# Title Page

### Full title:

What do Academic Metrics do to Political Scientists? Theorizing their Roots, Locating their Effects

# Short title (40 characters max including punctuation and spaces):

Metrics and Political Scientists

# Author name & affiliation including full postal address and e-mail:

Dr Stephane J. Baele, Department of Politics, University of Exeter. Amory building, Rennes Drive, Exeter EX4 4RJ. S.baele@exeter.ac.uk

Dr Gregorio Bettiza, Department of Politics, University of Exeter. Amory building, Rennes Drive, Exeter EX4 4RJ. G.bettiza@exeter.ac.uk

### Keywords:

Academic rankings, Metrics, Political Science, Behaviours, Perceptions, Identity.

#### Abstract:

This paper situates academic metrics (journal, institutions, and individual scholars' rankings and ratings) within the broader logic of neoliberal government, in order to better identify and understand the impact of these metrics on political scientists' perceptions, behaviours and identities. The results of a pilot survey conducted among political scientists in the UK and Belgium are used in order to further expose this impact.

"Numbers are today's preeminent public language – and those who speak it rule" (BLASTLAND & DILNOT 2009: x)

"The measures seemed, at first rather harmless, but, like cuckoos in a nest, they have grown into monsters that threaten science itself" (LAWRENCE 2007: 583)

This paper discusses the impact of academic metrics on scholars' perceptions, behaviours and identities. It does so by using the literature on social quantification to reflect on the results of a pilot survey conducted among political scientists working in two very different environments when it comes to metrics – the French-speaking Community in Belgium where quantification is almost inexistent, and the UK where it is ubiquitous. By locating academic metrics within the neoliberal logic, we are able to expose and critically assess their most important working dynamics and impacts: first they standardize academic perceptions and behaviours (paradoxically producing specific forms of deviance), and second they erode traditional academic identities

Three recent developments prompted this study. The first development is the ongoing discussion on the establishment of a metrics-based evaluation of teaching quality in in UK higher education – the so-called TEF. As this project is gaining impetus despite heavy criticisms, it is important to have a clear idea of what metrics would do to teaching - arguably the last aspect of academic work that lacks strong metrics. The second development is more ethical in character. Two years ago Imperial College professor Stefan Grimm committed suicide shortly after having received an email containing these words (our emphasis): "I am of the opinion that you are struggling to fulfil the metrics of a Professorial post at Imperial College [...] and must now start to give serious consideration as to whether you are performing at the expected level". Much of the heated debate that ensued has focused on the issue of metrics, either as a direct factor in producing an unbearable and indeed deadly environment<sup>2</sup> or more indirectly as a dangerous tool able to create such an environment when misused by university management. However these discussions failed to fundamentally alter the way metrics are routinely designed and used today in academia. A better understanding of how they work and why they can in some cases lead to dramatic situations should be gained. The third and final development is a corollary of the third one: it is the emergence of a timid yet now significant reaction against simplistic academic metrics. Several initiatives have appeared, from the San Francisco

<sup>-</sup>

<sup>&</sup>lt;sup>1</sup> "The use of metrics can vary markedly between countries" (ANON. 2010b: 861), and nowhere is this truer as with the French-speaking Belgium versus UK comparison. It is beyond the scope of this paper to offer a detailed comparison, yet here are some elements supporting our choice. None of the political science departments in French-speaking Belgium include quantitative objectives or benchmarks in contracts or progression criteria, and the government is highly reluctant to implement metrics, which goes as far as explicitly prohibiting the international experts in charge of evaluating the teaching programmes across universities (AEQES evaluations) to quantify anything in their reports – see for example the last report for Political Science programmes (2009-2010). There is no rating or ranking of programmes or departments in the national press. By contrast, the UK academic environment is characterized by widespread "coercive accountability" based on metrics (see – already – SHORE & WRIGHT 2000), which are produced by the government, the press, for-profit organizations and universities themselves. Metrics are included in most work contracts and structure the vast majority of progression pathways. As Adler and Harzing crudely put it, one needs only to observe the UK university system in general and its job market in particular "to witness the dysfunction of the current [metrics-based] system" (ADLER & HARZING 2008: 84).

Declaration on Research Assessment (DORA) calling for more accurate measurement tools instead of generic metrics like the impact factor or H-index,<sup>3</sup> to the establishment of a Bad Metric Prize "to the most egregious example of an inappropriate use of quantitative indicators in research management",<sup>4</sup> and more importantly the decision of the Australian Research Council (ARC) to abandon journals ranking in its Excellence in Research for Australia (ERA).<sup>5</sup> It is worth evaluating whether this trend is a positive move or whether it misses its target.

Academic metrics are no longer an epiphenomenon. They deserve a theoretically- and empirically-informed analysis. Studies on specific aspects of academic metrics do exist and have already provided a solid basis for discussion, but they tend to only explore very particular aspects and tend to lack theoretical depth. The present paper ought to provide a first attempt at correcting these shortcomings by examining the dynamics that underpin academic metrics, with the central contention that these need to be understood as a core component of the expansion of the neoliberal logic to the academic sphere which is studied by a rich literature (e.g. SLAUGHTER & RHOADES 2004; MOLESWORTH, SCULLION & NIXON 2010; TEIXEIRA & DILL 2011) to which we aim to contribute. More particularly, our paper is a modest contribution to the effort to document and understand the "marketization" of the higher education system (e.g. FOSKETT 2010) – a trend exemplified the UK by documents and policies like the 2011 White Paper on Higher Education, Students at the Heart of the System (which amongst others advocated for a stronger role of the private sector in UK academia and called for a strengthening and expansion of regulatory frameworks), whose "consumer-based" managerial narrative and effects informed the TEF project evoked above.

We proceed in two steps. First, we briefly explore the rise of the numbers-led governance that drove the expansion of neoliberal "governmentality" – a term from philosopher Michel Foucault that encapsulates the specific ways through which today's government works – and also situate metrics at the core of the capitalist logic, drawing on Gilles Deleuze's work. This framework will allow us to highlight two key effects – or rather, working dynamics – of metrics: they standardize perceptions and behaviours, and they re-shape identities. The presence of these two effects in academia and more particularly political science is then systematically analysed and discussed in the second part of the paper, which builds on the results of a pilot survey of political scientists working in French-speaking Belgium and the UK (more specifically a Russel Group University)<sup>6</sup>, and incorporates the literature on academic rankings and on the "marketization" of higher education more generally

# Liberalism and the Politics of Numbers

Our central contention is that one needs to situate academic metrics within the wider trend of numbers-led neoliberal governance. Academic metrics are only one instance of much broader dynamics that are inherent to the rise of the liberal style of governance as exposed by Foucault and the expansion of the capitalist logic as theorised by Deleuze.

Scholars like Hacking (1982), Rose (1991) and Desrosieres (1998) have documented the development throughout the 20<sup>th</sup> Century of an ever-expanding web of state-run statistics on both

<sup>&</sup>lt;sup>3</sup> See <a href="http://www.ascb.org/dora/">http://www.ascb.org/dora/</a>. One of the many signatories of DORA is the Royal Society.

<sup>&</sup>lt;sup>4</sup> See <u>https://responsiblemetrics.org/.</u>

 $<sup>^5</sup>$  See also Anon. 2007 on "Academics Strike Back at Spurious Rankings".

<sup>&</sup>lt;sup>6</sup> The Russel Group "represents 24 leading UK universities which are committed to maintaining the very best research, an outstanding teaching and learning experience and unrivalled links with business and the public sector" (<a href="http://russellgroup.ac.uk/">http://russellgroup.ac.uk/</a>). It unites institutions like Cambridge, Oxford, UCL or Durham.

the general population and specific sub-groups (e.g. criminals). The ambition of this literature was to further document and theorise Michel Foucault's claim that statistics play a central role in the way power works in advanced liberal societies (e.g. FOUCAULT 2004: 104, 280). He argued that public policies today heavily depend on the quantification of reality in order to establish standards of normalcy and deviance that allow minimal intervention (an "economy of power" as defined in FOUCAULT 2001b) instead of a costly general surveillance of the population (as in authoritarian regimes). Liberal societies establish a statistical norm defining the range of authorized behaviours in each area (e.g. drinking, eating, sex, health) so state power can concentrate on out-of-norm "deviant" behaviours. When advertised by the government or associated organizations, these social norms become more powerful than coercive laws as they end up being internalized as morally desirable by citizens (BERNS 2009: 81). In this regard, today's government has been called by Foucault (e.g. 2001a) and his followers a "governmentality", to highlight that liberal societies are governed through an extensive set of norms, most of them dependent on a large body of quantitative knowledge about the population, which infuse mentalities and thereby shape and establish the limits of deviant behaviour (LABORIER & LASCOUMES 2005: 43; DEAN 1999). Numbers are thus today's most prominent "technique of power", "integral to the problematizations that shape what is to be governed, and to the unrelenting evaluation of the performance of government that characterizes modern political culture" (ROSE 1991: 675). Government is done "at a distance", "as if governing agencies only cared about collecting data that is already there [...] but in fact implement a multiplicity of control systems resting on classifications and quantitative evaluations (BERNS 2009: 7-9). Consequently, norm-based policies have as major consequence the standardization of perceptions and behaviours. Subjects conform not only to elude coercive action, but also in order to avoid being seen and blamed by others as deviants. They embrace standards in an attempt to live up to the exigencies of "normalcy" that are supposed to characterize an ethical and responsible subject (Burchell 1996). Even standards that were once seen as constraints develop into "practice standards" (TIMMERMANS & EPSTEIN 2010): top-down social regulations become invisible, undisputed, unchallenged and create routines and unreflective habits.

In an intense dialogue with Foucault,<sup>7</sup> Gilles Deleuze further theorised the use of numbers in contemporary dynamics of power. He claimed that more than tools to establish social norms, numbers perform a much deeper value-giving function that lies at the heart of capitalism, which ought to be understood not only a form of economy but more fundamentally as a system of perceptions and power. One of the many theses put forward in his book *Capitalism and Schizophrenia 2: A Thousand Plateaus* (Deleuze & Guattari 1980), but also in his later volume *Pourparlers* (Deleuze 2003) is that capitalist societies destroy old-fashioned moral classifications, replacing them by a universal quantitative "axiomatic" – that of value.<sup>8</sup> As Baele sums up, capitalist societies "are characterised by a disappearance of traditional classifications, called 'codes'. Respectable clear-cut categories that used to structure pre-capitalist traditional societies by rigorously implementing constraining rules (on marriage, social behaviours, ingroup hierarchies, and the like) and by distributing fixed roles have lost their importance with the emergence and expansion of capitalism. [...] In sum, capitalist societies re-code ancient problems, dissolve traditional categories

<sup>&</sup>lt;sup>7</sup> As attested for example by Deleuze's book *Foucault* (1986/2004)

<sup>&</sup>lt;sup>8</sup> Both books offer a wide range of insights, which are notoriously complex to interpret. We do not aim here to provide a definitive exegesis of Deleuze's social theory, not do we claim to precisely connect it to Foucault's work on governmentality. Rather, we more modestly highlight one of its main arguments in a straightforward and analytically useful way.

together with their normative charge. [...] New categorisations are made according to a single, simple quantitative principle and not according to qualitative codes inherited from complex and deeply entrenched social traditions. [...] Quality is replaced by quantity" (BAELE 2014: 212-214). Therefore capitalist societies impose "a law of general equivalence in the form of monetary value" (ROFFE 2005: 35-36) which works "by purely quantitative calculation, dispensing with meaning systems of coding or overcoding" (BONTA & PROTEVI 2006). In all sectors, traditional values and organizations are contested on the basis of their "subjective" or "irrational" character and replaced by "objective" or "rational", "evidence-based" quantitative criteria that "are supposed to be generated by a processing of numbers independent from passions and opinions, that is, based on scientific procedures that are seen as warranting objectivity and dissolving idiosyncrasies" (MOLLE & MOLLINGA 2003: 538). Complementing Foucault's study of liberal governmentality, Deleuze's analysis highlights a much deeper trend - the expansion of the capitalist logic of quantitative evaluation to non-strictly economic social fields. Yet even if the new categories and evaluations produced by the capitalist axiomatic look objective, value-neutral and unquestionable, they are of course never effectively so for they consistently favour the winners of the global market and make it impossible to the losers to play the game. In this context, "critics, if they want to be heard, are forced to play the game of quantification" (BAELE 2014: 216) or else are accused of holding irrational or ideologically biased beliefs and goals. Opponents of a given quantitative standard have seemingly no other choice than suggesting a new one and become standardizers themselves, 10 and numbers become the best "rhetorical weapons" (Bréant 2012: 156; also Boswell 2009: 89 on immigration debates). 11 As a consequence, community-based identities are progressively eroded: the progressive erasure of old codes of conducts based on particular groups' values and history, in favour of the expansion of the axiomatic of numbers leaves no basis for common in-group identity, thereby diminishing individuals' sense of purpose at the same time that the new rules of competition increases their stress. This kind of social environment, Deleuze theorizes (2003: 235-246), is a "society of control", where the traditional, field-specific mechanisms of discipline shaped by the old codes are replaced by a unitary principle of regulation: continuous quantitative monitoring and benchmarking. As Toscano (2005: 18) summarizes, the capitalist "axiomatic moves us from a society of discipline to a society of control". In an increasingly expanding range of activities (education, work, leisure, etc.), individuals' performance is measured. As Deleuze puts it (2003: 244, our translation), "the language of control is made of numbers": control is exerted through the continuous monitoring of these quantitative indicators, which creates powerful processes of subjectivation (LAZZARATO 2006: 180), as individuals not only are pressurized to perform but also internalize high performance as a moral ideal.

To sum up, the Foucauldian and Deleuzian approaches together highlight the fact that quantitative evaluations and classifications are not simply isolated tools that solely provide a value-neutral aid to perception. Rather, they are an essential mechanism in the working dynamics of power in liberal societies. In fields where traditional codes have been replaced by quantity-based control, they a) shape perceptions by providing a norm which is quickly internalized as a moral rule, thereby standardizing perceptions and behaviours (and creating deviant practices), and b) erode old codes of

-

5

<sup>&</sup>lt;sup>9</sup> See for example Baele's analysis of immigration policies (2014), which have historically moved from openly racist rationales to "value-neutral" approaches based on potential immigrants' net financial contributions/costs.

<sup>&</sup>lt;sup>10</sup> For example, the EU Commission voiced its dissatisfaction with the major university rankings, yet responded by creating its own set of quantitative performance indicators – the U-Multirank – which is supposed to provide a "better" evaluation.

<sup>11</sup> (read e.g. Allen & Preiss 1997).

identities and meanings that used to structure sectors of social life, without any real possibility of resistance that does not include numbers. The prevalence of these two effects in academia in general and political science more particularly is analysed in the next section.<sup>12</sup>

# The Impact of Metrics on Academic Work

To investigate and discuss these two effects, we not only use information from the literature already produced on academic rankings and the "marketization" of higher education, but also support our analysis with comparative evidence from a pilot survey which asked political scientists to reflect on the impact of metrics on their professional environment. Using Belgium as a baseline of a Western academic environment with almost zero quantification, and comparing this with UK where quantification is extremely prominent, allows us to better unearth and discuss the working dynamics and two main effects of quantification. We sent the hyperlink of an online survey with 30 Likert-scaled questions and additional open-comment boxes, to the listsery of the French-speaking association of political scientists in Belgium, and to all members of the author's own UK-located Department of Politics. This latter institution, where metrics occupy a central place in management, stands as a particularly adequate place to identify the effects of academic metrics – the formal use of measurable benchmarks by university management is more extensive and systematic there than UK average, including other Russel Group universities (e.g. precise funding metrics are included in progression criteria). It is important to note that this intervention was not designed as a rigorous random-sampling survey, but rather as a pilot on which to base further, more systematic research, using a convenient sample to sketch the strongest identifiable trends. Overall, 16 political scientists working in French-speaking Belgium took the survey, 14 exactly the same number than in the UK department. Their answers are provided here in a purely descriptive way; because we do not control for other factors that can potentially play a role (e.g. gender, career stage, ideological affiliation), these results should not be overgeneralized even when strong trends are clearly visible.

### 1) Standardizing perceptions and behaviours

Do metrics standardize thinking and behaviour? Both the literature and the results of our poll suggest so. A good starting point is to notice that the vast majority of scholars in Belgium and the UK acknowledge having a "quite accurate idea of where academic journals, institutions, and scholars stand in their respective rankings" (Graph10),<sup>15</sup> and that the distribution of people who "regularly consult ratings and rankings on various aspects of their jobs" (Graph11) is almost identical in each environment. It therefore seems correct to claim that measurements are now "dominating minds" (Lawrence 2007:583) even where they don't have a direct impact.

<sup>&</sup>lt;sup>12</sup> Although our enquiry could trigger discussion in other disciplines, our empirical study focuses only on Political Science, which has its specificities. Further work could examine the differentiated impact of metrics in disciplines with different traditions or "statuses".

<sup>&</sup>lt;sup>13</sup> If we take Brown's typology of higher education systems relative to their permeability to market forces (2010), the UK is a "marketised" or at least strongly "marketizing" system, whereas French-speaking Belgium is a clear example of the opposite, "Continental" European system where 1) tuition fees are low, 2) competition for students is inexistent, 3) private involvement and fundraising is almost inexistent, and 4) state control is extreme.

<sup>&</sup>lt;sup>14</sup> Given the limited amount of political scientists working in French-speaking Belgium, this is actually a high participation rate.

<sup>&</sup>lt;sup>15</sup> Graphs are provided in annex. They are numbered following the order of the survey questions they relate to.

Foucault's analysis of neoliberal governmentality and Deleuze's reflexions on the capitalist axiomatic and societies of control suggest that the repeated use of metrics tends to make them less contested, more accepted as "true" and "objective". Graph1 indeed shows that there is greater agreement in the UK that academic metrics "objectively reflect the reality they seek to measure", and conversely disagreement with the idea that they are "bad for the field, a phenomenon that should be resisted" (Graph8) - although UK-based political scientists overwhelmingly agree that metrics are "misused" (Graph6) and "participate in, are a key component of a broader political agenda" (Graph 7). As one UK-based respondent boldly noted, this agenda "is to reorganise the university along the lines of a for profit firm", which echoed a Belgian respondent's identification of a "managerialisation of research" agenda. But whilst most UK-based academics do not adhere to this agenda, they nonetheless tend to agree that metrics "drive excellence" (Graph5) and "increase productivity and, conversely, a lack of metrics encourages laziness" (Graph22), in stark contrast with their Belgian colleagues. This difference between the UK- and Belgium- based scholars on the objectivity of metrics is particularly true for Department rankings (Graph3), 16 whilst individual scholars rankings stand out as the only metric which is perceived in both places as not objective (Graph4). These results illustrate Nkomo's claim that scholars who work in metrics-heavy environment "have all in some way or another fallen under the seductive power of academic journal rankings even as we harbour serious reservations about their value" (2008: 106), and shed a new light on previous surveys which all documented a strong opposition to the kind of academia structured by metrics but without investigating whether respondents would nonetheless paradoxically claim that metrics are objective, accurate and favour greater achievement.<sup>17</sup>

It is well known that metrics vary widely depending on how they are calculated (e.g. INKPEN & BEAMISH 1994; CHAN, FUNG & LAI 2006) and that they create and freeze hierarchies that handicap disadvantaged groups as they are blind to these disadvantages (e.g. endowment in institutions rankings; age, family situation or gender in individual scholars' rankings; etc.). However, despite this bias towards those already in a favourable situation, some academics defend the "objectivity" of metrics by attacking the older practices and codes of academia as "subjective" and "irrational", in straight line with the theories of governmentality and societies of control exposed in our first section. As one of the UK-based respondents to our poll justifies, "qualitative measures like peer review produce bad outcomes, e.g. the tenure system in the US can be really stressful, arbitrary and politicised", echoing the many respondents in the Nature 2010 poll who want metrics to "break the old boys' networks" (Anon. 2010b:861) and those who think that metrics in the ERA process "promote transparency instead of network nepotism" (Young, Peetz & Marais 2011:81). Indeed as Adler and Harzing rightly explain (2008:74), "the stated reasons for creating and using such academic ranking systems usually include 'fairness' in universities' hiring, promotion, and tenure decisions". 18 In sum, the intensive use of metrics in the UK in general and the Politics Department selected here in particular has now created a standardized perception that despite their misuse and role in highly contestable political agendas, they are somehow nonetheless objective and produce desirable

-

<sup>&</sup>lt;sup>16</sup> This is probably partly due to the consistently high "rank" of the studied UK Politics Department in most national tables.

 $<sup>^{17}</sup>$  For example: Young, Peetz and Marais (2011) for Australia, Harley's post-1996 RAE poll for the UK (2002), or the Nature 2010 survey (Anon. 2010b).

<sup>&</sup>lt;sup>18</sup> We do not pretend here that traditional qualitative practices like peer-review work perfectly nor that they leave no room for nepotism – indeed the dramatic scale of peer review inconsistencies have been well documented (e.g. Cole, Cole & Simon 1981; Cichetti 1991), among others. Rather, we claim in line with Deleuze's analysis of capitalism that metrics are no less subjective or biased in favour of already privileged individuals and institutions, but this subjectivity is hidden by numbers.

outcomes. Just like the Foucauldian scholars cited above observed (Molle & Mollinga 2003; Baele 2014), those who do not like rankings fail to imagine a non-quantitative alternative – for example, one UK-based respondent argued that "if we deny any metrics, governments will simply create their own and use them to determine funding, etc. We need to remain involved in the selection of metrics to have some say".

This standardization of perceptions has a clear impact on practices: many more people in the UK agree that their work "is influenced, shaped by academic metrics" (Graph12), both in research-related decisions (Graph13) and career-related decisions (Graph15). Clearly, academic metrics are "reactive measures" (WEINGART 2005:125). The differences with their French-speaking Belgian colleagues are striking but remarkably, teaching-related decisions tend to escape this difference, certainly because there is no strong teaching-related ranking yet – something the TEF is due to "correct". As a consequence, UK-based political scientists tend to work in identical ways. They are much more likely to "routinely implement strategies to maximize their performance as measured by particular rankings" (Graph17), leading to a standardization of research at three interconnected levels.

First, our poll shows that scholars in high-metrics environments are much more likely to only publish the kind of papers that "count" in metrics (Graph18). One UK-based respondent clearly admitted being "less willing to participate in an event if I think the organisers will then want to publish my paper in an outlet that the university would not think sufficiently prestigious". This stands in line with previous findings. For example, Young, Peetz and Marais' survey of Australian academics revealed a sharp adaptation of publication strategies after journal rankings were introduced to the ERA, with an extreme reluctance to send papers to non A-ranked journals (2011:83). Nature's poll result similarly show that more that 50% or academics changed their behaviour in accordance to relevant rankings' designs, the same score highlighted by Harley's study of the effects of the 1996 RAE (2002:197). Nkomo (2008:109) is therefore right when he argues that "scholarly ranking mechanisms may create a general state of myopia": academics format their research according to the affinities and narrow standards of the handful top-journals of their field.

Second, this means privileging a specific kind of publication that favours strong empirical results to the detriment of critical, theory-based challenges to the mainstream. Indeed publishing in highimpact, established journals "encourages conservative research that asks familiar questions using accepted methodologies rather than research addressing new, often controversial questions that are investigated using innovative methodologies", creating a situation where "much academic research is rigorous but irrelevant" (ADLER & HARZING 2008:80). Weingart (2005:126) concurs that scholars "under a regime of evaluation-based funding publish more but less riskful, mainstream rather than borderline papers", a view similar to that of de Rond and Miller who claim that the "emphasis on productivity at the expense of innovation, generates output that may be seen as relatively incremental, lacking in significance and substance, and too often restating the obvious" (DE ROND & MILLER 2005:322). This results in a narrowing of the academic debates around standard mainstream methods and "controversies", which favours a narrow definition of scientific disciplines against real interdisciplinary enquiries (HAZELKORN 2009:9). As one Belgian respondent explains, metrics "erase REAL diversity. They maintain the FORMAL diversity without which the debates that justify publishing could not be maintained. Diversity still exists but there is an agreement on how legitimate disagreements can and shall be expressed. There is an agreement on the people with whom you shall agree or disagree". Another Belgian respondent agrees: "[metrics] homogenize thinking and reduce cultural and intellectual diversity", and another argues that metrics "drive concentration and standardisation of research". However, once again the argument against "subjective" non-quantitative evaluations of research outlets is evoked among UK academics to justify the standardized practice of always submitting to the same limited group of "top" journals. For example, a UK-based respondent explains that the alternative to submitting to "top" journals is to "just publish in books edited by my friends". This reflects a clear trend: UK-based political scientists overwhelmingly think that "metrics encourage them to produce stronger research, incentivize them to reach excellence", at the exact opposite of their Belgian colleagues (Graph21) who strongly agree that metrics "erase diversity" (Graph9).

Third, scholars are less likely to engage in long-term, risky research programmes when they are constrained by their management to keep a strong publication pace, instead favouring less ambitious quickly-written papers that only seek to "fill gaps" with easily available data and no real theoretical originality – a standard behaviour which once again contributes to the broader standardization of scholarship. Many academics warn that this standardization of research away from risky, long-term research agendas makes great scientific achievements less likely, deteriorating the overall quality of scientific work. Lawrence for example strongly argues (2008:1) that "scientists have been forced to downgrade their primary aim from making discoveries to publishing as many papers as possible [...]. Consequently, scientific behaviour has become distorted and the utility, quality and objectivity of articles have deteriorated". Although our poll does not document a big gap between Belgium- and UK-based colleagues' respective propensities to rush submission (Graph20), one UK respondent nonetheless agrees that "institutional incentives do this, i.e. having the requisite number of publications for probation/promotion", whilst one of his/her colleagues admits that his/her focus on "quick papers" is "likely to increase in the future given the [new career development scheme] high expectations". In Belgium, one political scientist denounces a "meaningless overproduction under the constant pressure of 'publish or perish' [...] at the expense of quality. Good research needs time", whilst another respondent crudely argues that metrics "increase the production of crap".

This standardization of thinking and practices simultaneously creates specific "deviant" behaviours that tempt those who struggle to "fulfil the metrics" (to take the expression used in the email to Prof. Grimm) – indeed Foucault's analysis of "deviant" behaviours claims that these are not only defined by, but also produced and shaped by the main logic guiding categorization. Our poll does not directly support this claim, but produces some interesting insights. On the one hand, there is an apparently overwhelming consensus on not engaging in the most obviously deviant metrics-related behaviour: "gaming metrics, i.e. hide, manipulate, or shape information on you in order to maximize position in metrics" (Graph19). On the other hand there is some clear evidence for a temptation for "borderline" practices, and the line between "normal" and "deviant" behaviours is thin. For example, if Graph23 documents a widespread reluctance to pay to artificially improve self-standing in rankings, it simultaneously shows that in the UK Politics Department four out of the sixteen respondents openly answered that they would consider this contestable practice, against zero in Belgium. This number alone suggests that metrics produce specific numbers-gaming behaviours at various level of gravity, which have played a role in most recent cases of academic fraud (WEINGART

\_

<sup>&</sup>lt;sup>19</sup> The name of this career development scheme has voluntarily been removed.

2005:128).<sup>20</sup> The presence of these behaviours or at least their appeal is reflected by one of the most significant results of the *Nature* survey (Anon. 2010b), where 71% of respondents are worried that their colleague cheat or game the metrics to gain relative edge.

The above paragraphs have highlighted the various standardization effects produced by a high use of metrics. In spite of a cross-country general agreement on the bad use of metrics and acknowledgment of their underlying political agenda, they are more trusted and less contested where their use is intensive, leading to a standardization of behaviours (chiefly research practices). Even when they disagree with what metrics stand for, scholars in high-metrics environment nonetheless internalize their presence, rationalize and justify their use, lauding their "objectivity" and acting in accordance, in line with Timmermans' and Epstein's "practice standards" evoked earlier. This also related to a surprising result of the *Nature* poll: even though almost 75% of respondents were not satisfied with rankings, the vast majority of them nonetheless wished to be evaluated on the basis of the most notoriously imperfect quantitative indicators (journal impact factor, h-index) (ANON. 2010b:862). A similar finding was already present in the 1996-1997 survey conducted by Harley (2002), which showed strong discontent with metrics yet at the same time a significant compliance to the new rules and even an active promotion of the new logic of quantitative audit. This paradox is well explained by the fact that arguing against numbers is extremely difficult due to their "objective" aspect – indeed "how can we quarrel with something that is said to be scientific since it provides comfort that our subjective judgments are minimized?" (NKOMO 2008:108).

### 2) Eroding identities

As highlighted earlier, the standardization of thinking and behaviours along quantitative lines is done at the expense of "old" values structuring specific social fields, thereby lowering the sense of purpose and meaning among individuals. This claim has already been made in the literature on neoliberal higher education in general and academic metrics in particular, which echoes Deleuze's powerful claims on the role of the quantification in the erosion of field-specific traditional values – here for example "quality of research", "care for students" or "autonomy". For example, Lawrence (2007:585) argues that the demands of metrics-based management on academics "lay waste their sense of purpose and attack their self-esteem", whilst de Rond and Miller (2005:325) claim that metrics diminish scholar's self-esteem in "contributing to their irrelevance".. Beck and Young (2005) go as far as arguing that the marketization of academia is an "assault" on the profession that works through the erosion of academics' "inner dedication" to their traditional codes of conducts. In a quantitative benchmarking environment, academics "live an existence of calculation" (CLEGG 2008). As one of the respondents in Harley's survey tells, "[rankings] have increased competition, jealousy. [...] the RAE has made me more anxious about my achievements, work record, and makes it difficult for me. [...] It ranks individuals and departments in a crude and materialistic way - and is psychologically destructive to many". Another respondent observed that "colleagues in other parts of this university who were graded have been very badly affected by the judgement, their self-esteem has been very badly dented" (HARLEY 2002:202). In this context, the only way to reconstruct

-

<sup>&</sup>lt;sup>20</sup> To take the Michel LaCour case, which is certainly the most prominent recent example in Political Science, Foster (2015) rightly observed that beyond the details of the individual case, this affair is symptomatic of, and indirectly caused by an academic world where the pressure to publish is extremely high and where it is common for authors to sign papers they have not really contributed to – two direct effects of academic metrics.

meaningful identities is once again endorse the logic of numbers, "playing the game becomes an arena for maintaining self-esteem and the construction and protection of our identities" (NKOMO 2008:109). The next paragraphs try to unveil the dynamics through which identify erosion/shift is produced by metrics, and to expose some of the consequences of this process – chiefly the worsening of work-related stress.

Our poll further clearly documents the impact of the expansion of the society of control to the academic world. Indeed UK-based political scientists strongly agree with the fact that "scoring high on ratings and rankings increases confidence, and conversely scoring low increases self-doubt and decreases self-esteem" (Graph29) — one respondent even comments that "this is rather obvious". Another UK scholar adds that "because academics' self-identities are often defined by their research, failing to place work in top-ranked journals lowers self-esteem" (our emphasis), exemplifying the ongoing shift in academic identities. Several respondents made clear that even though they don't like this evolution they can't avoid thinking about their identity in these terms. One UK-based academic for example regrets that "even though I know how poorly impact factors relate to my own understandings of quality, it's pretty ingrained", whilst another agrees: "It's ridiculous to think in this way, but yet we can't help doing it". This echoes Harris' (2005) observation that benchmarking management practices force academics to shift their identities towards that of an ideal "high impact professor", and stands in straight line with Deleuze's description of societies of control where individuals not only are pressurized to perform but also internalize high quantity-driven performance as a moral ideal.

These new identities of "performing" versus "under-performing" academics also shape judgments about colleagues, which are less and less based on criteria related to "old" academic values. As one UK-based respondent observes, "I've certainly seen this, other people making nasty comments about people just going after higher metrics". Graph30 documents this: asked whether they "tend to regard colleagues who score high in ratings and rankings more highly than colleagues who score low", respondents in Belgium disagree more than those based in the UK Politics Department. There is clear indication that those who agreed tend to feel sorry to think in these terms. In the UK, one political scientist confesses that "once again there is no reason to do this but the logic of metrics have permeated our judgments about others", and another points to the "corrosive envy among colleagues that can be produced by failure in metrics". Even in Belgium a respondent admits that "unfortunately, I increasingly do", whilst another regrets that "we are getting there, we are getting there". It therefore indeed appears that when it comes to defining academic identities and shaping judgments about others' qualities, "the lure of quantitative measures appears to be increasingly attractive" (WEINGART 2005:118).

This shift in the codes of academic identity, this environment where metrics define judgments about others, has a direct negative impact: it reinforces work stress which was already very high in higher education (e.g. KINMAN 2001; TYTHERLEIGH ET AL. 2005; BARKHUIZEN & ROTHMANN 2008). Since metrics precisely intent to introduce a comparative element, they intensify competitive pressure and exacerbate the risk of cementing hierarchies (MARGINSON & VAN DER WENDE 2007), encouraging "a soccer-league mentality of dubious relevance" (ANON. 2010a:8). <u>Graph25</u> illustrates a general agreement on the fact that metrics encourage "competition rather than collaboration". This has been

11

 $<sup>^{21}</sup>$  Cf. Adler and Harzing's claim that a cademic rankings have a "corrosive" effect (2008:84).

claimed to reinforce stress by "rewarding aggressive, acquisitive and exploitive behaviour" (LAWRENCE 2008: 3) favouring "those who are prepared to show off and to exploit others have acted against modest and gentle people of all kinds" (LAWRENCE 2007: 585). In general, respondents agree that metrics encourage "nasty behaviours rather than nice ones" (Graph26), especially in Belgium (in the UK department the responses were very polarized). All the main drivers of stress in British higher education identified by Kinman (2001:481) are exacerbated by metrics,<sup>22</sup> chiefly because they exacerbate the difficulty already experienced by academics to operate a work/home distinction (HARLOW & CANTOR 1994; KINMAN 1998).<sup>23</sup> Graph24 shows an overwhelming consensus in both countries on the idea that metrics are producers of stress, by further "blurring the work/home distinction" (Graph27). UK academics are tellingly much more ready than their Belgian colleagues to "spend several weekends at work instead of home" to improve metrics (Graph28). One Belgian scholar notes that "they [metrics] contribute to create sometimes exaggerated pressure on academics and increase stress at work", whilst a UK-based academic agrees by saying that "I'm not sure if they [metrics] are bad but they are certainly dangerous", and several openly blame the use of metrics by their management rather than metrics themselves.<sup>24</sup>

#### **CONCLUSIONS**

In their critique of academic rankings, Adler and Harzing (2008:84) boldly ask: "Given the blatant dysfunction of current ranking systems, why do they continue to exist?". The answer, we have shown, lies in the intrinsic connection between quantification and neoliberal societies: higher education is only one more field of the social – maybe one of the very last – where the liberal governmentality described by Foucault reorganizes power relations and ways of thinking according to the metrics-based logics of control theorised by Deleuze. To ask for a temporary moratorium like Adler and Harzing again (2008:72) might therefore be a naïve suggestion, simply because there seems to be no way to stop this powerful logic to expand in academia. As Deleuzian scholar Toscano claims, the capitalist axiomatic is "the most formidable apparatus of domination" (2005: 18). Among others, we have indeed documented how deeply ingrained and internalized the logic of rating and ranking has become even amongst "resisting" academics. We have also shown that this logic standardizes perceptions and practices, and re-shapes academic identities in a way that erodes scholars' sense of purpose and increases their stress.

We do not take at face value that there is no alternative to the marketization of academia – "there is no alternative" is after all a central and recurring neoliberal claim – yet we acknowledge the organizational and psychological barriers to resisting this project and suggest that the powerful effects of quantification can nonetheless be mitigated "from within", that is, by designing and implementing what Foucault called "counter-practices", i.e. practices that play the numbers game

<sup>&</sup>lt;sup>22</sup> These are: "difficulties in obtaining funding", "RAE demands driving research activity", "lack of time", "lack of institutional, human and technical support", "pressure to publish findings".

<sup>&</sup>lt;sup>23</sup> This further makes women more likely to be affected by metrics-related stress (see MENZIES & NEWSON 2008).

<sup>&</sup>lt;sup>24</sup> Amongst others: "the emphasis on them in my institution is distracting and stress-inducing"; "the unreflective use of metrics for management purpose (promotion & progression, etc.) here is completely unnecessarily stressful"; "[metrics trigger] especially nasty behaviors from university management towards academics, not necessarily between academics"; "metrics-related stress depends rather significantly on the institutional culture as well".

against its intended outcome so as to make it irrelevant.<sup>25</sup> A major example of such counter-practices has appeared in our survey: one UK respondent suggested that "it is possible to 'game' metrics through cooperation", pointing to the opposite of the "names gatecrashing" practice identified by Lawrence (LAWRENCE 2007:583). Including as many colleagues as possible as co-authors in papers or co-PIs in grants when they only played a minor role in the process is used by metrics-resisting scholars to help those included to boost their publication/grant records with minimal effort, hence bypassing potentially aggressive metrics-based management. Only this and other similar practices can be effective in resisting the re-shaping of academic identities in accordance with the logics of an ever-expanding society of control.

#### ACKNOWLEDGEMENTS

The authors would like to thank all the respondents to the online survey, Karen Mattick and others at the University of Exeter Graduate School of Education who have commented on the earlier version of the paper, Andrew Massey for his advice on publishing on institutional matters, and the three anonymous reviewers for their detailed and constructive remarks.

### ABOUT THE AUTHORS

Dr. Stephane J. BAELE is senior lecturer in international studies at the University of Exeter, UK, where he is deputy director of the Centre for Advanced International Studies. His research, which focuses on the linguistic aspects of political violence and terrorism, has appeared in *Journal of Conflict Resolution*, *Political Studies*, *Political Psychology*, *Etudes Internationales* and the *Journal of Philosophical Economics*, amongst others. He currently leads a CREST award on ISIS online propaganda. Contact: Amory Building, Rennes Drive, Exeter EX4 4RJ, S.baele@exeter.ac.uk.

Dr. Gregorio BETTIZA is lecturer in international relations at the University of Exeter, UK. His research focuses on the role of norms and identities in international relations, in particular religious and civilizational dynamics. He has published in journals like European Journal of International Relations, International Studies Review, and Review of International Studies. Contact: G.bettiza@exeter.ac.uk.

#### REFERENCES

Adler N., Harzing A-W. (2009) When Knowledge Wins: Transcending the Sense and Nonsense of Academic Rankings. Academy of Management Learning & Education 8(1): 72-95.

Allen M., Preiss R. (1997) Comparing the Persuasiveness of Narrative and Statistical Evidence Using Meta-analysis. Communication Research Reports 14(2): 125-131.

Anon. (2007) Academics Strike Back at Spurious Rankings. Nature 447(31): 514-515.

Anon. (2010a) The Ratings Game. Nature 464(7285): 7-8.

Anon. (2010b) Do Metrics Matter? Nature 465(17): 860-862.

Anon. (2010c) A Profusion of Measures. Nature 465(17): 864-866.

Baele S. (2014) Critique of Immigration Categories. PhD Thesis, University of Namur – Academie Louvain.

Barkhuizen N., Rothmann S. (2008) Occupational Stress of Academic Staff in South African Higher Education Institutions. South African Journal of Psychology 38(2): 321-336.

<sup>&</sup>lt;sup>25</sup> The original French concept of "contre-conduite" is sometimes translated as "counter-conduct" in order to emphasise the fact that it seeks to disturb the conduct of subjects' thinking and behaviour.

Beck J., Young M. (2005) The Assault on the Professions and the Restructuring of Academic and Professional Identities: A Bernsteinian Analysis. *British Journal of Sociology of Education* 26(2): 183-197.

Beerkens-Soo M., Vossensteyn H. (2009) Higher Education Issues and Trends from an International Perspective. In CHEPS (ed.) Report Prepared for the Veerman Committee.

Berns T. (2009) Gouverner sans Gouverner. Une Archéologie Politique de la Statistique. Paris: PUF.

Blastland M., Dilnot A. (2009) The Numbers Game: The Commonsense Guide to Understanding Numbers in the News, in Politics, and in Life. London: Penguin.

Boswell C. (2009) The Political Uses of Expert Knowledge. Cambridge: Cambridge University Press.

Bréant H. (2012) Démontrer le Rôle Positif des Migrations Internationales par les Chiffres. Une Analyse de la Rhétorique Institutionnelle du Système des Nations Unies. *Mots* 100: 153-171.

Broome A., Quirck J. (2015) Governing the World at a Distance: The Practice of Global Benchmarking. Review of International Studies 41(5): 819-841.

Brown R. (2010) The March of the Market. In Molesworth M., Scullion R., Nixon E. (eds.) The Marketisation of Higher Education and the Student as Consumer. London: Routledge, pp.11-24.

Burchell G. (1996) Liberal Government and Techniques of the Self. In Barry A., Osborne T., Rose N. (eds.) Foucault and Political Reason: Liberalism, Neo-Liberalism and Rationalities of Government. Chicago: University of Chicago Press.

Chan K., Fung H., Lai P. (2006) International Business Research: Trends and School Rankings. *International Business Review* 15(4): 317-338.

Cichetti D. (1991) The Reliability of Peer Review for Manuscript and Grant Submissions: A Cross-Disciplinary Investigation. Behavioral & Brain Science 14: 119-135.

Clegg S. (2008) Academic Identities Under Threat. British Educational Research Journal 34(3): 329-345.

Cole S., Cole J., Simon G (1981) Chance and Consensus in Peer Review. Science 214: 881-886.

Dean M. (1999) Governmentality. London: Sage.

Deleuze G, (1986/2004) Foucault. Paris: Editions de Minuit.

Deleuze G. (2003) Pourparlers 1972-1990. Paris: Editions de Minuit.

Deleuze G., Guattari F. (1980) Capitalisme et Schizophrenie II. Mille Plateaux. Paris: Editions de Minuit.

Desrosières A. (1998) The Politics of Large Numbers. A History of Statistical Reasoning. Cambridge MA: Harvard University Press

de Rond M., Miller A. (2005) Publish or Perish. Bane or Boon of Academic Life? *Journal of Management Inquiry* 14(4): 321-329.

Foskett N. (2010) Markets, Government, Funding and the Marketisation of UK Higher Education. In Molesworth M., Scullion R., Nixon E. (eds.) The Marketisation of Higher Education and the Student as Consumer. London: Routledge, pp.25-38

Foster D. (2015) Will Academia Waste the Michael LaCour Scandal? NYMag, June 5, 2015. http://nymag.com/scienceofus/2015/06/will-academia-waste-the-michael-lacour-scandal.html.

Foucault M. (2001a) Omnes et Singulatim: Vers une Critique de la Raison Politique. In Foucault M. (ed.) Dits et Ecrits 2 – 1976-1988. Paris: Gallimard – Quarto: 953-980.

Foucault M. (2001b) Les Rapports de Pouvoir Passent à l'Intérieur des Corps ». In Foucault M. (ed.) Dits et Ecrits 2 – 1976-1988. Paris: Gallimard – Quarto: 228-236.

Foucault M. (2004) Sécurité, Territoire, Population. Cours au Collège de France 1977-1978. Paris: Gallimard - Seuil.

Hacking I. (1982) Biopower and the Avalanche of Printed Numbers. Humanities in Society 5: 279-295.

Harley S. (2002) The Impact of Research Selectivity on Academic Work and Identity in UK Universities. Studies in Higher Education 27(2): 187-205.

Harlow R., Cantor N. (1994) Social Pursuit of Academics: Side Effects and Spillover of Strategic Reassurance Seeking. *Journal of Personality & Social Psychology* 66(2): 187-386-397.

Harris S. (2005) Rethinking Academic Identities in Neoliberal Times. Teaching in Higher Education 10(4): 421-433.

Hazelkorn E. (2009) Impact of Global Rankings on Higher Education Research and the Production of Knowledge. UNSECO Forum on Higher Education, Research and Knowledge Occasional Paper 18.

Inkpen A., Beamish P. (1994) An Analysis of Twenty-Five Years of Research in the Journal of International Business Studies. Journal of International Business Studies 25(4): 703-713.

Kinman G. (1998). Pressure Points: A Survey into the Causes and Consequences of Occupational Stress in UK Academic and Related Staff. London: NATFHE.

Kinman G. (2001) Pressure Points: A Review of Research on Stressors and Strains in UK Academics. Educational Psychology 21(4): 473-492.

Laborier P., Lascoumes P. (2005) L'action Publique Comprise Comme Gouvernementalisation de l'Etat. In Meyet S., et al. (eds.) Travailler avec Foucault. Retours sur le Politique. Paris: L'Harmattan: 37-73.

Lawrence P. (2007) The Mismeasurement of Science. Current Biology 17(15): 583-585.

Lawrence P. (2008) Lost in Publication: How Measurement Harms Science. Ethics in Science and Environmental Politics 8: 1-4.

Lazzarato M. (2006) The Concepts of Life and the Living in the Societies of Control. In Fuglsang M., Sorensen B. (eds.) Deleuze and the Social Edinburgh: Edinburgh University Press, pp.171-190.

Marginson S., van der Wende M. (2007) To Rank or to be Ranked: The Impact of Global Rankings in Higher Education. Journal of Studies in International Education 11(3/4): 306-329.

- Menzies H., Newson J. (2008) Time, Stress and Intellectual engagement in Academic Work: Exploring Gender Difference. Gender, Work & Organization 15(5): 504-522.
- Molesworth M., Scullion R., Nixon E., eds. (2010): The Marketisation of Higher Education and the Student as Consumer. London: Routledge.
- Molle F., Mollinga P. (2003) Water Poverty Indicators: Conceptual Problems and Policy Issues. Water Policy 5: 529-544.
- Nkomo S. (2009) The Seductive Power of Academic Journal Rankings: Challenges of Seearching for the Otherwise. Academy of Management Learning & Education 8(1): 106-112.
- Roffe A. (2005) Capitalism. In Parr A. (ed.) The Deleuze Dictionary. Edinburgh: Edinburgh University Press.
- Rose N. (1991) Governing by Numbers: Figuring out Democracy. Accounting, Organisation & Society 16: 673-692.
- Shore C., Wright S. (2000) Coercive Accountability. The Rise of the Audit Culture in Higher Education. In Strathern M. (ed.) Audit Cultures: Anthropological Studies in Accountability, Ethics and the Academy. London: Routledge.
- Slaughter S., Rhoades G. (2004) Academic Capitalism and the New Economy: Markets, State, and Higher Education. Baltimore: Johns Hopkins University Press.
- Teixeira P., Dill D., eds. (2011) Public Vices, Private Virtues?: Assessing the Effects of Marketization in Higher Education. Boston: Sense.
- Timmermans S., Epstein S. (2010) A World of Standards but not a Standard World: Toward a Sociology of Standards and Standardization. *Annual Review of Sociology* 36: 69-89.
- Toscano (2005) "Axiomatic". In Parr A. (ed.) The Deleuze Dictionary. Edinburgh: Edinburgh University Press.
- Tytherleigh M., et al. (2005) Occupational Stress in UK Higher Education Institutions: A Comparative Study of All Staff Categories. *Higher Education Research & Development* 24(1): 41-61,
- Weingart P. (2005) Impact of Bibliometrics Upon the Science System: Inadvertent Consequences? Scientometrics 62(1): 117-131.
- Young S., Peetz D., Marais M. (2011) The Impact of Journal Ranking Fetishism on Australian Policy-related Research. Australian Universities Review 53(2): 77-87.

# **FIGURES**

For each graph, the chart on the left represents answers from political scientists based in French-speaking Belgium and the chart on the right represents answers from those based in the UK department.





















































