Introduction

Among the eight high participation systems (HPS) studied in this book, Poland is a high middle income country. Its 2015 GDP per capita on a PPP (purchasing power parity) basis was US$26,261, almost 69 per cent above the world average level but only 55 per cent of that in neighbouring Germany. Its total GDP in PPP terms in 2015 was US$1,020 billion, placing it in twenty-second place on the world scale (World Bank, 2017). Poland is one of the largest countries in Europe, with a land area of 311,888 square kilometres and a population of just under thirty-eight million in 2015 (World Bank, 2017). After breaking away from the Soviet system in Eastern Europe in 1989–90, Poland subsequently joined the North Atlantic Treaty Organisation (NATO) in 1999 and became a full member of the European Union (EU) in 2004. Poland is also a member nation in the Organisation for Economic Co-operation and Development (OECD).

Poland has experienced remarkable educational growth and contraction in the almost three decades since it left the Soviet bloc but throughout demographic ups and downs the rate of participation in tertiary education has increased. The leap in the gross tertiary enrolment ratio (GTER) in the last two decades was the highest among the eight systems under consideration in this book, from 32 per cent in 1995 to 71 per cent in 2013, almost 40 per cent in fewer than twenty years (see Chapter 1, Table 1.1). The changes in society and economy in Poland in the last two decades have been as fundamental as the changes in higher education participation. The two are strongly interrelated. The growth in the proportion of the population with completed higher education programmes, as illustrated by the difference between 25–34-year-olds (43 per cent) compared to 55–64-year-olds (14 per cent), was the highest in Poland of all the eight countries (see Chapter 1, Table 1.5). This substantial generational difference in the holding of qualifications shows the scale of change in tertiary educational opportunities between the pre-HPS communist era of the 1980s and the HPS era in the post 1989 period.
This Polish case study was prepared in the light of the generic findings about HPS presented in Part I of *High Participation Systems of Higher Education*. This case of a formerly communist country changing into a market economy and a liberal democracy, entering the NATO, the OECD and the EU, while at the same time changing from a low participation system to an HPS, constitutes an interesting testing ground for the HPS hypotheses outlined at the beginning of the book.

**TRANSITION, GROWTH, AND DEMOGRAPHIC DECLINE**

Poland has undergone change processes typical of Central and Eastern Europe. The communist legacy in higher education funding and organization generated similar challenges across the region. Polish higher education system stagnated in the 1970s and 1980s, being stable in both quantitative and qualitative terms. The numbers of institutions, students, and academics were relatively constant. The system was state-coordinated, binary in terms of university and non-university sectors with both located in the public sector, publicly governed, and publicly funded (Antonowicz, 2016; Pinheiro and Antonowicz, 2015; Kwick, 2017). Prior to 1989 universities were conceived as major change agents designed to redress social inequality, while at the same time subject to strong political supervision and state coordination (Szczepański, 1974). The target was a change in the social composition of the educated social strata. Centrally planned higher education was also expected to serve the centrally planned economy. The principle of full employment combined with the principle of carefully planned supply of qualified workers to the closed, national labour market was a key factor limiting the massification of higher education. Massification was postponed for different reasons, including political ones: between mid-1970s and 1989, university academics were increasingly involved in anti-communist opposition movements, and research and technologies were developed in the research institutes sector and in the Polish Academy of Sciences, both without students. Access to higher education was heavily restricted.

One result was that when massification processes were finally set in motion in the 1990s, they could hardly be stopped (Siemieńska and Walczak, 2012). Increased social aspirations for higher education among the lower social classes, along with ever-present high aspirations of the former intelligentsia, now turned into the middle class, have fuelled growth ever since 1989.

According to the general HPS Proposition 3:

*Once transition from a primarily agricultural economy is achieved, the long-term growth of HPS is independent of political economic factors such as economic growth and patterns of labour market demand; patterns of public and private funding of higher education; the roles of public and private institutions; and system organization and modes of governance.*
In contrast to the OECD area as a whole, the Polish system has both massively expanded and is now heavily contracting (Kwiek, 2016d). This is rooted in a major decline in the birth rate in the early 1990s. Between 2013 and 2020-5, the number of people aged 20–4 decreases by 904,900 and by 2035–40 the decline will be 1.013 million (GUS, 2014: 152). Yet while the system shows the signs of saturation, the long-term growth of the participation rate seems inevitable.

In certain respects, the Polish system is exceptional from a global perspective. In the last generation it became dual in the sense of public-private, highly differentiated, strongly marketized, and hugely expanded. After that it came under exceptionally heavy pressure due to the declining demographics, Poland being the fastest ageing society in the EU. Total enrolments have fallen from 1.95 million in 2006 to 1.41 million in 2015 though the age group participation rate has continued to increase. The effects of the marked contraction in absolute student numbers (see Figure 12.1) have been to make the Polish system more public, less differentiated, and less marketized. The HPS in Poland seems to have found its own idiosyncratic way to develop. In the 1990s and 2000s it was a perfect example of privatization processes, with ever more private providers, more private funding, and more fee-paying students in both sectors. In contrast, in the last decade it has become a remarkable historic example of a de-privatization process, especially in financial terms (together with Romania, Bulgaria, and Estonia; Kwiek, 2016a; see also Marginson, 2016d and Szadkowski, 2017 on the operationalization of the public/private distinction).

![Figure 12.1. Higher education enrolment in Poland, 1990–2015](image)

*Source: Author, from GUS (2016) and previous editions.*
The expansion of the Polish HPS, in terms of student numbers and growth in number of private institutions, was largely uncoordinated. At the end of the communist period in 1989 the gross enrolment rate in higher education (United Nations Educational and Cultural Organisation (UNESCO)/OECD tertiary type A education, only Bachelor’s and Master’s levels, distinct from post-secondary education) was about 10 per cent. Three years later in 1992 it was already 15.5 per cent and it reached 51.1 per cent by 2007. The drivers of this change included powerful social pressures, rising demographics, a new capitalist labour market with growing private sector employment and concurrent requirements for a more educated labour force, a laissez-faire public policy towards the quality of the emergent private sector in higher education, and the willingness of the academic profession to be directly involved in the institutional growth of both public and private sectors (Białecki and Dąbrowa-Szefler, 2009; Dobbins, 2011; Kogan et al., 2011; Kwiek, 2013; Antonowicz et al., 2017).

CHANGING ROLE OF THE STATE

The role of the state has also changed during the post-communist period and has done so twice. The explosive growth after 1989 was manifest in both an increase in size and an increase in the complexity of governance and funding. Massification created the need for new coordination mechanisms. There was a quarter of a century of large-scale structural changes intended to replace communist-period governance arrangements with new ones, mostly in an incremental manner. At this stage, no academic revolution occurred, but incremental changes gradually led to a new system based on new governing and funding principles. However, more far-reaching changes were introduced recently, in the 2009–12 wave of reforms (Kwiek, 2016b). These signalled the second change in the role of the state. When in the 1990s the Polish system became more market-driven and differentiated along public-private lines the role of the state was rendered weaker than in the communist era. Nevertheless, the state, through its Ministry of Science and Higher Education (MoSHE) has been gradually regaining power since 2005, when a new law on higher education was introduced, and especially since the 2009–12 reforms. Interestingly, ‘de-privatization’ has coincided with stronger central control, but state control has also taken a new form. The role of quasi-state intermediary agencies has grown, while at the same time, these agencies exercise a closer control over academic work than did the earlier direct state administration (Antonowicz et al., 2017).

At the level of the institution, while overall enrolments and the role of government have fluctuated, there has been a long-term trend to consolidation and strengthening of the position of the large multi-disciplinary public research universities or ‘multiversities’ (Kerr, 2001) in the Polish system. There are currently eighteen universities and polytechnics with enrolments exceeding 20,000, including three universities with about
40,000 students (University of Warsaw, Jagiellonian University in Cracow, and University of Poznan). The Polish system in 2015 consisted of 415 institutions (132 public and 283 private): nineteen universities, twenty-three polytechnics, seven universities of life sciences, sixty-seven of economics, fourteen of education, nine of medicine, six of physical education, twenty-two of arts, fifteen of theology, and more than 200 other institutions. Recent demographic pressures reduce the number of private institutions (from 330 in 2009 to 265 in 2017; POL-ON, 2017), and national policies strongly support mergers of public institutions, with very limited success so far. The conversion of mission goes in several directions: polytechnics become more comprehensive by range of fields of study (seeking new students, especially females), and universities turn to applied research, apart from basic research (seeking new public funding).

Governance: Towards Multi-level Arrangements

The first governance proposition (HPS Proposition 4) states that:

HPS are governed by multi-level control, coordination, and accountability mechanisms.

After 2009, within the framework of the so-called Kudrycka reforms, the Polish system was reconfigured on the basis of multi-level governance, with new intermediary coordinating institutions situated between higher education institutions and the state. The new national bodies included two independent and publicly funded national research councils, one for fundamental research (Narodowe Centrum Nauki (NCN)) and another for applied research (Narodowe Centrum Badań Rozwoju (NCBR)); the renewed Polish Accreditation Committee (Polska Komisja Akredytacyjna (PKA)); and the national Committee for the Evaluation of Scientific Units (Komitet Ewaluacji Jednostek Naukowych (KEJN)). In association with this change, an amendment to the law on higher education of 18 March 2011 introduced new rules of the academic game in both governance and funding. Financing of public higher education and academic research became more directly linked to measurable research productivity (Kwiek, 2015a).

In the wake of the 2009–12 reforms major aspects of funding and organization were moved from the level of the state to the intermediary level of the new agencies. The two national research councils allocate funding on a competitive basis to individual academics and research teams, as well as to companies in the case of the NCBR, for research in all areas. The accreditation committee (PKA) evaluates and accredits study programmes and institutions across the whole of the public and private sectors. The evaluation committee (KEJN) provides a large-scale, periodical assessment of the research output of all 963 basic academic units—these are usually situated at the level of faculty, in the case of higher education institutions—through sophisticated periodical 'parameterization' and
categorization’ exercises (Kulczycki, 2017). These exercises took place in 2013 and 2017. The new bodies either directly allocate public funding, in the case of both national research councils; or provide input to the MoSHE in the form of scores for study programmes and basic academic units which are then linked to public subsidy levels, as occurs with the two accreditation and evaluation committees, the PKA and KEJN.

The Polish system is coordinated, funded, organized, and governed in a homogenous way. All public sector institutions are funded centrally through subsidies by the state through MoSHE. Research in public institutions is funded centrally through subsidies based on the assessments of an intermediary agency, the KEJN, as well through grant funding as the results of national competitions for research funding available from the NCBR and the NCN. The mechanisms of coordination operate at one basic level, the state. There are national salary brackets, national teaching loads, a national student aid system, and a national system of academic titles and degrees. Full professorships are awarded centrally by the Central Committee on Academic Degrees and Titles and nominations are signed by the President of Poland. However, the state has diminishing power in organization and management of individual institutions and in allocating public funding. The role of the four intermediary peer-run agencies is heavily increasing, as is the role of students as consumers, with consumer rights guaranteed by the state. Institutions are becoming ever more accountable to the state, through the new intermediary agencies to which they report, and academics ever more accountable to both their own institutions and the research councils sponsoring their research.

Corporatization

The third governance proposition (HPS Proposition 6) states that

\[
\text{HPS complex multi-level accountability and coordination, coupled with system differentiation, result in higher education institutions adopting increasingly corporate forms and robust internal governance and management capacities.}
\]

Until 2011 the state in Poland, through the MoSHE, was directly involved in coordinating higher education. In the new governance architecture, higher formal autonomy for self-managing institutions and academics is combined with higher levels of accountability. The new intermediary agencies are, in principle, independent from the state in that they are either directly managed by academics elected by the academic community at large or indirectly influenced by academics through their governing boards. Hence either directly or indirectly, the four new agencies are managed and/or governed by academics through their democratically elected representatives. There is, however, a substantial cost for the more autonomous institutions, in that various aspects of university functioning
are subject to rigorous systems of reporting, while there is an increasing bureaucratization of the whole system. This has provided a framework for processes of corporatization parallel to those emerging in many countries. Though corporate reform is very high on the policy agenda, the traditional Polish academic collegiality has so far retarded the change process (Kwiek, 2015b). However, the corporatist direction of the reforms proposed in 2017, in the context of an increasingly competitive national system, is unmistakable.

Increasingly, academic outputs in both teaching and research are being assessed, benchmarked and linked to public funding levels, at the aggregate level in the case of basic academic units, and at an individual level in the case of project-based research funding. Not only have research grants been rendered competitive, public subsidies for each of teaching and research now depend on how academic units perform in comparison with other units. There is quasi-market resource allocation for academic units in which they compete for a stable amount of funding available on a yearly basis. Detailed bibliometric assessments of individual academics and academic units, performed through a point system linked to a ranking list of academic journals, increasingly determine the level of financial resources available (Kwiek 2018b).

Overall, Poland is gradually implementing a performance-based research funding system (Kulczycki et al., 2017). Funding levels are linked either directly to prior research outputs, through subsidies for research allocated to individual academic units rather than institutions as a whole; or indirectly in the form of grant-based competitive funding for academics. The core of the ongoing changes lies in competitive project-based funding from the two national research councils, especially the NCN for fundamental research. Amid the changing architecture of governance, the four new agencies located in the coordination system between the universities and the state are becoming ever more crucial. Putting it in simple terms, the state leaves most funding decisions to the competitive quasi-market institutionalized in new intermediary agencies. The state continues to define the global levels of public funding for both subsidies and research projects, national research priority areas, and the primary division of funds between the NCN and the NCBR. Decisions on how to allocate research funds are taken by the academics located in the research councils.

The KEJN, the new national ‘research assessment exercise’ body formed in 2010, has been crucial for the implementation of these reforms. Consisting of experts elected by the academic community and nominated by the Ministry, its role is a comprehensive assessment of research activities conducted in all ‘basic academic units’ (institutes of the Polish Academy of Sciences (PAS), research institutes, and mostly faculties in higher education institutions), with the assessment largely carried out through bibliometric tools. The assessment process is termed ‘parameterization’ and leads to the categorization of all academic units, with the final assessment is presented on a four-point scale: A+ (national leaders), A (very good level), B (acceptable level), and C (unsatisfactory
level). For a given unit assessed by KEJN, the level of a state subsidy for research is directly linked to the final assessment. The Ministry publishes a list of units with their respective categorization. The successive rounds of parameterization, leading to official categorization by the Ministry, have proven to be a powerful instrument of stratification of the Polish higher education sector. The assessment process also tends to be reproductive of the stratification it creates. Units with low categorization in 2013, and consequently lowered research funding through annual state subsidies in the years 2014 to 2017, had limited prospects of achieving higher categories in 2017. The categorization of individual academic units does not directly lead to classifications of the institutions in which those units are located, but institutional funding and status are affected indirectly. The top higher education institutions in Poland house mostly A-category and A+category faculties, together with varying numbers of B-category units. The PAS sector comprises sixty-eight institutes which are involved in Doctoral-level education only, 80 per cent of its institutes have A+ or A categories, and its staff of 3,720 is responsible for 14 per cent of Polish publications; the PAS sector competes with the higher education sector for research grants from the NCN and in 2011–16 it received 1.21 billion PLN (Polish currency: zloty) out of 3.33 billion PLN disbursed, or 36.34 per cent.

The new system of coordination is associated with new tensions within institutions and between institutions, intermediary agencies, and the state. Managerial-type reforms, such as an increase in the power of academic leaders, both rectors and deans, as well as the increased role of the periodic research assessment exercises and performance-based research funding systems, have been introduced into a traditionally collegial system in which there is a very strong tradition of universities as communities of scholars. Indeed, the Polish system is one of the most collegial systems in Europe, and one that comes closest to the ideal of the Ivory Tower. Links between higher education institution and the economy are weak, as are links to society (Fulton et al., 2007). The perceived ‘index of collegiality’ for Poland is one of the highest in Europe, and the ‘index of academic entrepreneurialism’ is one of the lowest. The majority of academics perceive themselves as very influential (and somewhat influential) in shaping key academic policies at department levels but not at all influential at institutional levels (Kwiek, 2015b), with significant cross-generational differences between highly influential full professors and powerless new entrants (Kwiek, 2017).

That said, the newly introduced governance modes have strengthened both university-enterprise partnerships and the rise of tracer studies and student and graduate satisfaction surveys. The relatively large public funding allocated for the commercialization of research, mostly sourced from EU Structural Funds, have introduced new lines of accountability to EU and national-level sponsors, with specific project reporting regimes. The new intermediary agencies in Poland are in the process of learning of not only how to allocate funding on a highly competitive basis, but also how to systematically audit and assess research results. The state demands ever more measurable outputs from
institutions, and inevitably, these institutions in turn demand ever more outputs from their academics. In addition, students demand ever more high quality instruction from their institutions and academics, now that they are conceptualized by the state and the private sector as 'clients' and 'consumers'; overall, recent reforms construct universities as organizations rather than traditional academic institutions (Kwiek, 2016c).

Finally, the second governance proposition (HPS Proposition 5) states that:

**HPS governance tends to involve the management of horizontal differentiation.**

In the Polish case, horizontal differences in institutional mission, classification, type, and profile are still limited: apart from the major public/private sectoral distinction, all public institutions are involved in both teaching and research, all academics are employed according to a national system of academic posts based on academic degrees. However, with new competitive research funding, the traditional division between universities and polytechnics is being turned into a division between more research-focused and better publicly funded universities and polytechnics on the one hand and much more teaching-focused and specialist universities (e.g. of economics or education), still more reliant on student fees from part-timers.

### Diversity: The Increasing Power of Comprehensive Universities

The fourth proposition on horizontal diversity (HPS Proposition 10) states that:

*All else being equal, the combination of expanding participation and enhanced competition in neoliberal quasi-markets is associated with specific effects in relation to diversity, including (1) increased vertical differentiation of higher education institutions (stratification); (2) reduced horizontal differentiation (diversification); (3) convergence of missions through isomorphic imitation; and (4) growth in the role of private higher education institutions, especially for-profit institutions.*

The power of recent reforms in Poland lies in their ability to combine changes in governance with changes in funding (Kwiek, 2012). The heavy dependence of public universities on public funds, as elsewhere in continental Europe, leads them to gradually accommodate the new rules of the academic game. New monies come through new funding instruments. There was much more public funding available in 2011–15 for higher education and for the university sector (see Table 12.2 later in the chapter). Total operating budgets, total income from teaching, and total income from research all rose compared to the previous period. All institutions, through their academic units, now compete in the quasi-market of public subsidies for research, striving for higher KEJN
scores in the parameterization and categorization exercise. However, as noted, greater financial autonomy has gone hand in hand with the emergent audit culture and the new accountability mechanisms. The state-sponsored agencies directly shape academic work rather than handing over every aspect of its management to autonomous institutions.

In the contest for increasingly competitive funding the institutional winners are mostly the research-oriented metropolitan universities, especially the two flagships, the University of Warsaw and the Jagiellonian University in Cracow, and several other comprehensive universities. The role of these multiversities has grown substantially. The institutional losers are mostly the regional, teaching-focused public institutions that cater for regional and local students, located away from the major academic centres, and also the private sector of higher education, which is unable to compete successfully within the new funding arrangements.

The first proposition on horizontal diversity (HPS Proposition 7) states that:

*In the HPS era, regardless of the political economy and culture of systems, an increasing proportion of higher education becomes centred on comprehensive multi-discipline and multi-function research universities, or 'multiversities'. The multiversity is increasingly dominant as the paradigmatic form of higher education.*

In Poland there has been a powerful concentration of all types of public funding and all types of public resources, and all national-level infrastructural investments, in research universities. In a disintegrated system structure deriving originally from the communist period, Poland’s comprehensive universities are separate not only from the polytechnics but also from specialist universities of medicine (except in the case of Cracow), economics, life sciences, education, and the arts. For instance, in Poznań there are separate public institutions which developed out of faculties of the comprehensive University of Poznań in the 1950s–70s: University of Economics, of Life Sciences, of Fine Arts and of Physical Education. A trend toward multi-function multiversities involves current debates about within-city mergers of academic institutions.

The second proposition on horizontal diversity (HPS Proposition 8) states that:

*Regardless of the political economy and culture of the HPS, when participation expands there is no necessary increase in the overall diversity of institutional form and mission; and this has probably declined, except in relation to online provision.*

The concentration of enrolments in metropolitan academic centres has grown, with the eight biggest enrolling over 60 per cent of all students. There are seventy-six public and private higher education institutions located in Warsaw, with 243,000 students (GUS, 2016: 25-7). In the period between 2005 and 2015, in the midst of contraction, different institutional types in the system experienced different trajectories. Universities and polytechnics enrolled more than a half of all students in Poland in 2015, compared with 45 per cent in 2010. In 2015, 30.0 per cent of students were enrolled in universities,
21.4 per cent in polytechnics, 12.8 per cent in academies of economics, 5.1 per cent in agricultural academies, 4.3 per cent in medical universities, 3.3 per cent in pedagogical academies, and the rest in other institutions (GUS, 2016: 59). So far there has been no large-scale tendency to merge specialist universities into comprehensive multi-disciplinary institutions of the multiversity type, as was suggested in Chapter 3’s discussion of diversity Propositions 1 and 2, but the total weight of the multi-disciplinary institutions increases. The overall diversity of institutional form, profile, type, and mission has certainly decreased in the last decade.

The third proposition on horizontal diversity (HPS Proposition 9) states that:

As participation expands the internal diversity of multiversities tend to increase.

Major Polish comprehensive universities seem to increasingly specialize internally in attracting ever more students and attracting ever more diversified national and international monies. Multiversities may include several highly ranked units accompanied by several lower ranked units. The heterogeneity of these multiversities has increased, with the separated measures of the research intensity and separate national benchmarks applied to their different constitutive elements. Flagships seem to need ever more of everything and expand in all directions simultaneously, and one natural consequence is that their units change at a variable pace. Expansion has its costs and draws on ever more quality and quantity of students, Doctoral students, postdocs, grants, and publications. In the different units of multiversities there are differing emphases on teaching and research roles, and these variations are associated with different patterns of funding sources.

Since 2010 the gradually changing formula for the distribution of research funding has led to the ‘haves’ receiving more competitive research funds and the ‘have-nots’ receiving proportionately less, illustrating the workings of the mechanisms of cumulative advantage and disadvantage at an institutional level (Merton, 1968; Cole and Cole, 1973). In other words, the new funding mechanisms are fuelling vertical stratification, gradually leading to the emergence of two opposing families of institutions: on the one hand, those that are strongly and moderately research-oriented; and on the other, those with no research mission and no research funding.

While the distribution of resources for research was always unequal, this can now be illustrated in detail, in terms of research funding allocated by the national research council. During its first six years of operation from 2011 to 2016, the NCN funded about 10,000 research grants, with budgets totalling 3.331 billion PLN (approximately US$830 million). The distribution of these funds indicates the new geography of knowledge production, and indicates the growing stratification of the Polish HPS, driven by competition in the research quasi-market and the regulation of ‘quality’ in terms of international scientific excellence (Kwiek, 2016b).
Vertical Stratification

The first proposition on vertical stratification (HPS Proposition 11) states that:

*The expansion of participation towards and beyond the HPS stage is associated with a tendency to bifurcation and stratification (vertical diversification) in the value of higher education, between elite (artisanal) institutions and mass (demand-absorbing) institutions.*

In Poland the two largest national universities, the Jagiellonian University in Cracow (UJ) and University of Warsaw (UW), between 2011 and 2016 together received about 30 per cent of all research funding competitively available from the NCN, with 14.98 per cent allocated to UJ and 14.82 per cent to UW. These two institutions are well ahead of the other leading institutions in Poland. In 2011–16 the top five institutions were awarded 46.12 per cent of all grants and the top ten received 62.99 per cent (see Table 12.1); and the top twenty received 80.56 per cent. There were 410 institutions in 2016 in total, but only 115 institutions were awarded NCN funding.

What of the 300 institutional losers under the new research funding regime? These are public middle-level institutions, together with, and especially low-level public and private institutions, where knowledge production is only marginally competitive. Interestingly, out of the 963 units awarded any of the KEJN categories in 2013, only 533 received any funding from the NCN. According to the second governance proposition (HPS Proposition 5),

<table>
<thead>
<tr>
<th>Institution</th>
<th>Location</th>
<th>Funding awarded (in million PLN)</th>
<th>% of total funding awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jagiellonian University (UJ)</td>
<td>Cracow</td>
<td>498.839</td>
<td>14.98</td>
</tr>
<tr>
<td>University of Warsaw (UW)</td>
<td>Warsaw</td>
<td>493.696</td>
<td>14.82</td>
</tr>
<tr>
<td>University of Poznań (UAM)</td>
<td>Poznań</td>
<td>222.613</td>
<td>6.68</td>
</tr>
<tr>
<td>University of Wrocław (UWr)</td>
<td>Wrocław</td>
<td>167.238</td>
<td>5.02</td>
</tr>
<tr>
<td>University of Science and Technology (AGH)</td>
<td>Cracow</td>
<td>154.028</td>
<td>4.62</td>
</tr>
<tr>
<td>Wrocław Polytechnics (PWr)</td>
<td>Wrocław</td>
<td>128.850</td>
<td>3.87</td>
</tr>
<tr>
<td>Warsaw Polytechnics (PW)</td>
<td>Warsaw</td>
<td>126.760</td>
<td>3.81</td>
</tr>
<tr>
<td>University of Gdańsk (UG)</td>
<td>Gdańsk</td>
<td>124.911</td>
<td>3.75</td>
</tr>
<tr>
<td>Nicolaus Copernicus University (UMK)</td>
<td>Toruń</td>
<td>92.317</td>
<td>2.77</td>
</tr>
<tr>
<td>Łódź Polytechnics (Pł)</td>
<td>Łódź</td>
<td>88.933</td>
<td>2.67</td>
</tr>
</tbody>
</table>

*Note: US$1 = 4.00 PLN.*

*Source: Author’s calculations based on NCN (2017) data.*
HPS governance tends to involve the management of horizontal differentiation.

The combination of KEJN categories and NCN funding works as a tool for the management of horizontal differentiation, with the missions of institutions defined by the number of high and low categories they receive, while at the same time also strengthening vertical stratification. The level of research funding serves as a precise system for calibrating competitive standing.

The increasing concentration of funding in top national institutions, which is also associated with the growing concentration of research talents and opportunities, goes far beyond competitive research funding from the NCN, however. It includes all funding categories: competitive and non-competitive, project-based and subsidies, subsidies for research and subsidies for teaching, international funding, as well as income from fees from part-time students. The Polish multiversities increasingly attract higher proportions of monies from all possible sources, compared with lower tier institutions. All funding mechanisms seem to work to their advantage; and in a contracting system, the top tier institutions attract an ever-higher share of total students. Their nominal numbers are falling but their share grows. The institutional data for 2011 to 2015 in Table 12.2 show in detail the changing incomes of six major Polish universities. These are the university sector’s representatives in the list of top ten institutions, the other four being polytechnics. Note that the average increase in funding for the six institutions in 2011–15 was higher than for the university sector as a whole, underlining the point that multiversities tend to attract more funds from all possible sources.

It is clear both informally and formally, through the dense system of several competing national rankings, which institutions are prestigious, and which are less so. The list of top ten public universities and polytechnics has been stable in the last ten years, with two national flagship universities in Warsaw and Cracow holding top place in the list from the very beginning of national rankings two decades ago. The effect of the recent reforms has been to render the Polish system even more vertically stratified than was the case in the past two decades, and more (quasi-)market driven in research, while also less market-driven in organizational terms, given the decreasing number of private institutions and the increase in public funding as a proportion of funding. The prestige hierarchy seems tighter and the position of the leading universities if anything seems less open to contestation from below.

The third proposition on stratification (HPS Proposition 13) states that:

In stratified HPS, a middle layer of institutions tends to form, shaped by the combination of upward aspirations (drift) with systemic scarcity of resources and status.

In Poland the middle layer institutions are those with their faculties rated predominantly B by KEJN. They aspire to move up the ladder of prestige and resources but the distinction between the top layer and the middle layer institutions is made on the
### Table 12.2. Income of top six Polish universities, 2011–15

<table>
<thead>
<tr>
<th>University of Gdańsk (UGd)</th>
<th>University of Poznań (UAM)</th>
<th>Jagiellonian University in Cracow (UJ)</th>
<th>Nicolaus Copernicus University in Toruń (UMK)</th>
<th>University of Warsaw (UW)</th>
<th>University of Wrocław (UWr)</th>
<th>Total (the university sector only)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total operating budget</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>296,1120</td>
<td>519,472</td>
<td>792,658</td>
<td>370,516</td>
<td>1,037,086</td>
<td>381,111</td>
</tr>
<tr>
<td>2012</td>
<td>313,219</td>
<td>549,031</td>
<td>850,264</td>
<td>374,386</td>
<td>1,071,155</td>
<td>384,769</td>
</tr>
<tr>
<td>2013</td>
<td>353,496</td>
<td>610,002</td>
<td>946,333</td>
<td>407,144</td>
<td>1,132,558</td>
<td>410,237</td>
</tr>
<tr>
<td>2014</td>
<td>369,545</td>
<td>660,414</td>
<td>1,036,744</td>
<td>436,288</td>
<td>1,248,786</td>
<td>448,637</td>
</tr>
<tr>
<td>2015</td>
<td>401,994</td>
<td>701,248</td>
<td>1,123,350</td>
<td>483,590</td>
<td>1,318,199</td>
<td>472,415</td>
</tr>
<tr>
<td><strong>% change</strong></td>
<td>136%</td>
<td>135%</td>
<td>142%</td>
<td>131%</td>
<td>127%</td>
<td>124%</td>
</tr>
<tr>
<td><strong>Total public subsidies for teaching</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>171,376</td>
<td>295,821</td>
<td>417,673</td>
<td>224,227</td>
<td>373,944</td>
<td>216,530</td>
</tr>
<tr>
<td>2012</td>
<td>181,697</td>
<td>308,740</td>
<td>440,262</td>
<td>230,645</td>
<td>391,457</td>
<td>225,319</td>
</tr>
<tr>
<td>2013</td>
<td>198,133</td>
<td>344,226</td>
<td>504,433</td>
<td>256,079</td>
<td>447,798</td>
<td>244,138</td>
</tr>
<tr>
<td>2014</td>
<td>223,017</td>
<td>383,145</td>
<td>570,841</td>
<td>283,690</td>
<td>517,401</td>
<td>268,342</td>
</tr>
<tr>
<td>2015</td>
<td>246,500</td>
<td>428,128</td>
<td>636,492</td>
<td>307,172</td>
<td>572,410</td>
<td>292,476</td>
</tr>
<tr>
<td><strong>% change</strong></td>
<td>144%</td>
<td>152%</td>
<td>152%</td>
<td>137%</td>
<td>153%</td>
<td>135%</td>
</tr>
<tr>
<td><strong>Total income from fees (part-time students only)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>50,013</td>
<td>58,478</td>
<td>107,383</td>
<td>39,775</td>
<td>137,975</td>
<td>60,557</td>
</tr>
<tr>
<td>2014</td>
<td>45,314</td>
<td>38,577</td>
<td>100,648</td>
<td>34,972</td>
<td>117,583</td>
<td>49,200</td>
</tr>
<tr>
<td>2015</td>
<td>44,260</td>
<td>45,749</td>
<td>100,850</td>
<td>33,821</td>
<td>101,500</td>
<td>45,619</td>
</tr>
<tr>
<td><strong>% change</strong></td>
<td>79%</td>
<td>70%</td>
<td>102%</td>
<td>81%</td>
<td>67%</td>
<td>67%</td>
</tr>
<tr>
<td><strong>Total income from research</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>34,463</td>
<td>65,351</td>
<td>126,860</td>
<td>42,687</td>
<td>329,620</td>
<td>53,222</td>
</tr>
<tr>
<td>2012</td>
<td>43,406</td>
<td>78,481</td>
<td>159,420</td>
<td>45,687</td>
<td>354,603</td>
<td>47,862</td>
</tr>
<tr>
<td>2013</td>
<td>55,463</td>
<td>82,487</td>
<td>175,279</td>
<td>46,877</td>
<td>352,809</td>
<td>55,211</td>
</tr>
<tr>
<td>2014</td>
<td>56,673</td>
<td>92,180</td>
<td>194,890</td>
<td>49,233</td>
<td>386,757</td>
<td>59,249</td>
</tr>
<tr>
<td>2015</td>
<td>58,950</td>
<td>95,126</td>
<td>209,785</td>
<td>58,316</td>
<td>420,299</td>
<td>63,327</td>
</tr>
<tr>
<td><strong>% change</strong></td>
<td>173%</td>
<td>165%</td>
<td>135%</td>
<td>127%</td>
<td>119%</td>
<td>132%</td>
</tr>
<tr>
<td><strong>Total public subsidies for research</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>12,514</td>
<td>28,382</td>
<td>44,491</td>
<td>17,424</td>
<td>199,823</td>
<td>24,120</td>
</tr>
<tr>
<td>2012</td>
<td>16,651</td>
<td>30,266</td>
<td>46,369</td>
<td>19,310</td>
<td>225,999</td>
<td>23,781</td>
</tr>
<tr>
<td>2013</td>
<td>18,380</td>
<td>29,952</td>
<td>40,742</td>
<td>17,141</td>
<td>213,763</td>
<td>19,128</td>
</tr>
<tr>
<td>2014</td>
<td>14,918</td>
<td>30,337</td>
<td>38,906</td>
<td>18,660</td>
<td>223,380</td>
<td>17,749</td>
</tr>
<tr>
<td>2015</td>
<td>17,337</td>
<td>25,016</td>
<td>47,459</td>
<td>20,301</td>
<td>252,346</td>
<td>15,622</td>
</tr>
<tr>
<td><strong>% change</strong></td>
<td>139%</td>
<td>107%</td>
<td>117%</td>
<td>126%</td>
<td>65%</td>
<td>143%</td>
</tr>
</tbody>
</table>

Notes: In million PLN (US$1 = 4.00 PLN). Growth leaders in bold.

Source: Author's calculations based on POL-ON (2016) data.

basis of easily measurable research intensity, and the vast majority of institutions are unsuccessful in the research-based competition for A and A+ categories and for NCN competitive research funding. The Polish case clearly testifies Marginson’s (2016c: 2) claim that ‘the research/non-research distinction always has positional implications’ and that ‘the weightiest distinction between higher education institutions derives from
comparisons of research intensity’. At the very top of the academic ladder of prestige, there are two universities, the only two ranked in ARWU (in the ranks 400–500 in 2016), comprising half of all faculties highly categorized across the system, and jointly collecting about 30 per cent of all research grants from the national research council.

Equity: Social Aspirations as Driver of Social Inclusion

The first proposition on equity (HPS Proposition 14) states that:

*As participation expands in the HPS phase, equity in the form of social inclusion is enhanced.*

The Polish HPS clearly follows the pattern. However, Poland is distinguished from the other HPS countries in this book in that historically speaking, the most significant aspect of social inclusion is the urban/rural divide (in 2015, 60.4 per cent of the population lived in cities, and 39.6 per cent in rural areas), as distinct from the internationally more common divide between parents with high and low level of education. The two divides do not coincide and therefore questions of social mobility in Poland are related to both.

URBAN/RURAL DIVIDE

In the pre-HPS period the social distribution of access to comprehensive universities favoured the children of the intelligentsia class. Between 1960 and 1990, of the three major social classes in the communist world, the rural class, worker class, and intelligentsia, the enrolment shares of the intelligentsia and worker classes steadily increased while the share of the rural class was decreasing (see Table 12.3). In the HPS period, the share of students from the rural areas has moved much closer to the share of the population living in the rural areas. About one-third of students in 2015 were of rural socio-economic origin (GUS, 2016: 26), compared to approximately 40 per cent of the population living in the rural areas. However, the social importance of the rural/urban

<table>
<thead>
<tr>
<th>Year</th>
<th>Rural (%)</th>
<th>Worker (%)</th>
<th>Intelligentsia (%)</th>
<th>Other (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1960</td>
<td>18.0</td>
<td>26.2</td>
<td>49.4</td>
<td>6.4</td>
</tr>
<tr>
<td>1970</td>
<td>15.5</td>
<td>29.9</td>
<td>50.3</td>
<td>3.5</td>
</tr>
<tr>
<td>1980</td>
<td>8.5</td>
<td>32.2</td>
<td>55.2</td>
<td>4.1</td>
</tr>
<tr>
<td>1988</td>
<td>6.2</td>
<td>31.7</td>
<td>59.3</td>
<td>2.8</td>
</tr>
</tbody>
</table>

Source: Author, data adapted from Wasielewski (2013).
divide continues. In 2013 the share of population with higher education credentials in cities was three times higher than in the rural areas, with 30.9 per cent in the cities and just 11.0 per cent in rural area. Four in every five graduates were living in cities, 82.6 per cent. The urban/rural divide also shows itself in current educational aspirations. While in the cities, 82.7 per cent of parents want higher education for their children, in rural areas that share is merely 64.6 per cent.

The third proposition on equity (HPS Proposition 16) states that:

*Within a national system, as participation expands in the HPS phase, all else being equal the positional structure of the higher education system increasingly resembles that of society... The HPS is increasingly implicated in the reproduction of existing patterns of social equality/inequality.*

No matter which institutional type is selected, the share of rural students (to use the urban rural divide) has substantially increased: of the students in polytechnics, 32.8 per cent were from rural areas in 2015, compared to 18.2 per cent in 1960 and 6.8 per cent in 1980. In comprehensive universities in 2015, 29.0 per cent were from rural areas, compared to 16.8 per cent in 1960 and 7.7 per cent in 1980 (Wasielewski, 2013: 34).

Surprisingly, rural access to higher education of the various institutional types was relatively high in 1960, decreasing in the 1960s, 1970s, and 1980s, with the lowest point in 1990, and then increasing again in the HPS era. Cross-sectional OECD data related to parental education show that the proportion of 20–34-year-olds in higher education whose parents have low levels of education in 2009 was 20.6 per cent, above the OECD average of 16.9 per cent (OECD, 2012: 102). Institutional-level studies indicate relatively stable patterns of selection of fields of study over time, with the constant more and less 'ruralized' fields (Wasielewski, 2013: 112–24). As in other Central and Eastern European countries, young people from lower socio-economic strata tend to choose Bachelor’s level studies, with a stronger market orientation, and in less demanding academic fields (Kogan et al., 2011: 336). In 2013, intergenerational social mobility in the urban/rural terms was much higher in Poland’s cities than the rural areas. In the cities almost half of the children of fathers without primary education reached higher education (46.2 per cent), as opposed to 5.5 per cent in the rural areas (CBOS, 2013a: 29).

**NO LIMIT TO ASPIRATIONS**

The HPS general Proposition 2 states that:

*In HPS there is no intrinsic limit to the spread of family aspirations for participation in higher education until universality is reached; and no intrinsic limit to the level of social position to which families/students may aspire.*
In the HPS era in Poland, the difference in educational aspirations between the highly educated and lower educated families has decreased substantially. Between 1993 and 2009, a period which saw the most rapid educational expansion, among parents with vocational education, the proportion of parents who wanted higher education for their sons increased by 29 per cent to reach 82 per cent (and the proportion of inhabitants of the rural areas increased by 26 per cent to reach 82 per cent). This partly closed the gap between vocational parents and parents with higher education (and between parents from the rural areas and big cities). Among parents with higher education, 97 per cent aspired to higher education for their sons, an increase of 5 per cent in 1993–2009 (and among parents from big cities, 93 per cent, an increase of 18 per cent, CBOS, 2009: 8). Positional competition in society tends to spread and total social demand for higher education is rising (Hirsch, 1976; Brown et al., 2011; Marginson, 2016a).

The tendency to HPS has a universal character and ‘the ambition for higher education now appears unstoppable’ (Marginson, 2016b: 266). It seems that also in Poland, higher education is increasingly important. Nevertheless, the last decade the share of population stating that it is ‘definitely worth it’ to ‘achieve education, to learn’ decreased radically, from 76 per cent in 2004 to 49 per cent in 2013 (see Table 12.4). This suggests possible educational disillusionment.

There is a significant difference between the pioneering HPS era of 1990s, when a growing labour market was open to all newly highly educated graduates, and the stable HPS era of the 2010s when the labour market was saturated with graduates. In the first decade of growth it seemed that anything was possible. Opportunities for those with higher education, combined with personal entrepreneurialism, were seen as unlimited. Since about 2000 there has been growing disillusionment in Poland as indicated by public opinion surveys. It also comes as a warning to the Polish HPS system that for 57 per cent of Poles surveyed in 2013, ‘in general, the higher education diploma has low value in the labour market’. And 78 per cent of those people surveyed confirmed that higher education is ‘mass, everyone can study’ (CBOS, 2013a: 2–7). One reconciliation of this tension between access for all, and the perceived value of higher education credentials, is to increase the vertical

<table>
<thead>
<tr>
<th>Table 12.4. The attractiveness of education, 1993–2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is it worth it currently in Poland to achieve education, to learn, or not?</td>
</tr>
<tr>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Definitely worth it</td>
</tr>
<tr>
<td>Rather worth it</td>
</tr>
<tr>
<td>Rather not worth it</td>
</tr>
<tr>
<td>Definitely not worth it</td>
</tr>
<tr>
<td>Hard to say</td>
</tr>
</tbody>
</table>

Source: Author, adapted from CBOS (2013b).
stratification of the system so that some credentials retain value. As discussed, the present reform agenda has a stratifying effect.

SELECTIVITY

Finally, the second proposition on stratification (HPS Proposition 12) states that:

*The tendency to institutional stratification is magnified by features common (though not universal) among HPS including (a) intensified social competition for the most valuable student places; (b) variable tuition charges; and/or (c) intensified competition between institutions.*

In Poland, social competition for the most valuable student places in most prestigious institutions is clearly increasing. However, as elsewhere in HPS, the intensity of that competition (which occurs in full-time taxation-financed studies in the public sector only) is highest in the traditionally least accessible faculties of law and, outside of comprehensive universities, the faculties of medicine in specialist universities. For instance, in 2016 there were on average 16.8 candidates per vacancy in medical studies. There are no admission tests or interviews and the scores from standardized national secondary education final exams are used instead. In 2016, the highest number of applications were filled for computing, management, law and psychology, the highest number of applications per vacancy was in four polytechnics (in Warsaw, Poznań, Gdańsk, and Łódź), followed by University of Warsaw. Thus the most valuable student places are located in selected metropolitan universities and polytechnics, in selected study programmes within these institutions. High selectivity in some faculties goes hand in hand with almost open access in numerous faculties even in most prestigious institutions. Dozens of study programmes are fully accessible to first-year students every year at comprehensive universities, including the two flagships. In other words, the primary social stratification of opportunity in higher education in Poland is centred on disciplines, but disciplines that are provided in specific institutional contexts.

Final Thoughts

Taking account of the continually growing family aspirations for higher education, which have been expressed by all socioeconomic strata in the post-1989 HPS era, the further expansion of participation seems unlimited. Given that the HPS in Poland has become transformed into a demand-driven system that is also highly stratified in the vertical sense, there seems to be no political, social, or economic rationale to keep anyone out of it.
However, while indeed there may be no limits to growth of the Polish HPS, there are clear limits in other components of what Marginson terms in Chapter 6 as the ‘specific social assemblage of family/state/education/economy with nationally distinctive features’, especially limits in the economy. The number of ‘bad jobs’ still exceeds the number of ‘good jobs’. For graduates this scarcity of middle class jobs seems still inevitable. Prestigious and well-paid jobs are limited in number in every society. As Brown and colleagues argue (2011: 135): ‘There are simply too many people wanting to make the same life journeys that depend on educational and occupational success.’ In Poland there is increasing social congestion in the competition for decent jobs. As the earlier cited public opinion surveys show, the HPS society is aware that new educational opportunities do not necessarily lead to new occupational opportunities, and the expectations from the 1990s cannot be met in the 2010s and beyond. In that respect, the Polish high participation society seems realistic.

Higher education on the one hand is a ‘positional advantage’ (Smolentseva, 2017) in a race for middle class jobs and lifestyles, and on the other a ‘defensive necessity’ (Hirsch, 1976: 51) in a competitive social environment. As Hirsch (p. 51) argues, ‘as the average level of educational qualifications in the labour force rises, a kind of tax is imposed on those lacking such qualifications, while the bounty derived from possessing a given qualification is diminished’ (p. 51). In the Polish case, the two approaches come together: the ‘how to win the race’ approach dominates when economy is good and the ‘how not to lose in the race’ approach applies when economy is bad. In the case of some jobs there is an internal competition between graduates, while in the case of other jobs there is an external competition between graduates and non-graduates, with the non-graduates inevitably losing out.

Middle class growth is probably the key to understand the evolution of the Polish HPS. The evolution of the middle class is in turn linked to the emergence of the post-industrial society and market economy, with a new distribution of jobs and prestige, totally unrelated to their once standard distribution under communism. Changes in the economy in the 1990s led to gradual changes in the social structure and, especially, in social aspirations, with not only the middle class but all social strata willing to do everything necessary to secure higher education credentials for their offspring. Every generation wants for its offspring at least the same level of affluence and prestige it has experienced, and higher education seems to be the best way to achieve these qualities, although not the only way. Arguably, a HPS in Poland was inevitable once the social structure became transformed by the 1990s’ economic changes. For a quarter of a century, when there were ever more graduates, returns from higher education remained high and growing, and the system continued to expand. While in the early HPS era economic factors probably mattered more in shaping demand for higher education, in the current more stable HPS era prestige-related factors, powerful social aspirations,
seem more important. The society is now realistic in its economic expectations from credentials.

**SIGNIFICANCE OF THE POLISH CASE**

Universities in Central and Eastern Europe have not been included in any of the major typologies of university governance and organization, such as those by Burton R. Clark (1983) and Robert Birnbaum (1988). The region, Poland included, finally seems to follow the global trend towards high participation. On the demand side, the advantage of participation over non-participation in higher education is becoming a social fact, social inclusion has expanded (even while educational and occupational competition for position has become harsher than ever before), and social demand and social aspirations for higher education are on the rise. All of this has been accompanied by changes on the supply side. There the elite universities are becoming more elite and, as Kerr's multiversities, they are garnering ever more prestige and ever more funding from all sources possible (Kwie 2018a). They are the winners in emergent post-2011 quasi-market resource allocation; and, though it is more difficult to measure (the proxy is KEJN scores) in the allocation of prestige. As elsewhere in HPS, the steep vertical hierarchy is reinforced by a permanent state-imposed and peer-run comparison of institutional research intensity.

In sum, the HPS propositions fit the Polish case very well: specifically, all the general propositions, and those on governance, horizontal diversity, and vertical stratification propositions provide conceptual guidance. However, in some cases, specific reservations need to be emphasized. The propositions that work only partially are equity ones, due to the post-2006 processes of contraction and de-privatization of the Polish system (Kwiek, 2016a). In terms of general propositions, the HPS period in Poland is accompanied by enhanced equity (HPS Proposition 1). Family aspirations for participation in higher education have been growing steadily, and the aspirational gap between the highly educated and lower educated families, and between the urban and rural families, has been closing steadily (HPS Proposition 2). While the system shows the signs of saturation and some disillusionment with education is reported, the long-term growth of the participation rate seems inevitable (HPS Proposition 3).

In terms of the HPS governance propositions, after 2009 the system was reconfigured on the basis of multi-level governance, with new intermediary coordinating institutions (HPS Proposition 4). Horizontal differences in institutional mission are still limited but with the increasing role of competitive research funding (from NCN) and research assessment exercise (by KEJN), a salient division between a group of more research-focused comprehensive universities and polytechnics on the one hand and a group of more teaching-focused and specialist universities on the other is growing. The
combination of high-to-low KEJN categories and ample-to-none NCN competitive research funding applied to faculties provide a new tool for the management of horizontal differentiation within both groups (HPS Proposition 5). New multi-level coordination through new intermediary bodies leads to enhanced horizontal differentiation. All institutions are increasingly subject to rigorous systems of reporting and the corporatist direction of reforms—in the context of a gradually implemented performance-based research funding system—is unmistakable (HPS Proposition 6).

Comprehensive multi-discipline and multi-function research universities tend to dominate in the Polish system: there has been a powerful concentration of public funding and infrastructural investments in major research universities, especially in the two national flagships (HPS Proposition 7). While the overall diversity of institutional profile and mission has decreased (HPS Proposition 8), the internal diversity of comprehensive universities has increased (HPS Proposition 9). Major comprehensive universities tend to attract ever more students in some faculties and ever more research funding in other faculties, with different faculties internally assuming different roles, leading to growing internal heterogeneity. All institutions compete in the newly created quasi-markets of public funding and strive for higher KEJN scores in the national parameterization and categorization exercise (HPS Proposition 10). However, the role of the private sector has been diminishing and its decline is linked to declining demographics, in sharp contrast to global trends (Kwiek, 2016d).

The bifurcation between traditionally elite research institutions and demand-absorbing mass institutions (HPS Proposition 11) is clear: research funding, research talents and opportunities, as well as all competitive and non-competitive funding categories, are concentrated in the former institutions, with two Polish flagships garnering about 30 per cent of all competitive research funding from the national research council (NCN) and comprising half of all exceptionally highly categorized (category A+) faculties in the system (KEJN). The most valuable student places are located in selected study programmes within elite metropolitan universities and polytechnics, and social competition for them intensifies (HPS Proposition 12). However, in contrast to global trends, there are no tuition fees and there is wide access to non-elite study programmes within elite institutions. In the Polish HPS, a middle layer of institutions tends to form (HPS Proposition 13), aspiring to move up the ladder of prestige and resources but with limited chances to join the first university league with entry tickets based purely on research intensity.

Poland also clearly follows the pattern of equity in the form of social inclusion being enhanced (HPS Proposition 14). The positional structure of the higher education system increasingly resembles that of society (HPS Proposition 16): the share of rural students (and of students from lower socio-economic classes) has substantially increased in the HPS period. However, a greater social inequality in educational
outcomes and social outcomes (HPS Proposition 15) was not observed, perhaps due to deeper social changes in Poland in the last two decades compared with other HPS systems except for Russia; the redistribution of educational opportunities and social opportunities, against the (HPS Proposition 17) proposition, seems to be still secured, perhaps due to a combination of declining demographics and a tax-based system in which educational opportunities are not limited by fees or class-based fee-/debt-aversion.

A HPS became the reality in Poland much faster than almost anywhere else, with still unclear consequences for the society, as well as for academic institutions. The conceptual framework of HPS explains what has happened in higher education in Poland since 1989, what may happen in the next few years, and why.

■ ACKNOWLEDGEMENTS

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