NT IMPLEMENTATION	ji, joint implementation, al, jointly implemented, implemented jointly	375
то растосоц	kyete proteoni, kyete proteonia	335
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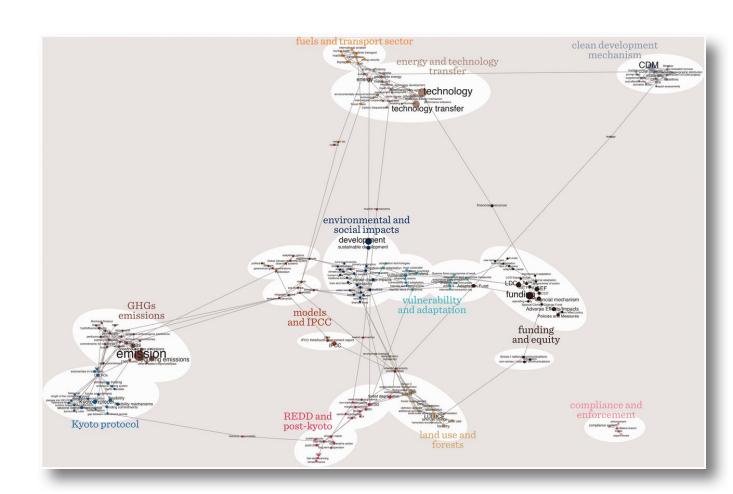


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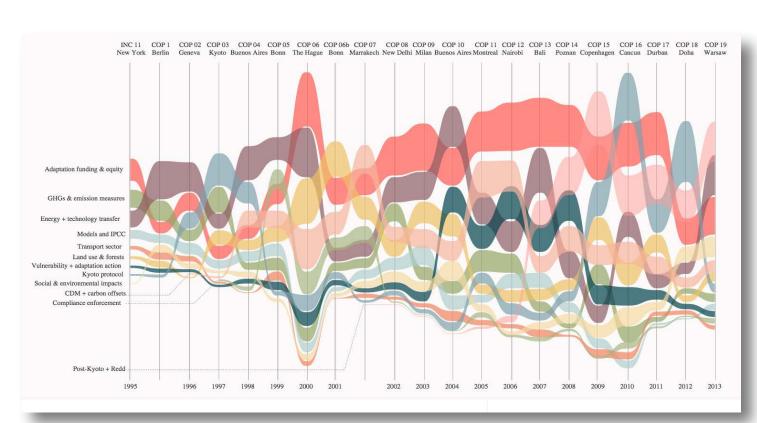
# Data visualisation

The semantic network structure of debates 1995-2013



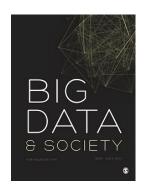
# Data visualisation

The trajectories of debate topics at COPs,1995-2013



#### Two articles and three websites

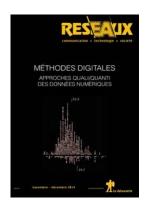
Venturini, Tommaso, Nicolas Baya-Laffite, Jean-Philippe Cointet, Ian Gray, Vinciane Zabban, and Kari De Pryck. "Three Maps and Three Misunderstandings: A Digital Mapping of Climate Diplomacy." Big Data & Society 1, no. 2 (2014).



Baya-Laffite, Nicolas, and Jean-Philippe Cointet.

"Cartographier la trajectoire de l'adaptation dans l'espace des négociations sur le climat: changer d'éechelle, red(u)ire la complexite."

Réseaux 188, no. 6 (2015): 159–98.





This website presents the results of the EU research project EMAPS, as well as its process: an experiment to use computation and visualization to barness the increasing availability of digital data and mobilize it for public debate. To do so, EMAPS gathered a team of social and data scientists, climate experts and information designers. It also reached out beyond the walls of Academia and engaged with the actors of the climate debute.





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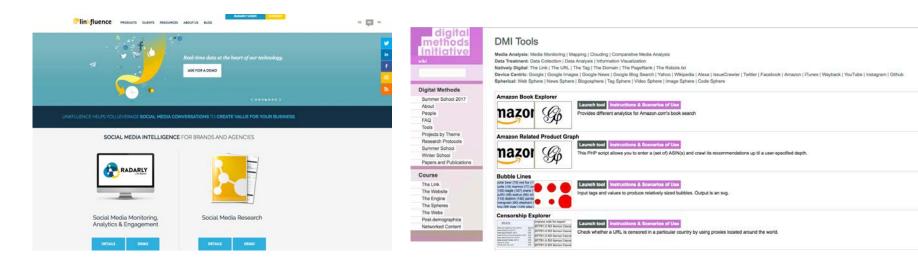
# Around COP21, online

What digital data for mapping online climate debates at the occasion of COP21

## Data collection: the challenge of access

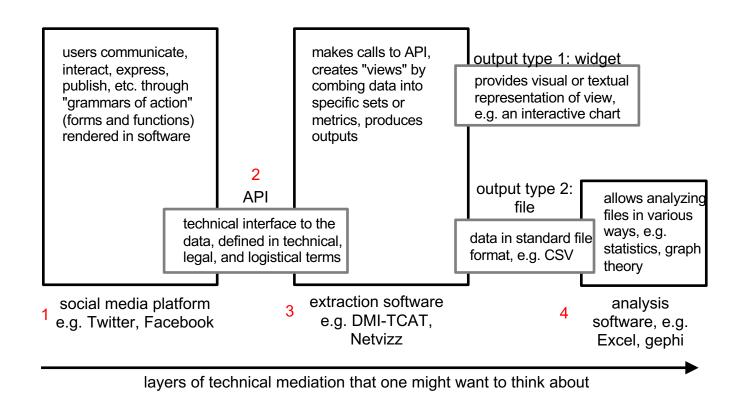
#### Data providers

#### Free, open software



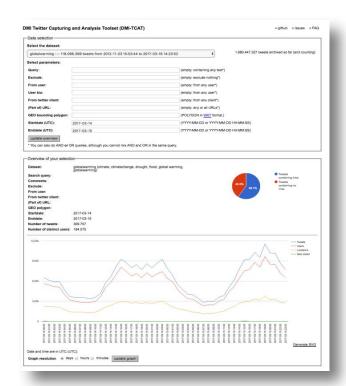
Each presenting its own pros and cons...

# Data collection: Berhard Rieder's diagram on how social media analysis with digital methods work



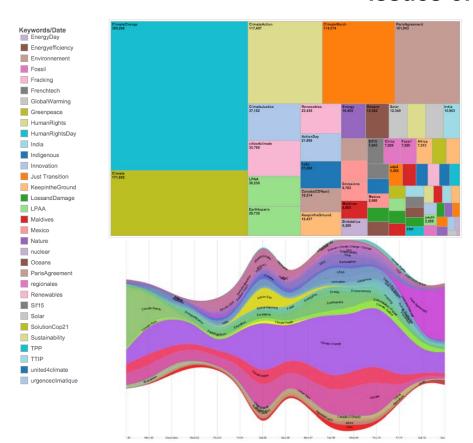
# Data collection and analysis: mapping #COP21 "climatisation dynamics" on Twitter with DMI T-CAT

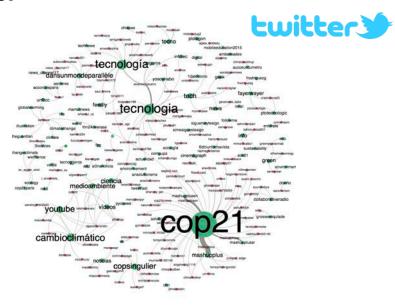




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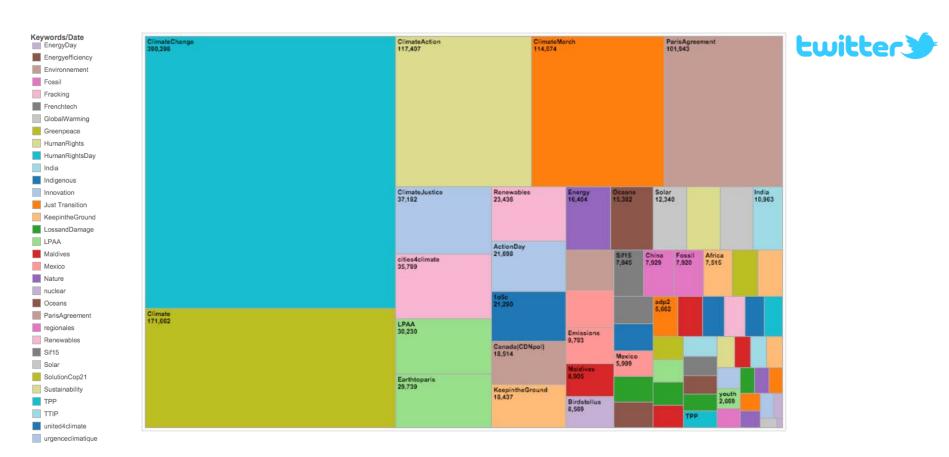
## Data visualisation: #COP21 and the hashtags race in the climatisation of issues on Twitter



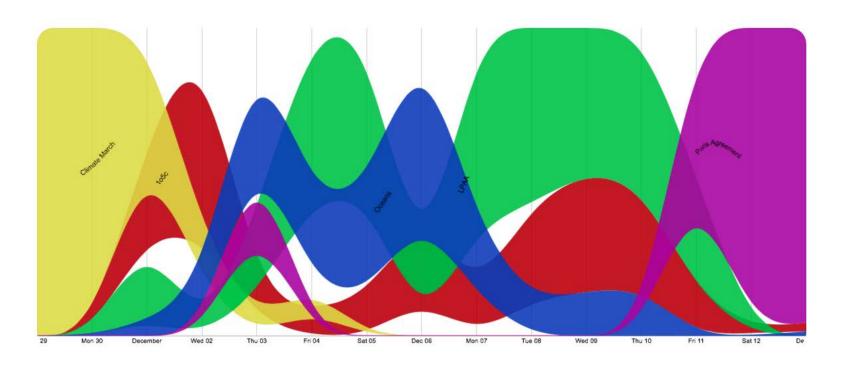


User-curated issue climatisation and the rise and fall of top daily hashtags during COP21

## COP21 on Twitter: the #hashtags race in the climatisation of issues



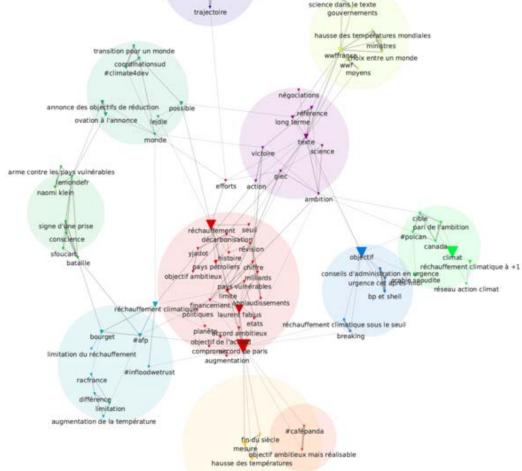
## **COP21** on Twitter: the #hashtags race in the climatisation of issues



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74	more talk	more talk	more talk	
75	replaced-url target temperature	temperature target replaced-url	temperature target replaced-url	
76	Indian researcher	Indian researchers	Indian researchers	
77	acciones aumentar necesitamos	necesitamos aumentar acciones	necesitamos aumentar acciones	
78	goal temperature	temperature goal	temperature goal	
79	COP21 replaced-url	COP21 replaced-url	COP21 replaced-url	
80	climate replaced-url target	climate targets replaced-url	climate targets replaced-url	
81	cut massive support	massive cuts and support	massive cuts and support	
82	COP21 protest	COP21 protest	COP21 protest	
83	logrario par	par lograrlo	par lograrlo	
84	check clamor reality	reality check on the clamor	reality check on the clamor	
85	Meta pedimos una	pedimos una meta	pedimos una meta	
86	change climate	climate change	climate change	
87	goal replaced-url temperature	temperature goal replaced-url	temperature goal replaced-url	
88	change climate fight	fight against climate change	fight against climate change	
89	global rise temperature	global temperature rise	global temperature rise	
90	COP21 deal	COP21 deal	COP21 deal	
91	final version	final version	final version	
92	target warming	warming target	warming target	
93	goal success warming	warming goal a success	warming goal a success	
94	climate goal replaced-url	climate goal replaced-url	climate goal replaced-url	
95	emails protest	protest emails	protest emails	
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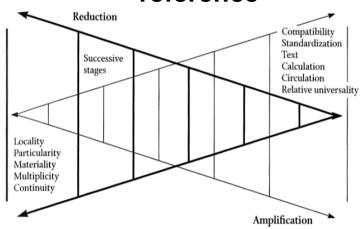
## 1.5 degrees issue semantic network of co-occurring terms in the twitter dataset between 1/4/15 et 8/2/16



# To conclude

Not a matter of shift but a matter of data proxies for specific spaces

# Accounting for the process of translation: Latour's chain of reference













## Conclusion

When mapping complex debate dynamics there are multiple sources of digital data which can be used, each presenting its own specificities which need to be accounted for. It is not a matter of shift, as one source cannot replace the other.

The first example focused on the "inside" of the negotiation and we used a collection of digitalised summaries of the ENB to map the evolution of topics over twenty-two annual conferences. The second one focused on Twitter and used Twitter data to map online interactions around the 21st COP in Paris using the #COP21 hashtag to delimit a space where public debate on climate change policy takes place

Both sources of data, digitalised ENB summaries and natively digital Tweets have their specific grammars that have to be accounted for when using them as proxies to produce distant readings in the form of visualisations of topical dynamics about climate policy taking place in specific spaces

Both online and offline spaces participate to the overall conversation taking on climate policy in the same world, but in different spaces, and to study them we need different data proxies.