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Unemployment in Britain: A European Success Story

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Abstract

Unemployment in Britain has fallen from high European-style levels to US levels. I argue that the key reasons are first the reform of monetary policy, in 1993 with the adoption of inflation targeting and in 1997 with the establishment of the independent Monetary Policy Committee, and second the decline of trade union power. I interpret the reform of monetary policy as an institutional change that reduced inflationary expectations in the face of falling unemployment. The decline of trade union power contributed to the control of wage inflation. The major continental economies failed to match UK performance because of institutional rigidities, despite low inflation expectations.


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1. Introduction

Unemployment in the United Kingdom is one of the European success stories. Starting in 1993, when it stood at 10.3 per cent of the labour force, it came down to 5.1 per cent in 2002. The beneficiary was employment. The percentage of the working-age population employed since 1993 has risen in every year, from 70.4 per cent in 1993 to 74.7 per cent in 2001. The labour force changed very little, from 78.5 percent of the working age population in 1993 to 78.7 percent in 2001. Moreover, both sexes and all ages participated in this employment gain. This paper documents this success story and discusses the reasons behind it.

Section 2 reviews the evidence and shows how the big swings of the 1980s gave way to a long expansion of employment in the 1990s. What appeared like a permanent rise in unemployment in the first half of the 1980s was reversed in the second half of the 1990s. Section 3 discusses the British Beveridge curve, with a view to establishing shifts in the curve which may indicate a structural break. We argue, perhaps unconventionally, that there is only one convincing structural shift, in the second half of the 1970s. The long swings of the 1980s, which appear like long-term shifts, can, in fact, be attributed to cyclical shifts. Section 4 does the same for the Phillips curve and discovers the clue to the British success story. Whereas in the past a prolonged fall in unemployment led to inflationary pressures and contraction, in the 1990s inflation did not materialise. The economy’s expansion was not halted by policy because the inflation constraint did not bind. We argue that the key to this change is the combination of the decline of trade union power and the credible reform of the monetary policy regime, taking place first in 1993, when the exchange rate target was abandoned in favour of an inflation target, and strengthened in 1997, when the Bank of England was given operational independence.

In section 5 I review some of the institutional features of the UK labour market. I argue that the reforms to the unemployment insurance system are unlikely to have contributed much to the fall in unemployment. But the decline of trade union power almost certainly did, in combination with the change in the monetary policy regime. Trade union power reached its peak in Britain in the late 1970s and its trough in the 1990s (for reasons that we do not yet fully understand). The fact that unions did not have the power to push for wage rises when unemployment was falling in the 1990s reinforced the low-inflation credentials of the monetary policy regime, and helped sustain the fall of unemployment.
Section 6 changes theme and reports growth accounting results to show whether the expansion of employment associated with the fall in unemployment was autonomously induced by institutional change or caused by exogenous output shocks. If unemployment falls because of institutional change total factor productivity (TFP) progress and labour productivity should be less important and employment a more important cause of output growth. If, on the other hand, the reason for the fall is an exogenous output shock TFP should be the main driving force of the output growth. I show that in the two big employment expansions, in the late 1980s and in the period since 1993, employment played a bigger role in output growth than in other periods. But although the evidence points to a slightly more important role for employment in the more recent period, it is on the whole unconvincing.

Britain has always been a liberal economy when compared with continental Europe. Employment protection legislation has never been very strong and product market regulation, in the form of start-up costs for new businesses and ongoing business regulation, have been weak (except for a large public sector, which was privatised in the 1980s). So two questions need to be answered to establish our claim that the reform of the monetary policy regime was behind the British success story. First, why was unemployment so low up to the mid 1970s, well before the monetary policy reforms? And second, why did continental Europe, with even stronger anti-inflationary credentials than Britain, not experience a similar success story?

The answer to the first question lies in the nature of the shocks that have hit the British economy. In the period before 1974 the shocks that drove output growth were almost entirely productivity shocks and there was hardly any employment growth. When productivity growth slowed down in the 1970s wage demands did not follow suit and inflation became a constraint to maintaining high employment. The answer to the second question lies in the institutional structure of the labour market. The continental European countries with the anti-inflation credentials have restrictive labour market institutions, which Britain does not have. With the exception of trade union power, where Britain was firmly in the European arena until the second half of the 1980s, British institutions have always been closer to US institutions than to continental European ones. The constraint that stopped Britain short of achieving US-style success in the 1970s and 1980s is the wage pressure and subsequent inflation that each fall in unemployment caused. Once trade unions lost their power and the Bank of England established its anti-inflation credentials, the inflation constraint eased and the British labour market took the transition path from continental Europe to the United States.
2. Unemployment trends

Figure 1 shows the recorded rate of unemployment in Great Britain since 1970 and a rate that is smoothed for short-term fluctuations. Most of the rise in unemployment from the low values of 2 to 3 per cent before 1973 to nearly 12 per cent in 1986 is clearly due to a rise in the smoothed rate. Commentators have concluded from this that the rise in UK unemployment is a rise in the “natural rate,” namely, in the underlying unemployment rate that cannot be reduced by expansionary aggregate demand management.\(^1\) Equally, the fall in unemployment since then, to about 5 per cent of the workforce, is a fall in the natural rate. Currently (2002), aggregate demand policy is neither expansionary nor contractionary, something confirmed by the stability of inflation over the last few years.

Whether the smoothed rate shown in figure 1 is the natural rate and the deviation between the smoothed rate and the actual rate is the cyclical component is open to question. One thing that we can say is that the deviation between the two rates shown in figure 1 is not the only component of cyclical unemployment. Cyclical shocks can be real and the natural rate as defined in the preceding paragraph is a cyclical variable. It is certainly true to say, however, that changes in unemployment due to unanticipated monetary policy are not interesting in the British context.

The series shown in figure 1, which is based on the labour-force based ILO definition of unemployment, rises fast between 1979 and 1983 and then falls fast again after 1986. This is a feature of other definitions of unemployment in the 1980s, but whether the peak year is 1983, 84 or 86 varies according to definition. The underlying feature of unemployment in the 1980s (the “stylised fact”) is a fast rise in 1979-83, a plateau in 1983-86, and a fast decline in 1986-90. The plateau took place at a time when the economy and labour productivity were growing fast, and it is the feature that gave rise to the “hysteresis” view of unemployment. Namely, why did the rise in the actual rate of unemployment persist well into the recovery?\(^2\)

In order to shed more light into what was really happening to unemployment during this period we turn to employment data. The employment series shown in figure 2 shows a fast decline between 1979 and 1983, and then a fast recovery between 1983 and 1989; i.e., there is no plateau. Naturally, this is reflected in the labour force series. Adding together the employment and unemployment series gives the participation rate shown in figure 2.

\(^1\) This goes back at least to Bruno and Sachs (1985). The work of Layard and Nickell (see e.g. Layard et al., 1991, Nickell, 1997, and Layard and Nickell, 1999), Phelps (1994), Blanchard and Wolfers (2000), as well as mine (Pissarides, 1986, 1999) also reaches similar conclusions.

\(^2\) See, for example, Blanchard and Summers (1986), Layard et al. (1991) and Pissarides (1992).
Participation rises between 1965 and 1980, falls sharply between 1980 and 1983 and rises again between 1983 and 1986. The “hysteresis” years of 1983-86 appear to be years of rising employment but not falling unemployment. In figure 3 I correct for the temporary changes in the participation rate, which is a reflection of “discouraged” workers who were obviously prepared to come back into employment when the opportunities presented themselves. The participation rate was put through an HP filter and the difference between the filtered participation series and the actual employment series plotted against the recorded unemployment series. The two series track each other very closely, except for the period 1983-86. The plateau disappears and the constructed unemployment series shows a steep cycle that peaks in 1983, and falls when the economy begins its recovery in that year. It would appear that on this interpretation, the “mystery” that taxed the minds of labour economists at the time – why is unemployment apparently immune to what is happening elsewhere in the economy – is a peculiarity of the statistical definition of unemployment. Namely, the fact that it ignores discouraged workers who are available to take up work but are not searching when the number of vacancies is very low.

The duration of unemployment in the recent expansion has been relatively unaffected until 1997, when the ratio of long term unemployment (over 52 weeks) to the total declined sharply, and the ratio of under 26 weeks increased sharply (figure 4). This is consistent with the view that in expansion the main vehicle for changes in the long-term unemployment rate is the inflow from short-term unemployment and not the outflow. Namely, when the expansion started the long-term unemployed did not initially benefit more from it than the short term unemployed did, but their numbers declined because as more of the short-term unemployed found jobs fewer entered long-term unemployment.

The number of new jobs created in the 1990s have mostly been full-time regular jobs. Figures 5 and 6 show the proportion of part-time and temporary jobs for men and women separately. The proportion of temporary jobs grew slightly for both sexes in the 1990s, but only by about 1 percentage point in total. Temporary jobs are below 8 per cent for both sexes and not an important ingredient of British labour markets, perhaps because employers do not have much difficulty hiring and firing employees as needs arise.

Part-time jobs, however, are a different proposition altogether, especially for women. Part-time jobs are an important element in the female labour market, accounting for about 45 per cent of total employment. Perhaps surprisingly, this proportion has been fairly constant during the recent cycles in employment. Survey evidence shows that far from employers using part-time jobs for women to smooth fluctuations, or to get around labour restrictions,
they are jobs which are in demand by women and used by employers in their normal operations\(^3\)

Part-time jobs for men account for a much smaller fraction of employment but this fraction has grown by some three percentage points during the recent employment expansion. The fastest growth, however, took place during the employment contraction of 1989-93, and it continued in the subsequent expansion, especially in 1993-97. This goes against any argument that the fall in male unemployment after 1993 is due to the expansion of part-time jobs. More work is needed on the role of part-time jobs in the male labour force, as more Labour Force Survey data become available and part-time jobs are acquiring an increasing role in it.\(^4\)

3. The UK Beveridge Curve

Beveridge curves have become important tools for identifying the causes of changes in unemployment. Their interpretation, however, is still open to question. Recent theoretical advances show that both the cycle and structural changes can shift the Beveridge curve, although the shift due to the business cycle should reverse when the cycle reverses.

The position of the Beveridge curve depends on the rate of job destruction in the economy (the ratio of jobs destroyed to the stock of employment), the incentives that unemployed workers have to look for a job and on mismatch. The Beveridge curve should be further away from the origin in recession than in recovery. One reason for this claim is the higher job destruction that takes place in recession. Another is connected with the search disincentives that workers have in recession. Search disincentives are likely to be higher in recession partly because non-market returns, including the real level of unemployment benefits, are likely to be less cyclical than market returns, and partly because during recession the average duration of unemployment lengthens and discouragement builds up. The traditional classification of shocks as cyclical when they cause a movement along the curve and structural when they shift the curve needs to be modified to take into account large departures of the economy from the underlying curve that may appear as shifts to the econometrician, although they are temporary deviations due to the cycle.

Generally speaking, a structural shift in the Beveridge curve is one that does not reverse itself when the cycle returns to the point where it was when the curve started its shift.

\(^3\) Evidence on job satisfaction can be found in the European Household Panel. See Pissarides et al (2003) on this and other issues relating to the female labour market in Europe and the United Kingdom. The “women’s” literature dismisses part-time jobs as secondary, but without evidence beyond some anecdotes. See e.g. Franks (1999, p. 79-86).

\(^4\) For example, there has been a large rise in the number of full-time students holding part-time jobs, which needs more research.
One that reverses is a cyclical one. The problem with identifying some shifts is that the cycle may be long, and the temporary shift in the Beveridge curve associated with it may last sufficiently long to appear as a structural one.

The UK Beveridge curve, shown in figure 7, is consequently open to more than one interpretation, depending on how one views the apparent shifts in the curve. My interpretation of some of the observations on this curve is unconventional. A “textbook” interpretation is provided by the experience of the 1970s. In 1974 vacancies were falling sharply and unemployment was rising, so one would expect the 1975 observation to be to the left of the 1972 one. This is not the case in figure 7 so this would normally be evidence of a small shift. But if instead of actual unemployment we use the corrected unemployment series of figure 3 this shift disappears: the 1975 observation in the corrected series is to the left of the 1972 one. A much more pronounced shift in the curve took place between 1975 and 1978. The key to a structural shift at this time lies in the fact that when vacancies recovered in 1978 and 1979, they recovered at some 2 percentage points of unemployment above the level that the observations from the early 1970s would lead one to expect. Between 1970 and 1981 there are two Beveridge curves in the UK, each broadly associated with a growth cycle. The curve traced by the 1978-81 observations is clearly to the right of the one traced by the 1970-74 observations. The shift in the curve in the second half of the 1970s was probably due to the sharp realignment of relative input prices that took place in 1974-5, and the mismatches that it created in the labour market.

An apparently uncontroversial interpretation of what happens next is that between 1981 and 1983 the curve shifted out, because of its north-eastern movement. But my interpretation is that this shift is temporary, and is associated with an unusually long cycle. The outward shift in the early 1980s was due to two events, the big structural change that took place in the British economy in the early 1980s, with the associated fast decline of manufacturing, and the built up of long-term unemployment, which followed the unusually deep recession in 1981. Both these events eventually corrected themselves, in the recovery phase of the cycle. The rate of growth of GDP increased in the UK in every year between 1980 and 1988 (except for 1984), the rate in 1988 being the highest observed since 1973. Growth was still positive in 1990. The deep recession of 1981 was succeeded by the long recovery of 1981-90. Because the recession in the early 1980s was so deep, the shift in the curve associated with the cycle was bigger than in previous cycles. The return path was also longer and slower than previously. The built-up of long-term unemployment and the discouragement that it precipitated are key to the slow reversal of the shift. The observations
from 1980 to 1989 trace an unusually large anti-clockwise loop, with 1983-86 the deepest points of the recession in the labour market.

The increase in long-term unemployment in the 1980s led to the introduction of active labour market policies. ALMPs shift the Beveridge curve towards the origin and Britain had some moderate success with these, especially with the restart programme for the long-term unemployed (see Jackman et al, 1990, OECD, 1993). At best, however, these programmes accelerated the self-correcting mechanism that took place during recovery. It is doubtful whether the active labour market policy measures of the late 1980s had a permanent effect on the position of the Beveridge curve.

1989 appears to be a turning point in the labour market. Growth was at 2 per cent, unemployment down to 6 per cent and vacancies high. In 1990 growth and vacancies fell sharply but unemployment continued for a while its downward path. A doubt that may be raised about the cyclical interpretation of the shift in the 1980s is the question, why did unemployment not fall more before recession came in 1990? The recession of the early 1990s, however, was policy-induced. Monetary policy in Britain changed at this time, first shadowing the deutchemark and then entering the ERM, and the 1989 inflation rate of 7.5 per cent was unsustainable (the Chancellor of the Exchequer expressed “surprise” by how quickly inflationary pressures followed his expansion of 1986-7). In 1990 the economy was subjected to a large deflationary monetary shock which lacked credibility (see below for more on this) and unemployment increased.

The question for the Beveridge curve is whether the fact that the 1989-93 increase in unemployment is to the right of the 1979-81 increase is evidence of more mismatch in the labour market in the 1990s than in the early 1980s. There can be no clear answer to this question but my interpretation of it is that it is not. The Phillips curve discussion in the next section gives more support. Inflation was much higher in the early 1980s but in the early 1990s external pressures forced a contractionary aggregate policy which stopped the economy short of returning to its 1979-80 position.

The loop traced from 1989 to 1997 is another textbook Beveridge curve. But once in the low unemployment equilibrium of 1997, no contraction took place, despite a small fall in the GDP growth rate. Unemployment continued to fall, and by 2000-01 it reached its late 1970s position. Is this evidence of an inward shift or is it a return to the steady-state position of the late 1970s, after the long recession and recovery of the 1980s and 1990s? There is evidence to support both lines of reasoning. From 1994 onwards growth was steady or falling, vacancies were steady, inflation was steady and yet unemployment was falling. Viewed in
this light, this is evidence that something happened in the labour market which improved the natural rate. One can look for institutional reform in the labour market but these were also years of fundamental reforms to monetary policy, which did not allow inflationary pressures to build up. We claim that the monetary policy regime can be important in labour markets beyond the short run, and argue that the dynamics of the natural rate observed in the 1990s can be attributed to the reform of monetary policy. This introduces an old fashioned, yet currently neglected “institution” in the dynamics of unemployment, monetary policy, but it introduces it as an influence on the NAIRU, not on the short-run deviation between the NAIRU and actual unemployment. To see the importance of this we turn to the Phillips curve.

4. The UK Phillips Curve

Before the advent of supply shocks and the Lucas critique of the Phillips curve, the dynamics of unemployment in the UK were described in terms of the “stop-go” cycle. The Phillips curve played a key role in this description. Starting from recession, the economy was given the “go,” to bring unemployment down. But after a brief fall, inflation picked up. The “brakes” were applied, to bring it under control. Both expansionary and contractionary policies were real – fiscal policy, the regulation of hire-purchase\(^5\) – although interest rate policy was also used as an anti-cyclical tool.

In modern language the stop-go cycle describes the interplay between a “shock,” real aggregate policy, and an “institution,” the monetary policy regime. The monetary policy regime determines expectations, and expectations determine the point at which inflation picks up to check a further decline in unemployment. Inflation is a constraint on low unemployment, and because inflation differentials across the world cannot be large for long periods, countries with more inflationary bias in their monetary policy regime have to operate at a higher level of average unemployment than countries with lower inflationary bias. A close look at the UK Phillips curve tells this story. It is shown in figure 8 for the years 1965-2001. The Phillips curve with corrected unemployment tells a similar story, except that the recovery of 1986 shown in figure 8 starts in 1983.

In 1973-75 the supply shocks hit and moved the economy in a north-eastern direction, increasing both inflation and unemployment. There have been three cycles in the UK since 1975 and each one traced a path in inflation-unemployment space that was increasingly flatter.

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\(^5\) Before the widespread use of credit cards, most durables were financed by hire-purchase, essentially a loan arranged by the seller of the durable and repaid in instalments. Policy controlled the minimum down-payment, namely, the cash amount that the seller had to put up initially, and used this down-payment as a means of cyclical control of the economy.
and closer to the horizontal unemployment axis than the previous one. From 1975 to 1986 (or to 1983 with corrected unemployment) the path traced by the economy is a textbook example of a short-run Phillips curve, with a minor exception in 1979-80, when another oil shock moved the economy north-eastwards. The predominant move from 1975 to 1986 is one of a fall in demand and a move down, along a fairly steep curve. Inflation fell from 26 to nearly 3 per cent but unemployment rose from 3 to 12 per cent. The period 1986 to 1993 traces another textbook Phillips cycle, but now along a flatter curve. The trade-off improves. Unemployment went down from 12 to 6 per cent but inflation increased only from 3.3 to 7.5 per cent. Then, in 1993, unemployment falls again, and the fall continues to the end of the sample, along an even flatter Phillips curve. Unemployment fell from 10.5 to 5 per cent with hardly any move in inflation.

Thus, excluding the oil shocks, we can trace three “Phillips curves” in the UK, with increasing flatness. The less favourable curve of the 1975-86 period, the flatter and more favourable trade-off of the 1986-93 period and the most favourable trade off, the post-1993 period. A natural interpretation of this downward shift of the Phillips curve is in terms of inflation expectations. In the late 1970s inflation became so entrenched that a fall in demand – justified by “monetarism,” which, despite popular belief, started in 1976 with the visit of the IMF and not with Thatcher – caused a lot of unemployment before inflation could be brought down. By 1986 the recession and the monetarist policy followed by the government finally brought inflation expectations down, but they did not eliminate their cause. When the government expanded the economy again in 1987, with an election imminent, unemployment fell along a flatter Phillips curve. But inflation increased to a level that was still inconsistent with government policy objectives. The objectives of monetary policy changed in the late 1980s to an exchange rate target, with sterling shadowing the deutschmark, first from outside and then from inside the European Exchange Rate Mechanism (ERM). An inflation rate of 7.5 per cent was inconsistent with this target, necessitating disinflation and a new policy switch.

Late in 1992 Britain exited the ERM and the Bank of England introduced inflation targeting. Although independence was not granted to the Bank until 1997, when inflation expectations fell dramatically, the exit from the ERM and introduction of inflation targeting did not increase expectations except perhaps slightly at first, which may explain the move of inflation from 1.4 in 1994 to 3.3 in 1996. But inflation targeting soon brought inflation expectations down and the granting of independence to the Bank in 1997, with low inflation
as the only objective, made the short-run Phillips curve essentially flat.\(^6\) The monetary policy regime became an “employment-friendly” institution. The growth of the second half of the 1990s did not hit the inflation constraint but allowed unemployment to fall to the levels of the high inflation era of the late 1970s.

Is it reasonable to attribute so much sluggishness to inflation expectations as is apparent in the 1970s and 1980s? If we think of inflation expectations in the way that economists used to think of them when they were estimating Phillips curves, as either adaptive or rational, the plausible answer is no, it is unlikely that inflation expectations take so long to adjust to events. But if we rethink the issue in terms of the credibility of monetary policy the answer changes. In the 1970s and early 1980s the public could not believe that the inflation bias in British monetary and fiscal policy was taken out of the system. The Treasury refused to change the institutional rules of monetary policy and monetary policy was discretionary and completely under Treasury control. The Thatcher disinflation lacked credibility. It took a massive recession and a large increase in unemployment to bring inflation down and it took four years to do it.

In 1987, when the expansion was obviously politically-motivated and the operational ways of the Bank of England did not change, inflation fears built up, as unemployment fell. But the fear of a complete return to the high inflation era of the late 1970s was averted, partly because by this time the government established better anti-inflation credentials and partly because of the switch to the exchange rate target. But the fears were enough to push prices up to unsustainable levels, albeit much below the inflation levels of a decade earlier. In 1990 another policy-induced recession aimed at the high inflation led to an increase in unemployment.

But in 1993 the change in the target was an important operational change and in 1997 it virtually acquired the force of law, with the establishment of the independent Monetary Policy Committee. The economy could then be allowed to expand and bring unemployment down beyond the levels of the late 1980s, because inflation was removed as an obstacle to the expansion. Looking at the Beveridge diagram in figure 7 it is apparent that the critical era began in 1997, when the economy returned to where it was in 1989. But whereas in 1989 inflation rose to 7.5 per cent and the policy brakes had to be applied, in 1997 inflation was still on target, below 3 per cent, and expansion could be allowed to continue.

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\(^6\) See Johnson (2002) and references therein for the negative influence of inflation targeting on inflation expectations in Britain and elsewhere. Nelson and Nikolov (2002) show that if monetary policy after the 1973 shocks was run on the same principles as after 1992 the high inflation of the mid 1970s would have been avoided.
5. Labour market institutions

Are there any other institutional changes that can explain the fall in the UK natural unemployment rate?

Panel regressions for the OECD show that the important labour-market institutions that influence unemployment are the unemployment insurance system and unionisation. Employment protection legislation is also sometimes found to be restricting employment growth, but the results are not robust and usually (as suggested by theory) employment protection’s influence on unemployment is ambiguous. More recently, product market regulation has been found to be at least as important as labour market regulation in its influence on unemployment, whereas general taxation, in the form of the tax wedge between labour costs and take-home pay, has failed to show up significantly in unemployment regressions.

Product market regulation includes entry costs for new enterprises, taxation of entrepreneurial activity, state control of industry and regulation of domestic and international trade. The United Kingdom has always been one of the least regulated countries in Europe across the board. The OECD published a comprehensive ranking of 20 economies in 1997 in terms of their performance along a number of dimensions of product market regulation (see Nicoletti, Scarpetta and Boylaud, 2000). The United Kingdom came top, beating even the United States. Of the major European economies Germany was 8th, France was 18th and Italy 20th. Unfortunately there is no time series information on product market regulation to draw on, but with the exception of the privatisation programme of the 1980s, which reduced the UK government’s state control of industry, there is no obvious reason to believe that the relative ranking of the UK has changed in this respect. It is also unlikely that the privatisation programme led to a big reduction in unemployment, although it may have contributed to the decline of unions and the moderation of wage demands.

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8 Blanchard and Wolfers (2000) find it to be significant but they are the exception rather than the rule. See OECD (1999), Bertola (1999) and Pissarides (2001) for more discussion.
10 Another possible candidate for the fall in the natural rate after 1997 is active labour market policy in the form of the New Deal program for the unemployed, which was introduced by the new Labour Government in 1998. The program covered only young people aged 18-24, who had been unemployed for six months. Although its impact on the treatment group was large (Blundell et al, 2002, estimate that on average it increased the transition from unemployment to employment by about five percentage points, or 20 per cent, in the first four months of treatment), the treatment group was too small and the program too recent to have had an impact on aggregate unemployment dynamics.
The tax wedge grew in Britain between 1974 and 1981 but declined virtually monotonically since then (figure 9). But although the timing is approximately right for the underlying changes in unemployment, it is unlikely to be a major contributor to the fall of unemployment in the 1990s. First, the fall in taxes from 1987 to 1990 was at about the same order of magnitude as the fall between 1982 and 1985, and in the 1982-85 period unemployment experienced its biggest rise. Second, the fall in the 1990s was of a much smaller order of magnitude than in earlier periods. And finally, panel regressions of unemployment do not find a significant influence of the tax wedge on unemployment.11

We turn now to a discussion of the two labour market institutions that usually are found to be significant in panel regressions, unemployment insurance and unionisation. Two parameters are usually used to capture the influence of the unemployment insurance system, the ratio of compensation to the mean wage and the duration of entitlement. However, since the most frequently used measure of duration is the percentage of benefit that an unemployed worker retains after one year of claiming, this is equivalent to using two replacement ratio measures, one that applies to the typical unemployed person with less that 52 weeks unemployment and one applying to those with more than 52 weeks. The two series for the UK are shown in figure 10.

The replacement ratios shown in figure 10 do not tell a very convincing story. Replacement ratios are generally low by European standards. In the 1970s they fell and then rose again but no major changes took place. Beginning in 1980, the replacement ratio for the short-term unemployed declined fast, from its 1980 value of 33 per cent to 26 per cent in 1982 and to 21.5 per cent in 1988. The ratio for the long-term unemployed also declined, but the decline started later and it was smaller, from nearly 20 per cent in 1982 to 15 per cent in 1990.

Since unemployment was rising fast in the UK up to 1984, the time of the biggest fall in the replacement ratio, unemployment insurance policy cannot explain the rise in unemployment. In 1983 the recovery started and unemployment benefits were falling. But unemployment fell fast yet replacement ratios after the mid 1980s declined very little. It would require a large impact of replacement ratios on unemployment and a very large elasticity to explain the fall in unemployment, if UI is to be the driving force. Elasticities estimated in micro studies are usually small. The fall in the replacement ratio from the mid

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11 Taxes should influence unemployment, if at all, only when they are distortionary, e.g., when they are progressive or when they distort incentives during job search through the differential taxation of unemployment benefits. Non-distortionary taxes should be absorbed by wages without effect on unemployment, given the long-run tendency of the supply of labour not to respond to changes such as the secular growth in productivity.
1980s may have contributed to the decline in unemployment, but it could not have been the cause.

Unemployment insurance may, however, have played a role through other channels, which may have come into play in the UK in the second half of the 1980s. One is the built-up of long-term unemployment and another is trade unionism.

The built up of long-term unemployment in the UK was blamed for the persistence of unemployment in the mid 1980s. Without generous and long-lasting unemployment benefits, the argument goes, long-term unemployment would not have built up and unemployment would not have persisted. The United States is again used as an example of a country with limited duration benefits that has no long-term unemployment. Empirical evidence is not very convincing but those who looked at it became convinced that the duration of benefits is critical in the built up of long-term unemployment. The claim that long-term unemployment causes persistence is also probably justified, although this requires duration-dependence in exit probabilities, which has not been established beyond doubt in micro studies. It might therefore be argued that the reforms to unemployment insurance at the end of the 1980s, including the fall in the level of benefits and the introduction of active policies targeted to the long-term unemployed, helped to contain the rise in long-term unemployment in the recession of 1990-93. Figure 4 shows that long-term unemployment was falling throughout the 1990s.

The second institution that is found to be important in empirical studies is unionisation. Unionisation expanded in the 1970s and reached its peak in the late 1970s (figure 11). Beginning in 1979 union power declined and in the 1990s unions became ineffective. Legislation that curtailed union power was passed in the early 1980s, with the most important measure probably being the 1986 legislation, which prohibited the closed shop. There has been a long debate whether the legislation was responsible for the decline of unions in the UK, in light of the fact that unions declined also in other large European countries which did not pass anti-union legislation. Checchi and Lucifora (2002), who looked at union density in a large number of countries, concluded that the decline of public sector employment in the UK and the Thatcher government’s anti-union legislation contributed to the decline of unions. But in their summary evaluation the United Kingdom appears to be exactly at the median of the sample. The absence of state insurance provision (in the form generous unemployment benefits, employment protection legislation and wage indexation clauses) predicts that the UK should have about 6 percentage points more coverage than the

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13 See Booth (1995).
mean but a large country fixed effect predicts that it should have 6 percentage points less than the mean.

Has the decline of trade unions been important in the fall in unemployment in the late 1990s? The empirical research of Nickell et al (1999) and others appears to make this the most important factor in the fall of unemployment. The decline of unions alone, however, is not enough to explain the job creation of the 1990s. We argued that what was different in the 1990s expansion was that inflation did not rise to provoke a reaction from government policy. We credited this to changes in the monetary environment but the fact that unions were weak reinforced the low-inflation environment. Unions in the 1970s and early 1980s put in large wage claims when unemployment was falling, which were either accommodated by policy or caused unemployment. In the 1990s they did not put in large claims. Whether they did not because they expected the Bank of England to keep inflation low, or whether they did not because they did not have the power to do it is a moot point. Given empirical results by others, however, some of the employment gains in the 90s must be due to the inability of unions to appropriate the gains from the expansion of labour demand for their employed members.

6. Identifying the causes of employment growth

There have been three periods of cyclical GDP growth in the United Kingdom since the mid 1970s, roughly in 1976-79, 1982-89 and 1993-2001. In each unemployment fell, but in the first expansion the employment rate did not rise. In the other two it rose very rapidly. Another feature of each expansion is more interesting. In the first two expansions labour productivity grew above trend. In the last it grew below trend, with the exception of two years, 1994 and 1995. If instead of labour productivity we look at TFP the difference is even more striking. TFP grew above trend in the first two expansions and below trend in each and every year since 1993. This information is useful for the following reason. If unemployment falls because of new job creation that is caused by an external shock to output, we should expect labour productivity to rise above trend. The external shock raises labour productivity, increases the demand for labour and leads to more job creation. But if employment is growing because of some institutional reform that increases the demand for labour, employment becomes the driving force of output growth and so productivity should be rising below trend.

The behaviour of labour productivity appears to suggest that the 1990s expansion was different from the previous ones, and driven by institutional reform. But there are more convincing ways of applying this taxonomy. Growth accounting exercises decompose the
growth in output into one of three reasons, employment growth, capital growth or TFP. If institutional reform is important in driving employment growth the contribution of employment to output growth should be above historical levels. Figure 12 shows precisely this indicator. It is the difference between the contribution to output growth of the combined TFP growth and capital accumulation on the one hand and employment on the other. The variable shown is very cyclical, rising in periods of output expansion and falling in recession. But in the growth years of the 1980s the difference is large, indicating relatively more important productivity growth. With the exception of one year, 1984, the contribution of capital and TFP growth to output growth is more important in the 80s expansion than in the expansion of the late 1990s.

This is confirmed by Table 1, which shows the average contribution of each factor to output growth for selected periods since 1960. On average employment growth contributed 9.6 per cent to output growth. In the expansion of the 1960s the contribution of employment was smaller and it was negative in the contraction of the 1970s. But it increased to 17.1 per cent in the expansion of the 1980s and to 19.6 per cent in the expansion of the 1990s. Thus, in the more recent cycles firms relied more on job creation than on investment and new technology as vehicles for output growth. They could do this because of institutional changes that reduced their expectations of wage growth: the decline of union power and the anti-inflation credentials of the new monetary policy regime are again key to this.

<table>
<thead>
<tr>
<th>Period</th>
<th>GDP growth</th>
<th>Employment</th>
<th>Capital</th>
<th>TFP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1960-2001</td>
<td>2.5</td>
<td>9.6</td>
<td>49.9</td>
<td>40.5</td>
</tr>
<tr>
<td>1960-1973</td>
<td>3.3</td>
<td>7.5</td>
<td>55.3</td>
<td>37.2</td>
</tr>
<tr>
<td>1974-1983</td>
<td>1.1</td>
<td>-34.2</td>
<td>79.7</td>
<td>54.5</td>
</tr>
<tr>
<td>1983-1992</td>
<td>2.5</td>
<td>17.1</td>
<td>39.1</td>
<td>43.8</td>
</tr>
<tr>
<td>1993-2001</td>
<td>3.0</td>
<td>19.6</td>
<td>33.1</td>
<td>47.2</td>
</tr>
</tbody>
</table>

But not much should be made of this because there are only two cyclical upswings, and they exhibit very similar behaviour in the growth accounting sense. And the most
important influence on output is still productivity growth. The biggest contrast to emerge
from the growth accounting exercises is between the period before the mid 1980s and the
period after. This will prove useful in another context, to which we now turn.

7. Possible objections

Our claim that the key to the British success story is the combination of monetary
policy reform and the decline of trade union power needs to deal with two objections. First, it
has to explain why unemployment in European countries that have had credible low-inflation
institutions since the 1960s did not have the same unemployment history as Britain did.
Germany is a case in point. Unemployment in Germany is now amongst the highest in
Europe. Second, Britain had the inflation bias before 1974 but unemployment did not take off.
Why?

The answer to the first question is to be found in other labour market institutions.
Institutions such as high minimum wages, generous unemployment insurance and stringent
product market regulation can cause high unemployment whatever the monetary policy
regime. British institutions, especially since the mid 1980s, have been closer to those of the
United States than to those of Europe. Britain did not have minimum wages to speak of,
always ranked low on product market regulation and the level of its unemployment benefits
has been below other European countries’ levels. Yet, Britain’s unemployment history until
the early 1990s was the history of Europe. The reason is the British economy’s inability to
come out of the 1970s supply shocks with low inflation at prevailing unemployment rates.
Union demands in the 1970s and early 1980s were aggressive and created industrial strife,
with which the government was unable to deal without causing a big rise in unemployment. It
was also unable to deal with the price rises caused by the supply shocks with the prevailing
monetary policy regime. Other European countries could deal with inflation more effectively
but their labour markets were not flexible enough to adapt quickly to the new conditions
without causing high unemployment. So although the unemployment history of the UK was
similar to that of Europe, the causes for the rise in unemployment were different. By the early
1990s unions lost their power to push for big wage rises in the face of falling unemployment
and monetary policy was addressed specifically to inflation. The history of unemployment
and inflation in Britain since then has had more features in common with the history of
unemployment and inflation in the United States than with their history in continental Europe.

The answer to the second question, why was unemployment low in the 1960s, has to
be found in the type of shocks that hit the British economy. The problems that surfaced in the

1970s and 1980s were present in 1960s Britain, but were overshadowed by a buoyant economy, protected from foreign competition and growing fast to reconstruct after the war. The shocks that hit Britain in the 1960s and up to 1973 were positive productivity shocks. In Table 1, the period up to 1963 is one of growth but of very small contribution from employment and a large contribution from TFP progress and investment. The employment rate in 1971-72 was at the same level as it was in 1965-66 (see figure 2). Between 1962 and 1973 the GDP growth rate exceeded 2 per cent in each and every year, and the rate of growth of labour productivity was rising faster than trend from one year to the next. The economy was operating at full employment, but despite the buoyant conditions employment was not growing. When the negative supply shocks hit in the mid 1970s and the rate of growth of productivity declined, neither the full employment nor the previous rate of increase of real wages could be sustained at low inflation rates. Unions became more aggressive in their demands and the Bank of England accommodated wage demands and public deficits. It was realised that the policy was unsustainable as early as 1976, but the strong disinflation and waning of union influence did not take place until after the election of a new government in 1979.

8. Conclusions

We argued that the recent history of UK unemployment is a success story, essentially because the reforms of monetary policy that took place after 1993, combined with the decline of trade union power, removed the inflation constraint from a prolonged expansion in real aggregate demand. There is some evidence from growth accounting calculations that the reforms also contributed independently to output growth, but it is doubtful whether in themselves they have been a significant driving force of employment growth. It is more likely that they enabled a larger fall in unemployment in the face of rising aggregate demand than would have been possible under the regimes of the 1970s and 1980s.

The view that unemployment in Europe has been structural has been so entrenched in the minds of economists that monetary factors no longer receive a mention in papers on the rise and fall of unemployment. Yet, there is a fundamental difference between monetary factors as reflected in temporary deviations between actual and expected prices and monetary factors as reflected in the institutional structure of monetary policy. In a world where inflation differentials between countries cannot deviate for very long, an institutional structure that has the reputation that it accommodates union wage demands and large budget deficits can act as a constraint on the expansion of economic activity. A change in the credibility of the regime,
backed by legal reforms, can have a large long-term impact on the real labour market outcome.

This appears to be the factor behind the recent successes in the United Kingdom. With respect to labour-market institutions, Britain has always been at the less interventionist end of the European spectrum, resembling in many respects the United States. The reason its employment performance failed to mimic employment performance in the United States was the combination of strong trade unions and accommodating monetary policy. In the 1980s it required a large increase in unemployment to bring inflation down, because strong trade unions and the absence of institutional reforms to monetary policy led to large wage demands, in the face of built-in expectations that inflation would erode real earnings. The decline of union power and the reforms to the monetary policy regime that took place in the 1990s removed inflation expectations from the labour market and allowed unemployment to fall without causing big wage demands and inflation.

References


Data sources

The main sources are the UK Office of National Statistics (available on line at http://www.statistics.gov.uk/) and the OECD. Statistics are generally comparable in the two sources. The institutional variables (tax wedge, replacement ratio for short and long-term unemployed and union density) are not available at either side and were obtained from Nickell et al (2001).
Figure 1
Actual and Smoothed Unemployment Rates
Figure 2
Participation and Employment Rates
(per cent of working age population)
Figure 3
Corrected and Recorded Unemployment Rates
Figure 4
The Duration of Unemployment
(percentage distribution, claimant count, monthly)
Figure 5
Part-time and Temporary Jobs: Men
(as a percentage of employment)
Figure 6
Part-time and Temporary Jobs: Women
(as a percentage of employment)
Figure 7
The UK Beveridge Curve

unemployment
0.0% 2.0% 4.0% 6.0% 8.0% 10.0% 12.0% 14.0%

vacancies
0.5% 0.6% 0.7% 0.8% 0.9% 1.0% 1.1%
Figure 8
The UK Phillips Curve
Figure 10
Replacement Ratio for Short-Term and Long-Term Unemployed
Figure 12
Growth Accounting: Difference between the Contribution of TFP and Capital and the Contribution of Labour