

The Expert Group on Future Skills Needs Statement of Activity 2013

April 2014







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Foreword

Research and analysis around future skill requirements is vital to ensure that enterprises have the necessary talent for business growth and development, that education and training providers can align programme provision with these skills needs and that individuals can make informed decisions about career choices with the knowledge that will enable them to progress to future employment.



During 2013 the Expert Group on Future Skills Needs (EGFSN)/Forfás undertook research into the demand for high level ICT roles to 2018 and the future demand for Data Analytics roles across the economy, both deliverable items under the *Action Plan for Jobs 2013*. *Addressing Future Demand for High-Level ICT Skills* forecasts 44,500 potential jobs for ICT professionals up to 2018 within both the ICT sector and across other sectors of the economy. The report contains recommendations to ensure that Ireland maintains a strong competitive advantage when it comes to attracting mobile ICT investment and encouraging entrepreneurs to set up, grow and locate their ICT businesses in Ireland. The findings of the EGFSN report fed into the update of the Government's *ICT Skills Action Plan*, published on 14 March 2014, a collaborative Plan between Government, industry and the education system to increase the supply of domestic high-level ICT skills to meet the demands of enterprise.

Big data and analytics is a relatively new area and globally, there is a reported shortage of big data and data analytics talent. The EGFSN/Forfás report *Accessing the Demand for Big Data/Data Analytics in Ireland 2013-2020* maps out relevant current and planned education and training provision, identifies gaps between supply and demand, and recommends actions required to build up Ireland's big data and analytics talent pool, to achieve the Government's ambition to position Ireland as a leading country in Europe in Big Data.

During the year the EGFSN continued to monitor skills trends and demand through the annual reports *National Skills Bulletin 2012* and the *Vacancy Overview 2012*. The latest research indicated that while shortages are low in number and primarily confined to niche skill areas they persist in the areas of ICT, high tech manufacturing (especially bio-pharma and medical devices), agri-food, sales, marketing, business, finance and healthcare. Multilingual skills are a key aspect of some of these shortages.

The *Monitoring Ireland's Skills Supply 2012* provided an overview of the supply of skills from the Irish education system. A detailed analysis of the economic status of Ireland's graduates in the skills supply report found that young adults with a level 8 honours degree qualification or higher were more likely to be in employment than their counterparts with level 6/7 qualifications (higher certificate/ordinary degree).

The first edition of a new annual report, *Regional Labour Markets Bulletin 2012*, was released in 2013. The report provides an understanding of the labour market at regional level for each of Ireland's eight regions: Border, Dublin, Mid East, Midland, Mid West, South East, South West and



West, and assists in informing regional education and training provision, labour market policies, immigration and career guidance.

The EGFSN/Forfás provided the *Guidelines for Higher Education Providers on Current and Future Skills Needs of Enterprise* for the Springboard 2013 Call, which identified skills in demand by employers, from the EGFSN research. The guidelines are designed to ensure the relevance of these programmes for jobseekers, to encourage engagement by education providers with the employers in the curriculum design, delivery and work placements, in order to improve employment outcomes from the courses. Approximately 6,000 free part-time higher education places were made available under Springboard 2013.

The EGFSN continuously engages with businesses, Government Departments, including the Department of Education and Skills, the Department of Jobs Enterprise and Innovation and the Department of Social Protection and a wide range of stakeholders to communicate key messages arising from our research. This engagement informs education and training providers on the alignment of programmes to meet enterprise skills needs, advise on skills shortages for employment permits, assists individuals to make informed decisions around employment opportunities and career choice and underpins labour market activation programmes. We disseminate our findings via our website www.egfsn.ie, direct mailing of our reports to interested parties, presentations at conferences and providing our findings to guidance associations, further and higher education and training providers, industry groups and policy makers.

I would like to thank the members of the Expert Group on Future Skills Needs for their ongoing commitment to this important work. I would also like to thank Forfás and the Skills and Labour Market Research Unit, SOLAS, for the research and analysis work that they provide to the group.

Una Halligan

Chairperson, Expert Group on Future Skills Needs



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Introduction

The Expert Group on Future Skills Needs (EGFSN) has the task of advising Government on future skills requirements and associated labour market issues that impact on enterprise and employment growth.

Specifically, the Group carries out analysis in order to:

- Advise Government on projected skills needs at national and sectoral levels and make recommendations on how best to address identified needs;
- Advise Government on associated priority education and training requirements and the most cost effective ways of responding to them;
- Advise Government on any skills requirements that cannot be met internally at a given time and that so require to be met through inward migration;
- Advise Government on the content, delivery and outcomes of education and training programmes elsewhere that support excellence and value for money and on adaptations necessary to incorporate such developments here;
- Respond to any request for advice from the Minister for Education and Skills on training programmes that are supported through the National Training Fund; and
- Report on progress made in the implementation of its recommendations.

The Group is composed of representatives of business, employees, education, training, Government departments and State agencies.

In accordance with its mandate, an annual report is to be provided to the Minister for Education and Skills and the Minister for Jobs, Enterprise and Education not later than the end of March following the year to which the report refers. In conformance with this requirement this Statement of Activity provides details of the Group's output and activity in 2013, forthcoming work in 2014, and information on the Group's research and analysis resources.

Research and Analysis Resources

Marie Bourke, Department Manager in Forfás is Head of Secretariat to the EGFSN and manages the work of the group. Research, analysis and administration support to the EGFSN is provided by Forfás and the Skills and Labour Market Research Unit, SOLAS.

EGFSN work undertaken by Forfás is funded through the National Training Fund (NTF). In 2013 €390,993 was spent from the NTF towards the cost of this work.

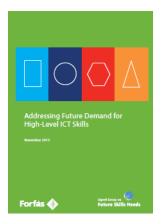


EGFSN Research and Analysis in 2013

Addressing Future Demand for High-Level ICT Skills

The ICT sector is of strategic importance to Ireland, both in terms of the numbers of high skilled professionals employed and its significant contribution to Ireland's export performance – accounting for €70 billion in exports per annum.

The EGFSN/Forfás report, *Addressing Future Demand for High-Level ICT Skills*, was published in November 2013 as a deliverable item under the Government's *Action Plan for Jobs 2013*, and forecasts the demand for high-level ICT skills over the period 2013-2018, for high-level ICT skills at NFQ Levels 8/9/10, and at progression levels NFQ 6/7, arising both within the broad ICT sector and across other sectors of the economy.



The demand for high-level ICT skills continues to increase both in terms of the numbers required and the right skillsets. A key factor for Ireland will be to ensure an adequate supply of ICT talent and skills from the domestic supply pool and global talent, to meet the needs of foreign-owned and indigenous enterprises. The range of technology skills that will be needed is broad and employers will seek to meet this demand through hiring new graduates as well as experienced people. Due to rapidly changing technological trends changing skillsets and demand for new skills are emerging. Areas of demand include cloud computing, mobile devices and technology, Big Data analytics, IT security, social technologies, micro and nano-electronics.

Promising signs of skills supply exist as the output of computer graduates in Ireland has increased by 25% over the last two years and a doubling of graduate output is now expected to be achieved by 2015 - three years ahead of the *Action Plan* target of 2018. This comes as a result of the implementation of the Government ICT Skills Action Plan which is a collaboration between Government, Industry and the education system.

In 2012, there were 68,280 ICT professionals working within the ICT sector and across other sectors of the economy. The findings of this study are that the current strong demand for high-level ICT skills will continue over the next six years. In total, 44,500 potential job openings for ICT professionals are forecast over the period 2013 to 2018 arising from both expansion and replacement demand.



Assessing the Demand for Big Data/Data Analytics Skills in Ireland 2013-2020

A forthcoming report by the EGFSN/Forfás, Assessing the Demand for Big Data and Analytics Skills in Ireland 2013-2020, forecasts the annual demand for big data and analytics roles across the economy. The study is a key Forfás deliverable in the Action Plan for Jobs 2013. Data analytics involves the mining, analysis, interpretation and utilisation of data, including Big Data. The value of big data and analytics is becoming apparent across countries and is resulting in a growing demand for relevant skills.

The study's objective is to advance recommendations on measures to build up the big data and analytics talent pool through domestic graduate output, continuing professional development within industry, and, where necessary, attraction of talent from abroad including expatriate talent. Employment demand across three main groupings, namely deep analytical talent, big data and analytics savvy roles (market research analysts, business and functional managers whose roles require interpreting and using data to drive business performance) and supporting technology roles are considered in the research.

The Irish Government has set an ambition for Ireland to become a leading country in Europe in Big Data. It is envisaged that this will help create significant additional employment in the economy. This would require achieving the scale of the ambition as set out in the high growth Scenario in this study. Under this Scenario, 21,000 potential job vacancies could arise from expansion and replacement demand in the period up to 2020 - comprising 3,630 for deep analytical roles and 17,470 for big data savvy roles. There would also be a further 8,780 potential job openings for supporting technology staff. Current employment demand for big data and analytics skills is estimated at 35,080.

For Ireland to become a leading country in such services it is essential that the necessary skills capability base is developed to drive data analytics business performance within existing enterprises, new start-ups and potential new foreign direct investment. The achievement of this outcome requires an improved understanding among private and public sector senior executives, of the potential of data and analytics for driving business performance. An enterprise-wide approach to managing data analytics capabilities is essential – including defining analytical skills requirements; up-skilling and nurturing of workforce talent; providing clear career progression path opportunities and deploying analytical talent effectively to support business goals.

The report makes a series of specific recommendations in the following areas:

- Building up the supply of analytics talent
- Nurturing analytics talent within industry
- Enhancing the employability of graduates and delivering relevant skills
- Appealing to the broadest possible talent pool
- Inspiring the next generation of analytics talent and
- Unlocking the potential of big data and analytics in the public sector.



Future Skills Needs of the Manufacturing Sector to 2020

The manufacturing sector is a fundamental driver of the economy in Ireland. There were around 206,000 people employed in manufacturing in 2011, accounting for 11.4 per cent of total employment. Manufacturing exports were approximately €92.9 billion in 2011. The sector has experienced huge changes in recent years, a significant decline in employment and erosion of cost competitiveness. The Government's Action Plan for Jobs 2012 requested Forfás to develop a long term vision for the Manufacturing sector and a strategic plan to realise this vision (Forfás Making it in Ireland published February 2013). In tandem with the wider strategy research by Forfás, the EGFSN was requested to undertake a detailed assessment of manufacturing skills needs and use of the new



structures for training and skills development to address both the immediate needs of the manufacturing sector and to anticipate longer term needs. The objective of this work is to address the skills required across six sub-sectors of manufacturing over the period 2012-2020 - Medical Devices, Bio-Pharma/ Pharma-chem, Food and Beverages, ICT hardware, Engineering and Consumer Products sectors.

There is a challenge for manufacturing enterprises in attracting the top graduate talent as many of the graduates are sought after for other sectors. Future employment scenarios for the sector are highly dependent on both improvements in domestic competitiveness and a favourable international environment for trade. Replacement demand for the sector is estimated in the region of 4,000 to 5,000 per annum regardless of whether employment expands or not and there are upskilling requirements for existing employees at both occupational and qualifications level.

Skills and competencies needed within manufacturing are rising across virtually all occupations due to factors such as scientific and technological advances, automation, regulatory requirements, new ICTs and the drive for continuous improvement. There are some skills shortages currently within the sector, though not of significant scale. Many of the skills shortages primarily relate to key persons with experience to drive business growth. Current and future shortages are in areas such as toolmaking, where we recommend an accelerated apprenticeship scheme to produce 55-60 toolmakers per annum to 2016, in-company training for machinists and for consideration to be given to an apprenticeship/traineeship for CNC machining/programming. There is a demand in the short term for approximately 250 mechanical engineers with skills related to automation, development and design until increased enrolments in engineering programmes result in increased supply in 2-3 years' time. Support is recommended for up to 200 places on taught postgraduate courses specifically to address critical shortages across a number of engineering disciplines including validation, polymer, quality, automation and supply chain engineering.

Despite substantial loss of employment over the last ten years, there is potential for employment in Irish manufacturing to stabilise and grow in the future. Under the competitive growth scenarios presented in this report, net employment could grow by between 11,000 and 43,000 by 2020. The extent of this growth will depend crucially on attaining reductions in labour and business costs, productivity and innovation improvements and the necessary skills supply to be realised.

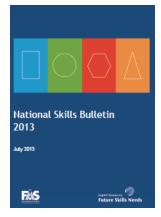


National Skills Bulletin 2013

The *National Skills Bulletin 2013*, published in July 2013, is the ninth in a series of reports produced annually by the Skills and Labour Market Research Unit in SOLAS on behalf of the EGFSN. The report provides an overview of the Irish labour market at occupational level.

Labour Force

Some labour market indicators point towards improvements in the Irish labour market (decline in the unemployment rate and increase in employment), however, challenges continue to exist with a further contraction of the labour force and a lower participation rate, as well as



persistently high unemployment rates for certain segments of the labour market (e.g. persons previously employed in skilled trades and elementary occupations, younger age cohorts and persons with low education attainment).

Labour Market Transitions

An analysis of transitions, presented for the first time in this year's Bulletin, suggests a large volume of activity in the Irish labour market. It is estimated that during 2012 there were over a million transitions between employment, unemployment and economic inactivity, as well as between and within occupations. The analysis points to the flexibility of the Irish labour market, but also to the difficulties facing lower skilled persons in securing sustainable employment.

Skills Shortages

Although the shortages continue to be primarily confined to niche skill areas and in most instances remain of low magnitude, this year's Bulletin highlights the persistence of skills shortages in the areas of ICT, science, engineering, sales, marketing, business, finance and healthcare.

Vacancies were most frequent for sales & customer care, caring, leisure & other service related, elementary occupations, followed by science & engineering professionals, business professionals, administrative occupations, and science & engineering associate professionals.

Language skills were a prerequisite for many newly advertised vacancies, particularly in sales customer care activities, but also at professional level (e.g. engineering, finance); a variety of languages were in demand, particularly German, but also French, Italian, Spanish and Dutch.

During 2012, employers continued to source skills from outside the European Economic Area (EEA) area. There were approximately 3,000 new employment permits issued, which is a 10% decline compared to 2011. Work permits issued to ICT experts accounted for over a third of all work permits; while almost 300 work permits were issued to healthcare professionals.

The *National Skills Bulletin*, through providing a statistical record of the labour market situation at occupational level and by identifying occupations where shortages exist, assists policy formulation in the areas of employment, education/training, immigration and career guidance.



Monitoring Ireland's Skills Supply - Trends in Education and Training Outputs 2013

This report, published in July 2013, is the eigth a series of annual reports produced by the Skills and Labour Market Research Unit of FÁS on behalf of the Expert Group on Future Skills Needs. The report provides an indication of the supply of skills to the Irish labour market from the formal education and training system by examining outflows from the education system across levels 1-10 of the National Framework of Qualifications (NFQ).



Demographic Profile

Demographic data shows that the size of school-going age cohorts (both children and young adults) is expected to continue to grow and, together with increased participation and retention rates within the education and training system, Ireland will continue to ensure a supply of graduates, skills and labour for the workforce into the future.

Enrolments

Postgraduate enrolments totalled 33,600 in 2011, which is a small decline on the previous year; this relates to a decline in postgraduate certs/diploma enrolments as there were modest increases in masters and PhD programmes.

Graduates

Graduate Output: there were 41,400 graduates at levels 6-8 in 2011, an increase of 3% on 2010; output increased across all levels, with a 10% increase at level 6 and increases of 3% and 2% at levels 7 and 8 respectively.

Promising signs exist for computing at higher level with a 25% increase in the number of graduates at level 8, continuing the upward trend in computing graduate numbers observed in the previous year; strong growth in CAO acceptances and enrolments for computing courses suggest that this trend will continue in the medium term.

Levels 3: More than 60,000 awards were made at level 3, of which almost 59,000 were Junior Certificates; the number of Junior Certificate sits rose by 3% between 2011 and 2012; in contrast, at just over 1,000 in 2012, the number of FETAC awards declined by almost two thirds when compared to 2011.

Lifelong Learning

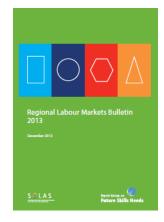
There were 170,000 award holders in 2012, representing a 6% decrease (or 10,600 fewer learners) when compared to 2011, but a 30% increase compared to 2008. The most notable changes over the period 2011-2012 were increases in the number of major awards and specific purpose awards holders, but declines in the number of minor award holders and supplemental award holders. The number of major award holders grew by 13% (4,700 additional learners) to reach 42,600 in 2012, their highest level to date.

Monitoring Ireland's Skills Supply serves as a valuable tool in the EGFSN's role in advising the Irish Government on the current and future skills needs of the economy and on other labour market issues that impact on Ireland's enterprise and employment growth.



Regional Labour Markets Bulletin 2013

The *Regional Labour Markets Bulletin 2013*, published March 2014, is the second in an annual series of reports examining regional labour markets in Ireland. The report presents labour market data relevant to each region, a profile of key businesses and industries, potential job opportunities and current and potential skills supply.



Key Findings

- Employment: in quarter 1 2013:
 - Dublin and the West region had the highest employment rates at 62%, followed by the Mid East and South West regions (61%);
 - at least 30% of persons in each region were employed in high skilled occupations (managers, professionals and associate professionals); the share in Dublin was even higher at 48%;
 - when compared to quarter 1 2012, the West and South West region had the highest rate of employment growth at 4% each, compared to a 1% change nationally and a 4% decline for the Mid East region.
- Unemployment: in quarter 1 2013:
 - the highest rates were in the South East (18.4%) and the Midland region (17.1%), while the lowest rates were in the South West (11.1%) and Dublin (11.3%);
 - Dublin accounted for approximately one quarter of total national unemployment (70,000 persons), although it has a lower than average unemployment rate;
 - unemployed persons had been mostly employed in skilled trades and elementary occupations across all regions.
- Sectoral: in quarter 1 2013, industry was the largest sector in each region except Dublin, the Mid East and the Midland regions; human health was the largest in Dublin, while wholesale and retail was the largest in both the Mid East and the Midland regions.
- The Dublin, South West and Mid East regions combined accounted for two thirds of all high tech manufacturing in Ireland.
- Public Employment Service (PES) vacancies: although the highest number of PES vacancies was
 advertised for the Dublin region, the distributions of vacancies by occupational group varied
 little across regions, with most vacancies advertised for elementary, personal service and
 associate professional (mainly sales) occupations, and comparatively few for managers,
 professionals, admin/secretarial and operatives.
- Live Register: the number of persons on the Live Register has increased in all regions since early 2008; when compared with August 2012, however, there was a 5% decline in the number of persons on the Live Register in August 2013; in terms of regions, the South-West region experienced the greatest decline at 7%, compared to a 2% decline for the Midland region.

The *Regional Labour Markets Bulletin*, through provision of on the demand and supply of skills for the Irish regions, supports decision making at regional and national level in the areas of education and training provision, labour market policies, immigration and career guidance.



Other Activities & Policy Inputs by the EGFSN in 2013

Guidance for Higher Education Providers on Current and Future Skills Needs of Enterprise - Springboard 2013 Call

Springboard is a multi-annual fund which provides free part-time higher education courses, to assist the unemployed and previously self-employed to upskill or reskill in areas of current and future skills need.

The first phase of Springboard was launched in May 2011 by the Minister for Education and Skills and offered 5,875 free, part-time places in higher education in areas of identified skills need in Ireland. In 2012, a second Springboard call allocated a further €24.4m for an additional 6,000 part-time higher education places.



On 27th February 2013 the HEA issued a third Springboard call. The call was accompanied by a document produced by Forfás, *Guidance for Higher Education Providers on Current and Future Skills Needs of Enterprise*, based on skills shortages identified by the EGFSN. The guidance document provided detailed information on current and future enterprise skills opportunities in order to enable providers to ensure that programmes were aligned with the needs of enterprise.

Key areas of focus for Springboard 2013, outlined in the guidance document included: mechanical and manufacturing engineers; validation, quality, polymer, supply chain and automation engineers; ICT computing and electronic engineering; international sales professionals with foreign languages; international project management; regulation and compliance for financial services; business analysts for all sectors with skills to be effective consumers of big data insights.

In June 2013 the Minister for Education and Skills announced a further 6,000 free part-time higher education places to provide re-training opportunities for jobseekers under the Springboard call, encompassing over 200 courses focusing on growth areas as outlined in the Guidance document.

Submission to the Department of Education and Skills on the Development of a New Digital Strategy for Schools

In December 2013, the Minister for Education and Skills announced a public consultation process on the use of technology in teaching and learning in primary and post primary schools. It is envisaged that the outcomes of this process will help inform policy making in this area.

The new Digital Strategy for Schools will address policy challenges and opportunities arising from major developments in curricular reform, digital publishing, digital content, cloud services, portable computing, student devices and broadband for schools. It will address future proofing, make specific recommendations and detail an implementation plan.

The EGFSN/Forfás made a submission in January 2014 on the development of a new digital strategy for schools to the Department of Education and Skills consultation process.



National Skills Database

The National Skills Database (NSD), developed and maintained by the Skills and Labour Market Research Unit (SLMRU) of SOLAS, collates all available information on the supply and demand of skills in Ireland. It represents an effective tool for timely analysis and forecasting of the labour market at sectoral and occupational level. Potential imbalances between the demand and supply of skills can be assessed using the wide range of indicators gathered in the NSD.

During 2013 the NSD was updated to include the latest statistics and information on the following:

- Employment
- Education and training output
- Immigrant labour force
- Notified job vacancies (for example: The Irish Times, Irish Jobs.ie, JobsIreland.ie)
- Labour force forecasting model
- Occupational employment forecasting models
- Recruitment agency survey (SLMRU).



Implementation of Recommendations in EGFSN Reports

Ongoing monitoring of progress on implementation of recommendations, including a review of sectoral studies after completion, is undertaken by the EGFSN. Sectoral reports are widely disseminated to stakeholders. Those identified with the responsibility of implementing the recommendations are formally notified and invited to inform the EGFSN six months after publication of the report of progress on implementation.

Manufacturing Skills

The EGFSN/Forfás report Future Skills Requirements of the Manufacturing Sector to 2020 referred to earlier highlights current and future shortages in areas such as toolmaking, machinists, supervisors, polymer technicians and across a number of engineering disciplines.

Since the publication of the report in April 2013 there have been a number of measures actioned including:

- First Polymer Training Skillnet developed a Level 6 Certificate in Polymer Technology in response to industry needs identified in the EGFSN Manufacturing Sector report.
- Plastics Ireland secured funding under Springboard for a certificate in Polymer Technology, to address the strong demand for polymer technicians.
- A new network in the Engineering sector as recommended by the EGFSN was established in July 2013 following a Skillnets call for proposals for new training networks, this network is promoted by the Institute of Industrial Engineers.
- As recommended in the Springboard Guidelines, a range of courses relevant to the manufacturing sector have been made available under the Springboard initiative in 2013 including: 324 places at Level 6; 1,065 places at Levels 7-9; and 114 places on cross-enterprise courses which could also be applied in a manufacturing environment.
- Forfás, in conjunction with IDA, Enterprise Ireland and the Department of Jobs, Enterprise and Innovation made a submission in August 2013 to the Department of Education and Skills' review of the apprenticeship system, reflecting recommendations in the EGFSN manufacturing sector report.

Food and Beverage Sector

The EGFSN/Forfás report Future Skills Requirements of the Food and Beverage Sector was published in November 2010. The main skills gaps identified in the report were for operative upskilling, specialised craft training, supply chain management, graduate in-house marketing/ management development, middle and senior management development programmes on leadership, management and commercial acumen.



Since the publication of the report progress on implementation of a number of recommendations in the report has been achieved:

- Skillnets through its two main food networks, Taste 4 Success Skillnet and Rural Food Skillnet, provided training to approximately 3,700 employed and unemployed trainees from January 2012 to August 2013.
- In August 2013 Skillnets established an additional national training network for the Food and Beverage Sector. The FDII Skillnet is promoted by Food & Drink Industry Ireland, a business sector within IBEC.
- In 2012 within the food, drink and catering sector, 51 courses were delivered to 356 participants under the Skills for Work programme.
- Programmes in the Food and Beverage field are available under the Springboard and Momentum labour market initiatives, aimed at unemployed individuals.
- For employees 113 initiatives are on offer from the enterprise development agencies (e.g. El's Lean Start, Lean Plus & Lean Transform programmes).

Addressing ICT Skills Recruitment Difficulties of Foreign Owned and Indigenous Companies

During 2011, the EGFSN and Forfás were requested to undertake research on recruitment difficulties relating to high-level ICT skills, within both the ICT sector and from other sectors such as international financial services, banking and business services. The findings of the research were compiled in a paper entitled *Addressing High-Level ICT Skills Recruitment Needs*, published in January 2012. In response to these findings, in January 2012 the *ICT Action Plan* was published by the Department of Education and Skills (in conjunction with the HEA, Forfás and the EGFSN), which outlines a range of initiatives to meet these skills needs.

One of the key targets outlined in the *ICT Action Plan* was the doubling annually of ICT honours degree undergraduate programmes to provide output of 2,000 graduates by 2018. In order to achieve this target ICT conversion programmes were provided by higher education providers in partnership with industry. In 2012 more than 700 places on Level 8 higher diploma ICT skills conversion programmes were made available. A second phase of the conversion programmes was rolled out in 2013, with a further 769 places available over 15 courses.

A review of the *ICT Action Plan* published in 2012 has been undertaken by the Department of Education and Skills and the Department of Jobs, Enterprise and Innovation. A number of specific recommendations in the EGFSN/Forfás study *Addressing Future Demand for High-Level ICT Skills*, published in November 2013 have been considered and a revised *ICT Skills Action Plan* was published on 14th March 2014 to address the recommendations in the EGFSN report.



Dissemination of Future Skills Needs of Enterprise and Other Labour Market Information

During 2013, the EGFSN continued to engage with stakeholders to ensure that key labour market information was disseminated to all relevant parties. The Chairperson and Secretariat presented on a wide range of labour market issues and participated at conferences and fora throughout the year, including: IT Tralee Careers Information Session, National Association of Principals and Deputy Principals Conference, European Social Fund Conference, City & Guilds Roundtable, The Association of Higher Education Careers Services Work Placement Professionals' Conference 2013, a number of Education and Training Boards and second level guidance counsellors.

In addition, the Group's output continues to be disseminated to guidance counsellors, students (secondary level, further education and training, and higher education), parents and teachers, through the targeted websites such as CareersPortal, Qualifax and Career Directions to inform their target audiences.

Published reports by the EGFSN are sent to over 1,300 stakeholders. An e-alerts system is also in place to electronically distribute the group's reports to over 2,000 subscribers. Briefing presentations on reports are made available on the EGFSN website.

The EGFSN advances the group's research and analysis and recommendations in its representative role on a number of groups including the Department of Education and Skills' Project Maths Implementation Group, Science Foundation Ireland's Discover Smart Futures Advisory Group and the Higher Education Authority's High-Level Industry-Academic Group on ICT Foresight.



Progress on the National Skills Strategy 2020 targets

The EGFSN is mandated, by the Department of Education and Skills, to report annually on progress made on reaching the targets set out in the National Skills Strategy for 2020.

The key proposals in the National Skills Strategy (NSS) for 2020 are that:

- 48 per cent of the labour force should have qualifications at National Framework of Qualifications (NFQ) levels 6-10 - i.e. from higher/advanced certificate to PhD level;
- 45 per cent should have qualifications at NFQ levels 4 and 5¹ Awards equivalent to higher secondary level education; and
- The remaining 7 per cent are likely to have qualifications at NFQ levels 1 to 3 (equivalent or below Junior Certificate) while aiming to make the transition to higher levels of educational attainment.

In order to achieve these objectives, action is required at a number of levels:

- An additional 500,000 individuals within the workforce will need to progress by at least one level on the NFQ. More specifically, the targets will entail up-skilling 70,000 from NFQ levels 1 & 2 to level 3; 260,000 up to levels 4 & 5; and 170,000 to levels 6 to 10.
- The proportion of the population aged 20-24 with NFQ level 4 or 5 awards should be increased to 94 per cent, either through completion of the Leaving Certificate or through equivalent, more vocationally oriented programmes. The retention rate at Leaving Certificate should reach 90 per cent by 2020.
- The progression rate to third level education will have to increase from 55 to 72 per cent.

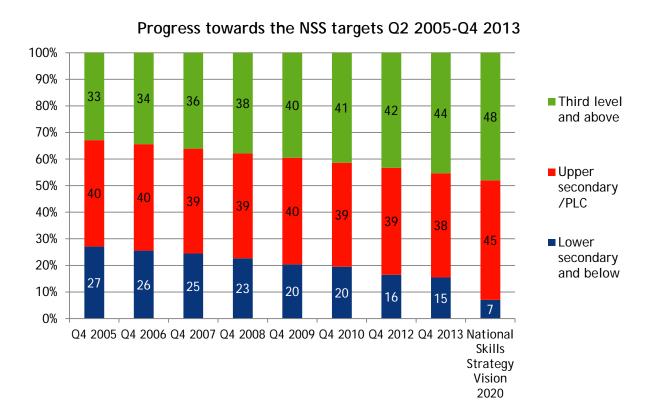
Progress on headline targets

Ireland continues to make progress towards achieving the National Skills Strategy (NSS) targets. It is estimated that 44% hold third level qualifications, 38% have obtained higher secondary/Further Education and Training qualifications, while the proportion of those holding lower secondary or below stands at 15%.

¹ It should be noted that the CSO education data for post Leaving Certificate (PLC) education level also includes some qualifications placed at NFQ Level 6.



Figure 1 Labour Force by Educational Attainment and NSS Target



Source: CSO Quarterly National Household Survey

The percentage of those in the labour force with Higher Education qualifications (NFQ Levels 6-10) has increased from 33% in Q4 2005 to 44% in Q4 2013. Specifically, there are approximately 274,000 more people in the labour force in Q4 2013 with Higher Education Level qualifications than there were in Q4 2005.

In relation to Levels 4 & 5 (Higher Secondary including Leaving Certificate), the percentage rate in Q4 2013 has declined to 38%, from 40% in Q4 2005. In absolute terms, the number of those within the labour force with Higher Secondary education has increased by around 6,000 since Q4 2005. There remains a challenge in closing the gap with the National Skills Strategy target at these levels.

Progress at Levels 1-3 (Junior Certificate and below) continues, with the percentage of the labour force at these levels falling from 27% in Q4 2005 to 15% in Q4 2013. Specifically, there over 210,000 less people in the Labour Force with only a Junior Cert qualification or below compared with 2005. Some of this decline is due to people moving up to higher levels in the National Framework of Qualifications. Other factors include older cohorts with a lower qualifications profile retiring from the labour force, and declining participation rates amongst those at these lower qualification levels.



The percentage of the population aged 20-24 with at least Higher Secondary or equivalent level education increased from 86% in 2005 to 92% by 2012, compared to the 2020 target of 94%.

In terms of progression and retention rates, the share of early school leavers in Ireland declined to 9% in Q4 2012, from a rate of 13% in 2006. Of the total cohort of students who entered first year of second level in 2006, approximately 90% went on to the Leaving Certificate examination.

The following table summarises progress in each of the headline National Skills Strategy targets.

	Progress towards achieving the National Skills Strategy targets				
	NSS Target	National Skills Strategy Baseline ²	Current Position	Progress	Data source
•	48 % of Labour Force at levels 6-10	33 %	44%	+11 %	CSO QNHS
٠	45 % of Labour Force at levels 4-5	40 %	38%	-2%	CSO QNHS
٠	7 % will be at levels 1-3	27 %	15%	+12 %	CSO QNHS
٠	94% of 20-24 population should have at least NFQ Levels 4/5	86%	92% ³	+6%	SLMRU, SOLAS analysis based on CSO data
•	The retention rate at Leaving Certificate should reach 90 % by 2020.	81.3%	90 %	+8.7 %	Department of Education
•	The progression rate to Third Level should increase to 72%	55%	69%	+14%	Higher Education Authority (HEA) ⁴

Upskilling 500,000 people within the Labour Force

At present, there is no data available which shows whether a person has moved up the National Framework of Qualifications in a given year. The most appropriate measurement of progress towards the National Skills Strategy is by the CSO Quarterly National Household Survey data on educational attainment presented previously, which reflects the output of education and training activity in the State.

Within the NSS targets the level of awards is outlined in the following sections.

²NFQ Profile of the Labour Force Targets are measured from a baseline year of Q2 2005.

The 94 per cent target for 20-24 year olds is from a baseline year of 2005

The retention rate target is from a baseline year of 1996

The progression rate target is from a baseline year of 2004

³ Excludes individuals who did not state their level of educational attainment

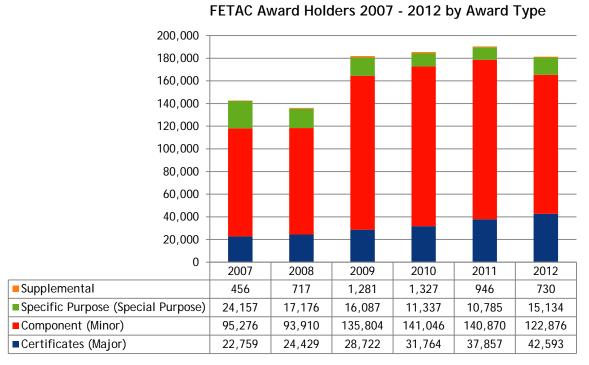
⁴ Excludes international students, encompasses new entrants of all ages (i.e. includes mature students).



Further Education and Training

The number of FETAC award holders⁵ in 2012 totalled just over 170,000. This figure represents a 6% decrease (or 10,600 fewer learners) when compared to 2011, but a 30% increase compared to 2008. In 2012 there were increases in the number of major awards and specific purpose awards holders, and declines in the number of minor award holders and supplemental award holders.

Figure 2 FETAC Award Holders by Type of Award 2007-2012



Source: FETAC Statistics

In 2012, there were 42,600 major award holders, the breakdown of award levels is set out in the table below.

Further Education and Training Major Awards 2007-2012, NFQ Levels

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Total
2007	-	-	1,051	1,675	13,481	6,552	22,759
2008	12	53	1,417	1,777	14,196	6,974	24,429
2009	72	194	2,499	1,674	17,438	6,895	28,772
2010	170	281	2,602	1,373	20,504	6,834	31,764
2011	264	539	·		23.485		37,857
					,	•	42,593
	2008 2009	2007 - 2008 12 2009 72 2010 170 2011 264	2007 - 2008 12 53 2009 72 194 2010 170 281 2011 264 539	2007 - - 1,051 2008 12 53 1,417 2009 72 194 2,499 2010 170 281 2,602 2011 264 539 3,428	2007 - - 1,051 1,675 2008 12 53 1,417 1,777 2009 72 194 2,499 1,674 2010 170 281 2,602 1,373 2011 264 539 3,428 1,180	2007 - - 1,051 1,675 13,481 2008 12 53 1,417 1,777 14,196 2009 72 194 2,499 1,674 17,438 2010 170 281 2,602 1,373 20,504 2011 264 539 3,428 1,180 23,485	2007 - - 1,051 1,675 13,481 6,552 2008 12 53 1,417 1,777 14,196 6,974 2009 72 194 2,499 1,674 17,438 6,895 2010 170 281 2,602 1,373 20,504 6,834 2011 264 539 3,428 1,180 23,485 8,961

Source: QQI

⁵ Note, the total award holders figure for 2012 is not the sum of the four award types holders shown above as some people achieve awards of more than one award type, e.g. a major award and a minor award.



Higher Education

Overall graduate output in 2012 was 60,646⁶, overall graduation numbers have risen by 8% since 2007.

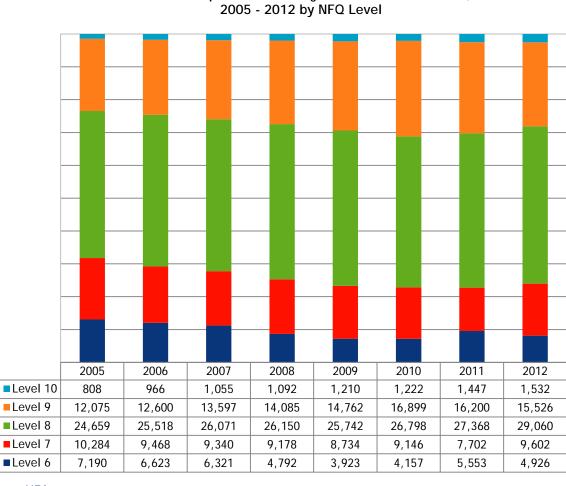
Between 2007 and 2013 a significant drop in numbers graduating at level 6 occurred. Level 7 graduate numbers also declined, at a smaller rate, between 2007 and 2011 however between 2011 and 2012 level 7 graduate numbers rose by 25%.

There were 43,500 graduates at levels 6-8 in 2012, an increase of 7% on the previous year.

Just over 17,000 students graduated at levels 9 and 10 in 2012, a slight decline on 2011, however graduate numbers at these levels are up 16% on 2007 figures.

Graduate output from HEA Higher Education Institutes,

Figure 3 Graduate output from Higher Education 2005-2012, NFQ Levels



Source: HEA

Data does not include approximately awards made at independent, private third level colleges in Ireland in 2012.

⁶ Includes distance and e-learning.



Forthcoming EGFSN Publications

Freight Transport/Distribution/Logistics Sector

The freight transport/distribution/logistic sector is of strategic importance to Irish trade. There are 6,430 enterprises employing 37,000 people with a turnover of €4.6bn in the land transport subsector and 1,030 enterprises, with 14,700 employed and a turnover of €3.8bn in the warehousing and support activities for the transport sub-sector.

Under the *Action Plan for Jobs 2014* the EGFSN/Forfás will undertake research aimed at identifying current and planned skills and talent needs of the Freight Transport/Distribution/Logistics Sector and how any gaps can be addressed including through the domestic education supply and continuing professional development.

It is anticipated this report will be available in quarter 4 2014.

Marine Skills

In July 2012, the Taoiseach Enda Kenny launched *Harnessing Our Ocean Wealth - An Integrated Marine Plan for Ireland*, prepared by the Inter-departmental Marine Co-ordination Group. *Harnessing Our Ocean Wealth* sets out a roadmap for the Government's vision, high level goals and integrated actions across policy, governance and business to enable Ireland's marine potential to be realised. One of the actions specified in the plan is the need to identify future skills needs and labour market supply and demand trends in the marine/maritime area and under the *Action Plan for Jobs 2014* the EGFSN/Forfás will undertake this analysis.

It is anticipated this report will be available in quarter 4 2014.

Hospitality Sector

It is anticipated that overseas visitor numbers will increase by 4% in 2014 with total tourism revenue increasing by 12% - also driven by increased spending in the domestic market. This will offer additional employment opportunities in the Hospitality sector for those with the right skillsets. under the *Action Plan for Jobs 2014* the EGFSN/Forfás will undertake research focused on identifying workforce skills and competency requirents for the Hospitality sector in Ireland up to 2020 and actions to ensure the availability of the right skill base to help drive growth of the domestic Hospitality Sector.

It is anticipated this report will be available in early 2015.



The National Skills Bulletin 2014

Produced annually by the Skills and Labour Market Research Unit in SOLAS, the National Skills Bulletin provides an overview of employment trends and demand for skills in Ireland. The Bulletin draws on data on employment, vacancies, job announcements and immigration and other qualitative information held in the National Skills Database, to identify imbalances in the Irish labour market at occupational level.

The next edition of the National Skills Bulletin is scheduled for publication in mid-2014.

Monitoring Ireland's Skill Supply: Trends in Education and Training Output 2014

Undertaken annually by the Skills and Labour Market Research Unit of SOLAS on behalf of the EGFSN, this report examines the numbers of students entering and leaving the education/training system in Ireland and reports on:

- The demographic profile of the school age population
- Junior and leaving cert trends
- Further education and training awards
- Higher education trends
- Where graduates go
- Adult lifelong learning participants

It is envisaged that the next edition of the report will be published in mid-2014.

Regional Labour Markets Bulletin 2014

The Regional Labour Markets Bulletin is produced annually by the Skills and Labour Market Research Unit in SOLAS on behalf of the EGFSN. It provides an overview of the Irish labour market at regional level, by supplying an analysis of the key labour market indicators for each of Ireland's eight administrative regions: Border, Dublin, Mid East, Midland, Mid West, South East, South West and West.

It is envisaged that the next edition of the report will be published in mid-2014.



Appendix 1: Publications by the Expert Group on Future Skills Needs (2007 - 2014)

Report	Publication Date
Regional Labour Markets Bulletin 2013	March 2014
Guidance for Higher Education Providers on Current and Future Skills Needs of Enterprise: Springboard 2014	February 2014
Addressing Future Demand for High-Level ICT Skills	November 2013
Monitoring Ireland's Skills Supply: Trends in Education and Training Outputs 2013	July 2013
National Skills Bulletin 2013	July 2013
Future Skills Requirements of the Manufacturing Sector to 2020	April 2013
The Expert Group on Future Skills Needs Statement of Activity 2012	April 2013
Guidance for Higher Education Providers on Current and Future Skills Needs of Enterprise: Springboard 2013	February 2013
Vacancy Overview 2012	February 2013
Regional Labour Markets Bulletin 2012	January 2013
Monitoring Ireland's Skills Supply: Trends in Education and Training Outputs 2012	July 2012
National Skills Bulletin 2012	July 2012
Key Skills for Enterprise to Trade Internationally	June 2012
EGFSN Statement of Activity 2011	April 2012
Vacancy Overview 2011	February 2012
Guidance for Higher Education Providers on Current and Future Skills Needs of Enterprise (Forfás report based on EGFSN identified future skills needs)	February 2012
Addressing High-Level ICT Skills Recruitment Needs: Research Findings	January 2012
Monitoring Ireland's Skills Supply: Trends in Education and Training Outputs	July 2011
National Skills Bulletin 2011	July 2011
EGFSN Statement of Activity 2010	May 2011
Developing Recognition of Prior Learning: The Role of RPL In the Context of the National Skills Strategy Upskilling Objectives	April 2011
Vacancy Overview 2010	March 2011
Future Skills Needs of Enterprise within the Green Economy in Ireland	November 2010
Future Skills Requirements of the Biopharma-Pharmachem Sector	November 2010
Monitoring Ireland's Skills Supply - Trends in Education and Training Outputs 2010	July 2010



National Skills Bulletin 2010	July 2010
Future Skills Needs of the Wholesale and Retail Sector	May 2010
EGFSN Statement of Activity 2009	April 2010
Future Skills Requirements of the Food and Beverage Sector	November 2009
Skills in Creativity, Design and Innovation	November 2009
Monitoring Ireland's Skill Supply - Trends in Education and Training Outputs 2009	November 2009
National Skills Bulletin 2009	July 2009
A Quantitative Tool for Workforce Planning in Healthcare: Example Simulations	June 2009
EGFSN Statement of Activity 2008	June 2009
A Review of the Employment and Skills Needs of the Construction Industry in Ireland	December 2008
Statement on Raising National Mathematical Achievement	December 2008
National Skills Bulletin 2008	November 2008
All-Island Skills Study	October 2008
Monitoring Ireland's Skills Supply: Trends in Education/Training Outputs 2008	July 2008
The Expert Group on Future Skills Needs Statement of Activity 2007	June 2008
Future Requirement for High-Level ICT Skills in the ICT Sector	June 2008
Future Skills Needs of the Irish Medical Devices Sector	February 2008
Survey of Selected Multi-National Employers' Perceptions of Certain Graduates from Irish Higher Education	December 2007
The Future Skills and Research Needs of the International Financial Services Industry	December 2007
National Skills Bulletin 2007	November 2007
Monitoring Ireland's Skills Supply: Trends in Educational/Training Outputs	June 2007
Tomorrow's Skills: Towards a National Skills Strategy	March 2007

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