10 The Rankings and Evaluations Mania

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Beat Blankart is a quite extraordinary scholar. He has always pursued the kind of research he himself found important and has been perturbed remarkably little by current fads in his chosen field. He is a critical economist in the best sense, sometimes even a little whimsical – in any case he is far from being a run-of-the-mill economist. I therefore hope that he will agree with at least some of the ideas developed in this paper.

10.1 The Market and the Public Spheres

In recent years it has become a matter of course to introduce performance measurement in the public sector as a substitute for the market mechanism. Indeed, most people consider it absolutely inevitable and a logical consequence of pursuing a higher level of rationality in the public sector.

Yet this conclusion is bizarre in view of the fact that exactly those activities tend to be allocated to the public where output, or performance, is difficult to measure. The market does not work ("market failure"), or at least does not work particularly well, in the public sphere when elements of public goods, external effects and badly measurable output are dominant. It therefore is an odd idea to introduce output controls to the public sector. This seems to be warranted only when the government (wrongly) is en-

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gaged in activities that could be performed by the market equally well, or
even better. But in the genuinely public areas output control by its very na-
ture does not work in a satisfactory way. For an alternative one has to turn
to away from focusing solely on output and has to consider process and in-
put controls.

Despite those fundamental theoretical problems universities and other aca-
demic institutions in German-speaking countries and beyond have intro-
duced, or were forced to introduce, rankings and, even more broadly, eval-
uations of their activities. Rankings are part of evaluations, but cover
many additional aspects. The negative consequences discussed here mainly
refer to evaluations but some also to rankings. Currently, they are consid-
ered the ne plus ultra of any “rational” way of running such institutions,
without considering any alternative whatsoever.

The flood of rankings is well visible for economics undertaken in Ger-
many, Austria and Switzerland. One of the first ones was Bommer and Ur-
sprung (1998), Eichenberger and Frey (2000), the rankings by the Central
for Hochschulentwicklung CHE (Berghoff et al. 2002), and more recently
the Handelsblatt ranking (September 18, 2006). Many of these rankings
received considerable media attention and shape the perception of the gen-
eral public and of political decision makers. And then there are the interna-
tional rankings in which economists of German-speaking countries are
listed such as the many different rankings published in the “Symposium on
Evaluating Economics Research in Europe” published in the Journal of the
European Economic Association in December 2003 and in the RePEc
(www.repec.org) which every month presents rankings of 10,592 regis-
tered authors according to a large number of different criteria. The Deutscher
Wissenschaftsrat took the next step and intends to establish a
“super”-ranking for each discipline, sanctioned by its high prestige and of-
official position. Presently, rankings are developed for sociology and chem-
istry, but it seems quite certain that such an effort will be expanded to all
major subjects.

It cannot be denied that such rankings have some positive aspects. They
are reasonably valid in the sense that the same scholars and institutions
regularly are at the top of the list. But if this is really the case, what is the
use of constantly repeating the exercise? The results provide little, if any,
new information.

Another positive aspect may be that the results can act like a shock and
may induce scholars and institutions to increase their efforts to undertake
good research. But it is, of course, well known that such a shock evap-
orates rather quickly. The people concerned quickly get used to being posi-
tioned in rankings. Even more importantly, they quickly learn to react to
them. In particular, they find ways and means to discount a bad ranking by
attributing it to causes beyond their control. Once that has been achieved,
rankings do not have much effect, if any, on performance rather life goes
on as usual. Also, one has to consider whether the same positive effects on
performance could not be reached by different, and more sustainable,
measures. I will argue at the end of the paper that competition among sci-
cientific institutions and a careful selection of scholars are much more effec-
tive in improving performance.

There is also a surge of evaluations that flood academic institutions.
Evaluations are understood here to be assessments for governments of past
performance by outside experts. They are broader than rankings (but rank-
ings are an essential part of evaluations) and more directly addressed to
policy issues, most importantly the allocation of public resources. Today,
evaluations are ubiquitous and are undertaken in ever shorter time inter-
vals. Lately, continuous evaluations have become the craze. As a result we
shall soon arrive at the point where every scholar, and every academic in-
stitution is evaluated all the time. Accordingly, a significant amount of ma-
terial resources, manpower, attention and effort are invested by both the
evaluators and the evaluatees. The latter have less and less time to do re-
search, but rather have to spend more and more time to prepare for the
time-consuming evaluations.

As in the case of ratings, evaluations may have a temporary beneficial
shock effect. However, as evaluations increasingly become a normal part
of a scholar’s life, the shock tends to be overcome quickly. Also, it might
lead to a “Hawthorne Effect” as individual scholars and academic institu-
tions feel themselves attended to which may give them a sense of purpose
and importance.

One of the main goals of evaluations in academia is a more efficient allo-
cation of public funds: those institutions that are doing well are to receive
more financial support, while those not doing well are to be given less
funds or repudiated altogether. This may sound reasonable but is neverthe-
less a mistake. What has to be evaluated, of course, are the marginal ef-
fects of additional or reduced funds. It is well possible that a high ranked
institution will not further improve its performance when receiving more
resources. In some cases, for instance when the optimal size has been
transgressed, performance may even weaken. Conversely, an institution
ranked poorly may profit much from additional resources. People engaged
in the by now sizeable “evaluation industry” will, of course, argue that
they consider the expected changes in performance induced by a change in
funds. But where are the cases in which funds were taken from well-rated academic institutions and given to badly-ranked institutions based on the expected marginal effects (rather than on purely political reasons)?

I wish to argue that the noxious effects of rankings and evaluations are sizeable and that they tend to be overlooked and therefore these activities are undertaken too often and in too large an extent. I focus on aspects directly relevant for economics. I don’t want to discuss here the well-known shortcomings of publication and citation rankings such as whether all authors (or only the first author) are included; what kind of publications are considered (only narrowly defined economics journals or also publications in adjacent disciplines, publications in books etc); what language is counted (today normally only English, thus totally disregarding all the other languages in the world, including those spoken by far more people); how a particular academic institution is defined; and what period is counted (life-time achievement or only the last few years or even months). Rather, I want to discuss some of the most important behavioural reactions to evaluations.

There is a wide spectrum of reactions induced by evaluations. It is often overlooked that these reactions do not pertain to evaluations as such but only occur if evaluations have important repercussions for the persons and institutions evaluated in terms of financial support and prospects for the future. As long as rankings and evaluations did not have many, or any, consequences academics considered them, at best, with some amusement, or often with outright scorn. With the rising importance of rankings and evaluations this has changed dramatically. It has become impossible not to participate in these exercises. If a scholar or institution did refuse, it would be charged of being afraid and in any case would quickly lose its academic status as it no longer appeared in the rankings.

It is useful to distinguish between the reactions of particular scholars and those of academic institutions but it can generally be said that many of the

96 More general analyses are undertaken in Frey and Osterloh (2006) and in Frey (2007a, b).

97 This aspect should not be neglected, at least if one considers revealed behaviour. In the case of the Handelsblatt, the University of Munich ranked better than the University of Bonn. Hurt in their pride the Bonn economists decided that a Max Planck Institute was part of the University of Bonn so putting them ahead of the Munich economists. These then rightly argued that they could include the Ifo-Institute... One can well imagine further steps in this upward spiral. This is just one example of what behaviour is induced by evaluation exercises.

reactions generally neglected are unproductive from the point of view of scientific research.

10.2 Economists Evaluated

The reactions to a ranking or to an evaluation are strongly asymmetric. The consequences of these exercises for academia are therefore necessarily distorted. Persons faring well will have less incentive to react; they may simply enjoy their success. The situation is totally different for academics coming out unfavourably. They can resort to the following behaviours:

a) The results can be put into doubt and therewith the results defined away. There are virtually hundreds of arguments that prove how a particular ranking or evaluation is imperfect. Everyone who has only the slightest understanding of the ranking and evaluation techniques knows that they are subject to a large number of dubious assumptions and calculations. While the academics who have been badly ranked and evaluated may perhaps not be the greatest scholars, they certainly do have the capacity to pick on these shortcomings in ranking system. It may even be argued that they develop a special knowledge in that defensive activity as they can afford to do little else. But this is exactly what scientific research should not be about.

b) The rankings and evaluations may be manipulated. There are well known techniques on how to jack up the number of publications and citations. It is, for instance, not an accident that the number of persons given as the “authors” of a particular paper has strongly increased over the last few years. Decades ago, one author for a paper was the rule. Today two, or rather three authors have become normal, and the first papers with four and more authors have appeared. Of course, such a development can always be justified by reasons of content, but it is nevertheless remarkable that it is consonant with the effort to do well in rankings and evaluations. Another reaction is to publish the same content with minor variations in several journals, and to break down the content to the smallest publishable unit.

98 I am of course well aware that most current rankings take into account the number of authors. Notwithstanding, it is still better to be one of the co-authors than not to be an author at all.
Again, from the social point of view such efforts are unproductive and have nothing to do with producing good research.

c) Political rent seeking activities are undertaken in order to mitigate or to reverse the foreseeable damaging consequences of rankings and evaluations. Again, these activities do not contribute to advancing scientific knowledge but are "directly unproductive, profit-seeking (DUP) activities" (Bhagwati 1982).

d) Time and effort are redirected to other activities within academia such as administrative and bureaucratic tasks. If this led to more productive academics having more time available for teaching and research, it would be potentially beneficial. Alas, it is only too well known that all too often the result is an increase in bureaucracy affecting all members of an academic department in which case this reaction leads to an unproductive outcome.

e) The badly-ranked department members react by actively seeking to block the activities of its well-ranked members. This envy driven unproductive response is not unheard of in academic departments of German-speaking academic institutions.

f) The department members who perceive themselves to be unfairly ranked and evaluated respond by lapsing into mental resignation – while still occupying their positions and receiving their wages.

Several of these unproductive reactions to rankings and evaluations are not relevant if scholars who have been badly-ranked and evaluated can be forced to leave their positions. However, in most academic institutions there are many formal restrictions to dismissals, at least for scholars who have received tenure. Perhaps even more important is the fact of asymmetric incentives.

Those who feel badly treated by the rankings and evaluations are greatly motivated and have the necessary time to oppose any effort to dismiss them. In many cases, the decision-makers foresee this resistance and make no effort to get rid of the unproductive members of a department. Alternatively, they are offered much money to make them leave voluntarily. While the latter seems to be an elegant solution it, of course, reduces the funds available for good research and teaching.

Those put at the top of the list in rankings and evaluations may also react in a way that is unfavourable for their own academic institution. Referring to their now "officially" sanctioned great performance they are motivated to ask for higher compensation. This makes the income distribution within the department and university more unequal. There is (preliminary) empirical evidence that at least under some conditions a more unequal distribution reduces performance (Torgler et al. 2006). A move of the top people to other institutions inside or outside academia is beneficial for scientific research if these institutions act under competitive conditions. However, these conditions are far from being met in the German-speaking university system.

Evaluations have yet another disadvantage equally affecting everybody subjected to them. As far as they are perceived to be "controlling" by the evaluators they tend to crowd out the internal motivation. But it is exactly this type of motivation, rather than the extrinsic one, which is fundamental to creative research (Amabile 1996; 1998). Indeed, it is well known that the great scholars were invariably motivated by an interest in science itself, and that the monetary gains going with it are secondary. As a result, the bureaucratic nature of evaluations tends to crowd out the work effort of the best scholars. Even if ranking and evaluation exercises were able to raise the average performance of economic institutions (for which there is no evidence), they hamper top performers. It may well be that this result is desired but it has little to do with the university as a place where the very best scholarly research is undertaken, and it brings up the question where this activity will be undertaken in the future.

10.3 Academic Institutions Evaluated

Universities and other scholarly institutions build of course on the performance of their members and, therefore, are directly affected by the damaging effects of evaluations on academics. However, there are some additional effects to be noted. Most importantly, rankings and evaluations are increasingly applied to academic institutions as a whole. This disregards the fact that within these units there typically are huge differences in quality. Such an approach sends the wrong outside signals because it disregards these quality differences. For example, if a university as a whole is evaluated to be at the top, every faculty can claim to be part of this top ranking even if its actual performance is lacking. In contrast, if a university is evaluated to be average or less, an individual academic unit finds it very...
difficult to convince outsiders (e.g. in order to attract funds for research) that it does not actually share in this negative evaluation.

Some of the unproductive reactions to evaluations of individual scholars discussed above are strengthened at the institutional level. This applies in particular to the efforts to nullify or turn around an unfavourable evaluation. To the extent that a university’s future depends on such an evaluation, there are very strong incentives to resort to unproductive political rent seeking. Universities know that politicians depend on their local constituency and will make great efforts to support them. There are many different arguments available to buttress their case. A convincing argument is always the general desire for a “just” distribution of government funds over space. Another one is the cartel formed by the universities and the local business communities that carries considerable weight especially if an “impact study” puts the prospective loss to the region in monetary terms.

10.4 What to Do?

The argument so far has been that the substantial and sizeable costs of rankings and evaluations have systematically been ignored. These are not, as often thought, the direct costs on the part of evaluators and evaluatees. While they are sizeable, they are partly reflected in direct monetary costs (notably on the part of the evaluators) as well as in the time and effort expended (which are often discussed among academics). The costs induced by the reactions of the evaluatees, however, are presumably much larger but nevertheless tend to be overlooked. The result is an overuse of rankings and evaluations that gravely damages the academic system. Many observers may well agree but argue that there is no alternative: how should government funds be allocated “rationally” if it is not known who is academically productive and who is not?

Unfortunately, the widespread and increasing use of academic evaluations is rarely seen in a broader perspective. Valid alternatives are therefore overlooked. But there are two institutional solutions that do not require ex post evaluations by external experts for the government.

The first solution establishes competitive use of rankings of different academic units. In such a setting the various departments have an incentive to attract those scholars who will make the greatest addition in the future performance of a university. Rankings still exist but are produced for the benefit of the various decision-makers in competition with each other rather than for the information of the government. Care will be taken to produce rankings for the various areas of universities. For instance, there will be rankings for individuals deciding to take up their first year study, other rankings for graduate and post-graduate students, still other rankings for research in the different disciplines, fields and sub-fields, and in line with the globalization of science there will be international rankings. No effort will be made to establish one “overall and official” ranking of a discipline (such as endeavoured by the Deutsche Wissenschaftsrat). Moreover, the assessment of individual scholars will be directed to his or her expected future contribution rather than backwards as rankings and evaluations are in a government run university setting. As the present university systems in German-speaking countries are far from this desired setting, it is not further discussed here.

The second solution is possible within today’s German-speaking university system. It relies on the idea of an appropriate input control. It is difficult or even impossible to effectively use process and output controls (for these terms see Frey and Osterloh 2006). The main emphasis is on a good selection of scholars who are then essentially left to act at their own discretion. The result to be expected is a wide variation in performance. Some scholars will excel under these conditions because they are left unbothered by bureaucracy. They can devote their effort and time to research instead of having to continually prepare for evaluations and react to them. At the same time some of the scholars will not perform well. They will exploit the discretion given to them, become lazy or engage in endeavours unrelated to their university position. The proportion of the well-performing type of scholars can be raised by a careful selection procedure including an intensive period of social integration into academia. This procedure allows universities to choose capable scholars with high intrinsic motivation for research and teaching.

This second solution is often considered to be naïve and outlandish. In any case it is contrary to the current notion of what makes people work efficiently. However, the continuous control of the performance exerted today in many corporations is not necessarily the best approach to reach excellence in the more creative areas such as science where people with particularly high intrinsic work motivation are needed. For that reason, the imminent introduction of performance pay in the academic system is doomed to failure – at least if original work is to be produced.

Today’s general rejection in German-speaking countries of the second solution which is based on careful selection and social integration is surprising for two reasons. Firstly, the general tendency is to imitate the Ameri-
cans always and in all respects. But in this instance, one tries to raise the performance of academic institutions by extensively using rankings and evaluations from above. One fails to see that due to the competitive situation in which American universities find themselves, and the close association of the quality of scholars and of universities (Franck, Opitz 2006), they accord great importance to an extended selection process. The main goal is to find the persons best suited for a university position and to consider how he or she is likely to perform in the future - and then to trust that he or she will indeed perform well. It is understood that after careful selection and training one has to abstain from external evaluations regarding output and to some extent also regarding process control. Such a control approach to scientific research was emphasized by the famous President of Harvard University James Bryan Conant (Renn 2002):

"There is only one proved method of assisting the advancement of pure science - that is picking men of genius, backing them heavily, and leaving them to direct themselves."


This view is still part of the Principles Governing Research at Harvard, stating:100

"The primary means for controlling the quality of scholarly activities of this Faculty is through the rigorous academic standards applied in selection of its members."

The rejection of the approach based on a careful selection first and then allowing for the greatest possible freedom afterwards is also surprising in as much as it was prevalent in the German-speaking university system exactly while it was the dominant approach in the world. It can, of course, be argued that conditions have much changed since then and what was successful then need not be now. This is certainly true but I have tried to argue that the basic requirement for creative scholarship has remained the same, namely a good measure of discretion to exert one's intrinsic motivation for academic work.

100 See http://www.fas.harvard.edu/research/greybook/principles.html.

10.5 Is a Change in Policy to Be Expected?

The general view that ideas which are working well in the market and private business, should also be adopted by the public sphere is still dominant; I therefore do not expect that the arguments proposed here have any effect in the immediate future. Only slowly can the idea be entertained that the reverse transfer could also be of interest: private business can, in some respects, learn from government (Frey, Ben 2005). The one thing that can be done is to point out the many obvious shortcomings of an academic system relying on rankings and evaluations and related mechanisms such as performance pay in universities. The most grotesque cases of rankings and evaluations and their consequences can be publicized. This may slowly undermine the erroneous notion that what is (perhaps) good for business must be good for the public sphere, in particular universities.

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