

# The Kantian University: Worldwide triumph and growing insecurity<sup>1</sup>

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## Introduction

How might we think about that institution called ‘the University’? At home and across the world? For something like the institution we know is now found in every part of the world.

We might start with the National University of Ireland. In 1845 the Queen’s College Act established constituent colleges in Cork, Galway and Belfast. In 1851 John Henry Newman was made the first rector of the Catholic University. It was independent of the coloniser-state. At first the new University was blocked from granting degrees but in 1882 it became University College Dublin (UCD); and in 1908 UCD, Cork and Galway were federated in the National University of Ireland. Then these universities, like their counterparts elsewhere, began their long ascent to the peak of society. UCD alone now has 33,724 students. It is a global university. And it grants degrees. In the most recent year there were 8857 awards.

Yet in a fashion the small beleaguered founding Catholic University still resonates, it is still with us. Its influence too is global. In 1852 Newman delivered the first lectures that became *The Idea of a University*<sup>2</sup>. Newman’s model of institution was born in Dublin. There could not be a better place for tonight’s lecture.

This paper discusses the University as an institution in three parts. It moves from the abstract to the concrete. I begin with the University as a social form or type. What it is. Its inner motors. What holds it together. And its outer drivers. What holds it in society. This first part of the paper is much the longest. The second part remarks on tendencies in the university in which we live, the contemporary university. The third and final part discusses limits and problems of the University. It is called ‘The insecurities of the University’.

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<sup>1</sup> This paper was first delivered as an evening lecture to the National University of Ireland in Dublin, on 7 November 2018. Thank you to Patricia Maguire from NUI and to the participant audience for stimulating discussion.

<sup>2</sup> Newman 1982

## 1. The University as a social form

There is much written about the University as a social form. Yet I think there are only three great 'Ideas' of the University. One is Newman's idea. The second, which preceded Newman in time but is more modern, is the German idea of Kant and von Humboldt. The third is the American research university idea, the successor to the German idea. The American idea, carried by institutions of great distinction and massive science and normalised by global connections, globally visible exemplars and global rankings, is the dominant model today.

### Three Ideas of the University

Newman's Idea and the American Idea have each been summarised in a brilliant book. The German idea must be gleaned from a larger body of works and practices. But I think the German idea it is the most original and influential. It is the pivotal moment.

**John Henry Newman.** Newman is obsolete. Yet Newman is ever-present. His invocations against vocational utility, and against research in the University, are no longer persuasive. But Newman did not set himself against knowledge as such. Newman's pellucid vision of teaching and learning, expressed in prose never equalled, was of personal development immersed in diverse knowledge. He told us that knowledge and truth are not just means but ends. "A University", says Newman, "taken in its bare idea ... has this object and this mission; it contemplates neither moral impression nor mechanical production; it professes to exercise the mind neither in art nor in duty; its function is intellectual culture, here it may leave its scholars, and it has done its work when it has done as much as this. it educates the intellect to reason well in all matters, to reach out towards truth, and to grasp it."<sup>3</sup>

Learning is also good for students. "The knowledge which is thus acquired", says Newman, "expands and enlarges the mind, excites its faculties, and calls those limbs and muscles into freer exercise."<sup>4</sup> And it is good for everyone. "If then a practical end must be assigned to a University course, I say that it is of training good members of society. Its art is the art of social life, and its end is fitness for the world."<sup>5</sup> Newman's Idea is no longer enough. Yet the positive vision is right in itself. Newman's Idea is still at the heart of the University today.

**Immanuel Kant and Wilhelm von Humboldt.** Meanwhile, something similar and also different had emerged in Germany. There, student development through immersion in knowledge was joined to a larger social picture. Knowledge itself was also seen as developing, and this became another function of the University. Further, by cultivating reason in students, education did not just fit them for society, it transformed and improved

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<sup>3</sup> Newman 1982, pp. 94-95.

<sup>4</sup> Newman 1982, p. 128.

<sup>5</sup> Newman 1982, p. 134.

society.<sup>6</sup> This is Kantian enlightenment, in which the education of students in continuous self-formation, *Bildung*, is one of the drivers of modernity.<sup>7</sup> *Bildung* implies an education dedicated to the unbounded evolution of individual and collective human potential. Self-formation through education opens new horizons as it proceeds. The educability of the self-forming learner is continually expanding.<sup>8</sup> Kant published his epochal essay *What is Enlightenment?* in 1784. Kant called on the public to enlighten itself, to use critical reason to interrogate the times in which it lived.<sup>9</sup> Critical reason, he said, will not emerge naturally. It must be installed through education.<sup>10</sup>

Much was happening in 1784. In Vienna Mozart wrote his 17<sup>th</sup> piano concerto, K453 in G Major, his first great keyboard concerto. In London the young JMW Turner was beginning to draw. Five years later the French revolution began; in which the public, following Kant's advice, interrogated its times. After the revolution European states, which had been rocked to their base, could never return to the old regime. Their new ambition was to be modern and stable at the same time – to find ways to both augment the newly freed individual agency that has been revealed by the revolution, and to harness that agency to the state. Wilhelm von Humboldt took the Kantian idea of *Bildung*, socially nested self-formation, into a new kind of University. We can call this the Kantian University. It became the modern European University, and then the world University of science and critical scholarship.

Von Humboldt's University of Berlin, founded in 1809, had a formative curriculum that was broad and deep, grounded in history, classical languages and literature, linguistics, science and research.<sup>11</sup> He wanted a university that would serve the state, but in the form of an autonomous institution with freedom to learn and to teach, *Lernfreiheit* and *Lehrfreiheit*. These ideas, with their inner tensions, became central to the German university and the American research university that followed. Across the world, faculty still defend their self-determination by invoking the global culture of the Humboldtian university,<sup>12</sup> though this is now more focused on the freedom of the academic than that of the student.

**Clark Kerr.** The American adaptation of the German university began with Johns Hopkins in 1876 and had spread to Harvard and the other Ivy League institutions by the early twentieth century. In another form it radiated via the land grant movement, with its unNewmanlike service to agriculture, industry and government. In retrospect we see here the beginning of the triple helix (Etzkowitz and Leydesdorff 1995), the third mission and the engaged university. After World War II and the Manhattan project, research flourished in the leading

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<sup>6</sup> Biesta 2002, p. 345.

<sup>7</sup> Kivela 2012.

<sup>8</sup> Sijander 2012, p. 94.

<sup>9</sup> Kant 2009.

<sup>10</sup> Kivela 2012, pp. 59-60.

<sup>11</sup> Kirby and van der Wende 2016, pp. 2-3.

<sup>12</sup> Sijander and Sutenin, 2012, p. 15.

universities, while the United States became the first mass higher education system. Almost ninety years after Johns Hopkins, in 1963, University of California President Clark Kerr wrote the definitive account of the American research university, *The Uses of the University*.<sup>13</sup>

This is a beautiful book. Kerr's vision lacks the Internet and globalisation but otherwise remains definitive. It is more prosaic than Newman but Kerr has great clarity of mind and he takes in the whole University and polity, and part of society and economy as well. His main point was that the small elite university of Newman's time had grown into the large ever-growing 'multiversity'. The multiversity is multiple and diverse in missions, functions, sites, disciplines, students, inner interest groups and external stakeholders. This loosely coupled combinatory model is in fact highly functional. Variable cross-subsidisation from teaching protects the non-economic character of research. Revenue shortfalls can be quarantined because of the part-decoupled character of functions. Kerr said that the multiversity had no single animating principle. He was not sure what held it together. He thought that it was probably not the university president, though it was apparent that administration was becoming more important. Rather, it might be its reputation, which he called its 'name',<sup>14</sup> and a shared interest in itself. And its growing social uses, especially of its research.

Let's now fast forward to today. Can we improve on Clark Kerr's account? What are the main components of today's University and how do they hang together?

### **The institution today: the Inner University**

Let me attempt a simplified description of the University today, a model of the type of 1852 Newman, 1809 German or 1963 American type. The University of today combines three distinctive and essential elements. These elements are the corporate university, the self-forming student, and the knowledge-bearing, knowledge-creating faculty. Each element has agency in itself, each develops under its own power, in fact each has tremendous momentum on a social scale. They are also enmeshed with each other. Together they comprise what we can call the Inner University.

**The corporate institution.** First, the corporate institution qua institution, which is nested in local communities, national systems and global networks. The University as an institution, a distinct organisational type with autonomous volition.

The institution has the autonomy that von Humboldt was able to deploy because of its peculiar legal structure. This is the outcome of a fortunate historical accident. The foundational medieval European universities were incorporated institutions. Though they were outgrowths of the church, for the most part they were also established under the

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<sup>13</sup> Kerr 2001.

<sup>14</sup> Kerr 2001, p. 15.

auspices of the state as semi-independent entities. Subject to the influence of both church and state, they were wholly controlled by neither (most of the time), and in the small space between church and state they could pursue their own agendas. From this foundation they evolved as distinctive institutions with their own rituals, symbols, awards, and later their own knowledge-intensive missions. The partial autonomy of European universities made them different to the other pre-modern forms of higher education across the world. Their laws of motion were distinct from those of the scholarly Buddhist monasteries in India, and academies in Cairo and other Islamic cities, where religion dominated; and distinct from the academies in China, that trained scholar-officials for the state. Notably, none of these other kinds of institution evolved into a worldwide form with its own identity and habits.

Today, at first glance, the semi-independent corporate University slots into the familiar idea of the self-seeking business firm. The University is often seen as another business. Yes and no. There's more to it than that, and also less. The University is not primarily driven by profit or revenues, though many universities are busily ambitious for market share. Revenues are a means to the real end, which is social prestige, social status, and an expanding social role in the lives of families, communities and economies at home and abroad. Modern universities are driven to continually expand in size and function, to aggregate people, resources and status, as Clark Kerr noted. Each extension of mission and function brings with it growth in the professional staff for whom, unlike the faculty, the corporate institution looms larger than do the individual disciplines located within it.

**The self-forming student.** The second element that composes the modern University is the self-forming student<sup>15</sup>, who is nested in the aspirational family<sup>16</sup>. If some students might appear reluctant to form themselves through learning, the point is that all of the students are there, inside the University, and (in this country at least) most of them will graduate.

Why? There are many different modes of self-formation, and there is also a dominant mode. Some students want to acquire cultural capital, and some want social networks. Some students want to immerse themselves in cultural performances or student politics. Some want to form a family by marrying another student. Most students want to form themselves in more than one way at the same time. Many students want to immerse themselves in knowledge because for them knowledge is fulfilling in itself, as Newman said. In a sweeping study of ten thousand years of Eurasian history the archaeologist Barry Cunliffe concluded that one of the two motives that distinguishes the human species is curiosity, the desire for information and understanding, the desire to know. Cunliffe's other distinguishing motivation is acquisitiveness.<sup>17</sup> This is the desire for objects, and for social status (sometimes derived from objects, sometimes more abstract). Newman did not

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<sup>15</sup> Marginson 2018a.

<sup>16</sup> Cantwell, Marginson and Smolentseva 2018, chapter 1.

<sup>17</sup> Cunliffe 2015, p. 1.

discuss this. Adam Smith did. Adam Smith in 1776 called the desire for status and wealth the ‘the desire of bettering our condition’.<sup>18</sup> The motivation of acquisitiveness feeds what is probably the most universal kind of self-formation in the University,

Nearly all students, regardless of the other kinds of self-formation in which they are engaged, whether they are enrolled in STEM, philosophy or business studies, want the credentials that universities bring. They want to form themselves in terms of earning power and/or social position. There is no end to the long-term growth of social demand for the opportunities associated with higher education. In some national systems, like South Korea and Finland, the school leaver participation rate now exceeds 90 per cent.

**The knowledge-making faculty.** The third element of the University is the knowledge-making faculty, nested in local, national and global scholarly communities. Higher education is not an easy industry in which to work as an academic, especially in the early years. For much of the career the rate of return on the PhD does not justify the investment, and few reach the top. Many doctoral graduates simply cannot get faculty jobs, many are confined to a succession of hourly paid posts. Despite this large numbers of people want to work with codified academic knowledge, and a high proportion want to create part of that knowledge. The agency of faculty cannot be primarily grounded in the employment relation because bright people can earn better money with more security elsewhere. They want to be faculty because this is a way of life they respect and desire. It is a vocation.

The explosive growth in the number of published papers around the world partly reflects growing national investments in science, in most countries, and the growing role of advanced knowledge in industry and government, both points that were made by Kerr. It also reflects the inducements implanted by university performance cultures. But I don’t think these explanations are sufficient. Studies of scientific networks indicate that science is more cooperative than competitive; and grows primarily through bottom up and horizontal disciplinary cultures<sup>19</sup>. The collective faculty make knowledge because someone with power wants them to do so. They also make knowledge because it is their nature to do so, as a silkworm makes silk, as Marx said.<sup>20</sup> Knowledge makes them and they make knowledge.

### **The University as a status economy**

In the University these three distinct kinds of agency, the institution, the students and the faculty, have evolved together. They are mutually supporting. This is especially apparent in the research-intensive university, which in most cases is a socially elite university, and

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<sup>18</sup> Smith 1979, p. 441.

<sup>19</sup> For example Wagner, Park and Leydesdorff 2015.

<sup>20</sup> Marx 1979, p. 1044.

where all three kinds of agency and their interdependencies have become highly developed. Functioning together, the three kinds of agency constitute a status producing economy.

Because student formation occurs through the immersion in knowledge, through the teaching-research nexus, faculty contribute both student formation and knowledge making, at the same time. Each of the students and the faculty then feed into the status of the corporate institution. First, there is mutual status building between elite self-forming students and the institution. By attracting high scoring students, universities enhance their own prestige. At the same time, elite universities confer prestige on graduates. There is an exchange of status between university and student. Second, knowledge making faculty build research university status; while at the same time elite research universities harbour top researchers, and provide them also with prestige. Again we see that faculty and institution are engaged in an exchange of status. There is a double exchange of status. And the two status exchanges are interactive, because knowledge building by faculty, while it enhances the status of the institution, also enhances the attractiveness of the institution to elite students. In the interdependency between the three elements that comprise the Inner University, social status in different forms is both the currency and outcome of exchange.

The modern research University is a giant engine for producing and reproducing status. And I think it is this that holds it together. This is another Idea of a University, though it is not especially pretty. It is more a case of how the world works. Newman and von Humboldt did not see the University in terms of status. They took it for granted that in the small socially elite institution of the nineteenth century the social elite already had status. There was no mass pool of social rewards to differentiate and allocate across the population, as there is now. Kerr sensed that massification had changing that, but the full implications were not yet clear to him. He did grasp that the University's reputation, its name, helped to unify it.

### **Universal growth**

I want to emphasise two more points about the three kinds of agency which together constitute today's University. First, the point that each form of agency – institution, students and faculty – is self-driven and self-developing. Each grows of its own volition. One is reminded of John Dewey, the American pragmatists, C.P. Mead, with their distinctive take on Kantian Bildung, their emphasis on the ubiquity of *growth* in and through education<sup>21</sup>. At the same time, the growth of each, institution, student and faculty, provides favourable conditions for the growth of the others. This suggests that solely in terms of its inner workings, the University must expand its role and influence and resource usage over time. This includes its role as a status economy and the volume of social status that it manages.

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<sup>21</sup> Kivela, Sijander and Sutinen 2012, p. 307

The other point is that these three forms of agency have proven to be universalisable – or nearly so – on the world scale. The extent of similarity between universities, everywhere, though from differing national and cultural contexts, is often remarkable. This is why global rankings, despite their biases, omissions and inequalities, are superficially plausible. The corporate institution, led by a semi-autonomous strategic executive, is a form that is now widely distributed, though the executive has varying steering power. On the faculty side, training regimes and career structures vary markedly between countries, but the actual work of faculty in teaching, scholarship and research seems to have converged. On the student side, the modes of self-formation seem to be much the same everywhere.

A proof of the portability of the European/American university form is its ready adoption in East Asia, where civilization is very deeply rooted and is different to the West in important respects. China, Singapore and South Korea have corporate university presidents, fecund researchers and self-investing students. Each element is somewhat modified when compared to the originating American university form. In China and Singapore the universities are more closely embedded in the State than is the case in the Atlantic countries. The faculty have a stronger sense of responsibility to both their students and the state. Students are more diligent in fashioning themselves through education.<sup>22</sup>

### **The Outer University: social roles**

So far I have talked about the Inner University. I have stopped short of nesting it in social purposes and roles, aside from making the point that it produces status, which is inherently social in that it is grounded in social relations. But when we model the University today, the Outer University, nested in society is equally important to consider.

Newman and Kant imagined the university/society relationship as entirely university driven. Newman believed that students immersed in knowledge were made fit for society. Kant believed that persons immersed in learned knowledge would, working together, both expand the space for public rationality and generate the continuous improvement of society. There is something important in this supply side vision. For example, the greater is the number of students immersed in science, the more scope there is for science in public conversation and policy. Yet neither the Newman idea nor the Kant idea capture what is socially distinctive about the University or explain why society continues to sustain it.

**The official narrative.** There is another narrative about the social role, that sustained by national governments. In this discourse government define the public good outcomes that universities should serve. Government funds and regulates universities to secure social and individual benefits, primarily in the form of individual opportunity and collective economic

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<sup>22</sup> Marginson 2016, Part II; Marginson 2018a.



prosperity. This is a more prosaic, less universal and more nation-bound version of the Kantian narrative. But this governmental narrative is not convincing. After a career of working on higher education policy problems, I find that the agency of each of the three forces that I have described – the University as an institution, the self-forming student, the knowledge making faculty – is simply too strong and too autonomous to be driven, defined, limited or contained by either nation or nation-state. Certainly, the University is conditioned by government, especially through funding and regulation. It is by no means wholly determined by government.

Global research universities are partly disembedded from nation-states, operating with a high level of freedom outside the border, in their research and alliance making.<sup>23</sup>

Universities and faculty, not government regulation, shape the bulk of research activity.

Governments fund, and interfere, but they are not the motive force. In their network analysis of science Caroline Wagner and colleagues concluded that ‘the growth of international collaboration’ is ‘decoupling from the goals of national science policy’<sup>24</sup>.

Though governments think they fund research to advance national policy goals, the quantitative network analysis by Wagner and colleagues finds that in two thirds of nations, the pattern of national science activity is now driven primarily by the global networks, rather than the global patterns being driven by national research system activity<sup>25</sup>. This again emphasises the bottom up, agential character of faculty research.

Nor do governments ultimately create, limit or otherwise control student self-formation. As noted, the standard policy narrative, which is embedded in everyone’s thinking, is that governments expand places in higher education so as to provide opportunity and meet the needs of the economy. Yet participation in higher education is growing rapidly across the world in all kinds of economies: manufacturing economies, services economies, commodity economies, all but agricultural economies in fact. Higher education is growing in economies with high growth rates and economies with low growth rates. In the longer run, family and student demand spills out from under all government efforts to limit the number of places. As participation expands to include the whole middle class and moves further down the family income scale, it becomes more difficult for young people to stay outside higher education. The penalties of not having higher education are more severe, in terms of both work and social standing. This, more than rates of return, drives the growth of demand.<sup>26</sup>

Government gives ground, successively, to each increase in the popular demand for opportunity. Its lack of control over student self-formation is shown by the fact that the participation rate does not fall, or if so only briefly, it rises inexorably over time.

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<sup>23</sup> Beerkens 2004.

<sup>24</sup> Wagner, et al 2015, p. 3.

<sup>25</sup> Wagner, et al 2015, p. 9.

<sup>26</sup> Cantwell, et al 2018; Trow 1973.

Government finds itself opening up more and more places, or deregulating places altogether, though when it can it often shifts more of the cost onto families and students. Student self-formation in the University is socially driven, not policy driven.

**The New Everything?** If the official narrative is misleading, what *is* the unique social role of the University? What does it do, that no other organisation does, or does as well? Here the waters are muddy. As Clark Kerr said, multiversities do many things. As higher education expands universities take in more of society, spreads their activity maps and adopt more and more stakeholders.

At present the region and city building functions of universities are increasingly prominent: universities are evolving as adjuncts to local authorities as part of networked governance, and have long been a primary source of jobs. In the UK, universities monitor non-EU international students, as adjuncts of the Home Office. In many locations, university performing arts provide the main local cultural life. Universities reach downwards into schools, run hospitals and sometimes information systems for whole health sectors. The National University of Mexico, as well conducting a quarter of the nation's research, manages astronomical observatories, runs research ships up and down the Atlantic and the Pacific, provides symphony orchestras and houses the leading national football team.

Is the University the New Everything? Has it become the state, and society itself? I don't think so. Universities should be fully engaged. The question is how much responsibility they bear, and in which areas? We should distinguish core and non core functions. Most activities I have listed could be done by organisations other than universities. Many do not require intensive academic knowledge. Non-university agents might be better at the arts, football, or migration policy. Some functions in health or governance are only in universities because of neoliberal devolution strategies in which governments transfer their responsibilities to autonomous public and private bodies. This is not a strong basis for the social role of universities. It also fails to explain why that social role is tenacious and universal.

### **Two unique social roles**

As I see it, the university has two primary external functions, or sets of functions. Its growth and survival rests on these functions. In both of these fields of activity social organisations other than the university also play a role, but the university has a special role – it is hegemonic within the total field of activity and shapes it elsewhere. These two functions are occupational credentialing, and the production of codified knowledge.

**Credentialing.** Credentialing is the master system whereby the University distributes status on the social scale. It is true that occupational credentialing is shared between educational bodies, public regulators and professional bodies. In Law and Medicine professional bodies

and internships can be part of the final stage. However, the overall pattern of the last half century, in an ever-growing number of occupations, has been to diminish on the job training and increase the role of into university classrooms, reading lists, essays and degree certificates. In some occupations there is continued debate, and transfers to university are sometimes (though rarely) reversed, but the primary movement is clear.

**Codification of knowledge.** Likewise, many kinds of organisations produce knowledge and related information in various forms, from think tanks to media to government. Many non-university organisations conduct research, including companies and public laboratories. However, in most countries universities lead published science, and they have a near monopoly of the doctoral training of researchers for all sectors. Patterns vary by country but overall, the role of large research universities in research is growing in relative terms. For example, in China and Russia, some formerly separated academies and laboratories have been merged into the university sector. Overall the research outputs of public laboratories and institutes are growing more slowly than those of universities.

**Exchange between the two.** The two social roles are heterogeneous but have become combined. The University's hegemony in codified knowledge determines the distinctive form taken by university teaching, which is Newman and von Humboldt's Idea of the immersion of student self-formation in knowledge. Students, like non-students, form themselves in many different parts of life, including the family, work and social media. Only in universities is knowledge an essential element of self-formation. Credentialing is prior soaked in knowledge rather than in workplace skills and this, in the diverse disciplines, shapes the agency that graduates bring into the workplace. The potency of the credentialing function provides a powerful protection for the knowledge-intensive learning regime.

The fact that student self-formation immediately prior to work occurs through immersion in knowledge at one remove from work, and not primarily through rehearsals for occupational practice, is a perpetual source of controversy. This means that the claims by business and industry that graduates are not prepared will always be with us. Under some circumstances – for example near universal participation in higher education, with low discrimination between different largely generic graduates, plus fast rising graduate unemployment – this tension could spell serious trouble for the University. It has not come to that. Until now both the credentialing regime and codified knowledge have proven to be sufficiently useful for both students and industry. Each constitutes successful self-reproducing systems.

### **Inner/Outer status economy**

One key to these processes of self-reproduction is that both the social role of the External University in knowledge and the social role of the External University in credentialing, are essential to status exchanges in the Inner University, and vice versa.

Credentialing is the medium for the exchange of status between university and student. The research function of the University feeds into the value of its credentials. Immersion in knowledge is the prior condition of credentialing. In self-formation students make themselves into credential-able workers. And so on.

These inter-dependencies, within the Inner/Outer status economy which is the University, has more consequences than the production of social status alone. The codification of knowledge ranks the different kinds of knowledge according to academic take-up, university of origin, and discipline. Credentialing also sorts graduates on the basis of university and discipline. Both functions help to order institutions and shape student investment. Once again, we find status is like a glue that holds the modern University together. Branding, ranking, now dominate the landscape. We are all aware of status, at least in its institutional form. I said it was not pretty. It is certainly hierarchical. Coupled with the dominance of traditional universities, the status economy is caste-like, reproductive, in its sorting function.

Yet this Inner/Outer status economy also reproduces more attractive features of the University, such as knowledge production and student learning. If students did not gain this form of social value at the moment of graduation, their drive to educate themselves would be much reduced. This in turn would reduce the extent of other forms of self-formation in higher education, including their intellectual and cultural growth; and through the interdependency between the teaching and research functions of the University, it would reduce codified knowledge. The status economy enables us to maintain the Idea of Newman, and the Idea of Kant and von Humboldt, though primarily in the research intensive sub-sector. The University is less good at spreading those Ideas to all.

## **2. The (contemporary) historical university**

So this then is the University. A powerful combination of institutional agency, family and student agency, and faculty agency. Articulated by knowledge, as Newman and von Humboldt knew; articulated by credentials, as they later developed; and ever growing in size and function, as Kerr was the first to really understand. And in these processes driven and combined by the production and exchange of status, as I have argued here.

What are the implications for the real-life universities we inhabit? In the contemporary setting, the University is exceptionally dynamic in all three domains: the growth and worldwide spread of high student participation, the worldwide growth and spread of research activity and outputs, and the worldwide spread of the large multi-function university as the paradigmatic post-school institution. The fact that all three agencies exhibit this exceptional dynamism shows what a strong social form the University has become.

## Self-forming students

First, student-self formation, which is manifest in the growth of participation. From 1995 to 2015 the world Gross Enrolment Ratio (GER) in tertiary education, as measured by UNESCO, rose from 16 to 36 per cent, with four fifths of the world's 216 million students enrolled in full degree programmes<sup>27</sup>. Of those about half can be expected to complete their degrees.

The GER increased by 20 per cent in the last 20 years. At that rate the GER reaches 50 per cent by 2040. In 60 national education systems, the GTER already exceeds half of the school leaver age cohort. The quality of mass higher education varies greatly, but it is clear that we are experiencing an extraordinary growth of educated 'capability', in Amartya Sen's term.

## Faculty agency

Second, faculty agency, the growth of knowledge. To access global science, nations need their own trained people, not just users but producers of research who interact with researchers abroad. All high-income and most middle-income countries now want their own science system and they are building doctoral education and employing researchers in unprecedented numbers. Alongside the expansion in student enrolment since the mid 1990s there has been equally rapid growth in investment in R&D and in the stock of published knowledge. Between 1990 and 2015 US research spending tripled in real terms. China grew its total investment in R&D from \$13 billion to \$409 billion<sup>28</sup>.

In 2003-2016 the total world output of science papers, mostly by university researchers rose from 1.2 to 2.3 million, an increase of 93 per cent in only 13 years<sup>29</sup>. The growth of science in East Asia has been especially remarkable. More than one third of all scientific papers published in English now include at least one author with a Chinese name<sup>30</sup>. China now leads the world in the production of high citation papers in mathematics and computing<sup>31</sup>.

These data have been listed in terms of nations, but the growth of cross-border collaboration, as identified in the number of internationally co-authored papers, has been more rapid than the growth of scientific output as a whole.<sup>32</sup> As I noted previously, science is primarily bottom up and discipline based, and though it is primarily resourced nationally, its actual output is more global system driven than driven by bounded national systems.

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<sup>27</sup> UNESCO 2018.

<sup>28</sup> NSB 2018.

<sup>29</sup> NSB 2018.

<sup>30</sup> Xie and Freeman 2018.

<sup>31</sup> Leiden University 2018. For more discussion of these tendencies see Marginson 2018b; Marginson 2018c.

<sup>32</sup> NSB 2018.

### **Spread of the multiversity**

Third, the spread of the large multi-discipline multi-purpose and often multi-site multiversity form of university. In the policy literature on diversity in higher education, it is often assumed that a major growth of enrolment and provision must trigger a greater variety of institutions by type. This has not happened. With some country exceptions, diversity by institution mission or type is static or declining, except in online and for-profit provision, which, however, remain secondary in all established higher education systems<sup>33</sup>.

Overall, there has been a reduction in the role of discipline-specialist institutions, and binary sector institutions, with both forms often merged into comprehensive multi-disciplinary universities in many countries. In some cases, such as Ireland, non-university institutions are being upgraded and redesignated as universities. In many though not all countries, a growing proportion of all higher education students are located in designated 'universities'; and it is likely a growing proportion are now located in universities with significant research. Meanwhile the average size of comprehensive multi-disciplinary universities is growing. In elite research universities, as in other institutions, size is one source of relative advantage.

### **3. Insecurities of the University**

The march of the multiversity to fame and fortune. An institutional triumph on a scale unimaginable to Newman and Humboldt. Perhaps the extent of the global radiation of the University and science would have surprised Kerr, though he did anticipate the spreading process. But the continued hegemony of the University over the codification of knowledge, and occupational credentialing cannot be assumed. Indeed, the great growth of the university form, and its social functions, masks tensions and fragilities. These are more exposed when the context, especially the political context, becomes significantly disturbed, as at present<sup>34</sup>. The many joins in this complex assemblage emerge as possible fault lines.

Let us look – briefly, because it is speculative - at the potentials and problems for the three kinds of agency (corporate institution, students, faculty) and the two unique social roles.

#### **The institution**

I see several risks to the institution qua institution. The more the University becomes a container for the whole of society, and is pulled this way and that between a huge range of

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<sup>33</sup> For a comprehensive review of patterns of diversity and the rise of the multiversity form see Antonowicz, Cantwell, Froumin, Jones, Marginson and Pinheiro 2018.

<sup>34</sup> For more discussion see Marginson 2018c.

roles, the greater the risk that it will lose command of its own destiny amid short-termism and stakeholder accountability. A related problem, especially if autonomy declines, is role dissonance. We see this already. In some institutions there is tension between on one hand local and national enmeshment, and on the other hand global research, global mobility and the cosmopolitan ideal. The external populist attack on science can be seen off, although it is destabilising, but doubts about local commitment is a slow drip problem harder to evade.

**Debundling.** More fundamentally, there are inefficiencies, diseconomies of scope, in the combinatory model of the multiversity. None of the functions of this conglomerate corporate institution are done especially well because they are part-contaminated by other functions and finances are never wholly separate. This leads to the core issue, the danger that confronts the University of Newman, Kant and Kerr. Commercial companies want the University to be debundled between its teaching, research, credentialing and service functions. This would kick-start huge new opportunities in different industry sectors, at the price of destroying the University and much of what it does.

Once the university form becomes hegemonic in higher education it is hard to displace. Once established, the forces of aggregation and combination seem to be stronger than the forces for debundling and the logic of specialisation/ niches. The status economy that is the University secures critical mass and a growing number of people invest in it. Debundling would undo the status economy, which has many beneficiaries in society.

We see debundled higher education only in those zones in which the University as such has not been strongly established, or remains a small elite sector, in parts of South Asia and Sub-Saharan Africa. In those zones rampant marketisation, for example small private colleges in India and for-profit and online delivery in Africa, is now blocking the evolution of high participation systems of higher education of adequate quality.

The danger is that governments under commercial pressure might pursue debundling as a kind of crusade with anti-trust style legislation. It would be difficult to do in the federated United States but much easier to do so in UK or Ireland, with their centralised polities.

### **Faculty agency**

I see two risks to faculty agency. The sharp end problem, found in a small group of countries, is suppression. At present the countries severely at risk include Turkey, Hungary and parts of the Middle East and Africa. Currently we hope the state politicisation of the University, as in the Cultural Revolution period, does not return to China. We hope that China stays off the list of countries in which faculty agency is severely repressed. Presently faculty retain scope to determine their research, especially in the sciences, though there is

government interference in research decisions (as in many countries), and social scientists, hemmed by official readings of 'the social', are more constrained than are natural scientists.

The larger and more universal danger for faculty is a slow drip problem - the fragmentation of collective agency. Agency is often exceptionally strong in the leading universities but more imperilled lower down. Fragmentation takes a number of forms, including the relative growth of casual (hourly rate or 'part-time') labour, erosion in the number of tenured posts in research intensive universities, the cowering of the capacity for educational and research-based faculty judgments in lower tier institutions in which business norms predominate.

### **Student self-formation**

There are two risks to student self-formation. One is a problem that is eating into contemporary representative democracy.<sup>35</sup> The social media world of instant emotions, in which we connect instantly to thousands of others, is much more exciting than the long hard slog. In democracy, the social media conversation is displacing the slow discussion-based process of winning support in political parties and institutions. In universities the social media world and the kind of agency it fosters can overshadow self-development in knowledge and labour markets with their uncertain timelines and unpredictable rewards, and the difficulty of the process. Learning can be hard. It is impossible to see self-forming student agency evaporating in East Asia but perhaps it could happen in the United States.

The second danger that in more unequal societies, as universal participation approaches, the rewards to each new layer of graduates will be no longer enough to sustain the economic drivers of the self-formation process, especially if the private costs of higher education increase. The difference between being a graduate and being a non-graduate will shrink at the margin to zero. In essence, this is the danger that the growth of human capability will outstrip the expansion of opportunities to use that capability.<sup>36</sup>

This is not an immediate danger except perhaps in the United States. In the US tertiary participation is near universal but completion is weak, private costs are rising and social inequality is rampant, so that the bottom layer of graduates has poor prospects. Elsewhere there is further to go before the University ceases to be the hope of aspiring families.

### **The thin thread**

In the last analysis the future of the University rests on the continued healthy evolution of the two social connectors, which are knowledge and credentials. The two are related. If credentials were separated from the learning programme and became based on measured

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<sup>35</sup> Runciman 2018.

<sup>36</sup> Cantwell, et al 2018, Chapter 16.



occupational skills, self-formation would no longer be immersed in knowledge. Likewise, those same credentials would no longer be underpinned by the University qua university and the bottom would be knocked out of the status economy in higher education.

But I think the greatest danger we face is not debundling, which would only occur under certain political conditions and would be strongly contested. Debundling threatens the social value of past degrees as well as present degrees. No, the larger problem, which is less visible and where there is not external constituency to mobilise in support, is the slow drip problem of the fragmentation of faculty agency in a casualised academic labour market.

Here universities themselves must be persuaded that it is not in their interests to build institutional agency deconstructing faculty agency. A relatively stable core faculty with critical mass is not a managerial weakness but an education and research strength. For research-based faculty sustain the immersion of learning in knowledge, ensuring that the research mission is not a separate economy decoupled from the rest, but feeds into the other parts of this unified status economy, and the benefits that it fosters.

In this manner we maintain unbroken the thin thread that we have inherited from Newman and Kant. That thread will break someday. Nothing lasts for ever. We can hope that it will not break soon. For at this time we have nothing better with which to replace it<sup>37</sup>.

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<sup>37</sup> For further supporting arguments, data and references, see the book *High Participation Systems of Higher Education* (Cantwell, et al 2018).

## References

- Antonowicz, D., Cantwell, B., Froumin, I., Jones, G., Marginson, S. and Pinheiro, R. (2018). Horizontal diversity. In B. Cantwell, S. Marginson and A. Smolentseva (eds.), *High Participation Systems of Higher Education* (pp. 94-124). Oxford: Oxford University Press.
- Beerens, H. (2004), *Global Opportunities and Institutional Embeddedness: Higher education consortia in Europe and Southeast Asia*, doctoral thesis, Center for Higher Education Policy Studies, University of Twente, <http://www.utwente.nl/cheps/documenten/thesisbeerens.pdf>.
- Biesta, G. (2002). Bildung and modernity: The future of Bildung in a world of difference. *Studies in Philosophy and Education*, 21, pp. 343-352.
- Cantwell, B., Marginson, S. and Smolentseva, A. (eds.) (2018). *High Participation Systems of Higher Education*. Oxford: Oxford University Press.
- Cunliffe, B. (2015). *By Steppe, Desert and Ocean*. Oxford: Oxford University Press.
- Etzkowitz, H. and Leydesdorff, L. (1995). The Triple Helix – University-Industry-Government relations: A laboratory for knowledge based economic development. *EASST Review*, 14 (1), pp. 14-19.
- Kant, I. (2009). An answer to the question: ‘What is enlightenment?’ In I. Kant, *An Answer to the Question: ‘What is Enlightenment?’* (pp. 1-11). Trans. H. Nisbet. London: Penguin.
- Kerr, Clark (2001). *The Uses of the University*. 5<sup>th</sup> Edition. Cambridge, MA: Harvard University Press. First published in 1963.
- Kirby, W. and van der Wende, M. (2016). A global dialogue on liberal arts and sciences: Re-engagement, re-imagination and experimentation. In W. Kirby and M. van der Wende (eds.), *Experiences in Liberal Arts and Sciences Education from America, Europe, and Asia: A dialogue across continents* (pp. 1-16). New York: Palgrave.
- Kivela, A. (2012). From Immanuel Kant to Johann Gottlieb Fichte – Concept of education and German idealism. In Siljander, P., Kivela, A. and Sutinen, A. (eds.) (2012). *Theories of Bildung and Growth: Connections and controversies between Continental educational thinking and American pragmatism* (pp. 59-86). Rotterdam: Sense Publishers.
- Leiden University (2018). *CWTS Leiden Ranking 2018*. Centre for Science and Technology Studies, CWTS.

www.leidenranking.com

Marginson, S. (2016). *The Dream is Over: The crisis of Clark Kerr's California Idea of higher education*. Berkeley: University of California Press.

Marginson, S. (2018a). *Higher Education as Self-Formation*. Inaugural Professorial Lecture at the UCL Institute of Education.

<https://www.ucl-ioe-press.com/books/higher-education-and-lifelong-learning/higher-education-as-a-process-of-self-formation/>

Marginson, S. (2018b). The new geo-politics of higher education. *CGHE Working Paper 34*, April. London: ESRC/HEFCE Centre for Global Higher Education.

Marginson, S. (2018c). World higher education under conditions of national/global disequilibria. *CGHE Working Paper 42*, October. London: ESRC/HEFCE Centre for Global Higher Education.

Marx, K. (1976). *Capital, Volume 1*. Harmondsworth: Penguin.

National Science Board, NSB (2018). *Science and Engineering Indicators 2018*.

<https://www.nsf.gov/statistics/2018/nsb20181/assets/nsb20181.pdf>

Newman, J. (1982). *The Idea of a University*. Notre Dame: University of Notre Dame Press. First published in 1852 and 1858.

Runciman, D. (2018). *How Democracy Ends*. London: Profile Books.

Siljander, P. (2012). Educability and Bildung in Herbart's theory of education. In Siljander, P., Kivela, A. and Sutinen, A. (eds.) (2012). *Theories of Bildung and Growth: Connections and controversies between Continental educational thinking and American pragmatism* (pp. 87-106). Rotterdam: Sense Publishers.

Sijander, P. and Sutinen, A. (2012). Introduction. In Siljander, P., Kivela, A. and Sutinen, A. (eds.) (2012). *Theories of Bildung and Growth: Connections and controversies between Continental educational thinking and American pragmatism* (pp. 1-18). Rotterdam: Sense Publishers.

Smith, Adam (1979). *The Wealth of Nations*. Harmondsworth: Penguin Books. First published 1776.

Trow, M. (1973). *Problems in the Transition from Elite to Mass Higher Education*. Berkeley, CA: Carnegie Commission on Higher Education.

United Nations Educational, Social and Cultural Organization (UNESCO). (2018). UNESCO Institute for Statistics data on education.

<http://data.uis.unesco.org/>

Wagner, C., Park H. and Leydesdorff, L. (2015). The continuing growth of global cooperation networks in research: A conundrum for national governments.

*PLoS ONE*, 10 (7): e0131816. doi:10.1371/journal.pone.0131816.

Xie, Q. and Freeman, R. (2018). Bigger than you thought: China's contribution to scientific publications. *NBER Working Paper* No. 24829.

<http://www.nber.org/papers/w24829>