

Building a High-Quality Teaching Profession

LESSONS FROM AROUND THE WORLD



Background Report for the International Summit on the Teaching Profession

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Introduction

Teachers and school leaders are being challenged to transform educational outcomes, often under difficult conditions. They are being asked to equip students with the competencies they need to become active citizens and workers in the 21st century. They need to personalize learning experiences to ensure that every student has a chance to succeed and to deal with increasing cultural diversity in their classrooms and differences in learning styles. They also need to keep up with innovations in curricula, pedagogy and the development of digital resources.

The challenge is to equip all teachers, and not just some, for effective learning in the 21st century. This will require rethinking of many aspects, including: how to optimize the pool of individuals from which teacher candidates are drawn; recruiting systems and the ways in which staff are selected; the kind of initial education recruits obtain before they start their job and how they are monitored and inducted into their service and the continuing education and support they get; how their compensation is structured; and how the performance of struggling teachers is improved and the best performing teachers are given opportunities to acquire more status and responsibility.

In many high-performing education systems teachers do not only have a central role to play in improving educational outcomes, they are also at the centre of the improvement efforts themselves. In these systems it is not that top-down reforms are ordering teachers to change, but that teachers embrace and lead reform, taking responsibility as professionals. Also, in almost every country surveyed by OECD's Teaching and Learning International Survey (TALIS)¹, the large majority of teachers report that they are satisfied with their jobs and consider that they make a real difference in education. They also make significant investments in their professional development, both in terms of their time and often also in terms of money, an investment that goes hand-in-hand with teachers' reporting that they use a wider repertoire of pedagogic strategies in the classroom.

The *International Summit on the Teaching Profession* brings together education ministers, union leaders and other teacher leaders from high-performing and rapidly improving education systems² to review how best to improve teacher quality and the quality of teaching and learning. This background report, taking up the four themes of the summit in turn, presents available evidence about what can make teacher-oriented reforms effective, and highlights selected examples of reforms that have produced specific results, show promise or illustrate imaginative ways of implementing change. Of the four themes of the summit, the first three look at system features that shape particular aspects of teachers' professional careers. The fourth theme looks at process, and considers what can make reform effective. Specifically, the report considers:

- **How teachers are recruited into the profession and trained initially.** In face of widespread shortages that, in many countries, will soon grow as large cohorts retire, intelligent incentive structures are needed to attract qualified graduates into the teaching force. Pay levels can be part of this equation. However, countries that have succeeded in making teaching an attractive profession have often done so not just through pay, but by raising the status of teaching, offering real career prospects, and giving teachers responsibility as professionals and leaders of reform. This requires teacher education that helps teachers to become innovators and researchers in education, not just deliverers of the curriculum.



- **How teachers are developed in service and supported.** Surveys show large variations across and within countries in the extent of professional development. Not only the quantity but also the nature of this activity is critical. Often, the professional development of teachers is disjointed in one-off courses, while teachers in TALIS reported that the most effective development is through longer programs that upgrade their qualifications or involve collaborative research into improving teaching effectiveness. TALIS also shows that in expanding opportunities, teachers have often played a significant role in sharing the cost of development: those who did have tended to get more out of it, as did those who make development a collaborative activity, working together with colleagues to improve practices. A further issue related to supporting teachers in service is the extent to which their conditions of employment and their career prospects can be adapted to meet their needs and aspirations.
- **How teachers are evaluated and compensated.** Results from TALIS show that, at its best, appraisal and feedback is supportive in a way that is welcomed by teachers. It can also help lead to self-improvement and be part of efforts to involve teachers in improving schools. At present, most teachers do not feel that school leaders use appraisal to recognize good performance, which suggests that a key component of appraisal is appropriate training for those conducting the appraisals. A connected issue, which also requires sensitive handling, is the criteria used to link rewards with performance. Whatever system is used must be fair, based on multiple measures, and transparently applied in ways that involve the teaching profession.
- **How teachers are engaged in reform.** Fundamental changes to the status quo can cause uncertainties that trigger resistance from stakeholders; and without the active and willing engagement of teachers, most educational reforms fail. The chances for success in reform can improve through effective consultation, a willingness to compromise and, above all, through the involvement of teachers in the planning and implementation of reform. In moving beyond consultation to involvement, the reform process becomes oriented towards transforming schools into learning organizations, with teaching professionals in the lead.

While it is meaningful for the Summit to structure the discussion into the above four themes, the chapters in this background report should not be considered in isolation. In fact, their interdependence is key to understanding the nature of the policy and implementation challenges. For example, simply raising entrance standards for teachers will choke off the supply of teachers unless compensation and working conditions are aligned. Raising pay and changing working conditions alone will not automatically translate into improvements in teacher quality unless standards are raised. Teacher evaluation systems will have limited impact if they only relate to compensation but not professional development and career advancement. Giving teachers more autonomy can be counterproductive if the quality and education of the teachers are inadequate.

The background report was drafted by Andreas Schleicher, in consultation with the Summit co-sponsors, based on reports of the *OECD Program for International Student Assessment (PISA)*³ and the *OECD Teaching and Learning International Survey (TALIS)*⁴; OECD's comparative policy review *Teachers Matter*⁵; the reports of the ILO/UNESCO Committee of Experts on the Application of the Recommendations concerning Teaching Personnel; OECD's annual data collection *Education at a Glance*; OECD's report *Strong Performers and Successful Reformers*⁶; OECD's review of *Evaluation and Assessment Frameworks for Improving School Outcomes*⁷; OECD's study *Evaluating and Rewarding the Quality of Teachers - International Practices*⁸; OECD's report *Making Reform Happen*⁹ and the outcomes from the recent meeting of OECD Education Ministers in November 2010.



Chapter 1

RECRUITMENT AND INITIAL PREPARATION OF TEACHERS

Education systems face a demanding challenge in recruiting high-quality graduates as teachers, particularly in shortage areas. Various countries have employed a range of strategies to help them do so. Competitive compensation, career prospects, career diversity, and giving teachers responsibility as professionals are important aspects of this. Active recruitment campaigns can emphasize the fulfilling nature of teaching as a profession, and seek to draw in groups who might not otherwise have considered teaching. Where teaching is seen as an attractive profession, its status can further be enhanced through selective recruitment that makes teachers feel that they will be going into a career sought after by high-fliers. All this also requires initial education to prepare new teachers to play an active role in the design and running of education, rather than just following standardized practices.



Chapter 1

Recruitment and Initial Preparation of Teachers

MAKING TEACHING AN ATTRACTIVE CAREER CHOICE

Education systems can recruit high-quality teachers not just through adequate pay but also by providing an environment in which teachers work as professionals...

PISA shows that the best-performing education systems provide most of their students with the kind and quality of education that average performers provide only for a small elite. That requires them to provide excellent teaching for all students. In order to achieve this, national policy reviews show that they often aim to recruit their teachers from the same pool from which all their top professionals are recruited. But people who see themselves as candidates for the professions, and the working conditions enjoyed by professionals, may not be attracted to schools organized in prescriptive work environments that use bureaucratic management to direct their work.

Many education systems have therefore transformed the work organization in their schools by replacing administrative forms of management with professional norms that provide the status, pay, professional autonomy, and the high-quality professional education and responsibility that go with professional work. They also tend to provide effective systems of social dialogue. Finally, they provide attractive forms of employment that balance flexibility with job security and grant sufficient authority for schools to manage and deploy their human resources. In many education systems, these aspects tend to be the focus of explicit national or regional policies.

...and in doing so, must look carefully at the state of labor supply and demand, and consider strategies both to bring people into teaching generally and to address specific shortages.

Even where the recruitment of the most highly qualified graduates remains a challenge, policy makers tend to acknowledge that teaching quality is strongly affected by the pool of talent from which teachers are recruited. The pool from which an industry selects its professionals is influenced by some combination of the occupational status, work environment, sense of personal contribution and the financial rewards associated with a given profession. Teacher policy needs to examine these aspects closely, particularly in light of teacher shortages that many advanced economies already face and that will grow in the near future as large numbers of teachers reach retirement age.¹⁰ Even where general teacher supply and demand are in balance, many countries face shortages of specialist teachers and shortages in schools serving disadvantaged or isolated communities.

Policy responses are needed at two levels. The first concerns the nature of the teaching profession itself and teachers' work environment. These policies seek to improve the profession's general status and competitive position in the job market. The second involves more targeted responses to particular types of teacher shortage. It recognizes that there is not a single labor market for teachers, but a set of them, distinguished by school type and characteristics such as subject specialization.¹¹ Surveys of what teachers themselves value about their work also provide important insights into what needs to be emphasized in recruitment: the social relevance of teaching; working with young people; creativity; autonomy; and working with colleagues.

Various countries have shown that policy can have a significant impact on the attractiveness of teaching.

It is important to note that the status of the teaching profession is not just a static attribute of culture but has, in some countries, changed significantly. As shown in the boxes on Singapore (Box 1.1), England (Box 1.2) and Finland (Box 1.3), vigorous intervention that directly addresses the attractiveness of teaching compared



to other graduate professions can make a big difference. Interesting approaches towards recruitment pursued by some countries include:

- Promotional programs targeted at groups who are “non-traditional” entrants to teaching.
- Broadening selection criteria for new teachers, with the aim of identifying applicants with the greatest potential, including interviews, preparing lesson plans, and demonstrating teaching skills.
- Changing the role of seniority in determining teacher assignments, to avoid situations where new teachers are assigned to the more difficult and unpopular schools, further disadvantaging students there as well as potentially damaging teachers’ career development.
- For desirable teaching jobs, sometimes qualities that are harder to measure, such as enthusiasm, commitment and sensitivity to students’ needs, are given greater weight in applications, where these are seen to be more directly related to the quality of teaching and learning than the traditional emphases on qualifications and years of experience.

Box 1.1. Throughout Singapore, teaching talent is identified and nurtured rather than being left to chance

Singapore is notable for its comprehensive approach to identifying and nurturing teaching talent. Singapore carefully selects young people from the top one-third of the secondary school graduating class whom the government is especially interested in attracting to teaching and offers them a monthly stipend, while still in school, that is competitive with the monthly salary for fresh graduates in other fields. In exchange, these teachers must commit to teaching for at least three years. Strong academic ability is viewed as essential, as is commitment to the profession and to serving diverse student bodies. Interest in teaching is seeded early through teaching internships for high school students; there is also a system for mid-career entry, which is seen as a way of bringing real-world experience to students. Singapore keeps a close watch on occupational starting salaries and adjusts the salaries for new teachers accordingly. In effect, the country wants its most qualified candidates to regard teaching as just as attractively compensated as other professions.

After three years of teaching, teachers are assessed annually to see which of three career paths would best suit them – master teacher, specialist in curriculum or research or school leader. Each path has salary increments. Teachers with potential as school leaders are moved to middle management teams and receive training to prepare them for their new roles. Middle managers’ performance is assessed for their potential to become vice principals, and later, principals. Each stage involves a range of experience and training to prepare candidates for school leadership and innovation. In Singapore, young teachers are continuously assessed for their leadership potential and given opportunities to demonstrate and learn, for example, by serving on committees, then being promoted to head of department at a relatively young age. Some are transferred to the ministry for a period. Potential principals are selected for interviews and go through leadership situational exercises.





Last but not least, research shows that people who have close contact with schools – such as parents who assist in classrooms, or employers who have students in workplace learning programs – often have much more positive attitudes towards teachers than people with little direct contact. This suggests that building stronger links between the schools and the community can help to enhance the status of teaching. Teachers and school leaders can play a key role in strengthening connections with families and communities as part of effective learning. This can involve eliciting greater support from stakeholders with traditional expectations about teaching by communicating current knowledge about what makes learning effective. Personalized relationships with learners and their families can be part of this process, as can after-school and extra-curricular programs, support for families as learning environments, and making more explicit the links between formal learning and life after schooling.

Box 1.2. Reversing teacher shortages in the United Kingdom

The education authorities tackled a severe teacher shortage in England by addressing pay and work environment and launching a powerful recruitment campaign.

When it took office, the Blair administration faced one of the worst shortages of teachers in history. Five years later, there were eight applicants for every opening. To some extent this had to do with raising compensation significantly, as well as with important changes in teachers' work environment; but a sophisticated and powerful recruiting program played a very important part in the turnaround.

The recruitment campaign was launched with strong political and financial backing by the Training and Development Agency (TDA) in 2000. An extra GBP 150 million was allocated to employ leading international advertising and recruitment agencies to undertake extensive market research on the motivations and barriers to becoming a teacher and to develop award-winning marketing strategies. In addition, a new GBP 6 000 education bursary was offered to all trainees as a one-off, tax-free payment to support them through their education. A "golden hello" of up to GBP 4 000 was also introduced, with the full amount paid in shortage subjects such as math and physics.

By focusing on the idea of teaching "making a difference", the new campaign aimed to improve the status of teaching as a profession. It also emphasized the flexibility and diversity of the skills teachers acquire, the variety of routes into teaching, and the possibility of doing it as a "first career" before moving on to other things. The advertising approach was direct, encouraging people to call a national information line, which also allowed the TDA to collect data on people who were considering teaching and to target those with skills in shortage subjects, such as maths and physics students.

Within three months of the launch of the advertising campaign, the number of people calling the national teaching recruitment helpline tripled. By 2003/2004 the vacancy-to-employment rate halved to less than 1% for all subjects, with major gains in shortage subjects, such as mathematics, where the number of new recruits had almost doubled by 2005.

***Attractive conditions can improve morale, lower turnover and widen the teacher pool.***

Employers increasingly recognize the need to provide workers with a good work-life balance and opportunities to combine work with family responsibilities and other activities. Some countries allow part-time teaching or opportunities throughout the career to gain experience outside schools through sabbatical leave, extended leave without pay, and job exchanges with industry. Although all such initiatives involve costs, those costs need to be set against the benefits of lower staff turnover, improved morale, and introducing new knowledge and skills into schools.

Teachers' jobs can be more rewarding when teachers are genuinely engaged in improvement.

The essence of professional work can be seen as the acknowledgement that it is the professional, and not the supervisor, who has the knowledge needed to make the important decisions as to what services are needed and how they are to be provided. Organizations dominated by professionals are those in which there are fewer layers of management, workers are consulted on all matters of consequence, and workers have considerable discretion with respect to diagnosing client needs and deciding which services are appropriate to address those needs. Indeed, in many professions, and for many professionals, the worker is also the manager and, in many cases, the owner as well.

Box 1.3. Teachers and schools take on responsibility for reform in Finland

Finland has made teaching a sought-after occupation by raising entry standards and giving teachers a high degree of responsibility, including as “action researchers” to find effective educational solutions.

Finland has raised the social status of its teachers to a level where there are few occupations with higher status. University professors are among the most highly regarded of all professionals, and even the word for teacher is the same for school teachers as for university professors. In 2010, over 6 600 applicants competed for 660 available slots in primary school preparation programs in the eight universities that educate teachers, making teaching one of the most sought-after professions.¹⁴ As a result of this competitive climate, teaching is now a highly selective occupation in Finland, with highly skilled, well-trained teachers spread throughout the country.

While teachers in Finland have always enjoyed respect in society, a combination of raising the bar for entry and granting teachers greater autonomy over their classrooms and working conditions than their peers enjoy elsewhere has helped to raise the status of the profession. Finnish teachers have earned the trust of parents and the wider society by their demonstrated capacity to use professional discretion and judgment in the way they manage their classrooms and respond to the challenge of helping virtually all students become successful learners.

Since the 1980s, the Finnish system of accountability was redeveloped entirely from the bottom up. Teacher candidates are selected, in part, according to their capacity to convey their belief in the core mission of public education in Finland, which is deeply humanistic as well as civic and economic. The preparation they receive is designed to build a powerful sense of individual responsibility for the learning and well-being of all the students in their care. During their careers, they must combine the roles of researcher and practitioner. Finnish teachers are not only expected to become familiar with the knowledge base in education and human development, but are also required to write a research-based thesis as the final requirement for the Masters degree.



In education too, policy makers have often concluded that top-down initiatives alone were insufficient to achieve deep and lasting changes in practice because reforms focused on aspects that were too distant from the instructional core of teaching and learning; because reforms assumed that teachers would know how to do things they actually didn't know how to do; because too many conflicting reforms asked teachers to do too many things simultaneously; or because teachers and schools did not buy in to the reform strategy. Over the past decade, many education systems have granted significantly more discretion to school heads and school faculties,¹² something that teachers often refer to as a factor contributing to the attractiveness of the teaching profession, and something that PISA shows to be closely related to school performance, when combined with appropriate accountability arrangements.¹³ Finland (see Box 1.3) and Ontario (see Box 4.4) provide examples of how formerly centralized systems have shifted emphasis towards:

- improving the act of teaching;
- giving careful and detailed attention to implementation, along with opportunities for teachers to practice new ideas and learn from their colleagues;
- developing an integrated strategy and set of expectations for both teachers and students; and
- securing support from teachers and unions for the reforms.

In some countries, great discretion is given to the faculty, as a whole, and its individual members. In others, more discretion is given to schools that are doing well and less to those that might be struggling. In some countries, the school head is little more than the lead teacher; in others, the authorities continue to look to the school head to set the direction and manage the faculty.

Results from PISA suggest that an emphasis on professional responsibility at the frontline does not conflict with the establishment of centralized standards and assessments; rather, these go hand-in-hand¹⁵.

Recruitment measures can be adapted to bring in teachers from a wider range of backgrounds.

Countries are also trying to attract different types of people into teaching, not just to overcome shortages, but also to broaden the range of teachers' backgrounds and experiences. This includes promoting the benefits of a teaching career to groups who are often under-represented among teacher ranks, such as males and those from minority backgrounds.

The following are some examples of interesting techniques various countries use to do so:

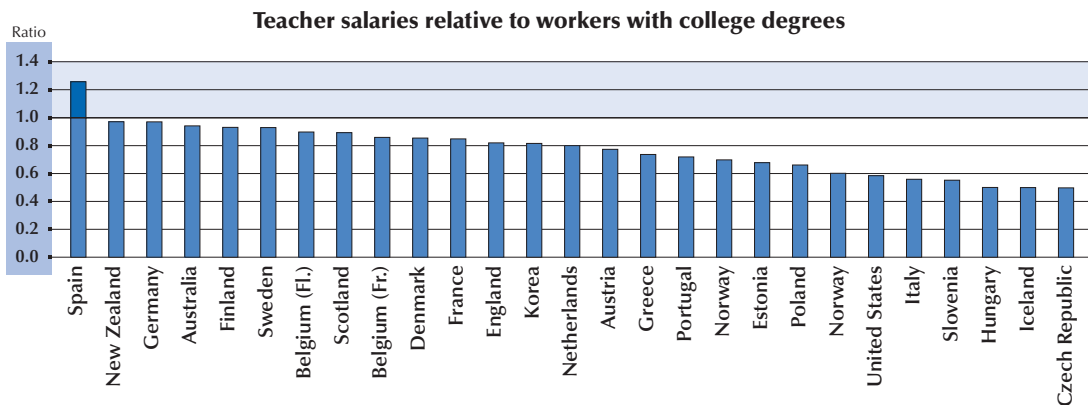
- Opening the teaching profession to individuals with relevant experience outside education, not just in vocational programs (whose teachers are required to have industrial experience in some countries).
- Recognizing the skills and experience gained outside education and reflecting those in starting salaries.
- Enabling appropriately qualified entrants, including mature student teacher trainees, to start working and earning a salary before acquiring teacher education qualifications.
- Offering more flexible approaches to teacher education that provide opportunities for part-time study and distance learning, and that give credits for relevant qualifications and experience. Such alternative pathways into teaching can be particularly appealing to under-represented groups, such as males and those from minority backgrounds.



Teachers are paid less than most college graduates, but selective incentives, flexibly applied, can use scarce resources to help attract teachers where needed.

Teachers' salaries increased in real terms between 1996 and 2008 in virtually all OECD countries, but tend to remain below those of other graduates (see Figure 1.0). Statutory salaries for teachers with 15 years of experience are, on average, below 80% of full-time earnings for 25-64-year-olds with tertiary education, and 60% or below in the Czech Republic, Hungary, Iceland, Israel, Italy, Slovenia and the United States.¹⁶ At the same time, other aspects of teachers' employment conditions, such as vacations, relative job security and pensions, are often more generous than in other occupations. OECD research suggests that where teachers' salaries are low relative to professions requiring similar qualifications, teacher supply appears to be quite price-elastic: for a given percentage increase in teachers' relative salaries, the supply of potential teachers increases by a greater percentage. In countries where teachers' salaries are already relatively high, teacher supply tends to be less elastic: a given percentage rise in salary produces a lower percentage increase in supply.¹⁷

Figure 1.1



Countries are ranked in descending order of the ratio of salary after 15 years of experience/minimum training to earnings for full-time full-year workers with tertiary education aged 25 to 64 (latest available year).

Source: OECD, *Education at a Glance 2010*, Table 3.1 (continued).

Nevertheless, the large size of the teaching workforce means that to raise salaries across-the-board by even a few percentage points is very costly. Furthermore, the teacher labor market is diverse, and teacher recruitment difficulties vary by type of school, subject specialization, and region. Also, in many countries the problems of teacher shortages and high turnover of staff are felt most acutely in schools that are already disadvantaged. Some countries are therefore targeting larger salary increases to schools with particular needs or teacher groups in short supply (see Chapter 3 below). For example, some targeted policy initiatives aim to attract teachers in subjects such as mathematics, science, technology, and vocational subjects.

Fee waivers, scholarships and forgivable loans are some of the financial incentives being provided to attract such people into teacher education; and salary bonuses and recognition of work experience are provided for those who already have the types of qualifications that are in short supply. Some countries provide substantial salary allowances for teaching in difficult areas, transportation assistance for teachers in remote areas, or bonuses for teachers with skills in short supply to help ensure that all schools are staffed with teachers of similar quality.

Also worthy of attention are non-salary strategies, such as lower class contact times or smaller classes, for schools in difficult areas or that have particular educational needs.



The best potential candidates need access to good teaching jobs.

All this said, policies to encourage more people to enter teaching are unlikely to pay off if high-quality candidates find it hard to gain teaching posts. The best candidates, who are likely to have good job prospects outside teaching, may not be willing to wait in a lengthy queue or endure a succession of short-term teaching assignments in difficult schools. Well-structured and -resourced selection processes and programs of induction that ensure that the best candidates get the available jobs are therefore critical. Reducing the weight given to seniority in ranking applicants for teaching vacancies can also help reduce the risk that new teachers will be disproportionately assigned to difficult schools.

ENSURING HIGH-QUALITY INITIAL TEACHER EDUCATION

High-performing countries have found ways of educating teachers to become more effective and play an active role in reform.

Initial teacher education varies significantly across countries, and it is beyond the scope of this report to assess related policies and practices. However, OECD research has identified some principles that are worth noting¹⁸:

- ***Education systems benefit from clear and concise profiles of what teachers are expected to know and be able to do in specific subject areas.*** Such profiles can guide initial teacher education, teacher certification, teachers' on-going evaluation, professional development and career advancement, and also help assess the extent to which these different elements are effective. The profiles can reflect the school's learning objectives and profession-wide understanding of what counts as accomplished teaching (see also Box 3.2).
- Many countries have moved their initial teacher education programs towards a ***model based less on academic preparation and more on preparing professionals in school settings, with an appropriate balance between theory and practice.*** In these programs, teachers get into classrooms earlier, spend more time there and get more and better support in the process. This can include both extensive course work on how to teach – with a strong emphasis on using research based on state-of-the-art practice – and more than a year teaching in a designated school, associated with the university, during which time the teacher is expected to develop and pilot innovative practices and undertake research on learning and teaching.
- ***More flexible structures of initial teacher education can be effective in opening up new routes into the teaching career, without compromising the rigor of traditional routes.*** The stages of initial teacher education, induction and professional development need to be interconnected to create a lifelong learning framework for teachers. In many countries, teacher education is not just providing sound basic training in subject-matter knowledge, pedagogy related to subjects, and general pedagogical knowledge; it also seeks to develop the skills for reflective practice and on-the-job research. Increasingly, initial teacher education tends to place more emphasis on developing the capacity of teachers in training to diagnose student problems swiftly and accurately and to draw from a wide repertoire of possible solutions those that are appropriate to the diagnosis. Some countries provide teachers with the research skills needed to enable them to improve their practice in systematic ways. For example, both in Finland (Box 1.3) and the Shanghai province of China (Box 1.4), teachers are trained to be action researchers in practice, with the ability to work out ways of ensuring that any student starting to fall behind is helped effectively.

In addition, some countries have moved from a system in which teachers are recruited into a larger number of specialized colleges of teacher education, with relatively low entrance standards, to a relatively smaller number of university-based teacher-education colleges with relatively high entrance standards and relatively high status in the university.

**Box 1.4. Preparing teachers to lead improvement in China**

Teachers are trained to be action researchers in effective practice, with the best teachers going on to support new teachers and helping to improve lesson quality.

The authorities in the Shanghai province of China emphasize giving prospective teachers the skills they will need for action research, and their method for improving their education system over time relies on research performed by teachers. As in Finland (Box 1.3 above), all students in Shanghai are expected to perform at high levels and teachers are expected to make sure that no student, literally, will be allowed to fall behind. This makes it essential that teachers identify students who are just beginning to flounder, diagnose the problem, and have the skills and knowledge needed to create a large and constantly updated reservoir of solutions to the student performance problems they have diagnosed.

During the course of their careers, teachers in Shanghai are involved in subject-based “teaching-study groups” to improve teaching at the grassroots level on a day-to-day basis. There are timetabled sessions when the study group will meet, often with related personnel, such as laboratory assistants, to draw up very detailed lesson schemes for a particular topic the following week. The lesson plan serves not only as a guide for the teacher during the lesson, but also as documentation of the teacher’s professional performance. During actual teaching, teachers may observe each other or may be observed by peers. For example, when a change in curriculum introduces a new teaching topic, teachers may be observed by new teachers, so these can learn from more experienced colleagues; by senior teachers, for mentoring purposes; or by the school principal, for monitoring or to provide constructive development assistance. Sometimes, teachers are expected to teach demonstration lessons, called public lessons, for a large number of other teachers to observe and comment upon.

This structured organization of teaching in Shanghai is not only a means for administration; it is also a major platform for professional enhancement. Teachers in Shanghai are classified into four grades that indicate their professional status. Promotion from one grade to the next often requires the capacity to give demonstration lessons, contribute to the induction of new teachers, publish in journals or magazines about education or teaching, and so forth. The provincial office often identifies the best of the teachers who emerge from evaluation processes and relieves them of some or all of their teaching duties so that they can give lectures to their peers, provide demonstrations, and coach other teachers on a district, provincial and even national level. Carefully picked schools are often asked to pilot new programs or policies before they are scaled-up, and the best teachers in those schools are enlisted as co-researchers to evaluate the effectiveness of the new practices.

The practices described here for Shanghai are similar in other East Asian countries. The East Asian countries taking part in PISA all provide interesting models for building on professional teacher collaboration to make the most of their top-performing teachers. The tradition of lesson study in these countries also means that Asian teachers are not alone. They work together in a disciplined way to improve the quality of the lessons they teach. That means that teachers whose practice lags behind that of the leaders can see what good practice is. Because their colleagues know who the poor performers are and discuss them, the poor performers have both the incentive and the means to improve their performance. Since the structure of the East Asian teaching workforce includes opportunities to become a master teacher and move up a ladder of increasing prestige and responsibility, it also pays the good teacher to become even better.



Chapter 2

TEACHER DEVELOPMENT, SUPPORT, CAREERS AND EMPLOYMENT CONDITIONS

Education is still far from being a knowledge industry, in the sense that its own practices are being continuously transformed by greater understanding of their efficacy. While in many other fields, people enter their professional lives expecting that what they do and how they do it will be transformed by evidence and research, this is still not generally the case in education. Transforming teaching does not just involve high-quality recruiting and initial education; it also requires that those who are now teaching adapt to constantly changing demands. Effective development of teachers in service demands both more and different forms of professional development and appropriate career structure and career diversity. Too often, courses are isolated events that are not joined up with changes in schools. More effective forms of development tend to be welcomed by teachers themselves, who are often willing to contribute to the cost of such education in money and time. Effective individual professional development sits alongside collective learning, with teachers exchanging ideas and collaborating to improve classroom practice; but this remains all too rare. The existing teaching force can be supported through flexible approaches to career development and employment conditions. While jobs for life are becoming increasingly rare, having opportunities to work part-time and to develop careers in new ways can help to improve the attractiveness of the profession.



Improvements must come partly through the transformation of the present teaching force, with teachers expected to be able to adapt to new knowledge and demands during their careers.

As important as the recruitment and selection of promising graduates is, it can only be one of several components of human resource management in education. The frequently cited claim that the best-performing education systems all recruit their teachers from the top-third of graduates - however that is defined - is not supported by evidence. Successful reform cannot wait for a new generation of teachers; it requires investment in the present teacher workforce, providing quality professional development, adequate career structures and diversification, and enlisting the commitment of teachers to reform (see also Boxes 4.1, 4.3, 4.4 and 4.5). The ILO/UNESCO Committee of Experts on the Application of the Recommendations concerning Teaching Personnel notes in its 2009 report that “Teaching career structures...are evolving to encourage better teaching practices and incentives for teachers to remain in teaching, but much more needs to be done to link teacher education and professional development, evaluation and career progression. Evidence from international surveys...point to a general lack of professional development support adapted to the needs of teachers and learners.”¹⁹

The following analysis looks at how the individual development of teachers can be improved and how greater collaboration among teachers can improve teaching quality.

MEETING THE NEED FOR PROFESSIONAL DEVELOPMENT

The requirements of teachers change continuously, so pre-service education is not enough, and...

In many countries, the role and functioning of schools are changing—and so is what is expected of teachers. They are asked to teach in increasingly multicultural classrooms. They must place greater emphasis on integrating students with special learning needs, both special difficulties and special talents, in their classes. They need to make more effective use of information and communication technologies for teaching. They are required to engage more in planning within evaluative and accountability frameworks. And they are asked to do more to involve parents in schools. No matter how good the pre-service education for teachers is, it cannot be expected to prepare teachers for all the challenges they will face throughout their careers.

... continuous professional development is needed to update skills and knowledge in a range of ways.

The development of teachers beyond their initial education can serve a range of purposes, including to:

- update individuals’ knowledge of a subject in light of recent advances in the area;
- update individuals’ skills and approaches in light of the development of new teaching techniques and objectives, new circumstances, and new educational research;
- enable individuals to apply changes made to curricula or other aspects of teaching practice;
- enable schools to develop and apply new strategies concerning the curriculum and other aspects of teaching practice;
- exchange information and expertise among teachers and others, e.g. academics and industrialists; or
- help weaker teachers become more effective.



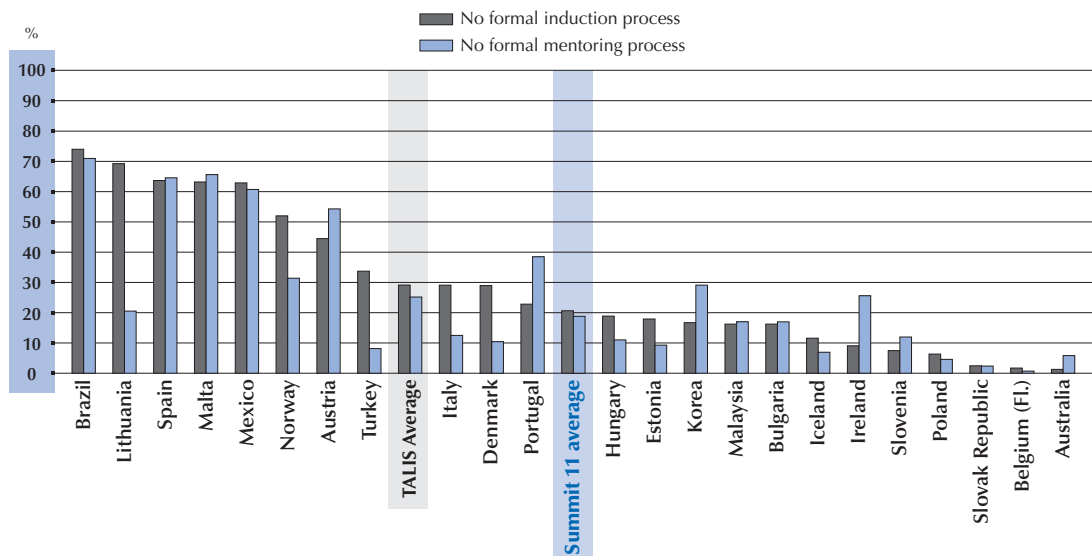
Several aspects have shown to be central to successful professional development.

In seeking to meet teachers’ professional development requirements, policy makers and practitioners need to consider both how to support and encourage participation and how to ensure that opportunities match teachers’ needs. This needs to be balanced with the cost in terms of both finance and teachers’ time. OECD research identifies several aspects as central to successfully bridging the gap between the ideal learning environment and day-to-day practice²⁰:

- Well-structured and -resourced induction programs can support new teachers in their transition to full teaching responsibilities before they obtain all the rights and responsibilities of full-time professional teachers. In some countries, once teachers have completed their pre-service education and begun their teaching, they begin one or two years of heavily supervised teaching. During this period, the beginning teacher typically receives a reduced workload, mentoring by master teachers, and continued formal instruction (Figure 2.1).
- Effective professional development needs to be on-going, include training, practice and feedback, and provide adequate time and follow-up support. Successful programs involve teachers in learning activities that are similar to those they will use with their students, and encourage the development of teachers’ learning communities.
- Teacher development needs to be linked with wider goals of school and system development, and with appraisal and feedback practices and school evaluation.
- There is often a need to re-examine structures and practices that inhibit inter-disciplinary practice and to provide more room for teachers to take time to learn deeply, and employ inquiry- and group-based approaches, especially in the core areas of curriculum and assessment.

Figure 2.1

Percentage of teachers without mentoring and induction



Countries are ranked in descending order of percentage of teachers in schools that do not have a formal induction programme.

Source: OECD, TALIS Table 3.6.



The extent of in-service teacher education varies greatly across and within countries...

In some countries, ongoing professional development already plays an important role. In the Chinese province of Shanghai, each teacher is expected to engage in 240 hours of professional development within five years. Singapore provides teachers with an entitlement of 100 hours of professional development per year to keep up with the rapid changes occurring in the world and to be able to improve their practice. More generally, results from TALIS show that across countries almost 90% of teachers participated in some form of professional development over an 18-month period and, on average, spent just under one day per month in professional development²¹ (see also Figures 2.2 and 2.3). However, there is considerable variation in the incidence and intensity of teacher participation in professional development both across and within countries;²² and older teachers tend to engage in less professional development than younger ones. The types of development undertaken by teachers explain some of these variations. Countries in which a high percentage of teachers take part in “qualification programs” or “individual and collaborative research” tend to have a higher average number of days of development but only a small minority of teachers tend to participate in these activities.

Box 2.1. Innovative teacher-preparation programs in the United States

Boston’s Teacher Residency is preparing high-flying graduates to fill shortages in the city’s schools.

The Boston Teacher Residency (BTR), established in 2003, is a teacher-preparation program that recruits high-performing college graduates and professionals and prepares them to teach in Boston schools. The program focuses on mastering the skills that teachers will need to be effective in the public schools in which teachers will work, emphasizing clinical training and pairing residents with experienced classroom teachers. Residents begin the program with a two-month summer institute, and then spend their first year in a classroom four days a week, spending the fifth day attending courses and seminars. This approach allows residents to master simultaneously both the theory and practice of teaching. After their first year, residents receive an initial teacher license and a master’s degree in education, and continue to receive support from BTR in the form of induction coaching, courses and seminars, and placement in collaborative clusters within schools. A study of the program’s impact on student achievement is underway, but early indicators of success include a rigorous recruitment and selection process in which only 13% of applicants are admitted, three-year retention rates of 85% (far above the U.S. average for urban schools), growth of the program’s outputs to fill 60% of Boston’s annual need for math and science teachers, and highly favorable reviews from school principals, with 96% of principals saying they would recommend hiring a BTR graduate to another principal. BTR recently received a USD 5 million “development” grant under the U.S. Department of Education’s Investing in Innovation Fund, which seeks to identify and scale-up promising and proven practices in teacher education and other priority areas.

Teachers consider better and more targeted professional development as an important lever towards improvement. TALIS data show that teachers’ participation in professional development goes hand-in-hand with their mastery of a wider array of methods to use in the classroom, even if it is not clear to what extent professional development triggers or responds to the adoption of new techniques. TALIS data also identify close associations between professional development and a positive school climate, teaching beliefs, co-operation between teachers and teacher job satisfaction.

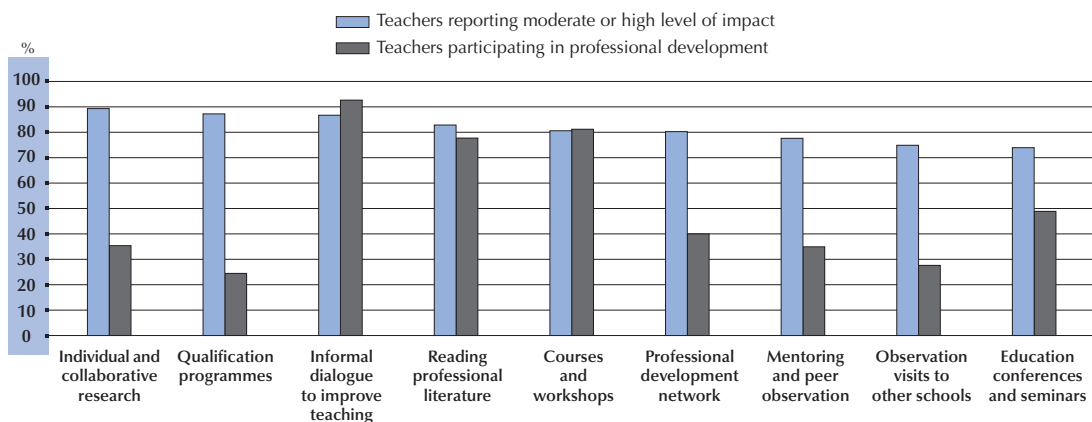


...but mostly still takes the form of one-off events rather than upgrading qualifications or collaborative research, which, teachers report, have the greatest impact.

However, schools and systems need to better match the costs and benefits of, and supply and demand for, professional development. Results from TALIS show that, across countries, relatively few teachers participate in the kinds of professional development that they believe has the largest impact on their work, namely qualification programs and individual and collaborative research, even if those who do commit considerable time and money to these courses consider them effective (see Figure 2.2). Conversely, the types of activities that teachers consider less effective, namely one-off education conferences and seminars, show comparatively high participation rates. This being said, research on how the incidence and intensity of different types of professional development activities influences learning outcomes is still limited.

Figure 2.2

Comparison of impact and participation by types of development activity



Activities are ranked in descending order of the percentage of teachers reporting a moderate or high impact of the professional development they took.

Source: OECD, TALIS Tables 3.2 and 3.8.

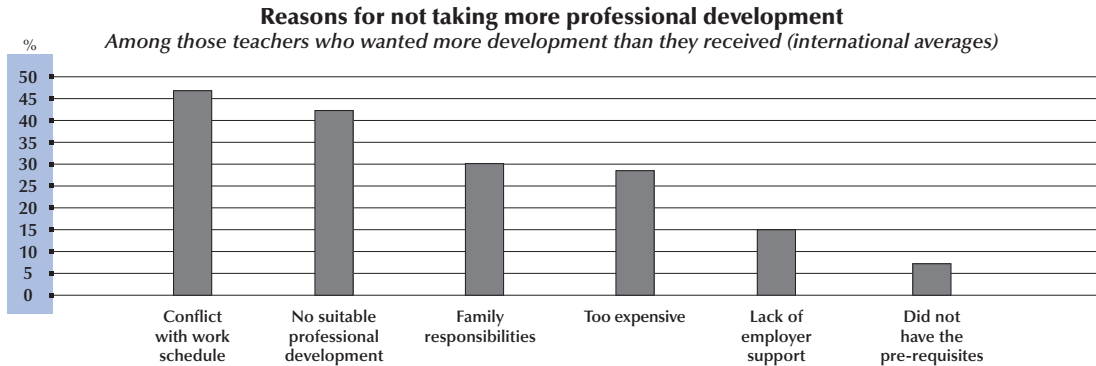
Teacher demand for professional development is often not met, sometimes for lack of time, sometimes for lack of opportunity...

Despite high levels of participation in development activities, the professional development needs of a significant proportion of teachers are often not fully met. The TALIS survey found that:

- Fifty five percent of the teachers surveyed reported that they wanted more professional development than they received during the 18-month survey period. The extent of unsatisfied demand is sizeable in every country, ranging from 31% to over 80%.
- Across countries, teachers who were more likely to report unsatisfied demand were in public schools, females and under 40 years of age.
- Across countries, the aspects of teachers’ work with greatest development need are “teaching special-needs students”, followed by “information and communication technology teaching skills” and “student discipline and behavior”.

What prevents teachers from undertaking as much professional development as they would like? The most common reason, cited by nearly half of teachers in TALIS, was conflict with their work schedule (Figure 2.3). However, almost as many cited the lack of suitable opportunities for professional development, and these teachers also generally engaged in less development activity.

Figure 2.3



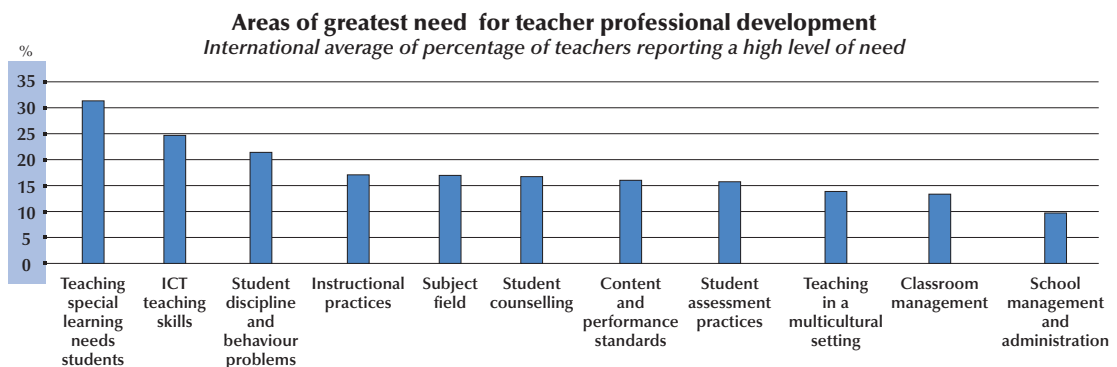
Reasons are ranked in descending order of frequency with which the barrier was reported by teachers.

Source: OECD, TALIS Table 3.7.

...and these shortfalls are likely to undermine the capacity of education systems to adapt to changing needs, especially in certain areas, like adopting ICT and serving students of varied backgrounds.

But it is not just a question of producing more of the same professional development. Teachers consistently reported that their greatest need for professional development was in learning how to handle differences in student learning styles and backgrounds, using information and communication technologies effectively, and improving student behavior (see Figure 2.4). These responses provide some direction on where future efforts should focus, and suggest that a sound assessment of provision and support of development is important.

Figure 2.4



Areas are ranked in descending order of the international average where teachers report a high level of need for development.

Source: OECD, TALIS Table 3.4.



Of course, a certain level of unsatisfied demand is to be expected; it is only natural that a certain proportion of teachers will, at some time, not feel fully equipped to carry out their work effectively. Nonetheless, the extent of unsatisfied demand appears large, and in some countries the great majority of teachers report that they need more professional development than they receive. The extent to which this undermines the effectiveness of these teachers is difficult to assess; but it is equally difficult to imagine that such deficits are not to some extent detrimental to effective teaching and learning. The cost of providing additional professional development needs to be seen in relation to the cost of not providing it, in terms of lost opportunities for students to learn.

Most professional development is provided free; but in some countries teachers who contribute financially tend to participate in and benefit more from these activities.

Even if there is no country in which the professional development of teachers is completely free, TALIS data indicate that teachers in most countries feel that the level of support they receive, in terms of finance and separately scheduled time in which to undertake development activities, is significant. In the participating countries, an average of around two-thirds of teachers pay nothing for these activities, and a similar proportion receive allocated time. Schools and public authorities clearly make a significant investment in teachers' professional development (see Figure 2.5).

The fact that a sizeable proportion of teachers underwrite the cost of their professional development is evidence that many teachers are contributing their share of the cost of advancing their career if they cannot find free programs of adequate quality. In fact, the data show that where teachers paid for their own professional development, they tended to participate in more of it: those who paid the full cost took over twice as many teacher-education courses as those who received them for free. This partly reflects the fact that courses that are paid for tend to lead to professional qualifications and are more time-consuming. This suggests that free provision is not necessarily the only way of stimulating participation, at least when teachers are seeking to further their careers and their earnings prospects, such as when they prepare for becoming head teachers, inspectors or teachers at a superior educational level.

FOSTERING AN ENVIRONMENT FOR EFFECTIVE TEACHER COLLABORATION

Teachers work together relatively rarely; but when they do, they tend also to work well with students.

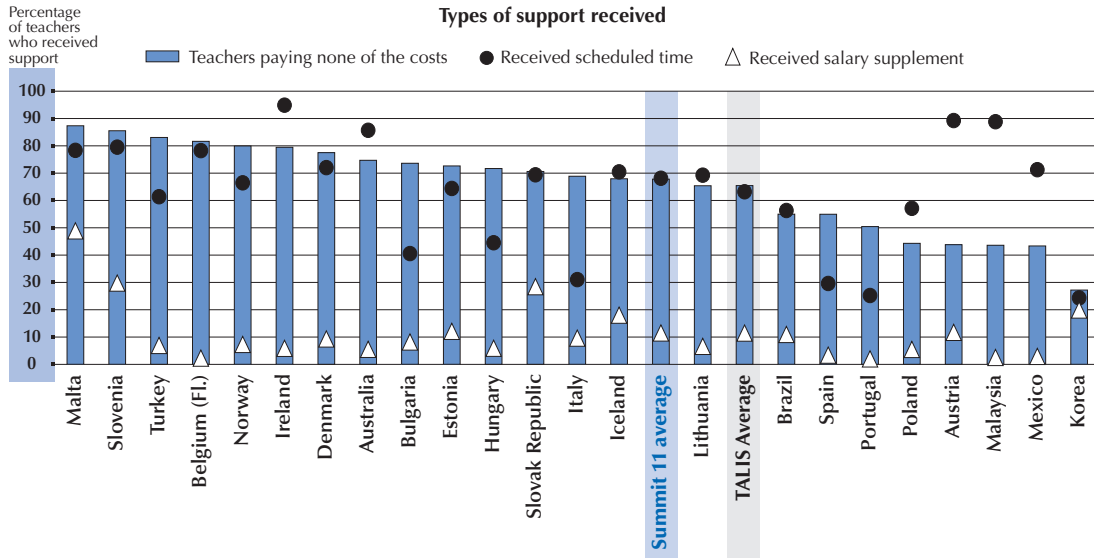
Teachers can do more, and should be encouraged to do more, to share their expertise and experience systematically in ways that go beyond the mere exchange of information. Teachers report relatively infrequent collaboration with colleagues within the school, beyond a mere exchange of information and ideas; direct professional collaboration to enhance student learning is rarer²³. Understanding that collaboration takes time, some countries are providing teachers with some scheduled time or salary supplement to encourage them to engage in such co-operation.

Teachers who exchange ideas and information and co-ordinate their practices with other teachers also report more positive teacher-student relations at their school. Thus, it may be reasonable to encourage teachers' co-operation in conjunction with improving teacher-student relations, as these are two sides of a positive school culture. Positive teacher-student relations are not only a significant predictor of student achievement, they are also closely related to individual teachers' job satisfaction (see Figure 2.6). This finding emphasizes the role of teachers' positive evaluations of the school environment for effective education and teacher well-being. Efforts to improve school climate are particularly important in larger public schools attended by students with low average ability. Several of the East Asian countries provide interesting models for building on professional teacher collaboration to make the most of their top-performing teachers (see Boxes 1.4 and 1.5 above).



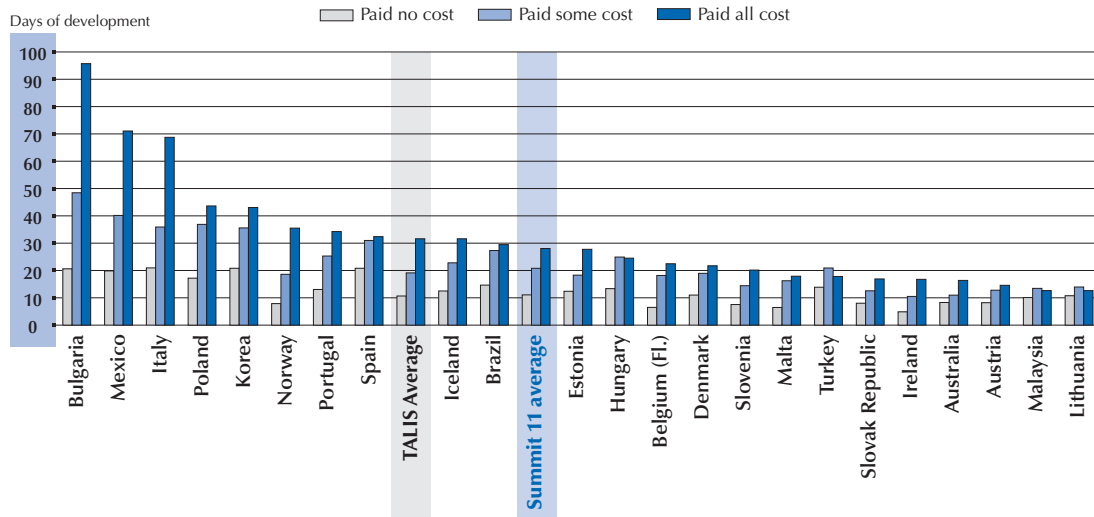
Figure 2.5

Support for professional development



Countries are ranked in descending order of percentage of teachers having paid none of the cost of professional development. Source: OECD, TALIS Table 3.5.

Average days of development taken by teachers according to personal payment level

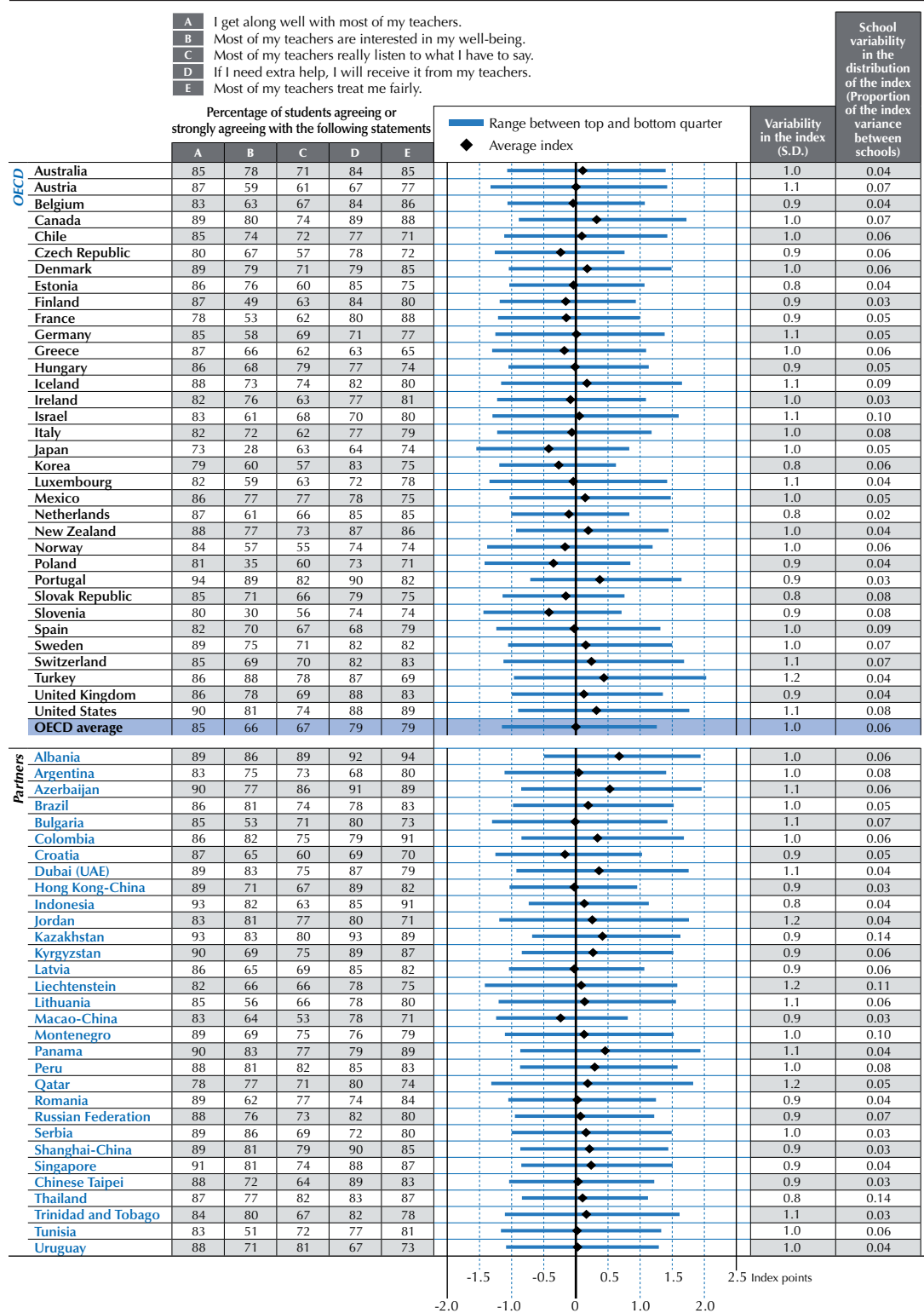


Countries are ranked in descending order of percentage of teachers having paid all of the cost of development they took. Source: OECD, TALIS Table 3.5a, available on line.

Figure 2.6

Students' views of teacher-student relations

Index of teacher-student relations based on the reports of 15-year-old students



Note: Higher values on the index indicate positive teacher-student relations.

Source: OECD, PISA 2009 Database, Table IV.4.1.

StatLink <http://dx.doi.org/10.1787/888932343418>





ESTABLISHING EFFECTIVE EMPLOYMENT CONDITIONS

Finding alternatives to guaranteeing teachers a job for life has not been easy.

The predominant model for teacher employment in OECD countries is “career-based” public service in which entry is competitive, career development is extensively regulated and lifetime employment is largely guaranteed.²⁴ In a situation where teachers are not commonly removed for unsatisfactory performance, the quality of teachers depends mainly on setting high standards of entering teacher-preparation programs, on the quality of their initial preparation, and on the attention given to the quality of their preparation following their initial induction. Under career-based systems, the risk is that the quality of the teaching force depends excessively on getting initial recruitment and teacher education right, and that any improvement over time will take many years to affect most serving teachers. Moreover, career advancement can become heavily dependent on adhering to organizational norms, which helps to ensure uniformity and predictability of service and a strong group ethos, but can make systems inflexible to change and ill-equipped to serve diverse needs in different settings.

In some countries, public servants are required to apply for specific positions by showing that their competencies match specific job requirements, rather than having a guaranteed career. However, this can increase recruitment and management costs, and make it harder to develop shared values and provide consistent service. Another approach has been to introduce more contract or temporary employment positions in parallel with career-based systems. This opens up possibilities for external recruitment, provides local managers with more scope for personnel decisions, and institutes management by objectives. However, the general experience in OECD countries is that it is not easy to graft features from a markedly different system onto a well-established employment model. Those in career-based systems who have met demanding entrance criteria and accepted relatively low starting salaries can feel threatened by a less predictable future. Those accustomed to professional status and autonomy derived from their specialist skills may feel threatened by moves to institute system-wide standards. OECD’s *Teachers Matter* study, PISA and the annual data collection *Education at a Glance* identify a number of trends in country reforms that are highlighted in the following.

In many successful systems, schools have become more involved in personnel management.

Successful enterprises often report that personnel selection is the most important set of decisions that they make. In the case of teaching, the evidence suggests that all too often the selection process follows rules about qualifications and seniority that bear little relationship to the qualities needed to be an effective teacher. The sheer size of school systems in many countries means that the process of teacher selection is often highly impersonal, and it is hard for teachers to build a sense of commitment to the schools where they are appointed – or for the schools to build a sense of commitment to them. Data from PISA suggest that many of the high-performing education systems have responded by giving schools more responsibility – and accountability – for teacher selection, working conditions, and development (see Figure 2.7).

OECD’s *Teachers Matter* study describes how school leaders in many of the best-performing education systems actively seek out and develop the best possible teachers and, with personal interviews and visits to schools by candidates, seek to optimize the match between applicants and school needs. The study suggests that such approaches work best where parallel steps are taken to ensure that accountability, efficiency and equity are not jeopardized, for example by developing school leaders’ skills in personnel management, providing disadvantaged schools with greater resources with which to recruit effective teachers, making information more accessible in the teacher labor market, and monitoring the outcomes of a more decentralized approach and adjusting accordingly. However, successful decentralization of personnel management, and school decision-making more generally, require that central and regional authorities help to ensure an adequate and equitable distribution of teacher resources throughout the country. It is also important to have independent appeals procedures to ensure fairness and protect teachers’ rights.

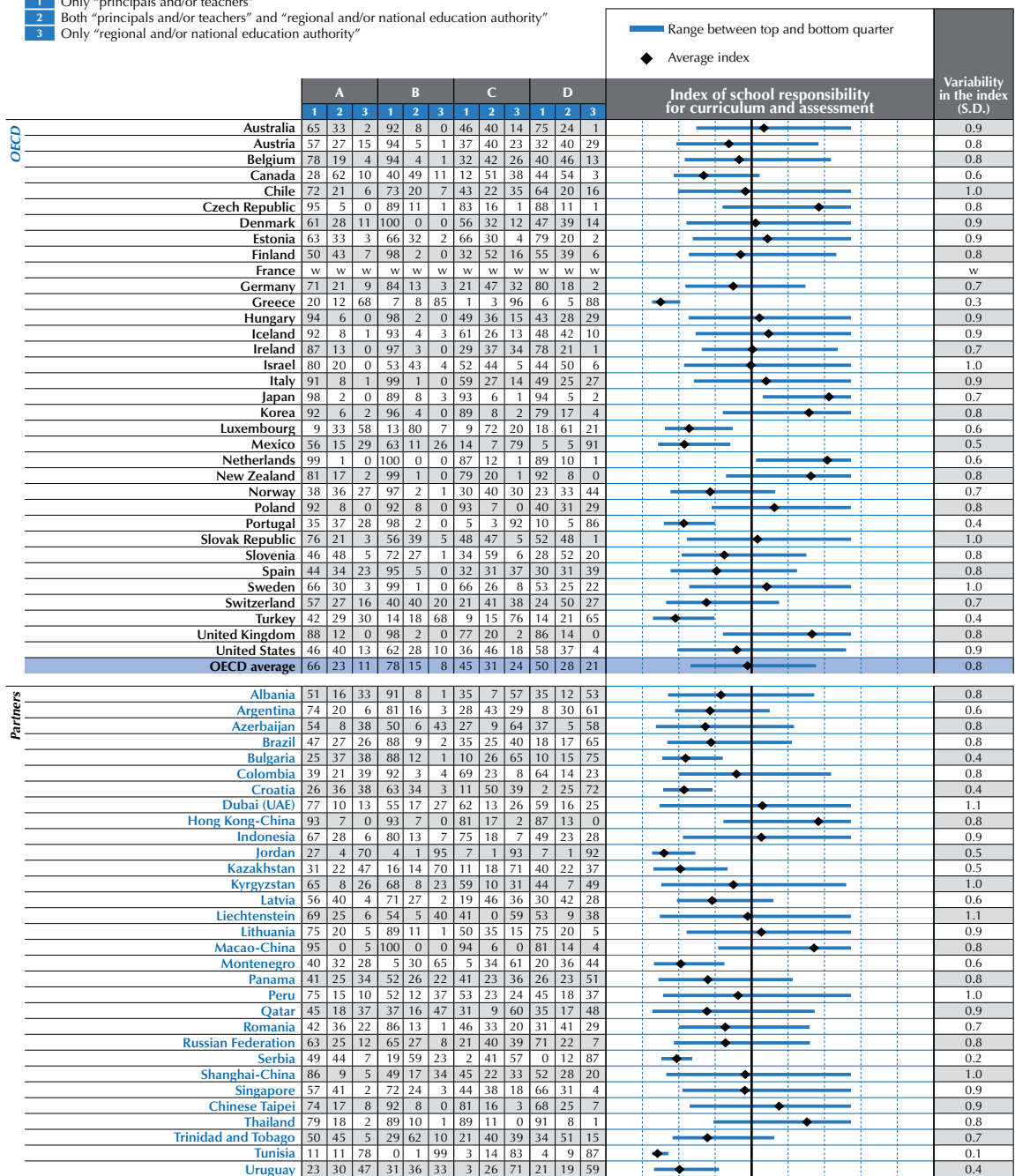
Figure 2.7 (2/2)

How much autonomy individual schools have over resource allocation

Percentage of students in schools of 15-year-olds in schools whose principals reported that only “principals and/or teachers”, only “regional and/or national education authority” or both “principals and/or teachers” and “regional and/or national education authority” have considerable responsibility for the following tasks.

- A Establishing student assessment policies
- B Choosing which textbooks are used
- C Determining course content
- D Deciding which courses are offered

- 1 Only “principals and/or teachers”
- 2 Both “principals and/or teachers” and “regional and/or national education authority”
- 3 Only “regional and/or national education authority”



Source: OECD, PISA 2009 Database, Table IV.3.6.
StatLink <http://dx.doi.org/10.1787/888932343399>

-2.0 -1.5 -1.0 -0.5 0 0.5 1.0 1.5 2.0 2.5 Index points





Part-time work, which is widespread in many countries, may best be authorized at school level, according to local requirements.

A desire for increased flexibility in the labor market, including to accommodate maternity/paternity leave, has led to increased part-time employment across many sectors of the economy, among them teaching. On average across OECD countries, about one in six teachers works on a part-time basis in public institutions at primary and lower secondary levels of education.²⁵ In some countries, part-time work is common among teachers: between one out of five and one out of three teachers in Australia, the Flemish Community of Belgium, Iceland, and New Zealand work part time, as do more than one-third of teachers in Norway and Sweden, and nearly half the teachers in Germany (primary education) and the Netherlands.

In the majority of OECD countries, part-time employment opportunities depend upon a decision taken at the school level or by local authorities/government; in five of the countries with the largest proportions of part-time employment, the decision is taken at the school level. Schools recognize that their teaching and school organization requirements change; and these countries have some flexibility in their teacher workforce that reflects the changing requirements of the schools.

Probationary periods can be crucial in ensuring that suitable people become teachers; but the length of these periods varies greatly across countries.

There is considerable evidence that some beginning teachers, no matter how well prepared and supported, struggle to perform well on the job, or find that the job does not meet their expectations. In a number of countries, a formal probationary process, combined with adequate teacher support, provides an opportunity for both new teachers and their employers to assess whether teaching is the right career for them.

In some countries, the successful completion of probation is acknowledged as a major step in the teaching career. Among 26 countries with comparable data in OECD's *Education at a Glance*, 16 countries have a mandatory probation period for teachers. This period usually lasts for one year, but in some countries (Greece, Luxembourg) it lasts for two years, and in Germany it can even be extended to three years. In seven OECD countries, teachers receive job tenure after completing their probationary period. In some countries, such as Austria, six years are necessary to achieve job tenure, whereas there is only a one-month probation period. In some countries a period of time is necessary to hold the tenure, even if there is no probation period. For example, a teacher needs six months to get tenure without any probation period in Mexico, two years to achieve tenure in Iceland, and three years in the Flemish Community of Belgium.

Education systems could become more dynamic if teachers became more mobile...

Limited mobility of teachers between schools, and between teaching and other occupations, can restrict the spread of new ideas and approaches, and result in teachers having few opportunities for diverse career experiences. It can also lead to an inequitable distribution of teachers, where teachers do not move from the most favored schools. In some cases the lack of mobility means that some regions of the country might have teacher shortages while others have an oversupply of teachers. In some countries, providing incentives for greater mobility and removing barriers are important policy responses. In countries with different educational jurisdictions, such as federal systems, the mutual recognition of teaching qualifications is crucial, as it ensures that entitlements to leave and retirement benefits move with the teacher. Recognizing the skills and experience gained outside education is also an important means of encouraging greater career mobility among teachers, as is providing flexible re-entry pathways to the profession. International mobility of teachers is also a growing phenomenon, raising issues of recognition of qualifications, certifications and procedures for recruitment and induction.²⁶



... and information flows in the teacher labor market were improved.

Given the large number of teachers and applicants involved in most school systems, it is often difficult and costly for employers to use extensive information when selecting candidates. It can be just as difficult for candidates for teaching positions to have precise information about the schools to which they apply, or even about broad trends in the labor market and the available vacancies. Such information gaps and limitations mean that many application and selection decisions are sub-optimal. The development of transparent and prompt systems to close the information gaps between teachers and schools is essential for an effectively functioning teacher labor market, especially where schools are more directly involved in teacher recruitment and selection. Some countries require all teaching vacancies to be posted, and create websites where the information is centralized or establish a network of agencies to co-ordinate and foster recruitment activities. Since imbalances in the teacher labor market can take a long time to be rectified, tools for monitoring and projecting teacher demand and supply under different scenarios can also help.

PROVIDING FOR ATTRACTIVE CAREERS

Teacher policy needs to ensure that teachers work in an environment that facilitates success and that encourages effective teachers to continue in teaching. There is concern in a number of countries that the rates at which teachers are leaving the profession are compounding school staffing problems and leading to a loss of teaching expertise. Also of concern is that teacher attrition rates tend to be higher in the first few years of teaching, while they decline the longer that teachers are in the profession, before they increase again as teachers approach retirement²⁷. This implies that large private and social costs are being incurred in preparing some people for a profession that they found did not meet their expectations, or that was insufficiently rewarding, or which they found difficult, or some combination of these factors. It underlines the importance for beginning teachers to participate in structured induction programs involving a reduced teaching load, trained mentor teachers in schools, and close partnerships with teacher education institutions, and for school systems to ensure that the criteria and processes used to allocate teachers to schools are designed such that new teachers are not concentrated in the more difficult and unpopular locations.

Box 2.2. Providing greater career diversity in Australia, England and Wales, Ireland and Quebec (Canada)

In *Australia*, teachers typically have access to a career structure that involves two to four stages, with annual salary increments within each stage. The stages normally range from beginning teacher to experienced teacher, to experienced teacher with responsibility (leading teacher) or learning area or grade-level co-coordinator, assistant principal, principal, and regional/district office positions. Advancement from one stage to the next, especially at the higher levels, usually requires applying for widely advertised vacancies. As they move up the scale, teachers are expected to have deeper levels of knowledge, demonstrate more sophisticated and effective teaching, take on responsibility for co-curricular aspects of the school, assist colleagues and so on. By “leading teacher” stage, they are expected to demonstrate exemplary teaching, educational leadership, and the ability to initiate and manage change.

In *England and Wales*, the new career grade of Advanced Skills Teacher (AST), introduced in 1998, is designed to provide an alternative route for career development for teachers who wish to stay in the classroom. Their role is to provide pedagogic leadership within their own and other schools.





Typically, they will spend 20% of their time in an “outreach” role supporting professional development of their colleagues, and teach in class for the remaining time. Teachers can take up an AST post at any point in their career, but in order to do so they must pass the AST assessment. They prepare a portfolio that shows how they meet the prescribed standards for the grade, which is evaluated by an external assessor. The assessor also interviews the applicants and observes their professional practice. In July 2004, some 5 000 teachers had passed the AST assessment. The intention is that the grade will ultimately form between 3% and 5% of the workforce.

Ireland has introduced four categories of promotion posts: Principal, Deputy Principal, Assistant Principal, and Special Duties Teacher. Each has special management duties and receives both salary and time allowances. In addition to classroom teaching, Assistant Principals and Special Duties Teachers have special responsibility for academic, administrative and pastoral matters, including timetabling arrangements, liaison with parents’ associations, supervising the maintenance and availability of school equipment, and so on. They are selected by a panel, which consists of a Principal, chair of the Board of Management, and an independent external assessor. Over the course of their careers, about 50% of teachers can expect to receive one of these positions.

In **Quebec**, experienced teachers can work as mentors for student teachers. Experienced teachers coach and guide the student teachers and undertake specific training. They receive either additional pay or a reduction in classroom teaching responsibilities. About 12 000 teachers participate in the mentor program. Some of these experienced teachers also have an opportunity to become co-researchers with university staff and to participate in collaborative studies on subjects such as teaching, learning, classroom management and student success or failure. In addition, experienced teachers may be released from some of their normal duties to provide support for less experienced colleagues.

Teaching careers are about more than pay.

Although attractive salaries are clearly important for making teaching more appealing and retaining effective teachers, OECD’s *Teachers Matter* study concludes that policy needs to address more than pay:

- Teachers place considerable emphasis on the quality of their relations with students and colleagues, on feeling supported by school leaders, on good working conditions, and on opportunities to develop their skills. Some countries are therefore placing greater emphasis on teacher evaluations to support improvement in teaching practice. While these evaluations are designed mainly to enhance classroom practice, they provide opportunities for teachers’ work to be recognized and celebrated, and help both teachers and schools to identify professional development priorities. They can also provide a basis for rewarding teachers for exemplary performance.
- Teaching careers can benefit from greater diversification, which can help meet school needs and also provide more opportunities and recognition for teachers. In most countries, opportunities for promotion and new responsibilities are generally limited for teachers who want to stay in the classroom. Promotions generally involve teachers spending less time in classrooms, and thus diminish one of the major sources of job satisfaction. Even for those who would like to take on more roles outside the classroom, in many countries, those opportunities are limited. Some countries are moving to open more career opportunities for teachers, spurred, in part, by the greater variety of school roles that have been delegated significant decision-making responsibilities. Examples from OECD countries (see Box 2.2) suggest that



greater career diversity can be achieved by creating new positions associated with specific tasks and roles in addition to classroom teaching, which leads to greater horizontal differentiation; and through a competency-based teaching career ladder that recognizes extra responsibilities, and which leads to greater vertical differentiation. In the latter, each stage is more demanding than the prior stage, involving more responsibilities, and is open to fewer people, but is accompanied by a significant rise in status and, often, compensation. The recognition that schools and teachers need to assume a greater range of tasks and responsibilities also calls for the creation of new roles, such as mentor of beginning and trainee teachers, co-coordinator of in-service education, and school project co-coordinator.

- Greater emphasis on school leadership can help address the need for teachers to feel valued and supported in their work. In addition, well-trained professional and administrative staff can help reduce the burden on teachers, better facilities for staff preparation and planning would help build collegiality, and more flexible working conditions, especially for more experienced teachers, would prevent career-burnout and retain important skills in schools.

Some countries use periodic reviews of teacher certification as an alternative to lifelong tenure.

As noted before, teachers are largely employed as public servants, and in a number of countries this is associated with tenured employment. While some may consider security of employment as an incentive to become a teacher, there may not be sufficient incentives or support systems for all teachers to continuously review their skills and improve their practice, especially where there are only limited mechanisms for teacher appraisal and accountability. Tenured employment can also make it difficult to adjust teacher numbers when enrolments decline or curricula change, and may mean that the burden of adjustment falls on those who lack tenure, commonly those near the beginning of their careers.

In some countries teachers need to renew their teacher certificates after a period of time, and often demonstrate that they have participated in on-going professional development and coursework to increase, deepen, and strengthen their knowledge. The basis for renewal can be as simple as an attestation that the teacher is continuing to meet standards of performance that are agreed throughout the teaching profession. Such systems must ensure an open, fair and transparent system of teacher appraisal, involving teaching peers, school leaders and external experts who are properly trained and resourced for these tasks – and who are themselves evaluated on a regular basis. Underpinning these models is the view that the interests of students will be better served where teachers achieve employment security by continuing to do a good job, rather than by regulation that effectively guarantees their employment. Periodic reviews also provide the opportunity to recognize and acknowledge quality teaching. Some countries also have fair but speedy mechanisms to address ineffective teaching. Teachers in these countries have the opportunity and support to improve but, if they do not, they can be moved either into other roles or out of the school system.



Chapter 3

TEACHER EVALUATION AND COMPENSATION

Teacher evaluation is essential for improving the individual performance of teachers and the collective performance of education systems. Designing teacher-appraisal methods is not easy, and requires the objectives of accountability and improvement to be carefully balanced. A crucial feature is what criteria teachers are appraised against, including, but not limited to, student performance. Also important are the degree to which teachers improve their professional skills and, crucially, the part they play in improving the school and system as a whole. In this way, evaluation and appraisal need to be well aligned with the process of system change. However, it is not enough to appraise the right things; the ways in which appraisal is followed through will determine its impact. At present, many teachers feel that appraisal has no or little consequence. School leaders need to become more skilled at using it intelligently, and evaluation needs to be more closely connected with career development and diversity. A specific issue is the extent and style of links between assessed performance, career advancement, and compensation. Whatever system is chosen, it must be well understood and transparently applied.



IN SEARCH OF AN EFFECTIVE TEACHER APPRAISAL SYSTEM

Teacher appraisal is advancing from checking whether teachers are doing their job to helping them improve.

The role of teacher appraisal has changed in recent years. Historically, in most countries it focused on monitoring to ensure adherence to centrally established procedures, policies and practices. In most education systems the focus has now shifted to how teacher appraisal affects learning outcomes (see Box 3.2).

New approaches to teacher appraisal seek to improve learning outcomes through fostering and targeting teacher professional development and holding teachers accountable...

Retaining effective teachers implies not only that all teachers have the opportunities, support and incentives to continue to improve and perform at high levels, but also that ineffective teachers do not remain in the profession. Some groups in public discussion want to focus mainly on the latter issue, to the detriment of the image and achievements of the large majority of teachers. Others do not want to acknowledge that this is a real problem.

Effective teacher appraisal can help to improve teachers' practices by identifying strengths and weaknesses for further professional development – the improvement function. This involves helping teachers learn about, reflect on, and adjust their practice. Teacher appraisal can also help to hold teachers accountable for their performance in enhancing student learning – the accountability function. This typically entails performance-based career advancement and/or salaries, bonus pay and, in some countries, the possibility of sanctions for underperformance. It also usually involves evaluating performance at nodal points in a teacher's career.

...but achieving both these aims simultaneously is challenging...

Combining the improvement and accountability functions into a single teacher-appraisal process raises many challenges, and comparative research on the effectiveness of different models is just beginning to emerge. For example, when evaluation is oriented towards improving practice within schools, teachers are typically willing to reveal their weaknesses, in the expectation that conveying that information will lead to more effective decisions on developmental needs and teacher education. However, when teachers are confronted with potential consequences of evaluation on their career and salary, they are less inclined to reveal weaknesses in their performance, and the improvement function, which builds on trust in the relationship between appraiser and the appraised, may be jeopardized. In practice, countries usually use some combination of these approaches that integrates multiple purposes and methodologies.

...and careful implementation.

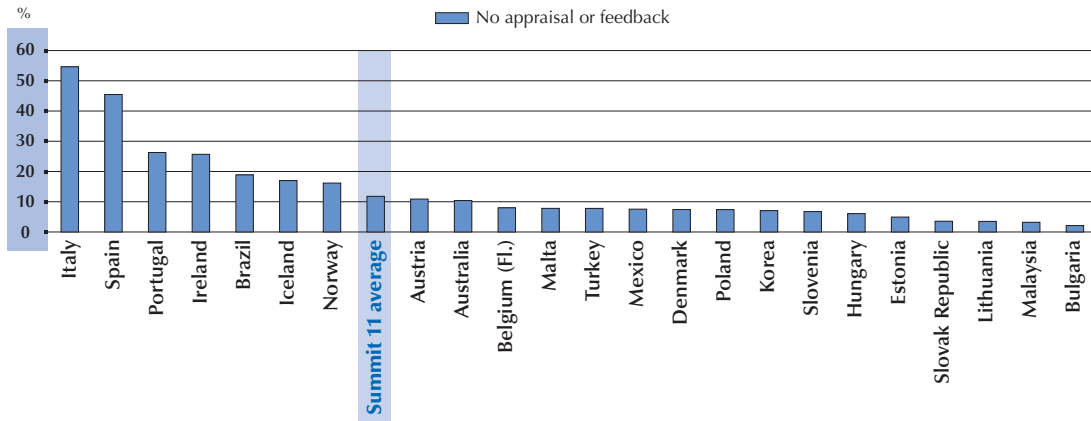
Any teacher-appraisal system needs to be implemented with care. This involves reconciling the diverging interests of stakeholders, carefully analyzing policy alternatives and their likely impact, and discussing them with stakeholders to aim towards consensus. Teachers can and do see appraisal and feedback in positive terms. For example, 80% of teachers in the TALIS survey reported that it was helpful in developing their work as teachers; and almost half of teachers reported that it led to a teacher-development or training plan to improve their teaching.²⁸ One way of ensuring that teachers see such evaluation in positive terms is to involve them in school evaluations, in particular by organizing school self-evaluations as a collective process in which teachers take responsibility.

Effective appraisal requires the development of considerable expertise in the system, including training evaluators, establishing evaluation processes and aligning broader school reforms, such as professional development opportunities, with evaluation and assessment strategies. All of these require considerable resources, including time.



Figure 3.1

Percentage of teachers without appraisal in the last 18 months



Countries are ranked in descending order of the percentage of teachers who have received no appraisal or feedback.

Source: OECD, TALIS Tables 5.1 and 5.3.

The criteria used to evaluate teachers center on learning outcomes, although they also assess significant inputs, such as teacher qualifications and the learning environment created in classrooms...

While improving student learning outcomes is the central objective of teachers' work, the quality of those outcomes is not the only measure of teaching quality. Across OECD countries, teachers are judged on a range of criteria, such as:

- teacher qualifications, including teacher credentials, years of service, degrees, certifications and other relevant professional development;
- how teachers operate in the classroom setting, including attitudes, expectations and personal characteristics, as well as strategies, methods and actions employed in their interaction with students; and
- measures of teacher effectiveness, based on an assessment of the degree to which teachers contribute to students' learning outcomes as well as their knowledge of their field and pedagogical practice (see also Figure 3.2).

Across countries, such criteria are assessed by a variety of instruments, including scores of standardized student assessments, classroom observation, student-generated ratings, peer ratings, school principal and/or administrator ratings, self-evaluation, teacher interviews and portfolios, parental ratings, competence-based tests, and other indirect measures.

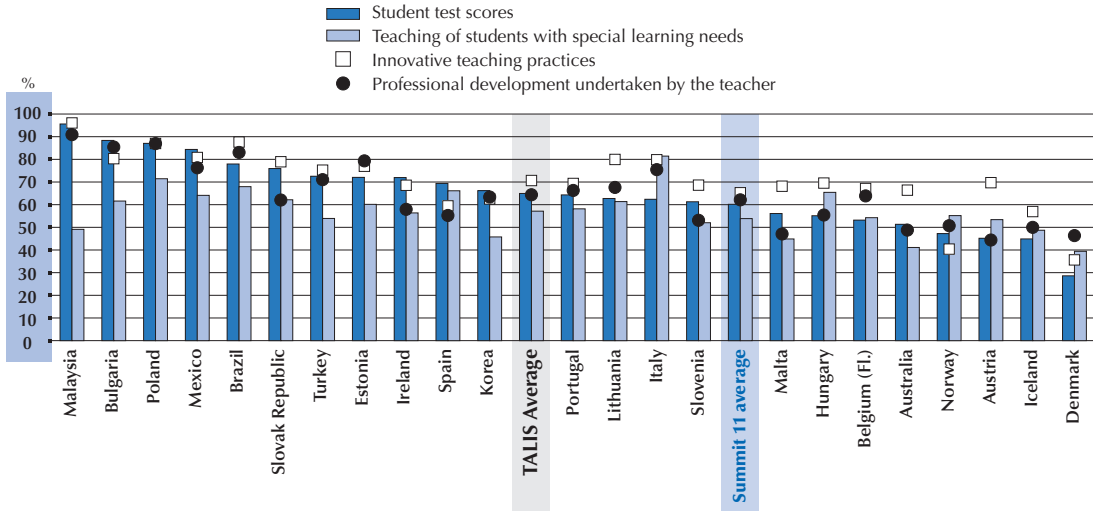
...but the key requirement is to align appraisals with system objectives and school evaluations.

These criteria need to be aligned with the objectives of the system and the schools. Aligning criteria for school evaluation with those for teacher appraisal and feedback can emphasize the importance of policy objectives at the school level and give teachers and school principals an incentive to meet such objectives.



Figure 3.2

Criteria for teacher appraisal and feedback



Countries are ranked in descending order of the importance of student test scores in teacher appraisal and feedback.

Source: OECD, TALIS Table 5.4.

MAXIMIZING THE IMPACT OF TEACHER APPRAISAL

Appraisal, feedback and evaluation still have limited impact, which could be improved.

While many countries have innovative teacher-appraisal systems, in some they are still relatively rare or have limited impact. One in five teachers surveyed in TALIS work in schools that had not had a self-evaluation in the past five years, and one in eight received no appraisal or feedback on their work during the prior 18 months (see Figure 3.1). Moreover, only a minority of teachers reported that appraisal and evaluation affects their professional development (one in four), their career advancement (one in six) or their pay (one in ten) (see Figure 3.3). Three-quarters reported that they would receive no recognition for improving the quality of their teaching, a similar number said that they would not be rewarded for being innovative, and only just over a quarter reported that teachers would be dismissed because of sustained poor performance (see Figure 3.4). These are particularly worrying shortfalls in school systems where teachers are being urged to find creative approaches to teaching in rapidly changing learning environments, yet are more likely to be rewarded for seniority, even if they are underperforming, than for self-improvement or innovation.

This suggests considerable scope for improving the impact of evaluation, appraisal and feedback. Experiences from some countries show that the link between appraisal and improvement can be low-key and low-cost, and that appraisal can include self-evaluation, informal peer evaluation, classroom observation, and structured conversations and regular feedback from the principal and experienced peers. In addition to celebrating quality teaching and identifying areas for improvement, appraisals can also provide a basis for rewarding good teachers. Time allowances, sabbatical periods, opportunities for school-based research, support for post-graduate study, or opportunities for in-service education are just a few examples of the kinds of rewards for exemplary performance that could be offered if budget constraints do not allow for raises in salaries.

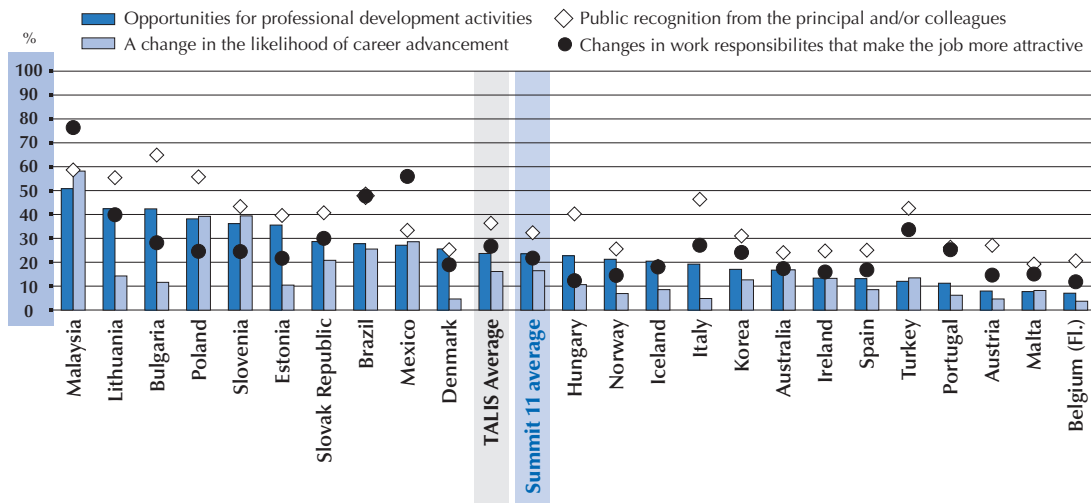


Improved appraisal and feedback can have beneficial effects on teachers, improving their job satisfaction and personal development as well as their effectiveness in implementing priorities for improvement.

Data from TALIS show that where teachers receive feedback on their work, they are more likely to find it fair than threatening. On average, eight in ten teachers surveyed in TALIS who received feedback thought it was fair, and in all countries but Korea that proportion was more than six in ten. More than three-quarters of teachers also considered it helpful for their work, while the majority said it improved their job satisfaction and development as teachers, without reducing job security. These findings are important, given fears that appraisal and feedback linked to accountability will undermine teachers. Moreover, appraisals can help teachers build confidence in themselves: the more feedback teachers in TALIS received on specific aspects of their work, the more they reported that they trust their own abilities in these areas. They also reported that appraisal leads to changes in the specific aspects of their teaching on which it focuses. In some cases, the focus of appraisal mirrored the areas emphasized in schools' evaluation, facilitating policy makers' efforts to set a framework to influence teachers' work, creating a coherent link between policy priorities and changes in teachers' work and teaching practices.²⁹

Figure 3.3

Impact of teacher appraisal on career



Countries are ranked in descending order of changes in teachers' opportunities for professional development activities.

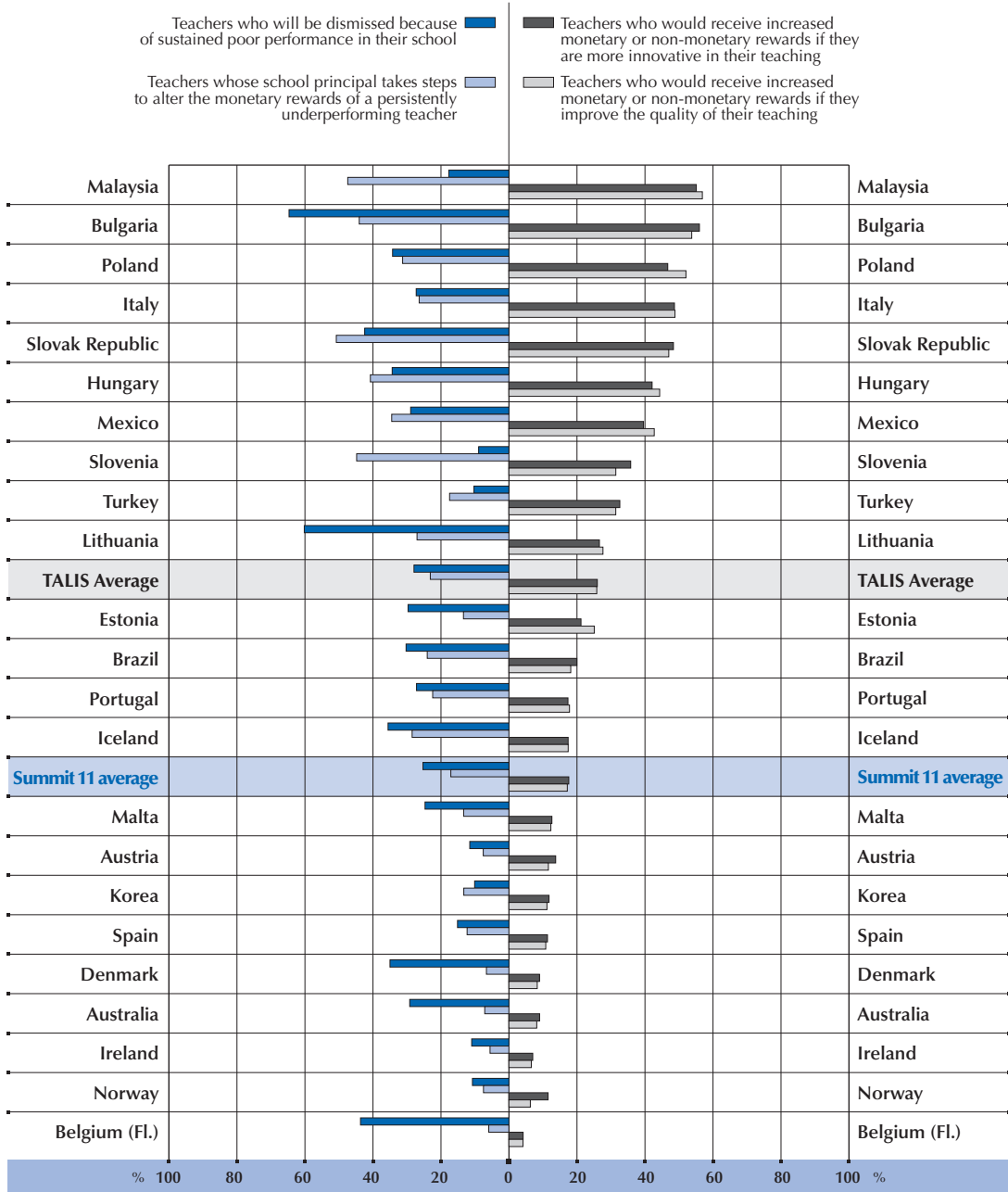
Source: OECD, TALIS Table 5.5.

Strengthening the system of teacher appraisal and feedback can also contribute to developing teaching skills within schools, according to teachers' reports. For example, greater emphasis on the framework for evaluating education in schools can strengthen links between school evaluations and teacher appraisal and feedback. The results of appraisal are often also used to plan the professional development of individual teachers. In turn, closer links with career progression have the benefit of addressing what teachers report as a severe lack of recognition for their development, and the perception that teachers' rewards are not properly linked to their effectiveness (see Figure 3.4).



Figure 3.4

Consequences of teacher performance as reported by teachers



Countries are ranked in descending order of percentage of teachers reporting to receive increased monetary or non-monetary rewards for an improvement in the quality of their teaching.

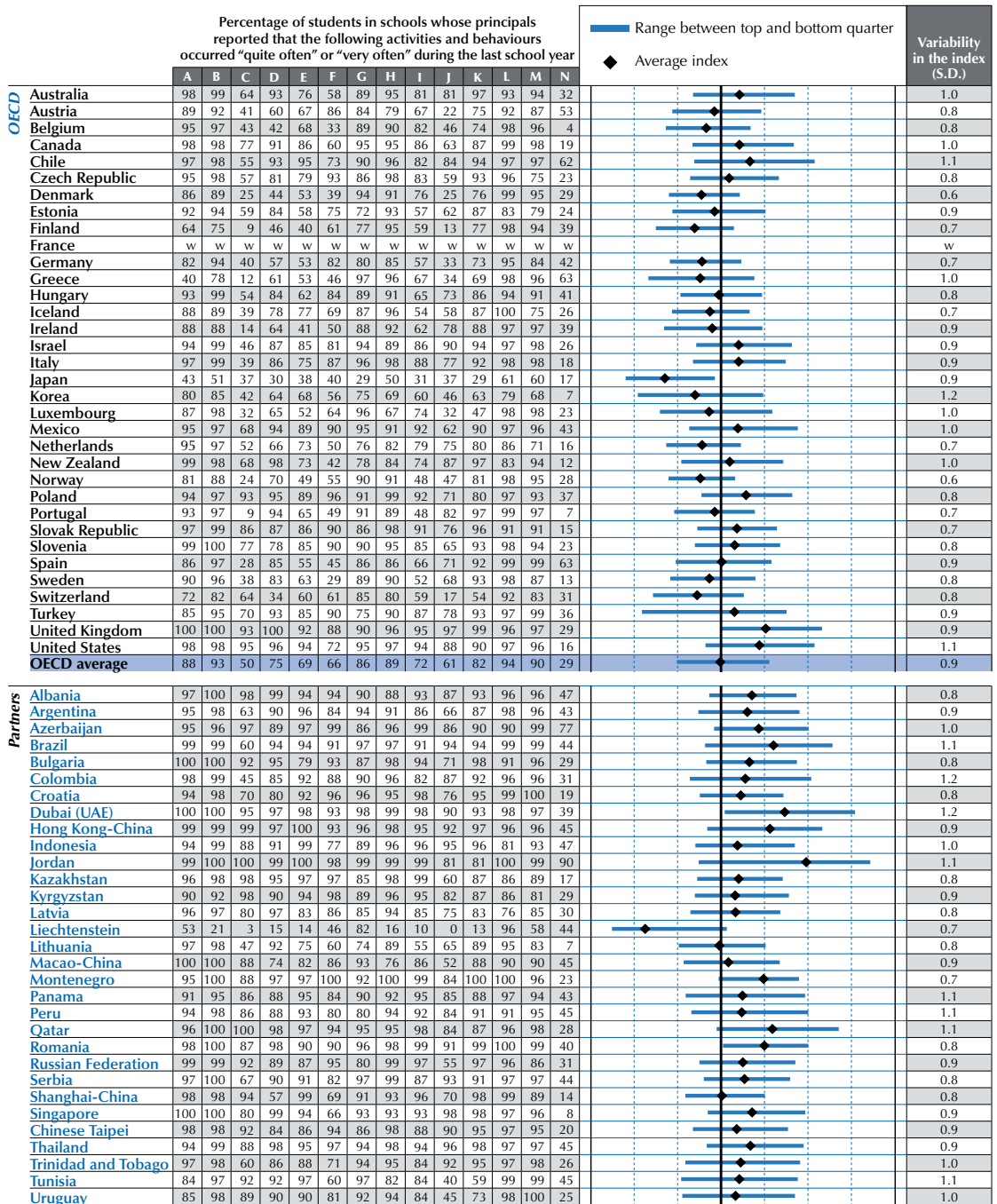
Source: OECD, TALIS Table 5.9.

Figure 3.5

School principals' views of their involvement in school matters

Index of school principal's leadership based on the reports of school principals of 15-year-old students

- A I make sure that the professional development activities of teachers are in accordance with the teaching goals of the school.
- B I ensure that teachers work according to the school's educational goals.
- C I observe instruction in classrooms.
- D I use student performance results to develop the school's educational goals.
- E I give teachers suggestions as to how they can improve their teaching.
- F I monitor students' work.
- G When a teacher has problems in his/her classroom, I take the initiative to discuss matters.
- H I inform teachers about possibilities for updating their knowledge and skills.
- I I check to see whether classroom activities are in keeping with our educational goals.
- J I take exam results into account in decisions regarding curriculum development.
- K I ensure that there is clarity concerning the responsibility for co-ordinating the curriculum.
- L When a teacher brings up a classroom problem, we solve the problem together.
- M I pay attention to disruptive behaviour in classrooms.
- N I take over lessons from teachers who are unexpectedly absent.



Note: Higher values on the index indicate greater involvement of school principals in school matters.

Source: OECD, PISA 2009 Database, Table IV.4.8.

StatLink <http://dx.doi.org/10.1787/888932343418>





All this shows that it is possible to overcome concerns about appraisal practices if the evaluation culture of schools and school systems is constructive, collaborative and formative. For policy makers, administrators, school principals and teachers, these findings highlight a dual benefit of appraisal and feedback, both to teachers personally and to the development of their teaching.

Effective teacher appraisal requires school leaders and others to develop new competencies...

Linking recognition and rewards to teacher effectiveness is not just a matter of carrying out appraisals but also of school leaders adopting effective methods for identifying good performance. The fact that nearly four times as many teachers say that their principal does not identify effective teaching as say that they have not recently been appraised indicates the need for follow-through. This underlines the fact that the effectiveness of teacher appraisal critically relies on ensuring that those who design evaluation activities, those who undertake them and those who use their results all have the skills required to do so. In particular, successful feedback mechanisms require those involved to be clear about their responsibilities and to develop the required competencies to carry out these roles.

Thus, competencies for using feedback to improve practice are vital to ensure that evaluation and assessment procedures are effective. Assessment for improving performance requires that actors, such as teachers, are included in the process of school development and improvement. As a result, it is appropriate to include training for evaluation in initial teacher education alongside the development of research skills. Similarly, the preparation to become a school leader is expected to include educational leadership, with some emphasis on feedback mechanisms (see Figure 3.5). Particular groups, such as inspectorates, are also in a good position to engage in modeling and disseminating good practice in areas such as school assessment and teacher appraisal.

...and good appraisal and feedback can contribute to the improvement of schools as learning organizations.

Teacher reports that appraisal and feedback has contributed to their development suggest that such systems also contribute to school improvement. Appraisal of teachers and subsequent feedback can help stakeholders to improve schools through more informed decision making. Such improvement efforts can be driven by objectives that consider schools as learning organizations that use evaluation to analyze the relationships between inputs, processes and outputs in order to develop practices that build on identified strengths and address weaknesses.

DESIGNING EFFECTIVE COMPENSATION SYSTEMS

Overall teachers' pay varies across countries...

As noted in Chapter 1, career advancement opportunities, salaries and working conditions are important for attracting, developing and retaining skilled and high-quality teachers and are intertwined. As teacher salaries represent by far the largest single cost in school education, compensation schemes are a critical consideration for policy makers seeking to maintain both the quality of teaching and a balanced education budget. Decisions on compensation involve trade-offs among related factors, such as ratios of students to teaching staff, class size, instruction time planned for students, and designated number of teaching hours. Data from PISA show that high-performing education systems tend to prioritize the quality of teachers, including through attractive compensation, over other inputs, most notably class size.



In a competitive labor market, the equilibrium rate of salaries paid to teachers across school programs and geographic regions of a country would reflect the supply of and demand for teachers. This is generally not the case in education, as salaries and other working conditions are often set centrally for all teachers – although this has been changing in some countries, notably Sweden, where the government now only sets a minimum starting salary and pay is negotiated between the principal and the teacher (see Box 3.1). In most countries, however, teachers' salaries and conditions remain policy-malleable factors that can affect whether the number of qualified teachers meets the needs of the system (see Boxes 3.3 and 3.4). As described in Chapter 1, teachers' salary levels vary considerably across countries but tend to remain clearly below other graduates' salaries.

Box 3.1. Individual pay in Sweden

In Sweden, pay is now negotiated between the principal and the teacher.

One of the most radical approaches to compensation systems has been implemented in Sweden, where the federal government establishes minimum starting salaries and leaves the decisions about individual teachers' salaries to be negotiated annually by the principal and the teacher. If the teacher requests assistance, the teachers' union can participate in the negotiation. In Sweden, the centrally bargained fixed-pay scheme for teachers was abolished in 1995 as part of a package designed to enhance local autonomy and flexibility in the school system. The government committed itself to raising teachers' salaries substantially over a five-year period, but on the condition that not all teachers received the same raise. This means that there is no fixed upper limit and only a minimum basic salary is centrally negotiated, along with the aggregate rise in the teacher-salary bill. Salaries are negotiated when a teacher is hired, and teacher and employer agree on the salary to be paid at the beginning of the term of employment. The individual negotiation involves: (1) teachers' qualification areas: teachers in upper secondary schools have higher salaries than teachers in compulsory schools or teachers in pre-schools; (2) the labor market situation: in regions where teacher shortages are more acute, teachers get higher salaries; the same occurs for certain subjects like mathematics or science; (3) the performance of the teacher: the collective central agreement requires that pay raises be linked to improved performance, allowing schools to differentiate the pay of teachers with similar tasks; and (4) the range of responsibilities of teachers: principals can reward teachers if they work harder and take up more tasks than generally expected.

There is now much greater variety in teachers' pay in Sweden, with those teachers in areas of shortage and with higher demonstrated performance able to negotiate a higher salary. The scheme is underpinned by a system of central government grants to ensure that low-income municipalities are able to compete effectively for teachers and other staff in the service sectors of the municipality. Sweden, with its individual teacher pay system introduced in 1995, provides an interesting example of a country that has attempted to combine a strong tradition of teacher unionism and consultative processes with opportunities for flexible responses and non-standardized working conditions at the school level. The system was at first strongly contested by unions and teacher organizations, but now enjoys an over 70% approval rate among unionized teachers.



Box 3.2. Identifying and certifying outstanding teachers

In the United States, the National Board for Professional Teaching Standards has established standards.

The National Board for Professional Teaching Standards (NBPTS) was created in 1987, on the recommendation of the Carnegie Task Force on Teaching as a Profession, to “establish high and rigorous standards for what accomplished teachers should know and be able to do”. The goal of Board Certification, modeled on that in other professions, was to identify and certify outstanding teachers, provide a framework for teacher professional development and create a system through which outstanding teachers could receive salary supplements and be available for new roles in schools. The Board was developed with the active support of the American Federation of Teachers and the National Education Association and now has certificates in 25 fields, defined by subject matter and developmental level. Teachers complete ten assessments over a period of more than a year, including portfolios of student work, videos of classroom practices, examples of impact on student learning, review by peers, expert evaluations, and assessments of subject-matter knowledge. Today, more than 90,000 teachers have taken National Board Certification. Thirty-two states and more than 700 districts provide fee support or salary supplements. A Congressionally mandated review of studies of the effectiveness of NBPTS teachers found teachers who earned NBPTS certification tended to be more effective than teachers who had not earned NBPTS certification, although it did not establish a causal relationship. It concluded that existing research “neither proves nor refutes” the idea that pursuing NBPTS certification leads to improvements in effectiveness. A number of other countries are now looking at the NBPTS standards and processes as a potential model.

Box 3.3. Linking pay to work

In Denver, Colorado, teachers get additional pay linked to factors such as professional improvement, good evaluation and student progress.

Denver’s Professional Compensation (ProComp) system was initially developed by a joint task force of district, union and community representatives. This work began in 2002, and the group’s proposal was accepted by a vote of teachers in 2004. The program began with local funding, and then started to receive federal funds under the Teacher Incentive Fund program in 2006. As part of the ProComp system, teachers receive additional compensation based on several factors, including (1) teacher knowledge and skills, as obtained through targeted professional development; (2) high evaluation ratings; (3) teaching in high-need schools and subjects; and (4) demonstrated student growth, both at the classroom and the whole-school level. District and union leadership report ongoing collaboration both to improve the ProComp system and to improve results in the district in general. A recent study published by the University of Colorado at Boulder found a strong impact on student achievement, with improvements in teacher effectiveness leading to improved learning outcomes and increases in teacher retention. The federal government continues to support innovative approaches to teacher evaluation, compensation, professional development, and career advancement through the recently expanded Teacher Incentive Fund program.



...as does the structure of salary rewards, especially in terms of how salaries increase in the course of a career...

Comparing salary levels at different points in a career indicates how pay progresses through teachers' careers. Some countries concentrate salary increases early in the career, some save higher rewards for more experienced employees, while for others progress is steady throughout a career³⁰. There is some evidence that a sizeable proportion of teachers and school administrators do not want to move into higher positions in the hierarchy in schools, such as school principal. This may be because the negative aspects of a promotion outweigh positive aspects, such as increased salaries, prestige and other rewards. If this is the case, then the promotion can be made more attractive either by changing the duties and requirements of the position or by changing the salary and other rewards.

Deferred compensation is a key incentive for workers in many industries. This rewards employees for staying in organizations or professions and for meeting established performance criteria. Some form of deferred compensation exists in the teachers' salary structures of most countries. In OECD countries, statutory salaries for primary, lower and upper secondary general teachers with 15 years of experience are, on average, 38%, 39% and 43% higher, respectively, than starting salaries. Furthermore, the increases from starting salary to the top of the salary scale are, on average, 71%, 70% and 74%, respectively.³¹

The number of years it takes for a teacher to advance through the salary scale also varies substantially across countries. In lower secondary education, teachers in Australia, Estonia, Denmark, New Zealand and Scotland reach the highest step on the salary scale within six to nine years. Monetary incentives therefore disappear relatively quickly compared to other countries. If job satisfaction and performance are determined, at least in part, by prospects of salary increases, difficulties may arise as teachers approach the peak in their age-earnings profiles.

A number of countries have both steep and flat rises in teachers' salaries that vary across teachers' tenure. For example, teachers in Germany and Luxembourg have an opportunity for similar salary increases in the first 15 years, but then face very different growth rates. In Luxembourg salaries rise faster, while in Germany increases are relatively small. Policy makers in these countries thus need to consider how to retain the more experienced teachers.

...as do additional payments, whether linked to extra responsibilities, family status, or performance.

In addition to basic pay scales, school systems increasingly offer additional payments or other rewards for teachers (see Figure 3.6). These may take the form of financial remuneration and/or reduction in the number of teaching hours. In some cases, such as in Greece and Iceland, long service is rewarded by reductions in teaching hours. In Portugal, teachers may receive a salary increase and a reduction in teaching time during the time they carry out special tasks or activities, such as educating student teachers, guidance counseling, etc. Together with the starting salary, such payments may affect a person's decision to enter or stay in the teaching profession. Additional payments early in a career may include family allowances and bonuses for working in certain locations, and higher initial salaries for higher-than-minimum teaching certification or qualifications, such as qualifications in multiple subjects or certification to teach students with special educational needs. Data on additional payments³² fall into three broad areas:

- those based on responsibilities assumed by teachers and on particular conditions (e.g. additional management responsibilities or teaching in high-need regions, or disadvantaged schools);
- those based on the family status or demographic characteristics; and
- those based on teachers' qualifications, teacher education and performance (e.g. higher than the minimum qualifications and/or completing professional development activities).

Figure 3.6 (1/2)

Criteria for additional payments in public institutions

	Experience			Criteria based on teaching conditions/responsibilities						
	Years of experience as a teacher			Management responsibilities in addition to teaching duties	Teaching more classes or hours than required by full-time contract	Special tasks (career guidance or counselling)	Teaching in a disadvantaged, remote or high cost area (location allowance)	Special activities (e.g. sports and drama clubs, homework clubs, summer school, etc.)	Teaching students with special educational needs (in regular schools)	Teaching courses in a particular field
OECD										
Australia	–			–					▲	
Austria	–	▲			▲			▲		
Belgium (Fl.)	–					△				
Belgium (Fr.)	–							△		
Chile	m	m	m	m	m	m	m	m	m	m
Czech Republic	–	▲	△	–	▲	△	▲	△	–	▲
Denmark	–	▲	△	–	▲	△	▲	△	–	▲
England	–	▲	△	–	▲	△			–	▲
Finland		▲		–			▲	△	–	▲
France	–				▲	△	▲	△	–	▲
Germany	–			–			△			
Greece	–				▲		▲		▲	
Hungary	–				▲		▲		△	
Iceland	–	▲	△	–	▲	△	–	▲	△	–
Ireland	–	▲	△	–	▲				–	
Italy	–				△			△		
Japan	–				▲			▲		
Korea	–				▲				▲	▲
Luxembourg	–				△		△		–	
Mexico	–	▲	△	–	▲		–	▲		–
Netherlands	–	▲	△	–	▲	△	–	▲	△	–
New Zealand	–				▲			▲		▲
Norway	–				▲		–	▲	△	
Poland	–		△			▲		▲		▲
Portugal	–				▲		▲		–	
Scotland	–							▲		
Slovak Republic	m	m	m	m	m	m	m	m	m	m
Spain	–				▲			▲		
Sweden	–			–			△			–
Switzerland	–			–		△		△	–	
Turkey	m	m	m	m	m	m	m	m	m	m
United States	–				▲			▲		▲
Partners										
Brazil	m	m	m	m	m	m	m	m	m	m
Estonia	–				▲	△	–	▲	△	
Israel	–			–			–		–	
Russian Federation	m	m	m	m	m	m	m	m	m	m
Slovenia	–			–		△		▲		▲

– : Decisions on position in base salary scale

▲ : Decisions on supplemental payments which are paid every year

△ : Decisions on supplemental incidental payments

Source: OECD, *Education at a Glance 2010*. See Annex 3 for notes (www.oecd.org/edu/eag2010).

Please refer to the Reader's Guide in *Education at a Glance 2010* for information concerning the symbols replacing missing data.


StatLink  <http://dx.doi.org/10.1787/888932310510>



Figure 3.6 (2/2)

Criteria for additional payments in public institutions

	Criteria related to teachers' qualifications, training and performance							Criteria based on demography		Other
	Holding an initial educational qualification higher than the minimum qualification required to enter the teaching profession	Holding a higher than minimum level of teacher certification or training obtained during professional life	Outstanding performance in teaching	Successful completion of professional development activities	Reaching high scores in the qualification examination	Holding an educational qualification in multiple subjects	Family status (married, number of children)	Age (independent of years of teaching experience)		
OECD										
Australia	–	–					▲			
Austria			△				▲			▲
Belgium (Fl.)	–	▲								▲
Belgium (Fr.)	–	–								▲ △
Chile	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m
Czech Republic			– ▲ △	▲ △				– △		
Denmark	– ▲ △	– ▲ △	▲ △	▲ △		– ▲ △				
England	– ▲ △		– ▲ △							
Finland	–	– ▲	▲	▲		–				
France				–			▲			
Germany							–	–		
Greece	–	▲					▲			–
Hungary	–	–	△	–		▲				▲
Iceland	– ▲ △	– ▲ △		▲ △	△	△		– ▲		
Ireland	– ▲	– ▲								
Italy							–			
Japan							▲			▲
Korea				△			△	▲		
Luxembourg		–		–			▲	–		
Mexico	– ▲	– ▲	– ▲	– ▲	– ▲					
Netherlands	– ▲ △	– ▲ △	– ▲ △	– ▲ △	– ▲ △	– ▲ △				
New Zealand	–	–	▲							▲
Norway	– ▲	▲	▲	▲	▲	▲		▲		
Poland	– ▲ △		▲ △	–	△					▲ △
Portugal	–	–		–	–		▲			
Scotland		–								
Slovak Republic	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m
Spain		▲		–						
Sweden	–	–	–	–	–					
Switzerland							▲			▲
Turkey	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m
United States	– ▲	– ▲	△	– ▲						
Partners										
Brazil	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m
Estonia	–	–	▲ △	–		▲ △		–		
Israel	–	–		–			–	–		
Russian Federation	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m	m m m
Slovenia	▲	–	△	–						▲

– : Decisions on position in base salary scale
 ▲ : Decisions on supplemental payments which are paid every year
 △ : Decisions on supplemental incidental payments

Source: OECD, *Education at a Glance 2010*. See Annex 3 for notes (www.oecd.org/edu/eag2010).
 Please refer to the *Reader's Guide in Education at a Glance 2010* for information concerning the symbols replacing missing data.
 StatLink <http://dx.doi.org/10.1787/888932310510>





Less than half of OECD countries offer additional payments based on teachers' family status or demographic characteristics, and in most cases these are yearly payments.

Many countries provide additional payments based on teachers' qualifications, professional development and performance. The most common types of payments based on teachers' initial education and qualifications are for an initial education qualification higher than the minimum requirement and/or a level of teacher certification and teacher education higher than the minimum requirements. These are available in around two-thirds of OECD countries, with half of countries offering both types. They are used in nearly all countries as a criterion for base salary. Eighteen countries offer additional payments for the successful completion of professional-development activities. In some countries, adjustments to the base salary are awarded to teachers annually or on an incidental basis, either by the head teacher or school principal, or by the local, regional or national government. Countries vary in whether they provide such payments as an addition to teachers' base salary, in the form of a yearly payment or on an incidental, or "one-off", basis.

Developing a closer relationship between teacher performance and compensation has proved difficult.

Thirteen OECD countries and two non-OECD countries with available data offer an additional payment for outstanding performance in teaching. In two-third of these countries, these are discretionary payments, and in ten, they are mostly annual additions to teachers' salaries. It is notable that in 13 of the 15 countries with available data that offer this incentive – Austria, the Czech Republic, Denmark, England, Estonia, Finland, Hungary, Mexico, the Netherlands, New Zealand, Poland, Slovenia and Sweden – the decision to award the additional payments can be made at the school level. Formal metrics, including student-achievement data, come into play in some countries, but most decisions are based on the nuanced judgments of professional colleagues who, in turn, base their opinions on multiple sources of data, only some of which are measured in any formal way.

Performance-based reward systems in OECD countries can be classified into three types: "Performance pay", which generally involves measuring teacher performance based on student outcomes and other measures and providing strong performers with higher pay and, in some cases, advancement opportunities; "Knowledge- and skill-based" compensation, which generally involves higher pay for demonstrated knowledge and skills which are believed to enhance student performance; and "School-based compensation", which generally involves group-based financial reward. Those who argue in support of performance-based rewards say that it is fairer to reward teachers who perform well rather than paying all equally; performance-based pay motivates teachers and improves student performance; and a clearer connection between spending on schools and student performance builds public support. Those who oppose performance-based pay usually argue that fair and accurate evaluation is difficult, because performance cannot be determined objectively; co-operation among teachers is reduced; teachers are not motivated by financial rewards; teaching becomes narrowly focused on the criteria being used; and the costs of implementation are too high. Research in this field is difficult and there are few reliable studies.

The experience so far with performance-based rewards raises issues about how to design such awards, including issues relating to...

Though experience with performance-based rewards systems in OECD countries is still limited, OECD research highlights a number of common design around what to reward, whom to reward and how to structure rewards³³.



...what to reward...

Performance-based rewards imply rewarding something more than credentials and years of experience, which have been shown to be weak indicators of teacher effectiveness. Research has shown that it is possible to evaluate effective teaching, linked with improved student results, thus making it possible, in principle, to include evaluations both of teacher performance and student performance as part of a teacher-compensation system. Whatever criteria are chosen, they need to be clear to teachers and consistently applied.

Measures of teacher performance need to be valid, reliable and agreed by teachers themselves to be fair and accurate. In some countries, these include assessments of teacher performance that are based on multiple observations by trained evaluators using a standards-based rubric that teachers believe reflects good instructional practices. Other measures of teacher performance may include contributions to school-improvement efforts or performance in specific areas based on external certifications.

Some approaches include student performance in the reward systems for teachers, which require robust data management systems that are able to connect student and teacher data. In particular, if “value-added” measures are used, databases need to be able to track student progress from year to year, to give an indication of what any individual teacher has added to a student’s attainment. The Data Quality Campaign identifies a number of data requirements for such approaches.³⁴ Measures of student performance include test scores, enrolment in advanced courses, student attendance, student graduation rates, and student dropout rates. Analysis of student work can provide a further measure of student performance, but it requires time and funding for a group of trained assessors to evaluate portfolios of student work and determine evidence of growth. If the tests are to be used to determine value-added progress that students have made (i.e. using statistical methods to analyze a student’s current scores in light of past performance to get an accurate reading of the effect of the school/teacher on the student’s performance), then tests need to be designed to enable analyses of year-to-year gains in performance at the individual student level.

...whom to reward, and...

A major issue is whether the rewards are targeted to individual teachers, groups of teachers or the whole school. Each approach has advantages and disadvantages.

Individual rewards can both select the most effective staff and motivate individuals to work harder, giving them a sense of direct control over their chances of reward. However, it can be difficult to distinguish the impact made by an individual teacher, compared to previous teachers or other factors such as the school environment.

An alternative is to consider the performance of a group of teachers as a unit – such as a grade-level teams, a disciplinary departments, or another grouping that fits a school’s structure and mission. Group rewards have been found to promote staff cohesion, feelings of fairness and productivity norms, and they may foster the transfer of knowledge and mutual learning among teachers which can lead to improved results. School-wide rewards can encourage collaboration among teachers to ensure the school meets the criteria for rewards, but they may have disadvantages, such as diluting the link between individual effort and reward. Any group approach runs the risk of “free riders”, but some systems seek to limit these by keeping groups small or by establishing programs to exert social pressure as well as to monitor peer contributions to the group’s performance. Another consideration is whether to reward other staff than classroom teachers. Principals and assistant principals may not teach, but their work is critical to establishing an environment that is conducive to improving student achievement.



...how to structure awards.

Systems also differ in whether they structure the payout of rewards as a fixed global sum distributed according to ranked teacher performance (for example, a bonus for the top quarter of performers) or as a bonus for any teacher reaching a fixed level of teacher performance. The first has the advantage of establishing at the outset the maximum amount of money that a district or country will spend but, as noted above, may discourage effort among those who do not think they can outperform their colleagues. This disincentive can, however, be reduced where the assessment of teachers or schools takes account of contextual factors, such as socio-economic background or prior attainment, by giving teachers with the most challenging students a prospect of scoring relatively well.

Box 3.4. A comprehensive approach to teacher appraisal and compensation in Singapore

Singapore takes steps to ensure that high-quality graduates can start their careers on salaries competitive with other professions, and follows through with a coherent and comprehensive system of teacher appraisal and progression.

Singapore has established a coherent and comprehensive system of teacher appraisal and progression. To this end, it uses a combination of incentives throughout the teacher's career, aligned to the goals of the system, that enable it to select and sustain effective teachers. The system has been developed over time and refinements have been added as new issues or conditions have arisen.

Once in the Singapore teaching corps, annual evaluations offer the possibility of performance bonuses of 10%-30% of base salary. Included in Singapore's Enhanced Performance Management System is an appraisal of teachers' contribution to the academic and character development of the students in their charge, their collaboration with parents and community groups, and their contribution to their colleagues' development and to the school as a whole. Teachers who do outstanding work receive a bonus from the school's bonus pool. The evaluations also pinpoint areas of needed improvement that form the basis of the personal professional development plan for the following year. All teachers have access to 100 hours of professional development each year, at no cost to the teacher, which they can use to make progress on their personal development plans. Poorly performing teachers are provided assistance to improve and are dismissed if they do not.

In addition, teachers receive annual reimbursements for improving their knowledge and skills through professional development, subscriptions to professional journals, language learning, or technology training. Teachers move along a series of career steps that include greater compensation for greater responsibility and contributions to the profession and the school. And to keep effective teachers in the profession, there are attractive retirement payments.

While the Singapore system includes many interesting components, it is the coherence of the whole system that is important. Because Singapore has a single system and teachers are centrally assigned, market factors within the system are not the issue they are in other countries. There are also no "hard-to-staff" schools because teachers are assigned where they are most needed, resulting in a mix of less and more experienced teachers in every school.



The alternative of giving fixed rewards to schools or teachers meeting a specified performance level needs to specify clearly what teachers need to do to meet this requirement. It opens the possibility of earning a reward to more teachers and encourages them to develop their skills and work more effectively; but it potentially raises the amount of money that must be set aside to fund the rewards, allowing for the possibility of most or all teachers earning the bonus. To renege on the payment of rewards to teachers will doom a reward program, as teachers will question the commitment to improvement that it represents. The decision between rank-order and fixed-performance criteria as a basis for performance pay may depend on the resources available, although a system may choose to use a combination of the two.



Chapter 4

TEACHER ENGAGEMENT IN EDUCATION REFORM

Learning outcomes at school are the result of what happens in classrooms, thus only reforms that are successfully implemented in classrooms can be expected to be effective. Teacher engagement in the development and implementation of educational reform is therefore crucial and school reform will not work unless it is supported from the bottom up. This requires those responsible for change to both communicate their aims well and involve the stakeholders who are affected. But it also requires teachers to contribute as the architects of change, not just its implementers. Some of the most successful reforms are those supported by strong unions rather than those that keep the union role weak.



ACHIEVING EDUCATIONAL REFORM THAT WORKS

The previous chapters have discussed a range of features of school reform that can help make teachers more effective. These lead to a key purpose of the Summit, which is examining how to achieve reforms that work for pupils through a constructive social dialogue between educational authorities and the organized teaching profession.

Fundamental changes to the status quo can raise uncertainties that can trigger resistance from stakeholders, and without the active and willing engagement of teachers, most educational reforms fail. The chances for success in reform improve through effective consultation, a willingness to compromise and, above all, through the involvement of teachers in the planning and implementation of reform. In moving beyond consultation to involvement, the reform process becomes oriented towards transforming schools into learning organizations, with teaching professionals in the lead.

At the same time, stakeholder groups should not be able to exercise a veto over education reforms that are mandated through democratic political processes. To do so would be to risk losing the public support on which education so critically depends. It is difficult to find the right balance, but open and ongoing systematic dialogue and consultation are fundamental to the process. Such dialogue should recognize that teachers are experts in teaching and learning and thus can make an essential contribution to the design of reforms. This chapter sets out some issues to be tackled, without pretending to offer a blueprint for how to engage teachers.

Given the uncertainties that accompany change, stakeholders often value the status quo. To address this, systems need to become better at communicating and building support for change.

As in other areas of the public sector, reform can be harder if it is resisted by stakeholders who feel that they stand to lose from change. It is therefore not enough to design reforms capable of changing learning outcomes; to succeed, they need to address the legitimate concerns of stakeholders so that they are supported by those who deliver the system. This is a big challenge, in light of evidence that agents often prefer avoiding potential losses to acquiring potential gains, and to over-estimate the costs and/or underestimate the benefits of change relative to the status quo.

In this sense, teachers are not exceptional in tending to protect the system they know in the face of uncertainty and failed reform in the past. However, this phenomenon is multiplied in education reform because of the range of actors, including students, parents, teachers, employers and trade unions, who have stakes in educational outcomes. Uncertainty about costs is problematic because education infrastructure is large and implicates multiple levels of government, each of which is trying to minimize or shift the costs of reform.³⁵

Moreover, provider interests tend to be well organized and generally command greater public trust than do politicians. It can be hard for the latter to make the case for reform on grounds of policy outcomes, because there is no consensus about how to assess outcomes in education. This is partly due to the complex mix of goals to be pursued (equity, efficiency, quality, choice, cost-containment, etc.), but it also reflects the lack of reliable, generally accepted indicators concerning the quality of educational outcomes and their value. Evidence-based reform is difficult where the evidence base is either lacking or contested. One consequence of this is that isolated facts or bits of data, or the emergence of a single high-profile study, can have a disproportionate impact on policy debates.

In overcoming these obstacles, education systems need to employ state-of-the-art knowledge, professional know-how and adequate institutional arrangements to disseminate information and lessons about the new tasks and responsibilities inherent in the reforms. Successful reforms have often involved significant investment in staff development, or clustering reforms to build up support for them in related institutions.



Experience of reform produces some useful pointers about how to engage teachers in education reform.

In September 2008, Directors General of Education Ministries in OECD countries met to discuss why some educational reforms succeed and others fail. They considered how to engage parents, teachers, and politicians to support reforms, and what changes the minds of stakeholders who initially resist reforms or their implementation. Several recurrent themes emerged from their exchange of experiences:

- Policy makers need to build consensus on the aims of education reform and actively engage stakeholders, especially teachers, in formulating and implementing policy responses.
- Some reforms capitalize on external pressures or crises as part of building a compelling case for change.
- All political players and stakeholders need to develop more realistic expectations about the pace and nature of reforms to improve outcomes.
- Reforms need to be backed by sustainable financing.
- There is some shift away from reform initiatives per se towards building self-adjusting systems with rich feedback at all levels, incentives to react, and tools to strengthen capacities to deliver better outcomes.
- Investment is needed in change-management skills in the education system. Teachers need reassurance that they will be given the tools to change and recognition of their professional motivation to improve outcomes for their students.
- Evidence can be used more effectively to guide policy making, combining international benchmarks with national surveys and with inspectorates to provide a better diagnosis.
- Evidence is most helpful when it is fed back to institutions along with information and tools about how they can use the information to improve outcomes.
- “Whole-of-government” approaches can include education in more comprehensive reforms. These need effective co-ordination and overall leadership across all the relevant ministries.

OECD’s recent review of reforms in public policy³⁶ suggests that, in most circumstances, it pays to closely engage those who will be most directly affected by reform. Inclusive, consultative policy processes are no guarantee against conflict when sensitive reforms are under consideration, but over time, such an approach seems to pay dividends. In particular, it can create greater trust among the parties involved (see also Box 4.2). This may make all stakeholders more willing to rely on commitments to steps that will mitigate the cost of reform for them.

Research literature devotes a great deal of attention to the question of when and how potential losers of reform might be compensated, whether by exempting them from the reform, at least for some period, or via some sort of alternative compensation. Failure to compensate may reinforce opposition to reform, while excessive compensation may be costly or may simply blunt the effects of the reform itself. It may also reinforce opposition to future reforms, as the perceived weakness of the government encourages agents to push for maximum concessions.

Teachers need to be active agents, not just in the implementation of reforms, but also in their design...

Teacher support for reform is also not merely an issue of politics and pragmatism. Research on the characteristics of effective professional development indicates that teachers must be active agents in analyzing their own practice in the light of professional standards, and their students’ progress in the light of standards for student learning. Such engagement necessitates a clear and well-structured policy framework for reform. This depends greatly on the specific institutions and traditions of any given country.



However, in every reform context, the roles and competencies of each actor need to be clearly defined. There should also be a strong commitment to sharing information, and to building trust and co-operation, as well as an explicit high-level commitment to the reform agenda from each partner.

...and reform must be underpinned by solid research and analysis.

Teacher engagement also requires consistent, co-ordinate efforts to persuade those affected of the need for reform and, in particular, to communicate the costs of non-reform. This may be particularly challenging when the opportunity costs of maintaining the status quo are less apparent than the costs of change.

Last but not least, policy design needs to be underpinned by solid research and analysis. If reform advocates can build a broad consensus among experts and the public in support of reform, and build that consensus by showing evidence of the need for reform, they are likely to be in a stronger position to implement the reforms successfully.

Recognition of the importance of engaging teachers is growing. Dialogue can involve conversations both within national professional bodies and among local groups of professionals.

At a political level, the commitment to working in partnership with teachers to reform education is growing. When OECD Education Ministers met in Dublin in March 2004, there was a clear recognition of the importance of teacher engagement: “It is vital that teachers and their professional organizations are fully engaged in the debate about educational reform, and in the implementation of change.” Ministers committed themselves to consultative and participatory processes, and were encouraged by the reports from some countries of the lead that teachers’ organizations were taking in designing new approaches to teacher appraisal and career structures.³⁷ The importance of teacher engagement was also noted by the ILO/UNESCO Committee of Experts on the Application of the Recommendations concerning Teaching Personnel in 2003: “Social dialogue is the glue for successful educational reform. Without full involvement of teachers and their organizations – those most responsible for implementing reform – in key aspects of educational objectives and policies, education systems cannot hope to achieve quality education for all.”³⁸ However, the Committee also observed that “social dialogue in education remains a fragile process of decision making in most [countries].” In 2006, the Committee noted: “The basic prerequisites for dialogue are a democratic culture, respect for rules and laws, and institutions or mechanisms that permit individuals to express their views individually or collectively through unions or associations on issues that affect their daily lives on both a personal and professional basis...this implies respect for professional freedom and the active participation of individual teachers in deciding a range of professional issues – curricula, pedagogy, student assessment and issues relating to the organization of education ... educational authorities and teacher unions should try to jointly analyze problems and find solutions. Participatory processes and consultations are not a panacea to resolve ... difficulties, but they are virtually the only mechanisms for overcoming suspicion and establishing a positive climate for making and implementing education policy.”³⁹

In addition to consultative mechanisms, there are also institutional arrangements that can help to promote dialogue and engage teachers and their professional associations in policy formation. Several countries have institutional arrangements that provide teachers and other stakeholder groups with both a forum for policy development and, critically, a mechanism for profession-led standard-setting and quality-assurance in teacher education, teacher induction, teacher performance and career development (see Boxes 4.1, 4.2, 4.3, 4.4, 4.5 and 4.6). Such organizations seek to obtain for teaching the combination of professional autonomy and public accountability that has long characterized other professions, such as medicine, engineering and law.

**Box 4.1. Involving unions in reform in Australia**

Teacher unions are engaging in setting professional standards across the country.

National Professional Standards for Teachers were finalized by the Australian Institute for Teaching and School Leadership (AITSL) and endorsed by federal and state ministers in late December 2010. The Standards make explicit what teachers should know and be able to do across four career stages – graduate, proficient, highly accomplished and lead teacher – and across the three domains of professional knowledge, practice and engagement. AITSL includes the national education union in an independent structure that provides national leadership for the Commonwealth, state and territory governments in promoting excellence in the profession of teaching and school leadership. AITSL has responsibility for rigorous national professional standards, fostering and driving high-quality professional development for teachers and school leaders, working collaboratively across jurisdictions, and engaging with key professional bodies.

This provides teachers with greater input into the criteria for entry to their profession, the standards for career advancement, and the basis on which ineffective teachers should leave the profession. Such an approach is also consistent with the ILO/UNESCO Recommendation on the Status of Teachers, an instrument supported by UNESCO, ILO and OECD member states as well as teachers' unions.

Box 4.2. Building trust in Finland

Finnish teachers have long enjoyed high professional status but only recently gained the level of trust that allows them to take responsibility for educational change.

Perhaps the greatest challenge to reform has to do with trust. Trust cannot be legislated. The strong role that trust plays in the relationship between government and teachers in Finland has suggested to some that lessons from Finland may be less relevant to other countries, especially if one views trust as a precondition for the kinds of deep institutional reforms embodied in the development of the comprehensive school. But in the case of the relationship between teachers and the larger society, the Finnish experience also shows that trust is at least as much a consequence of policy decisions as it is a pre-existing culture.

Finland has adopted a stance in which it is assumed that students will perform at their best when their teachers' morale is high, and teachers' morale will not be high if they perceive themselves to be under attack by the authorities. Trust in this case means eliciting teachers' views on what needs to be done to improve student performance, acting to the extent possible on those views, and working hard to help teachers develop the capacity required to meet their students' needs. Given the respect that teachers have historically enjoyed in Finland, there was a solid base on which to build reforms. But Finnish teachers only latterly gained their high level of autonomy over curriculum, assessment and other decisions. This granting of trust from the government, coupled with their new-found status as university graduates from highly selective programs, empowered teachers to practice their profession in ways that deepened the trust accorded them by parents and others in the community.



In addition to system-level consultative mechanisms and policy-making bodies, it is also important that teacher engagement occurs at the school level. This can mean teachers taking responsibility for local change as members of “learning communities”.

Box 4.3. School-level teacher involvement in Sweden

The principle of consensus is a central feature of the Swedish decision-making process.

Dialogue and collaboration among various parties in the education sector is common, although it does not always result in consensus on changes in education policy. At the central government level, representatives of the Swedish Association of Local Authorities and the teachers’ unions often participate as experts in government committees or consultation groups on school policy. Stakeholders may also present their views through review bodies in connection with official inquiries and government proposals. Apart from such organized collaboration arrangements, various forms of talks and meetings offer opportunities for dialogue and consultations among parties.

At the local level and in individual schools, the Co-determination at Work Act guarantees that employers consult with employees before making major decisions about their workplace. Moreover, the employee representatives concluded an agreement in 1992 that sets the framework for collaboration in the workplace. Under this agreement, employers and teachers seek to reach solutions on matters concerning workplace conditions.

SECURING A STRATEGIC RELATIONSHIP BETWEEN GOVERNMENT AND TEACHERS’ UNIONS

Conflict between unions and reform has best been avoided not where unions are weak but where they are strong and co-operate with reform.

Unions are sometimes perceived as interfering with promising school reform programs by giving higher priority to the unions’ “bread and butter” issues than to what the evidence suggests students need to succeed. But the fact is that many of the countries with the strongest student performance also have strong teachers’ unions, and the better a country’s education system performs, the more likely that country is working constructively with its unions and treating its teachers as trusted professional partners.⁴⁰

As illustrated in Box 4.4, issues of collective bargaining can be successfully separated from professional issues, where teachers and their organizations collaborate with ministry staff in self-governing bodies to oversee work on entry, discipline, and the professional development of teachers.

Last but not least, teachers’ unions have developed their research capacities significantly in recent years. Their research units have also developed international links, principally through the Research Network of Education International. Within countries, there is evidence of growing links between union researchers and their counterparts in ministries and those in independent research institutes and universities. These developments are important because they can facilitate a constructive dialogue based on research and evidence.



**Box 4.4. Successful collaboration in Ontario**

Ontario's education reforms were accepted by teachers because the government consulted them on its implementation and ensured that it was implemented by professionals, not bureaucrats.

In 2003, the Canadian province of Ontario initiated a comprehensive reform to raise graduation rates as well as literacy and numeracy standards. This featured (1) strategies directly focused on improving the act of teaching; (2) careful and detailed attention to implementation, along with opportunities for teachers to practice new ideas and learn from their colleagues; (3) a single, integrated strategy and one set of expectations for both teachers and students; and (4) support for the reforms from teachers. Of all of these points, the last one, gaining teacher support, has been widely regarded as the most important element.

Central to this was the signing of a four-year collective bargaining agreement with the four major teachers' unions. In reaching the accord, the ministry was able to negotiate items that were consistent with both its educational strategy and the unions' interests, thus providing a basis for pushing forward the education agenda while creating a sustained period of labor peace that allowed for continued focus on educational improvement.

The ministry devoted significant efforts to winning over teachers, schools, and unions to its vision of reform. It had a clear theory of where responsibilities lay. The role of the ministry was to set clear expectations and targets, provide funding, create a working collective-bargaining agreement that would support improved teaching and learning, provide external expertise, and provide support for struggling schools. The role of the district was to align its personnel and hiring policies with the overall strategy, and to support the schools as they went through continuous processes of learning. The role of the school was considered crucial, as the place where change needed to occur; and while the mission and pressure came from the top, the role of non-school contributors to the reform was to support the learning and change occurring in the schools.

At a political level, those leading the reforms made a point of involving teachers and their representatives. The deputy minister met quarterly with their main unions, with superintendents' organizations, and with principal associations to review progress. The ministry also created the Ontario Education Partnership Table where a wider range of stakeholders could meet with ministry officials two to four times a year. This led to Working Tables, where smaller groups of stakeholders worked in more detail on particular issues. Important to these efforts was the signing of a four-year collective bargaining agreement with the four major teachers' unions in 2005, covering 2004 to 2008. In this agreement, the ministry was able to negotiate changes consistent with both the educational strategy and the unions' interests, including a reduction of class size and the creation of extra preparation time, which led to the creation of 5 000 and 2 000 new jobs, respectively. The agreement also provided money to hire a full- or part-time staff member in each school who was responsible for student success. A second four-year agreement was signed in 2008.

To follow through on the reforms, the ministry created a comprehensive implementation strategy. The ministry created a new 100-person secretariat responsible for building the capacity and expertise to implement the literacy and numeracy initiatives in elementary schools. This was separate from the ministry, and was thus able to start fresh without the usual bureaucratic obstacles. The reform also involved creating teams in each district and each school to lead the work on literacy and numeracy.



Chapter 4

Teacher Engagement in Education Reform

In so doing, the ministry paired external expertise with sustained internal time and leadership to push the initiative. The transformation team of teachers, principals and subject-matter specialists had deep, on-the-ground experience that earned them the respect of teachers and schools, rather than being seen as representing a bureaucracy.

The strategy also sought to ensure that reform was really a two-way street and not something imposed from above.

The government pursued a similar strategy for the Student Success initiative in high schools. Rather than sending out a team from the ministry, they gave the districts money to hire a “Student Success leader” to co-ordinate efforts in their district. The ministry also gave money for the district leaders to meet and share strategies. Again, each high school was given support to hire a provincially-funded Student Success teacher and was required to create a Student Success team to identify students showing early signs of academic struggle and to design appropriate interventions.

Box 4.5. Transforming government-union relations in the United States

In Montgomery County, Maryland, a collaborative model for raising performance was agreed with unions.

Montgomery County Public Schools (MCPS) is the sixteenth largest district in the United States. Long seen as a wealthy enclave, the county was becoming increasingly urbanized in 1999. Broad Acres Elementary School, located in a racially diverse neighborhood in the county’s southeast corner, epitomized the challenges facing MCPS. Its students had performed so poorly on state assessments that the school qualified for restructuring. The school system faced the prospect of implementing a full-scale improvement process.

Neither school system leaders nor the Montgomery County Education Association (MCEA) believed school staff should be replaced. Instead, in 2000, collaboration between teachers and administration brought Broad Acres back from the brink and realized student-achievement levels commensurate with their peers in far wealthier areas of the county. And that is where Broad Acres has remained for the past eight years. Many schools throughout the county have replicated this process of targeted school improvement.

The collaborative culture has fostered both trust and engagement among all employee groups. An evolving outcome has been the development of three Professional Growth Systems (PGS) – for teachers, administrators, and support staff – each with a supportive Peer Assistance and Review component that allows for novice and underperforming staff to be mentored and returned to successful employment or removed from service if improvement is insufficient. The PGS integrates qualitative evaluation and professional growth. The teachers’ PGS, for example, is based on six standards of performance derived from core propositions of the National Board for Professional Teaching Standards. It provides training for evaluators and teachers in order to establish a common language of successful teaching; establishes a professional growth cycle, in which a formal evaluation year is followed by sequential years dedicated to professional growth; provides for a job-embedded professional development program; and includes multiple factors in identifying teachers who will be involuntarily transferred.

In April 2010, MCEA and MCPS signed an agreement to affirm the use of student-performance data, including student and parent surveys, as required evidence for two of the six performance standards for evaluation. That initiative is representative of a shared focus on doing what’s best for students.

**Box 4.6. Establishing career incentives in Norway**

In Norway, governments and unions have co-operated to enhance and recognize teachers' competence.

The Union of Education Norway (UEN) had long considered that there were too few career incentives for teachers. Existing career structures meant that teachers stopped teaching or taught less when they entered positions of educational leadership. In the 2008 negotiations with the central organization for local and regional governments, the UEN suggested introducing a new and higher wage scale for teachers to be promoted on the basis of competence. The suggestion was accepted, and procedures were agreed to promote highly competent teachers, as identified by the school leader. In 2008 the Norwegian Ministry of Education, the central organization for local and regional governments, the organization for teacher education institutions, and the UEN formed a partnership to introduce a system for in-service education for teachers. Around 2 000 full-time study places in colleges and universities have been set aside for full- or part-time studies. Teachers who participate are granted leave of absence with full pay for 80% of normal study time. Costs for substitute teachers are shared between the central government and the local employer. However, even though there is agreement between the central government and the other important stakeholders about these and other national initiatives to enhance teacher competence, the actual implementation must be decided by the local governments as employers, a total of 430 municipalities and 19 counties. Both for economic and political reasons, many employers have not implemented these initiatives in practice.



Conclusion

This background report has underlined the importance of developing a central role for teachers in educational change. Successful countries have shown how a teaching profession that assumes a high level of responsibility and is well rewarded can attract some of the best graduates into a teaching career. Indeed, a striking contrast between the teaching profession in different countries is its status and the caliber of its recruits. Dramatically increasing the quality and prestige of a nation's teaching corps is far from easy and cannot be done overnight. However, this report has illustrated some of the ways in which it is possible to move in this direction. They include measures at recruitment stage, but more importantly involve transforming the teaching profession from within. Highly qualified graduates are unlikely to be attracted to teaching if they see an existing teaching corps with low skill levels that is not trusted to act as professionals.

The transformation of today's teaching force requires smarter development of professionals than is typical in most education systems. While more resources need to go into such development, simply laying on more courses is not enough. Above all, professional development needs to be integrated into both an individual teacher's career and school and system changes. At the career level, in-service education, appraisal and reward need to be closely aligned. At the same time, learning that improves individual competencies and collaboration among teachers to produce better instruction in the classroom must go hand-in-hand.

Finally, in a process of educational reform that too often becomes politicized, it is essential to build a constructive political process in which teachers share with politicians and administrators the main goals of reform. This does not mean that the specific interests or concerns of particular groups can be ignored: there will always need to be compromise in making changes to well-established systems, particularly when some individuals are bound to be threatened by change. However, around the world, it has been shown that collaborative models of educational reform can be highly effective.



Notes

1. OECD's Teaching and Learning International Survey (TALIS) surveyed around 90,00 teachers in 2008 based on random samples in Australia, Austria, Belgium (Flemish Community), Brazil, Bulgaria, Denmark, Estonia, Hungary, Iceland, Ireland, Italy, Korea, Lithuania, Malaysia, Malta, Mexico, Norway, Poland, Portugal, the Slovak Republic, Slovenia, Spain and Turkey. The results derived from TALIS are based on self-reports from teachers and principals and therefore represent their views, perceptions, beliefs and accounts of their activities. This is important information, as it gives insight into how teachers perceive the learning environments in which they work, what motivates them, and how policies and practices that are put in place are carried out in practice. But, like any self-reported data, this information is subjective and therefore differs from objectively measured data. The same is true of school principals' reports about school characteristics, which may differ from descriptions provided by administrative data. For more details, see OECD (2009), *Creating Effective Teaching and Learning Environments: First Results from TALIS*, OECD Publishing, Paris.
2. Participants for the summit were chosen on the basis of the performance of 15-year-old students in reading, mathematics and science on OECD's PISA 2009 assessment. To this end, the performance of these countries was averaged across the three subject areas.
3. See OECD (2010), *PISA 2009 Results – Volumes I-V*, OECD Publishing, Paris.
4. See OECD (2009), *Creating Effective Teaching and Learning Environments: First Results from TALIS*, OECD Publishing, Paris.
5. See OECD (2005), *Teachers Matter – Attracting, Developing and Retaining Effective Teachers*, OECD Publishing, Paris.
6. See OECD (2010), *Strong Performers and Successful Reformers – Lessons from PISA for the United States*, OECD Publishing, Paris.
7. For details see http://www.oecd.org/document/24/0,3746,en_2649_39263231_44567960_1_1_1_1,00.html.
8. See OECD (2009), *Evaluating and Rewarding the Quality of Teachers – International Practices*, OECD Publishing, Paris.
9. See OECD (2010), *Making Reform Happen*, OECD Publishing, Paris.
10. For an analysis of teacher demographics, see Indicator D8 in the 2003 edition of OECD's *Education at a Glance*. For updated data on the same topic, see the OECD online database at www.oecd.org/education/eag2010.
11. An important consideration here is the consistent finding in OECD countries that the responsiveness to incentives depends on the characteristics of individuals. For example, individuals in certain academic disciplines, such as science, and teachers with higher academic credentials are less likely to be attracted to teaching in the first place, and are less likely to return to teaching once they leave. Women often value the potential flexibility that teaching can offer, so improved leave provisions, opportunities for part-time employment and career breaks, and child care are likely to be particularly important to their career choices (for details, see OECD [2005], *Teachers Matter – Attracting, Developing and Retaining Effective Teachers*, OECD Publishing, Paris).
12. For data, see OECD (2010), *PISA 2009 Results: What Makes a School Successful? Resources, Policies and Practices*, OECD Publishing, Paris.
13. It should be noted that autonomy of schools in managing their resources is positively related to school performance in PISA 2009 only in conjunction with established accountability arrangements. In the absence of accountability arrangements, school autonomy is related negatively to school performance (for data, see OECD [2010], *PISA 2009 Results: What Makes a School Successful? Resources, Policies and Practices*, OECD Publishing, Paris).
14. The admissions process occurs in two stages. The initial paper screen is based on the applicant's Matriculation Exam score, upper secondary school record, and out-of-school accomplishments. Those who pass that screening must then take a written exam, be observed in a teaching-like activity in which their interaction and communication skills can be assessed, and be interviewed to assess, among other things, the strength of their motivation to teach (for details see OECD [2010], *Strong Performers and Successful Reformers – Lessons from PISA for the United States*, OECD Publishing, Paris).





15. For data, see OECD (2010), *PISA 2009 Results: What Makes a School Successful? Resources, Policies and Practices*, OECD Publishing, Paris.
16. In upper secondary general education, in 2009, the lowest ratios are found in the Czech Republic (0.53) and the partner countries Israel (0.56) and Slovenia (0.55). Relative teachers' salaries in primary and lower secondary education are highest in Australia (0.93 in primary, 0.94 in lower secondary), Belgium (Flemish Community) (0.90), Germany (0.89 in primary, 0.97 in lower secondary), New Zealand (0.97), Scotland (0.89), Spain (1.12 in primary, 1.26 in lower secondary) and Sweden (0.90 in primary, 0.93 in lower secondary). In upper secondary education, the ratios are highest in Belgium (Flemish Community) (1.14), Belgium (French Community) (1.10), Denmark (1.06), Finland (1.02), Germany (1.04), the Netherlands (1.07) and Spain (1.28) (for data, see the OECD's 2010 edition of *Education at a Glance*, Table D3.1).
17. See OECD (2005), *Teachers Matter – Attracting, Developing and Retaining Effective Teachers*, OECD Publishing, Paris.
18. See OECD (2010), *Strong Performers and Successful Reformers – Lessons from PISA for the United States*, OECD Publishing, Paris.
19. See page 4 of the Joint ILO/UNESCO Committee of Experts on the Application of the Recommendations concerning Teaching Personnel (CEART), Paris, October 2009.
20. See OECD (2005), *Teachers Matter – Attracting, Developing and Retaining Effective Teachers*, OECD Publishing, Paris.
21. TALIS asked teachers about their professional development activities during the 18 months prior to the survey. This period of time was chosen in order to cover activities over almost two school years in order to give a more representative picture and lessen possible distortions due to unusually busy or lean periods of development, and to ensure a manageable period for teachers' recall. Teachers were first asked to indicate whether or not they had participated in each of the following activities: (1) courses/workshops (e.g. on subject matter or methods and/or other education-related topics); (2) education conferences or seminars (at which teachers and/or researchers present their research results and discuss education problems); (3) qualification program (e.g. a degree program); (4) observation visits to other schools; (5) participation in a network of teachers formed specifically for the professional development of teachers; (6) individual or collaborative research on a topic of professional interest; and (7) mentoring and/or peer observation and coaching, as part of a formal school arrangement. Teachers were able to indicate participation in multiple activities. TALIS then asked teachers how many days of professional development they had attended in the 18 months prior to the survey and how many of these days were compulsory (for details, see OECD [2009], *Creating Effective Teaching and Learning Environments: First Results from TALIS*, OECD Publishing, Paris).
22. The intensity of teacher participation in professional development varies considerably across countries, with Korea and Mexico seeing teachers participating on average for over 30 days in 18 months, twice the average rate. Within-country variation in the intensity of professional development can also be high, most notably in Italy, Mexico, Korea, Poland and Spain (for data see OECD [2009], *Creating Effective Teaching and Learning Environments: First Results from TALIS*, OECD Publishing, Paris).
23. For data, see OECD (2009), *Creating Effective Teaching and Learning Environments: First Results from TALIS*, OECD Publishing, Paris.
24. For data, see Figure IV.3.3a in OECD (2010) *PISA 2009 Results: What Makes a School Successful? Resources, Policies and Practices*, OECD Publishing, Paris.
25. For data, see Indicator D3 in the 2007 edition of OECD's *Education at a Glance*.
26. See, for example, the Commonwealth Teachers Recruitment Protocol of 2004, developed at the request of the 15th Conference of Commonwealth Education Ministers, Edinburgh, UK 2003.
27. For an analysis, see OECD (2005), *Teachers Matter – Attracting, Developing and Retaining Effective Teachers*, OECD Publishing, Paris.
28. For data, see OECD (2009), *Creating Effective Teaching and Learning Environments: First Results from TALIS*, OECD Publishing, Paris.



29. For data, see OECD (2009), *Creating Effective Teaching and Learning Environments: First Results from TALIS*, OECD Publishing, Paris.
30. For data on starting, average and ending salaries, see OECD's 2010 edition of *Education at a Glance*.
31. For data, see OECD's 2010 edition of *Education at a Glance*.
32. The OECD does not collect data on payment amounts but on whether the additional payments are available and on the level at which the decision to award such payments is taken (for data, see Table D3.3a and Tables D3.3b, D3.3c and D3.3d available on line, as well as Annex 3 at www.oecd.org/edu/eag2010).
33. For an analysis, see OECD (2009), *Evaluating and Rewarding the Quality of Teachers – International Practices*, OECD Publishing, Paris.
34. Data Quality Campaign, 2009, <http://www.dataqualitycampaign.org/survey/elements>.
35. It should be noted that it is difficult to isolate the costs and benefits of particular measures because of the large number of simultaneous influences on outcomes. Thus, it is rarely possible to predict clear, identifiable links between policies and outcomes, especially given the time lags involved. It can take years to design and adopt a reform, and it may be a decade or more before its impact is really felt. This weakens not only incentives for elected politicians with limited time horizons to adopt reforms, but also the engagement of teachers who need to deliver them. In many countries, these issues are complicated by the difficulty of coordinating reform across different levels of government and across multiple regional and local jurisdictions. Education systems extend from local schools and independent universities to national ministries. The responsibilities of institutions and different levels of government vary from country to country, as do the relative importance and independence of non-public providers. Reforms need to take into account the respective responsibilities of different actors.
36. See OECD (2010), *Making Reform Happen*, OECD Publishing, Paris.
37. See Dempsey, N. (2004), Chair's Summary, Meeting of OECD Education Ministers: *Raising the Quality of Learning for All*, Dublin, Ireland, www.oecd.org/edumin2004.
38. See ILO/UNESCO (2003) Committee of Experts on the Application of the Recommendations concerning Teaching Personnel, ILO/UNESCO (CEART), Geneva and Paris.
39. See ILO/UNESCO CEART (2006).
40. One review of the research on teachers' organizations as policy actors has been published recently by Nina Bascia. See also "Reinventing Schools, Reforming Teaching", by John Bangs, John MacBeath and Maurice Galton, Cambridge, UK, 2010.

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Building a High-Quality Teaching Profession

LESSONS FROM AROUND THE WORLD

This background report for the International Summit on the Teaching Profession takes up the main themes of the Summit, presents the best current evidence about what can make teacher-oriented reforms effective, and points to examples of reforms that have produced specific results, show promise or illustrate imaginative ways of implementing change.

The report underlines the importance of developing a positive role for teachers in educational change. If teachers are simply seen as “part of the problem”, having to be ordered to change their practices and improve their performance, teaching will not attract those with talent and ambition, teachers will not be encouraged to take responsibility, and those supporting teacher interests will tend to resist reform. Rather, teachers need to become the central part of the solution, and given the tools and responsibility to lead change.

Successful countries have shown how a teaching profession that assumes a high level of responsibility and is well rewarded can attract some of the best graduates into a teaching career. Indeed, a striking contrast between the teaching profession in different countries is its status and the caliber of its recruits. Turning a relatively low-status teaching corps into the opposite is far from easy and cannot be done overnight. However, this report has illustrated some of the ways in which it is possible to move in this direction. They include measures at recruitment stage, but they also involve transforming the teaching profession from within. Highly qualified graduates are unlikely to be attracted to teaching if they see an existing teaching corps with low skill levels that is not trusted to act as professionals.

The transformation of today’s teaching force requires smarter development of professionals than is typical in most education systems. While more resources need to go into such development, simply laying on more courses may not achieve much. Above all, professional development needs to be integrated with both an individual teacher’s career and school and system change. At the career level, in-service education, appraisal and reward need to be closely aligned. At the same time, learning that improves individual competencies and collaboration among teachers to produce better instruction in the classroom must go hand-in-hand.

Finally, in a process of educational reform that too often becomes politicized, it is essential to build a constructive political process in which teachers share with politicians and administrators the main goals of reform. This does not mean that the specific interests or concerns of particular groups can be ignored: there will always need to be compromise in making changes to well-established systems, particularly when some individuals are bound to be threatened by change. However, around the world, it has been shown that collaborative models of educational reform can be highly effective.