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<th><strong>Title</strong></th>
<th>Is the celtic tiger a paper tiger?</th>
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Policy Discussion Forum

This section of the *Quarterly Economic Commentary (QEC)* hopes to foster debate on topics of contemporary relevance and importance for the Irish economy. Articles or comments on the topics put forward and recommendations for topics to be addressed can be sent to the Editor of the *QEC*. The opinions expressed in this forum are not necessarily those held by the Editor or the ESRI. Indeed, contrary views are most welcome to enhance the policy discussion this section hopes to engender.
WHAT HAVE WE LEARNT FROM THE “CELTIC TIGER” PHASE OF IRISH ECONOMIC DEVELOPMENT?

The success of the Irish economy over the last decade has rightly attracted enormous attention from both domestic and international commentators. The remarkable phase of high economic growth rates throughout the 1990s and into the new century has led to the Irish economy being dubbed the “Celtic Tiger”, a term that has quickly been subsumed into national lexicon. Leaving aside the appropriateness of the term, the factors that have led to the significant turnaround in the economic fortunes of Ireland in a relatively short time-span deserve close scrutiny so as to inform future policy direction.

The, sometimes, mocking adage attributed to economists of “that is alright in practice but how does it work in theory” may seem applicable in looking back at the recent past. There is, however, an important lesson contained within it, which is that in order to understand the course that the Irish economy is likely to follow in the future, it is necessary to identify the factors and their interactions that have led the economy to its current development stage. The aim of this discussion forum is to consider what lessons can be drawn from the Irish experience throughout the “Celtic Tiger” phase and before.

The two articles that follow consider what lessons can be learnt from two perspectives. Cormac Ó Gráda poses the question of whether the Irish economy was “paper tiger” and that the rapid economic growth in the 1990s was a delayed convergence of the Irish economy after decades lagging most of Western Europe. While the delayed convergence factors are considered important the substantial changes in the Irish economy demonstrate that it is not merely a paper tiger. In contrast, Liam Gallagher, Eleanor Doyle and Eoin O’Leary consider a business model perspective, based on the work of Michael Porter, to understand the growth in the Irish economy. They examine the industrial evolution of the Irish economy to provide a framework to see the foundations of the economic success at firm, sector and national levels.
Is the Celtic Tiger a Paper Tiger?

Cormac Ó Gráda

In 2000 Ireland’s GDP grew faster than anywhere else in the world. In 2001 Ireland remained at the top of the OECD growth league (Economist Intelligence Unit, 2001: 10-11; OECD, 2001: vi). Nonetheless, though the Irish economy continues to attract the headlines, gone is the euphoric tone of even a year or two ago. Now attention focuses more on plant closures by (mainly US) multinationals and the downward revision of growth forecasts. Economists debate the prospects of a “soft landing” and the sustainability of growth rates half or less those experienced in the 1990s. Nonetheless, the achievements of the last decade or so have been indeed notable. For reasons noted below, they are better captured by GNP per head than by GDP per head. Not only has GNP per head in the Republic moved far ahead of Northern Ireland’s in the 1990s, but it has reached that of the UK as a whole. Living standards have risen too, if not quite in tandem. Who would have believed all this possible even a decade ago?

Just as there was no hint in the economic commentary of the early 1990s that a Celtic Tiger was about to roar, there was little sense in the commentary of the late 1990s that the experience might prove temporary. Accounts of the Irish economic miracle (e.g. Gray, 1997; Sweeney, 1998; Tansey, 1999; Barry, 1999) seemed to imply that Ireland had switched definitively to a new, higher, steady state growth regime. So much so that for a few years policy makers from far and near sought the key to achieving rapid sustained economic growth from Ireland. It became the turn of IDA personnel and Irish economists to travel abroad offering rather than seeking advice.

A longer term, more historical perspective suggests a less dramatic spin. Measuring the performance of the Irish economy against that of the OECD convergence club (shorthand for the pattern reflected in Figures 1(a) and 1(b) below) between mid-century and the mid-1980s implies serious under-achievement. In this period only the 1960s offered a ray of hope. The 1950s were a “lost decade” of virtual stagnation and mass emigration, while between 1973 and the mid-1980s the record was one of initial growth fuelled by reckless fiscal deficits and a bloated public sector,

1 An earlier version of this paper was presented at the Money, Macro, and Finance Group 2001 Conference, Queen’s University, Belfast, 5-7 September 2001. My thanks to Frank Barry, Joe Durkan, Danny McCoy, and Kevin O’Rourke for comments and advice.

2 The seminar held in conjunction with the launch of Frank Barry’s Understanding Ireland’s Economic Growth in May 1999 attracted embassy officials from three continents (including those of Poland, Hungary, Denmark, Estonia, Israel, Mexico, and Finland). Even Silvio Berlusconi took a fleeting interest in il tigre irlandese (Irish Times, 24 October 1996; c. 3-6 June 2000).
followed by a painful fiscal correction. However, applying the same simple convergence framework to the 1950-1998 period as a unit suggests that Ireland was “on track”, in the sense that it grew as fast as an economy with its 1950 income level might be expected to grow (Ó Gráda and O'Rourke 2000). The difference is clear from Figures 1(a) and 1(b). This, and signs that the economy is now returning to more modest growth rates, suggest that the Celtic Tiger’s main achievement was catching up with the rest. Seen from this perspective, the signs that growth is slackening are nothing to be concerned about. Press commentary evokes a sense of disappointment, however, and public policy, with its focus on the need for yet more and more imported capital and imported labour seems hell-bent on the pursuit of continued rapid growth.

Figure 1(a): Initial Income and Subsequent Growth: OECD 1950-87

The current slow-down suggests the following interpretation of the half century. Before the late 1980s decades of protectionism followed by wrong-headed fiscal policy widened the gap between Ireland and almost every other economy in western Europe except Britain. At the same time the Republic had developed some of the prerequisites for faster economic growth: an underemployed labour force; a stock of emigrants willing to return, given better job prospects; ample energy supplies; an underutilised
transport network; a competent and honest public service. An attractive tax package for US multinationals attracted by the prospect of the single European market, the onset of a sustained US economic boom, and evidence that Irish policy makers had learned from the mistakes of the late 1970s and early 1980s, did the rest. There followed the hectic Celtic Tiger interlude, and by the end of the 1990s Ireland had made up the ground it had lost.

This record is summarised by the fact that Ireland, where GDP per head was the same as in Italy in 1950, fell far behind in the following three decades or so, and then more than made up all the lost ground from the mid-1980s on (in 1998 Ireland’s GDP per head was 8 per cent higher than Italy’s). So is the bottom line that Ireland had caught up and that its new growth trajectory would sweep it past not just Italy but everybody else? Not so. The welfare loss incurred by Ireland for not following the slightly slower but much steadier Italian growth path over the half-century is captured by the area between the two curves in Figure 2. In present value terms it was substantial – about 29 per cent of 1998 Irish GDP (Ó Gráda and O’Rourke, 2000).

Figure 2: Irish and Italian GDP/Capita 1950-1998

So what produced the Tiger? One of Ireland’s leading macroeconomists has argued that several factors played a role, and that “we cannot establish the relative importance of each” (Walsh, 2000, p. 671). Still, it is hardly surprising that a recent acclaimed account by an ex-politician and an ex-head of the Industrial Development Authority would give pride of place to politicians “who took a long-term strategic view on a number of specific issues”, and the “rifle-shot, rather than the scatter-gun, approach” to seeking out multinationals adopted by the IDA since the 1980s (McSharry and White, 2000, pp. 363-4, 368, and passim). Other factors often highlighted in the literature include fiscal restraint, generous tax incentives to multinationals, EU largesse, plentiful human capital, a pliable labour force, and social partnership. It is the contention of this paper that some elements in this package of factors have been oversold, and that others were geared to delivering catch-up, but not limitless growth at the rates achieved in the 1990s.
Government spokesmen and the IDA frequently stress the part played by Ireland’s human capital. The argument has been overdone, for two reasons. The first hinges on the distinction between the social and the private return on education, too often neglected in this context. Indeed in the 1970s and 1980s the emigration of so many university graduates focused attention on the gap between social and private rates of return on public expenditure on education (e.g. NESC, 1991). In the circumstances, investing more instead on infrastructure such as roads and telecommunications might have yielded a better social return. In general an adequate stock of human capital is a necessary but insufficient condition for economic progress. The claim that schooling has boosted Irish growth tends to rest on a growth accounting approach to human capital’s contribution, which in effect assumes that it had no opportunity cost (Durkan, Harman, and Fitzgerald, 1999; Tansey, 1999, p. 250). Ireland’s investment in education is now undoubtedly producing high private and social returns, quite apart from “new growth theory” gains. And yet at times in the past more investment in physical capital might well have been the more sensible option.

The second reason why the case for investment in human capital has been oversold is that, for all the hype about Ireland’s highly educated workforce, recent international comparisons show it in a less than stellar light. Ireland passes muster when measured by the Third International Mathematics and Science Study (TIMMS), which tested samples of schoolchildren in their early teens in 39 countries in 1995: in these tests Irish schoolchildren came fourth out of the thirteen EU countries included. However, the much-cited International Adult Literacy Test (IALS), which focuses on those old enough to be in the labour force, is more relevant. IALS, which measured adult literacy skills across OECD member-states in 1995, returns a less impressive verdict. By this measure Ireland came ahead of only Portugal of the ten EU economies included (see Table 1).

### Table 1: Human Capital League Tables

<table>
<thead>
<tr>
<th>COUNTRY</th>
<th>TIMMS/ Maths</th>
<th>TIMMS/ Science</th>
<th>IALS/ Prose</th>
<th>IALS/ Documents</th>
<th>IALS/ Quantitative</th>
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</thead>
<tbody>
<tr>
<td>Austria</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belgium</td>
<td>3</td>
<td>11</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Denmark</td>
<td>9</td>
<td>12</td>
<td>6</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Finland</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>France</td>
<td>5</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Germany</td>
<td>6</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Greece</td>
<td>12</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IRELAND</td>
<td>4</td>
<td>4</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Netherlands</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Norway</td>
<td>10</td>
<td>7</td>
<td>3</td>
<td>2</td>
<td>3</td>
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<tr>
<td>Portugal</td>
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<td>10</td>
<td>10</td>
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<tr>
<td>Spain</td>
<td>11</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sweden</td>
<td>7</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>UK</td>
<td>8</td>
<td>5</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

Note: for a full explanation of scores see Barro and Lee (2001).
True, Irish educational standards have improved significantly in recent decades, especially due to the introduction of free second-level education in 1967, but correcting for cohort effects does not make much difference (Barro and Lee, 2001; Steedman and McIntosh, 2001). This suggests that commentary in the 1990s exaggerated the quality of the Irish labour force. Perhaps fluent English meant more to US multinationals than high IALS scores. That, however, is hardly a function of policy, nor specific to the 1980s or 1990s.

Ireland’s efforts at setting its public finances right in the 1980s attracted a good deal of attention abroad. In 1989 Rudiger Dornbusch scorned at a “failed stabilisation” which a few years later would spawn the concept of an expansionary fiscal contraction (EFC). An EFC occurs when the deflationary effects of budgetary surpluses on aggregate demand are outweighed by their positive impacts on private expectations, investment and consumption. For a time the role of EFC in jump-starting Irish recovery was the subject of much debate. The latest consensus is against it (Bradley and Whelan, 1997). Of course, this does not rule out a role for stabilisation policy. McSharry and White deem fiscal stabilisation “the main precondition for a sustained economic recovery”, and the case is more formally stated by Patrick Honohan (1999). Unquestionably without the dramatic, unequally-borne fiscal corrections of the 1982-7 period, much FDI would have gone elsewhere and the Tiger would not have roared. However, had the economy not almost self-destructed from the late 1970s the corrections would have not been necessary in the first place. In other words fiscal stabilisation was about making up lost ground, not achieving a new steady state.

3. Fiscal Policy

The transfer of about IR£9 billion at 1994 prices to the Irish exchequer between 1989 and 1999 through the EU’s Community Support Frameworks (Delors I and Delors II) arguably eased the challenge of fiscal stabilisation, as Marshall Aid did for other European economies in an earlier generation. But macroeconomic simulations suggest that in accounting for the Celtic Tiger the transfer was an “also ran”. Frank Barry, John Bradley, and Aoife Hannan (1999; see too Honohan, 1997) found that without it GDP would have been 3 to 4 percentage points less in the late 1990s. This must be set against the doubling of real GDP between 1990 and 2001.

Since 1987, when the Tiger was born, and today the ratio of government revenue to GDP has dropped from 40.3 to 33.2 per cent, and the ratio of public expenditure to GDP from 48.5 to 27.7 per cent. The Irish public sector is now the smallest in the EU in relative terms. Over the same period the ratio of national debt to GDP has fallen from over 100 per cent in 1987 to 38 per cent by the end of 2000. The timing suggests that Ireland’s current status as a low tax, low public debt economy is a product of the Celtic Tiger, however, not its cause.

3 The transfer was also tiny compared to that from Whitehall to Northern Ireland, estimated at about one quarter of personal expenditure in the 1990s. See Ó Gráda, 2000, pp. 278, 282.
A similar argument can be made about social partnership, introduced in 1987. Irish economists were initially very sceptical of it (e.g. Durkan, 1992), but the scepticism soon gave way to a conviction that social partnership was a distinctively Irish contribution to economic success. Some now even argue for social partnership as a recipe for long-run growth in a full employment context. Here too history has something to say. It suggests that this “Irish solution to an Irish problem” bears a close resemblance to the tripartite contract between labour, capital and the state developed in many other European economies in the early 1950s. In those cases organised labour made a commitment to wage moderation in return for a capitalist commitment to re-invest profits and the state’s commitment to the welfare state. The particularly Irish feature of social partnership in the 1980s and 1990s, in an era when the welfare state was under threat in any case, was the state’s undertaking to reduce personal taxation instead.

Social partnership worked well in the mess left behind by governments in the late 1970s and early 1980s. The commitment to wage moderation made sense when unemployment was high, and contributed to the share of wages and salaries in GDP plunging from 57.5 per cent in 1987 to 46.3 per cent twelve years later. Wage moderation in the heavily unionised public sector was a boon to the public finances. Social partnership also kept down the number of industrial disputes and workdays lost. The system has persisted, its most recent embodiment being the Programme for Prosperity and Fairness. However, in an economy like Ireland’s in 2001, where unemployment is 3 per cent, the scope for social partnership 1980s and 1990s-style is less compelling. Wage moderation simply leads to excess demand for labour and loss of credibility for the trade union movement. Ironically, key features of social partnership – centralised bargaining, wage moderation, low wage dispersion – were identified by some labour economists as reasons for the poor performance of some European economies in the 1980s (e.g. Calmfors and Driffil, 1988; Freeman, 1989). For social partnership to continue working it needs to re-invent itself.

In the 1960s Ireland scrapped much of the protectionist apparatus built up since the 1930s. Tariffs were reduced unilaterally, and the Industrial Development Authority, originally an arm of protectionist policy, was transformed into an agency to attract foreign capital. But what emerged was hardly free trade. Instead Ireland shifted from one form of trade distortion to another: export-subsidising industrialisation (ESI) replaced import-substituting industrialisation (ISI). A trade sector bloated by FDI replaced one shrunk by ISI. However, while ISI resulted in small and mainly indigenous factories, short production runs, and high costs, ESI relied on foreign capital and a global (though mainly European) market, and so was more likely to involve firms and industries subject to increasing returns to scale; it was also more likely to generate productivity enhancing agglomeration effects. There is some evidence to support this (Barry et al. 2001).

Perhaps it is too soon to ask whether this new, more sophisticated form of protectionism has produced any grown-up infants. Can subsidies to export-oriented multinationals generate dynamic gains that ISI-oriented
protection cannot deliver? The first generation of multinationals, those introduced in the 1960s and 1970s, certainly failed to deliver on this score. Some researchers, like NUI Galway’s Roy Green, are more optimistic about the current generation: according to Green, the policy of concentrating on high technology sectors and forging linkages with the local economy “has proved to be a winning formula in the development and sustainability of Ireland’s extraordinary economic metamorphosis” (Green, 2001).

It bears noting, however, that public policy has led to Ireland being one of the only countries in the OECD in which manufacturing’s share in output has continued to rise. The rest of western Europe has been experiencing de-industrialisation since the 1970s. While manufacturing’s share in the Republic’s GDP has risen from barely one-fifth in the 1950s to 35.4 per cent in 1970 and 38.4 per cent today (1999), its share in the UK has plummeted from 35 per cent in 1979 to 23.9 per cent in 1999.4 Some of the rise in the Republic is the product of FDI-induced transfer pricing, but OECD employment data corroborate Irish distinctiveness in this respect. The proportion of total civilian employment accounted for by industry has fallen throughout Europe in recent decades, but in Ireland it has held its own (Figure 3). It is striking that the shift in Ireland’s occupational structure is so different to that of the rest of northwestern Europe. Is it because Ireland has bucked the European de-industrialisation trend that it has done so well? Is this a reflection of Ireland’s true comparative advantage, or is it merely a distortion produced by the corporate tax regime? One argument on the side of optimism might be that the “rust-belt” de-industrialisation responsible for the decline in the industrial labour force elsewhere (as in Northern Ireland) is the product of an earlier industrial phase that largely passed the Republic by.

Figure 3: Industry’s Share of Labour Force 1969-1997

4 For comparability construction has been added to industry in the UK. Compare Ó Gráda, 1997, pp.122-124.
For a long time Ireland paid a high price for how it exercised its economic sovereignty. Today it is reaping the benefits of independence. While the gaps between poor and wealthy regions of the United Kingdom are slow to narrow, and in some cases are widening, Ireland has overtaken the UK in terms of output, if not quite in living standards. The main economic benefit of sovereignty has been control of fiscal policy. Ireland can get away with its low corporate tax regime because it is a small economy, producing about 1 per cent of EU GDP, and because it was the first to offer foreign investors such tax concessions. Size matters: if Germany or France decided unilaterally to reduce its corporate taxation level across the board to the 12.5 per cent rate being introduced by Ireland in 2003, it would risk breaking up the EU. Being first matters: Ireland’s position in this near-to-zero sum game depends on others – or too many others – not following suit. Whether aspirant EU member states from Eastern Europe are likely to compete effectively on this front remains to be seen. That certainly would not be in Ireland’s interest.

It has been argued that the taxation argument has been oversold, since in recent years Ireland’s share of US FDI in Europe has risen despite some narrowing in tax differentials. The findings of a recent paper by Rosanne Altshuler, Harry Grubert, and Scott Newton (1998) are interesting in this context. Altshuler and her colleagues have produced evidence of an increasing sensitivity of US FDI to tax rates, finding that the elasticity of real capital to after-tax rates of return doubled from 1.5 in 1984 to almost 3 in 1992. They attribute the rise to the increasing mobility of capital and globalisation. Has the elasticity risen further since the early 1990s? If so, this could explain why Ireland has managed to increase its share, but also how vulnerable it would be to tax harmonisation (Altshuler et al., 1998; Grubert and Mutti, 2001; see too Gropp and Kostial, 2001). The issue is worth urgent attention.

Some sense of the impact of the tax regime on industrial structure may be obtained from Table 2 (see too Honohan, Maitre, and Conroy, 1998). There we first compare the share of wages and salaries to net output in a range of sectors in both Ireland and the UK in the late 1990s. In Ireland most of the enterprises in the first four sectors are indigenous, whereas the second four are dominated by US multinationals. The UK data operate as rough controls. The most striking feature is the small share of net output going on wages and salaries in Ireland’s multinational sectors. Labour’s small share in Ireland’s NACE 21-22 is explained by the presence of the subsidiary of one major US multinational in that sector. These differences, and the concentration of US multinationals in these sectors, underline the importance of transfer pricing for US FDI in Ireland (and the distortions in both Irish GDP and industrial production data). The same goes for much of Ireland’s internationally traded services sector, since 1987 also beneficiaries of low corporation profits tax. More systematic comparisons of sectoral data, embracing all NACE categories and perhaps a few more economies, might help reveal the “real” size of Ireland’s industrial sector. Be that as it may, so far Ireland has not been a

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5 For example, since the 1960s Welsh domestic product per head has fallen behind that of the UK as a whole. In 1968 it was 86.1 per cent; in 1990 83.2 per cent, in 1998 it was just short of four-fifths.
loser by its distorted, though perhaps also somewhat vulnerable, foreign trade regime.

Finally, referring back to our earlier remarks about infant firms growing up, Table 2 also compares the percentages of employees described as “operatives” (Ireland) or “industrial workers” (UK) in the same sectors. The high-tech sectors dominated by FDI are of particular interest, given the prevailing belief in Ireland that they attract highly skilled and highly educated workers. The strength of white collar occupations in these sectors in both countries is confirmed. Also worth noting, though, is how Ireland lags behind the UK in this respect in all cases (though US FDI also bulks large in the UK).

Table 2: Labour Share and Ratio of Operatives to other Workers in Selected Industries, Ireland (1998) and the United Kingdom (1997)

<table>
<thead>
<tr>
<th>Sector</th>
<th>NACE</th>
<th>Wages and Salaries Net Output (%)</th>
<th>Operatives/All Employees (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>IRL</td>
<td>UK</td>
</tr>
<tr>
<td>Wood and Wood Products</td>
<td>20</td>
<td>40.8</td>
<td>46.4</td>
</tr>
<tr>
<td>Paper, Publishing, Printing</td>
<td>21-22</td>
<td>11.6</td>
<td>39.8</td>
</tr>
<tr>
<td>Textiles</td>
<td>17</td>
<td>49.9</td>
<td>48.8</td>
</tr>
<tr>
<td>Food Products</td>
<td>15-16</td>
<td>17.4</td>
<td>30.0</td>
</tr>
<tr>
<td>Chemicals</td>
<td>241-243</td>
<td>2.7</td>
<td>30.5</td>
</tr>
<tr>
<td>Pharmaceuticals</td>
<td>244</td>
<td>10.6</td>
<td>27.3</td>
</tr>
<tr>
<td>Elect./Optical</td>
<td>30-33</td>
<td>21.1</td>
<td>42.9</td>
</tr>
<tr>
<td>Computers</td>
<td>30</td>
<td>12.4</td>
<td>32.0</td>
</tr>
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</table>


In the mid-1980s, with massive reserves of unemployed labour and more to draw on abroad; a grave fiscal situation recently brought under control; a generous corporation tax regime; the prospects of wage moderation, industrial peace, a single European market; and the beginnings of a sustained US economic boom, the conditions for an economic recovery in Ireland were right. The Tiger’s achievement was to capitalise on this situation. The Irish economy – now healthy, fully employed, rich, and relatively well run – is no Paper Tiger.

Yet this is no time for smugness. Small open economies, no matter how successful, get buffeted by exogenous shocks. Ireland now faces the double threat of slower US economic growth in the short run and of competition from Eastern Europe diverting FDI in the longer run. It may grow faster than the OECD norm for a few more years, but to think that it exceed it by much in the long run is wishful thinking. Most likely, soon the Tiger years will be remembered mainly as the interlude when Ireland made up all the ground it had lost and became a “normal” European economy.
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