

A satellite-style map of Europe and the Mediterranean region, showing landmasses in shades of green and brown, and the sea in dark blue. The map is centered on the Iberian Peninsula and the Mediterranean Sea.

Building a Knowledge Economy

– The Irish Experience

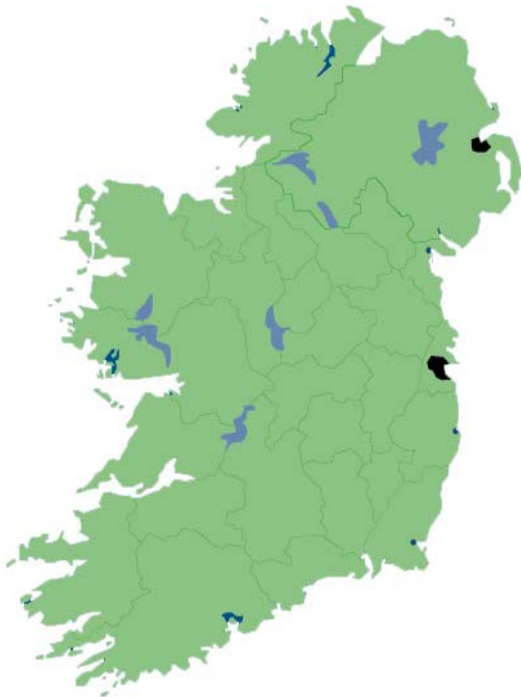
Patrick Cunningham
*Chief Scientific Adviser to the
Government of Ireland*

December, 2007

Image NASA
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Ireland		Israel (% Ireland)
Land Area:	70,300 km ²	31%
Population:	4.24m	168%
Labour force:	2.15m	131%
GDP per capita:	39,743 USD	67%
Real GDP growth:	5.1%	100%

Source: Institute of Management Development

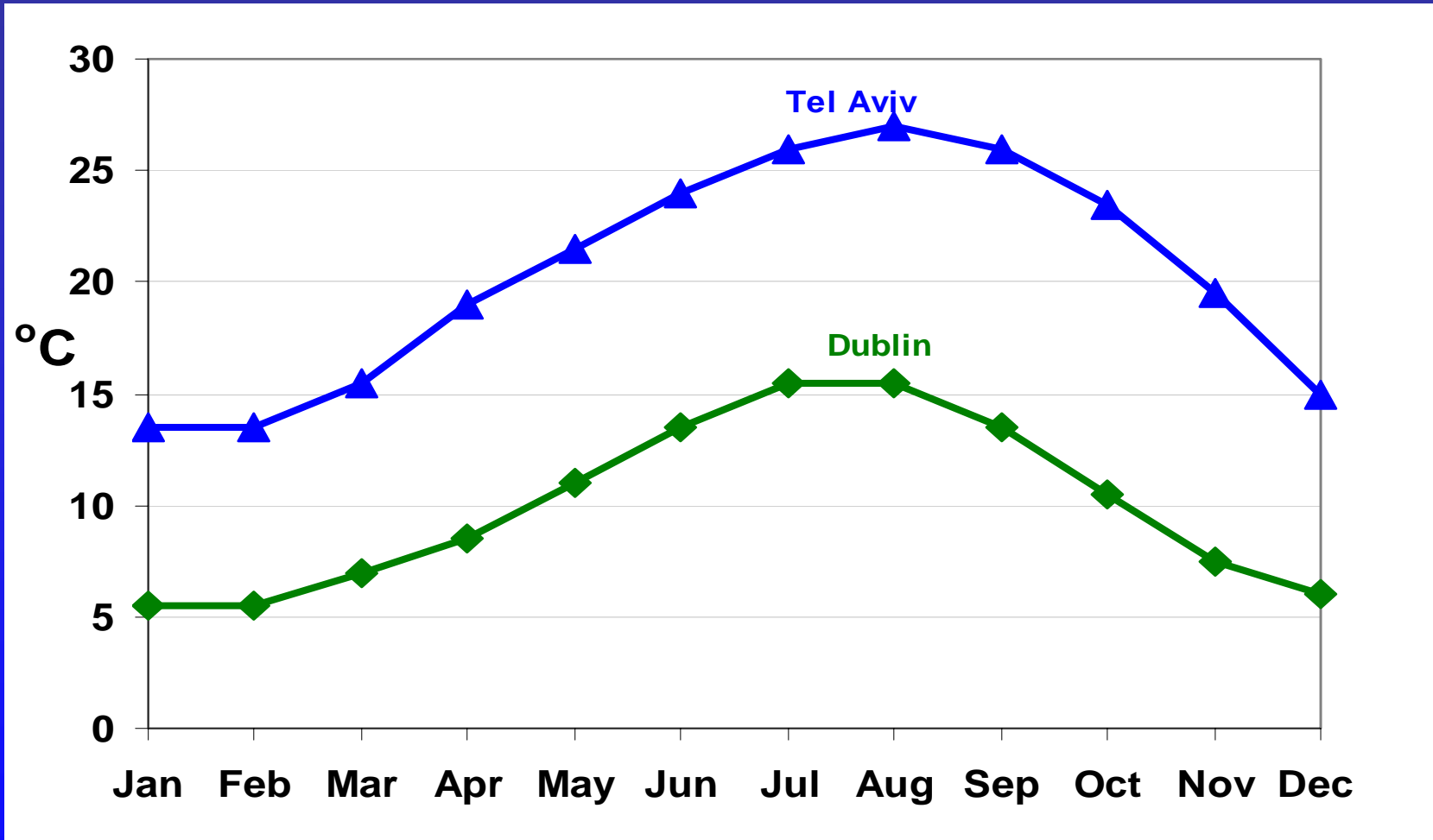
R&D Comparison (2006)

	Ireland	Israel*
GERD	1.56 % GNP	4.57 % GDP
% GERD performed by business	67.0%	76.3%
BERD	1.05 % GNP	3.43 % GDP
GOVERD	0.11 % GNP	0.24 % GDP

*Excluding Defence.

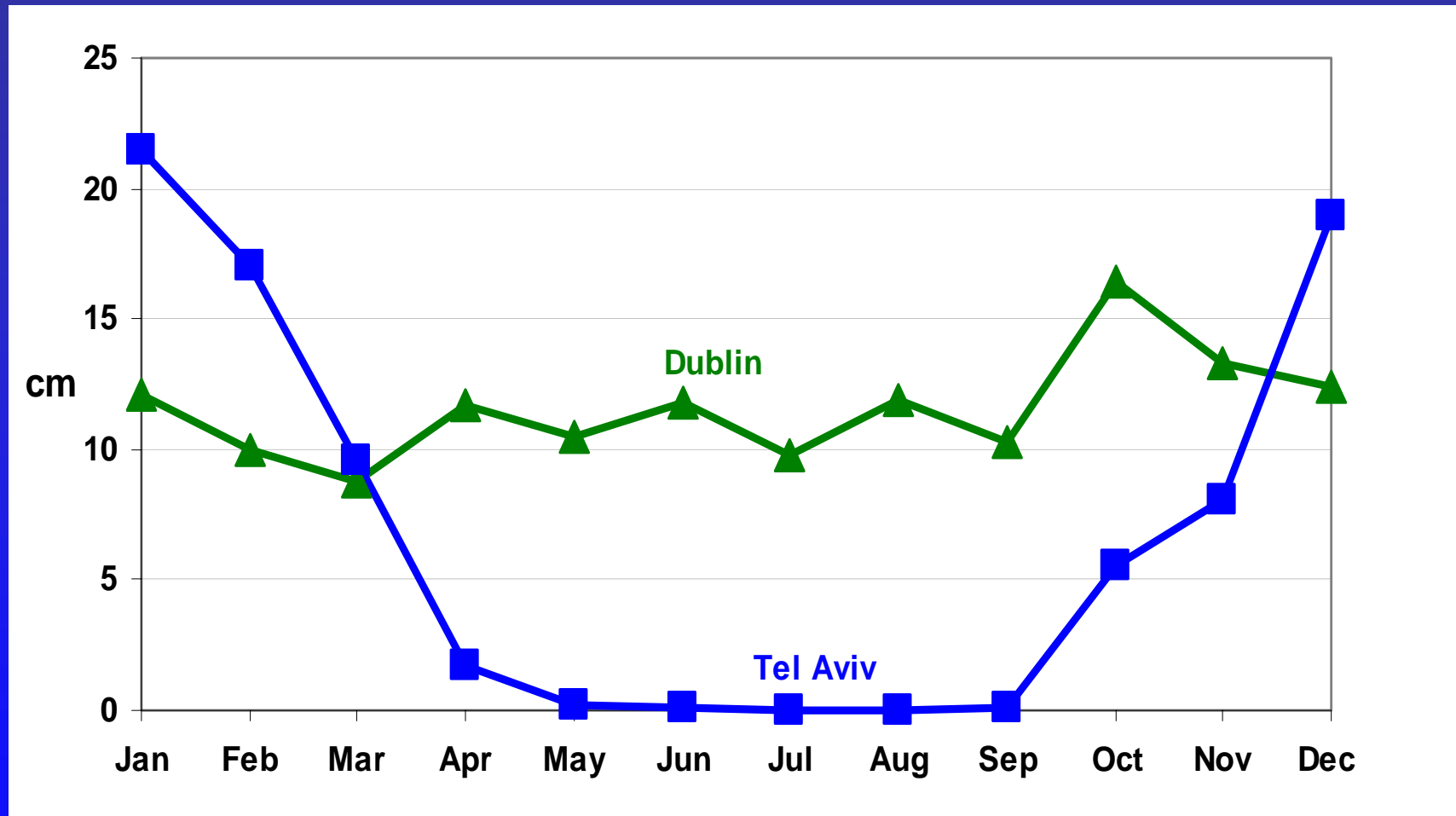
Sources: Main Science and Technology Indicators, OECD, 2007;
R&D Statistics in Ireland, Forfás, 2006.

Average Monthly Temperature



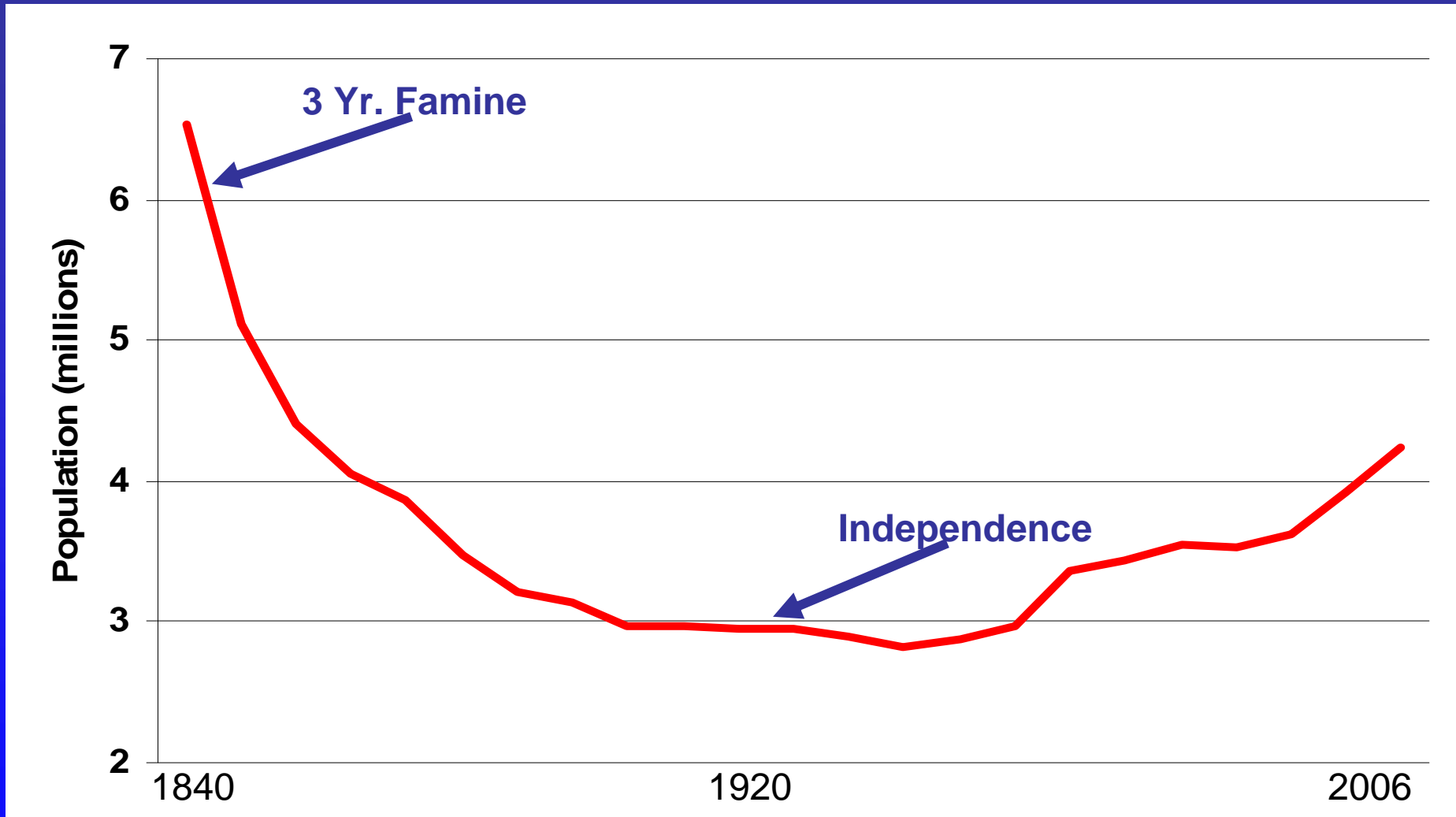
Source: MSN Weather

Average Monthly Rainfall

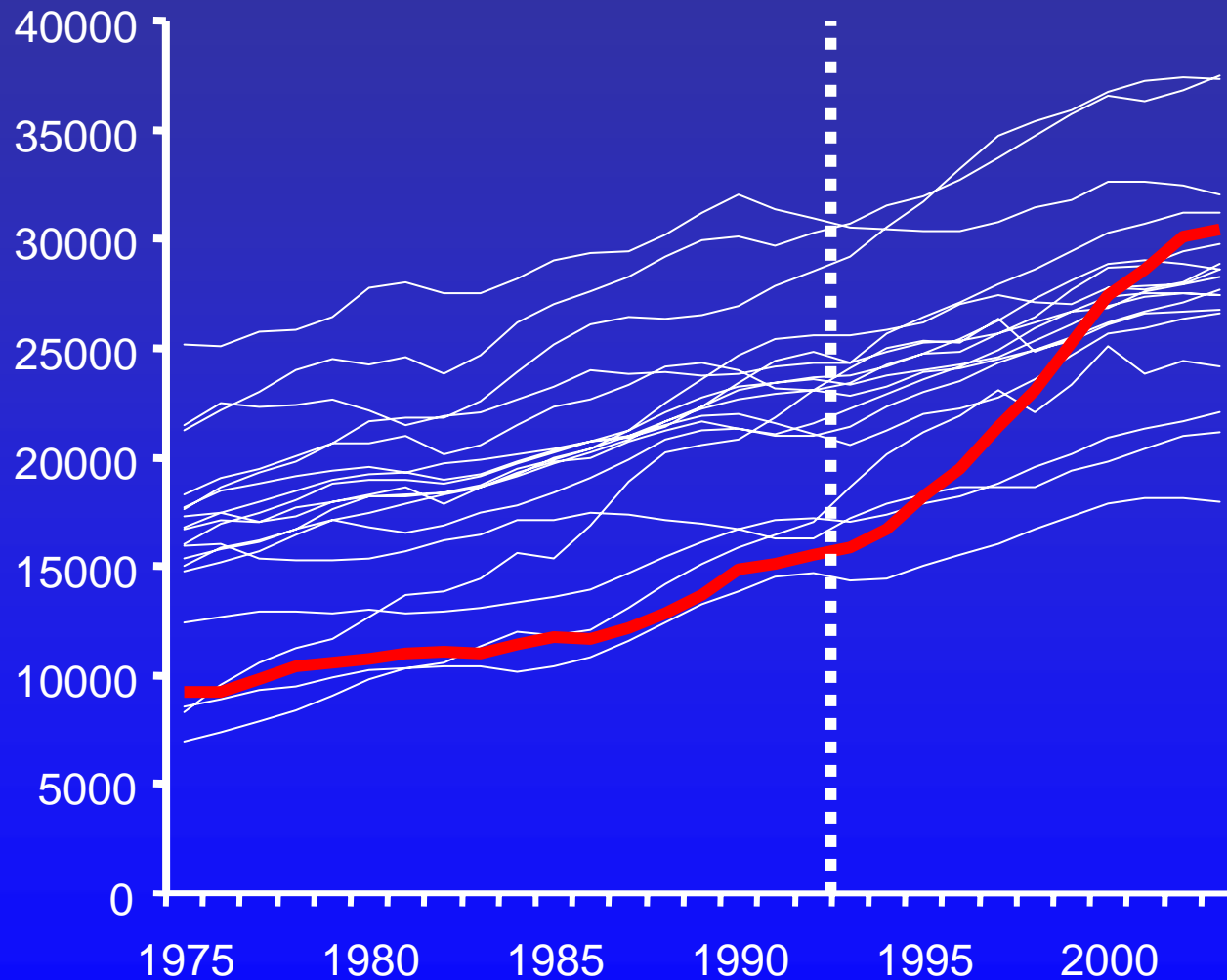


Source: MSN Weather

Population



GNP per capita 1975-2003: Ireland and other advanced economies

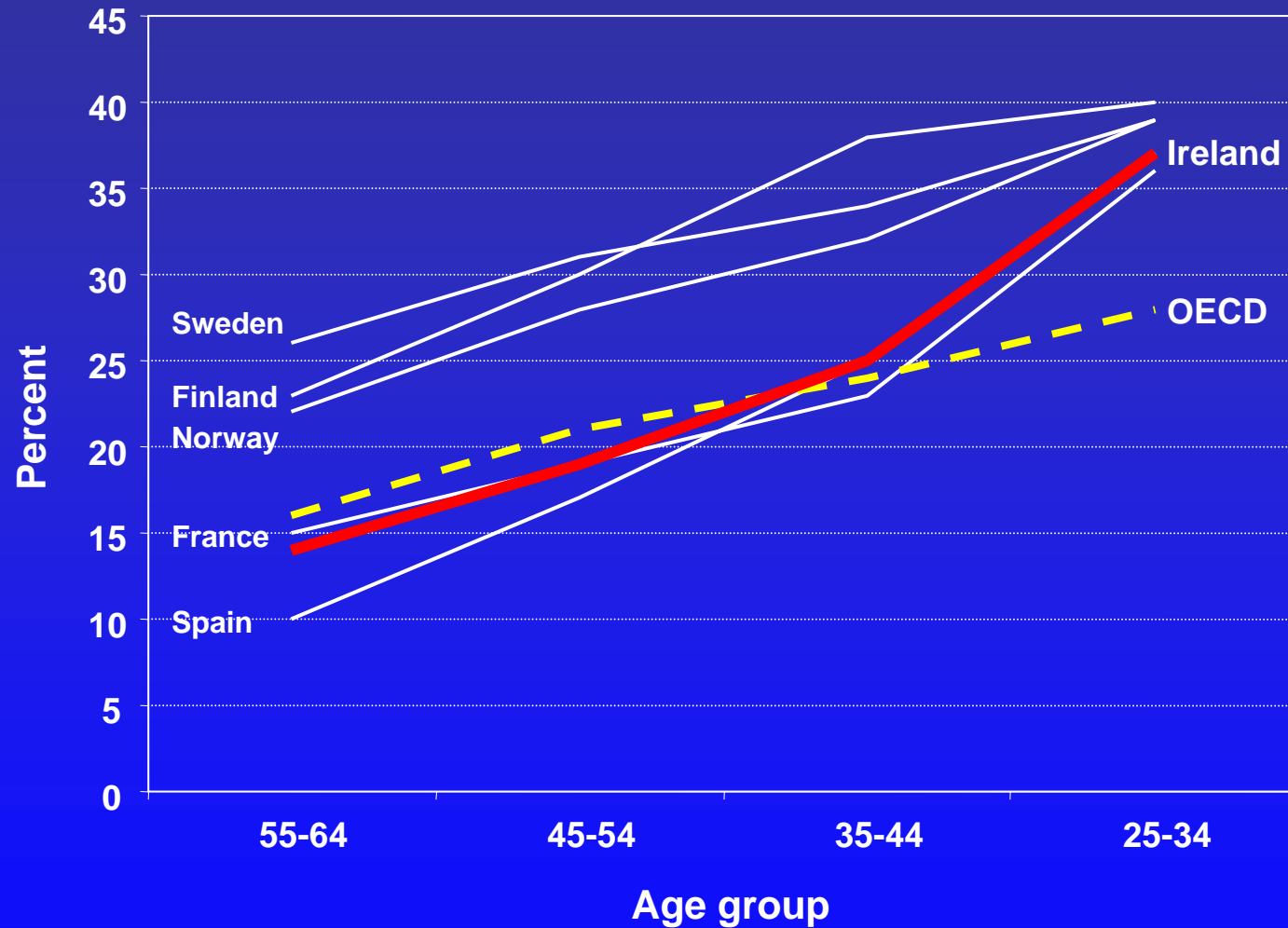


Source: World Bank, 2003

Roots of Development

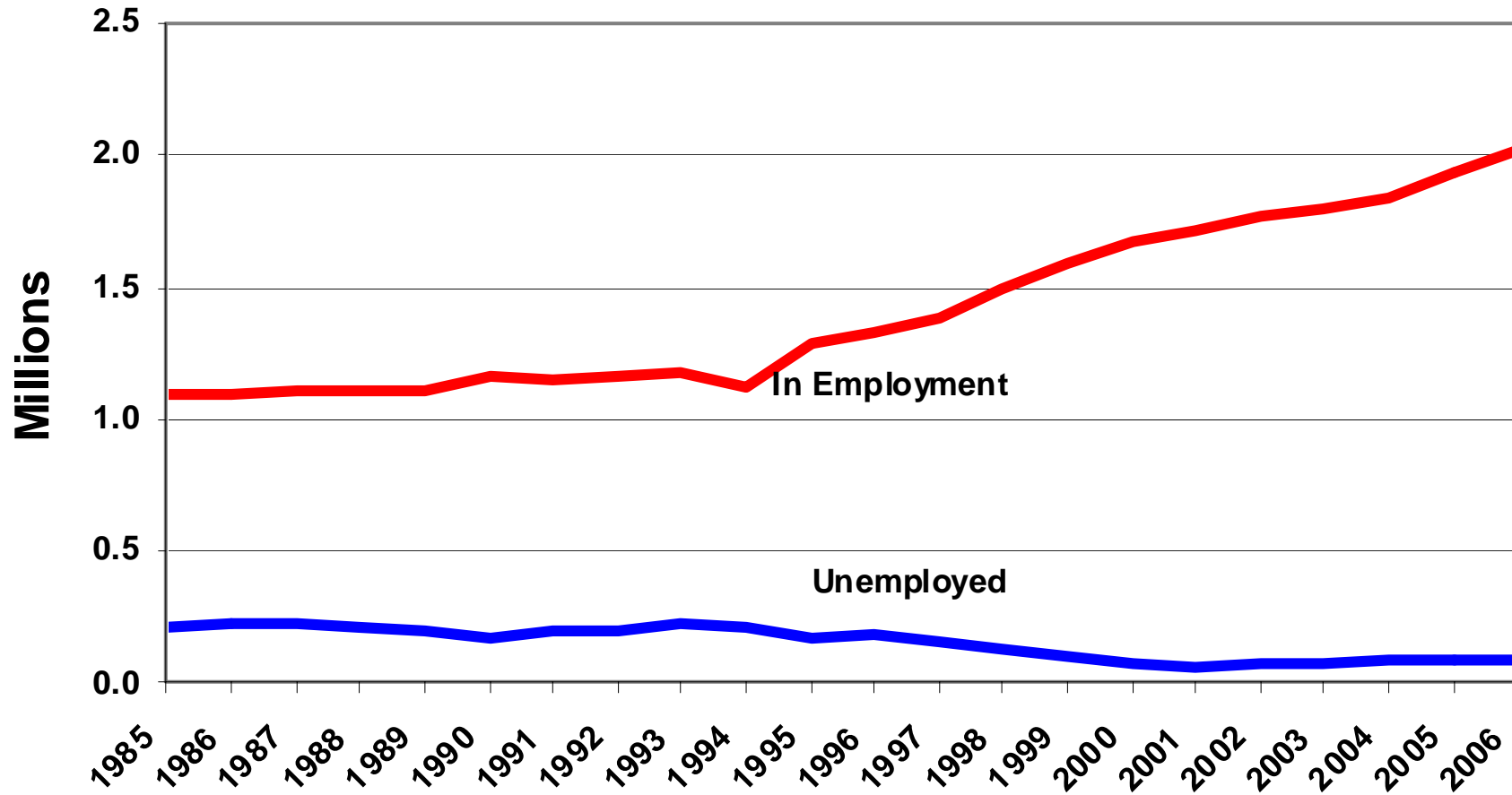
- I. History; Geography; Demography; Language
- II. Change in Economic Policy (1958)
- III. EU Membership (1972)
- IV. Investment in Education (1967, 1970 ...)
- V. Social Partnership (1987)
- VI. Tax Policy (1980-90s)
- VII. Infrastructure; Banking; Legal

Percentage with Tertiary Education

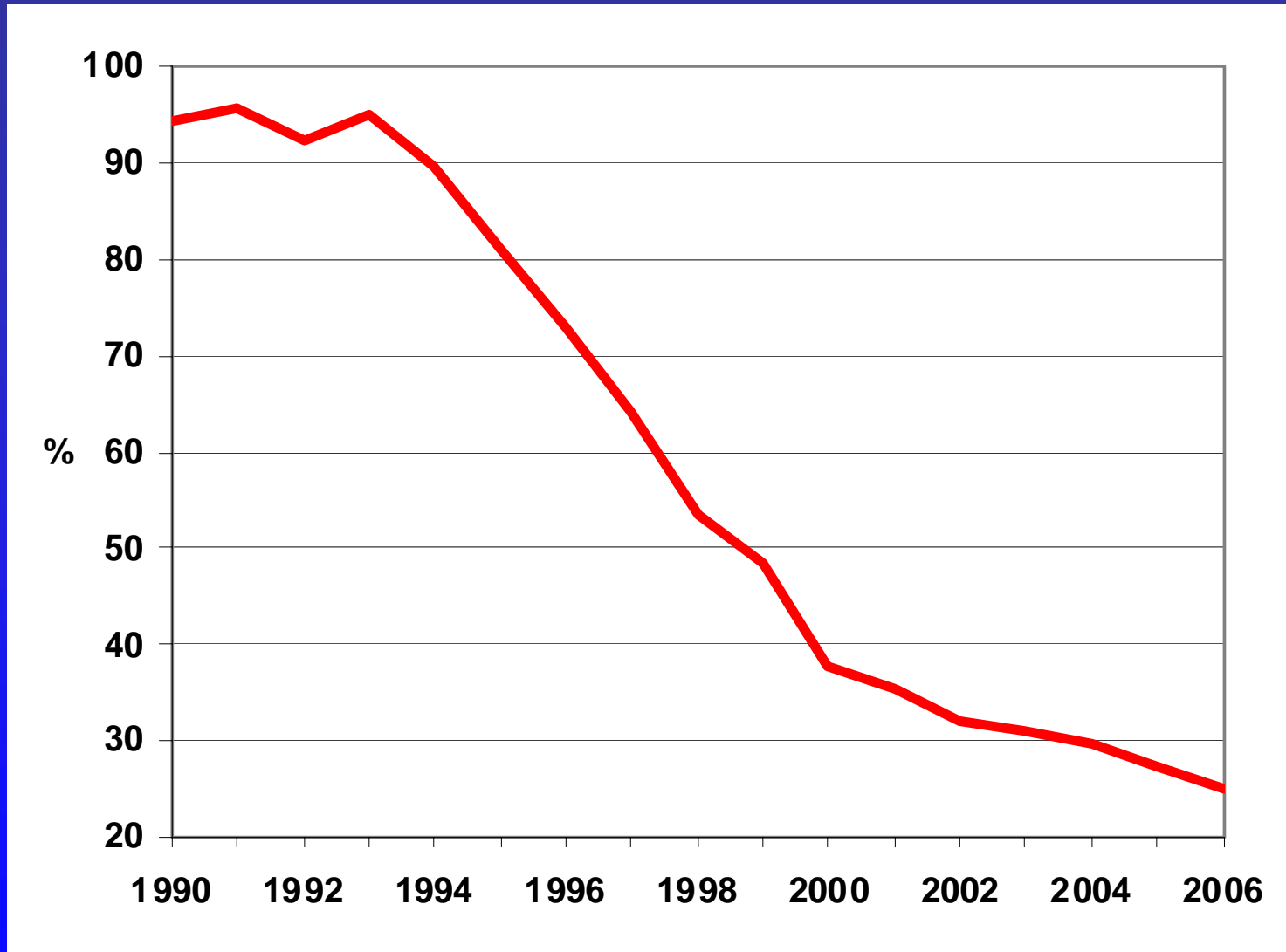


Source: *Education at a Glance* (OECD, 2004) Table A3.3

Labour Force



General Government Debt as a % of GDP

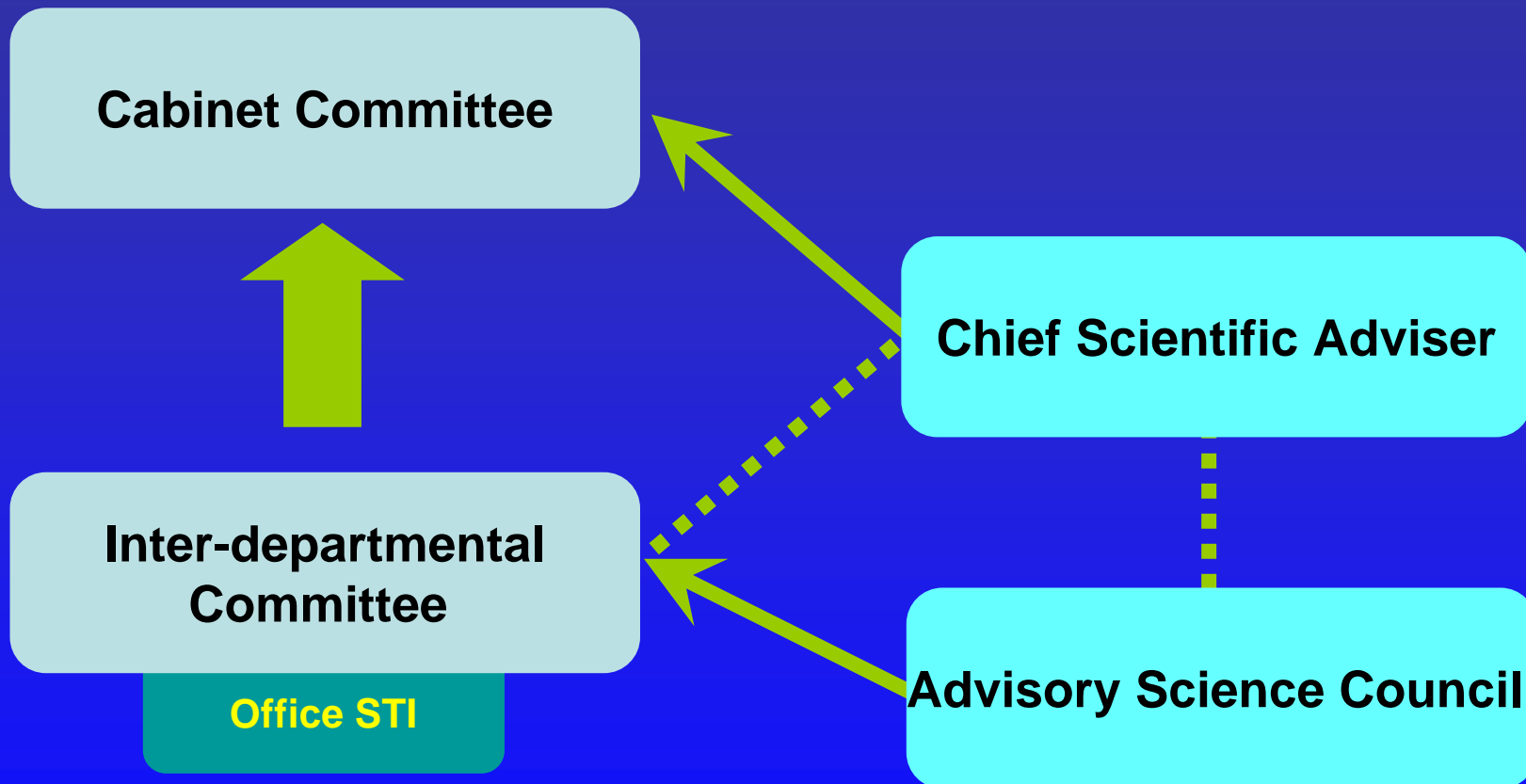


Strategy for Science, Technology & Innovation 2006 - 2013

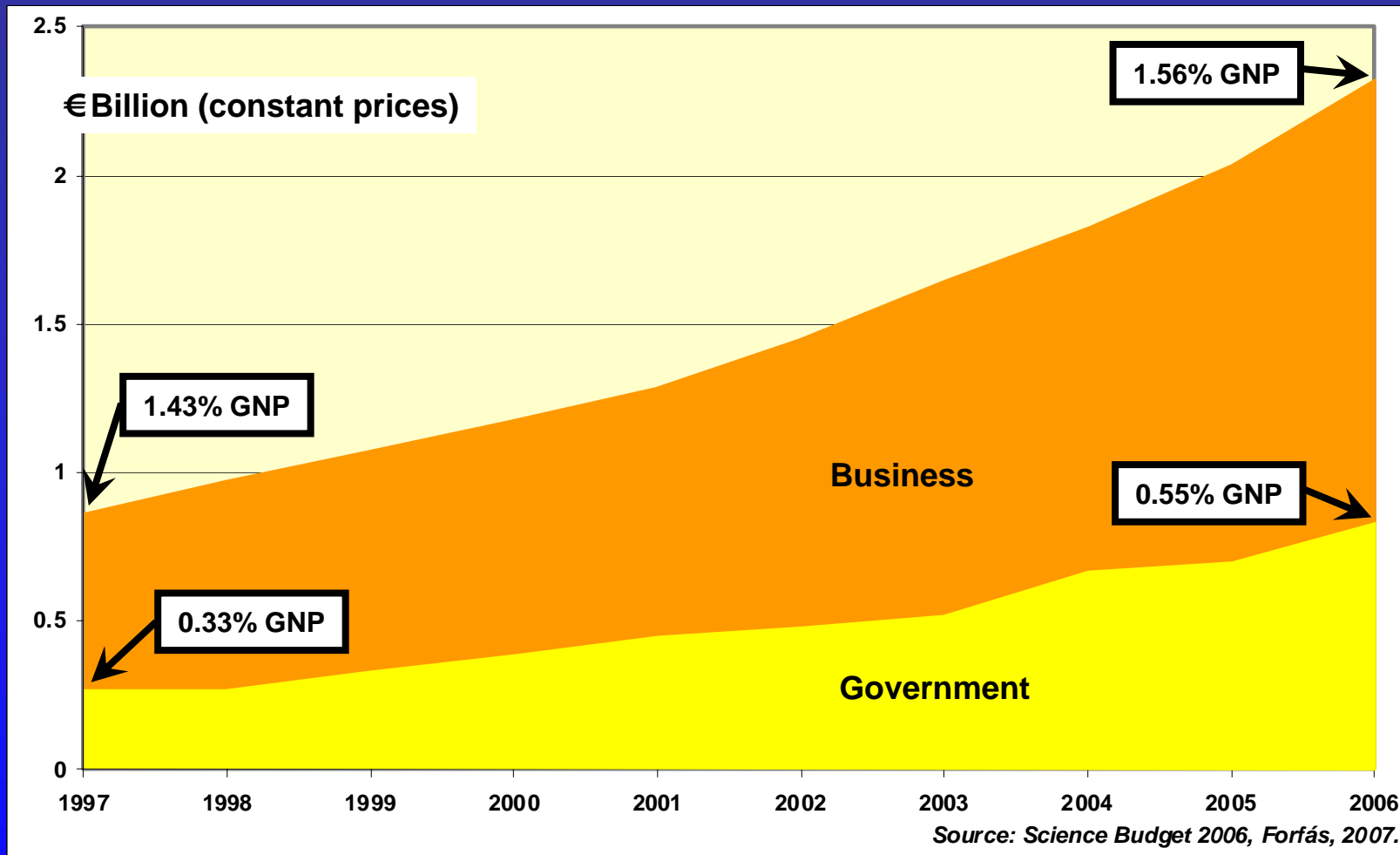


www.entemp.ie/publications/science/2006/sciencestrategy.pdf

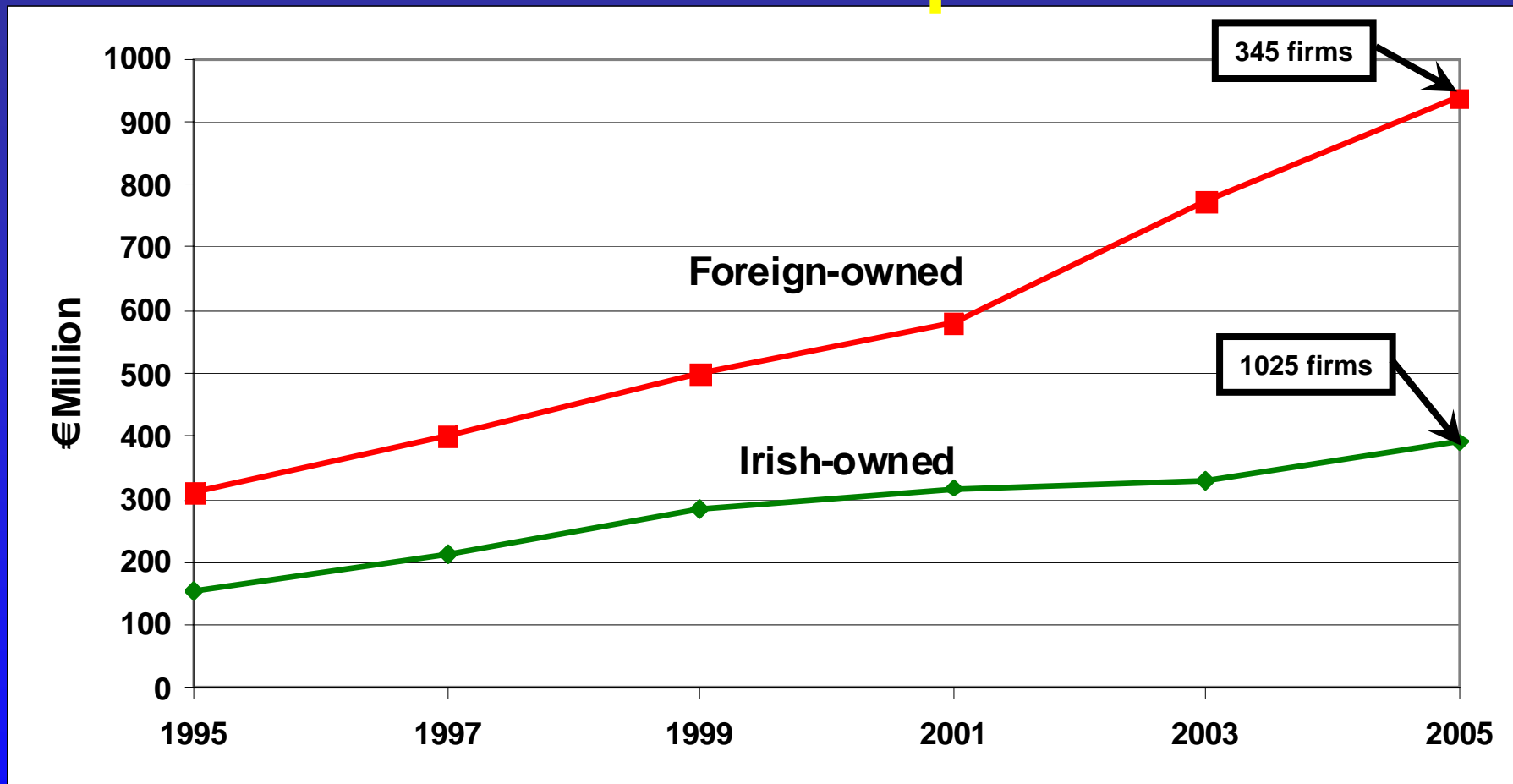
Science Governance



Ireland: Investment in R&D

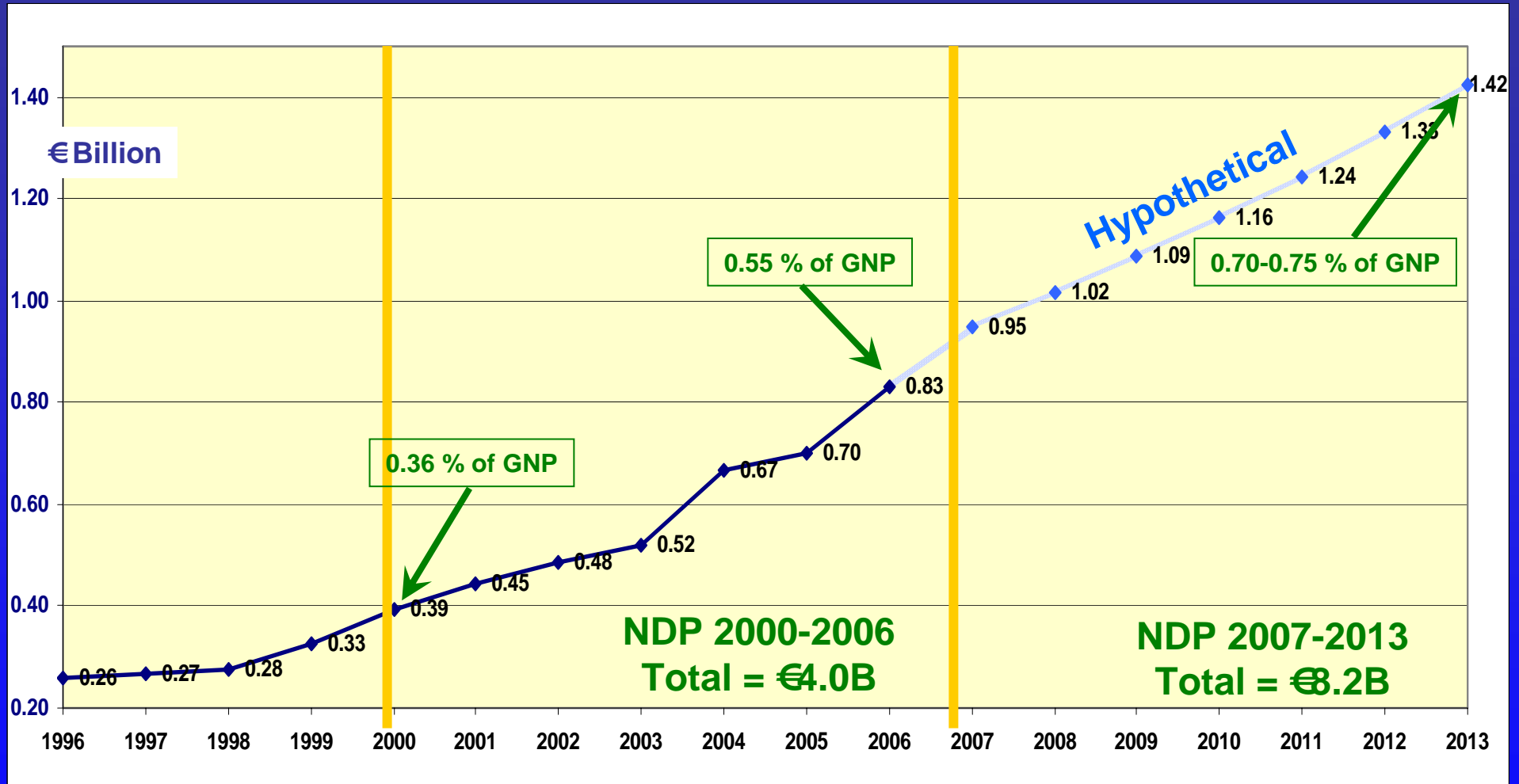


R&D in the Business Sector by Ownership



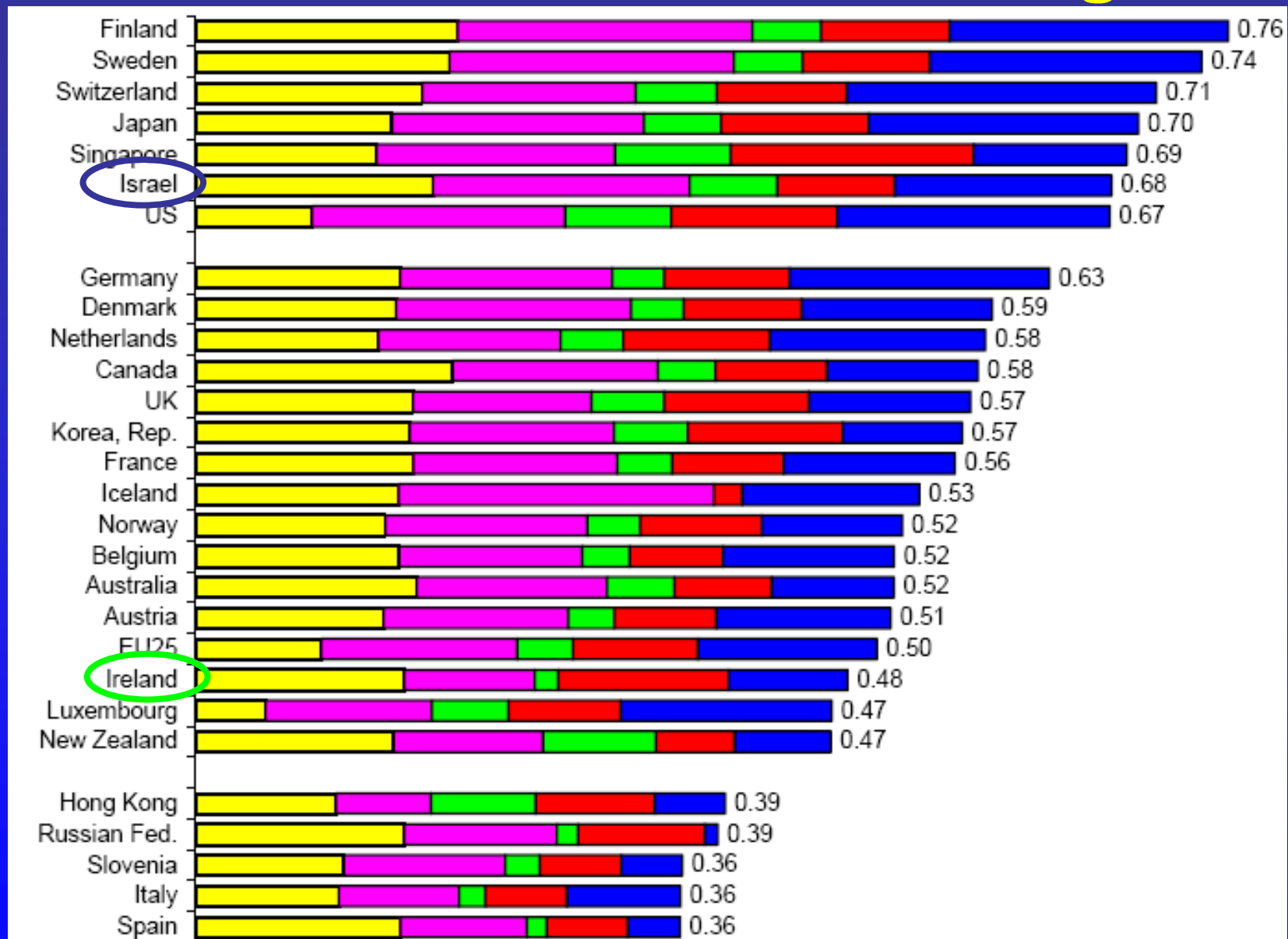
Sources: R&D 2005/6, Forfás.

Public Investment in R&D



Sources: *Historical - State Expenditure on R&D 2005-6, Forfás.*
Future – CSA estimates based on NDP.

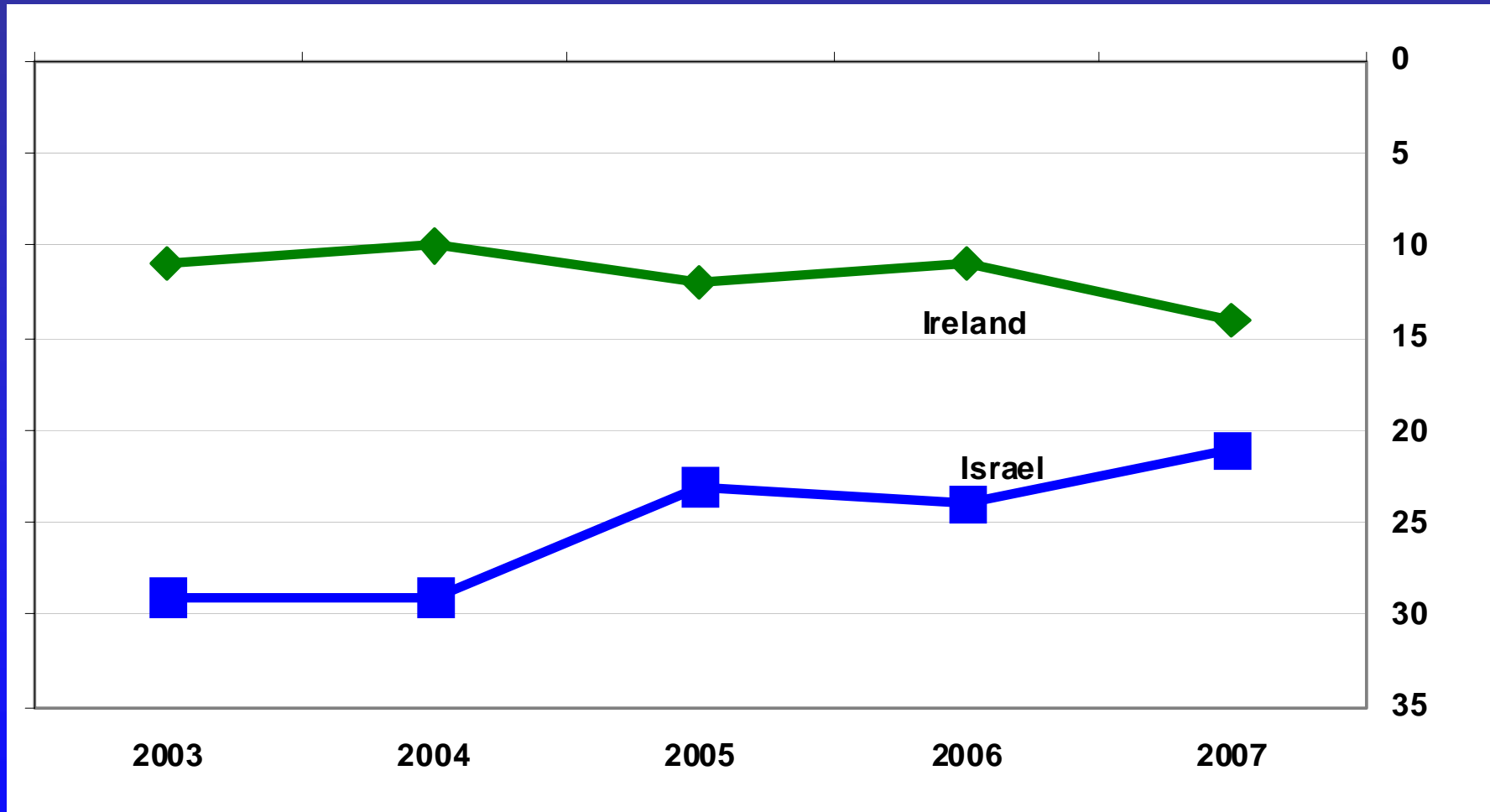
Global Innovation Ranking



Source: Global Innovation Scoreboard 2006

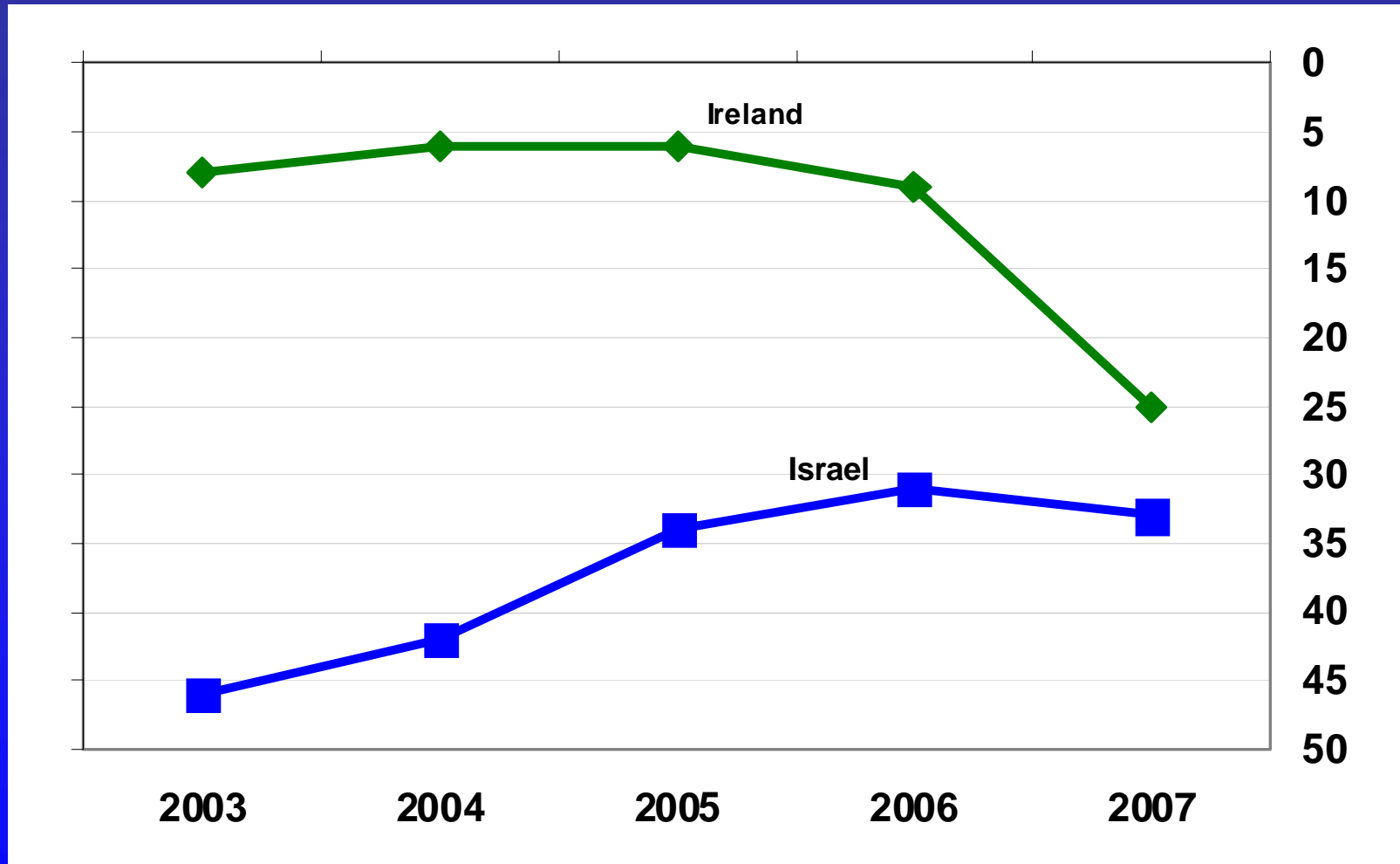
■ Innovation drivers
 ■ Knowledge creation
 ■ Diffusion
 ■ Applications
 ■ Intellectual property

Overall Competitiveness Ranking



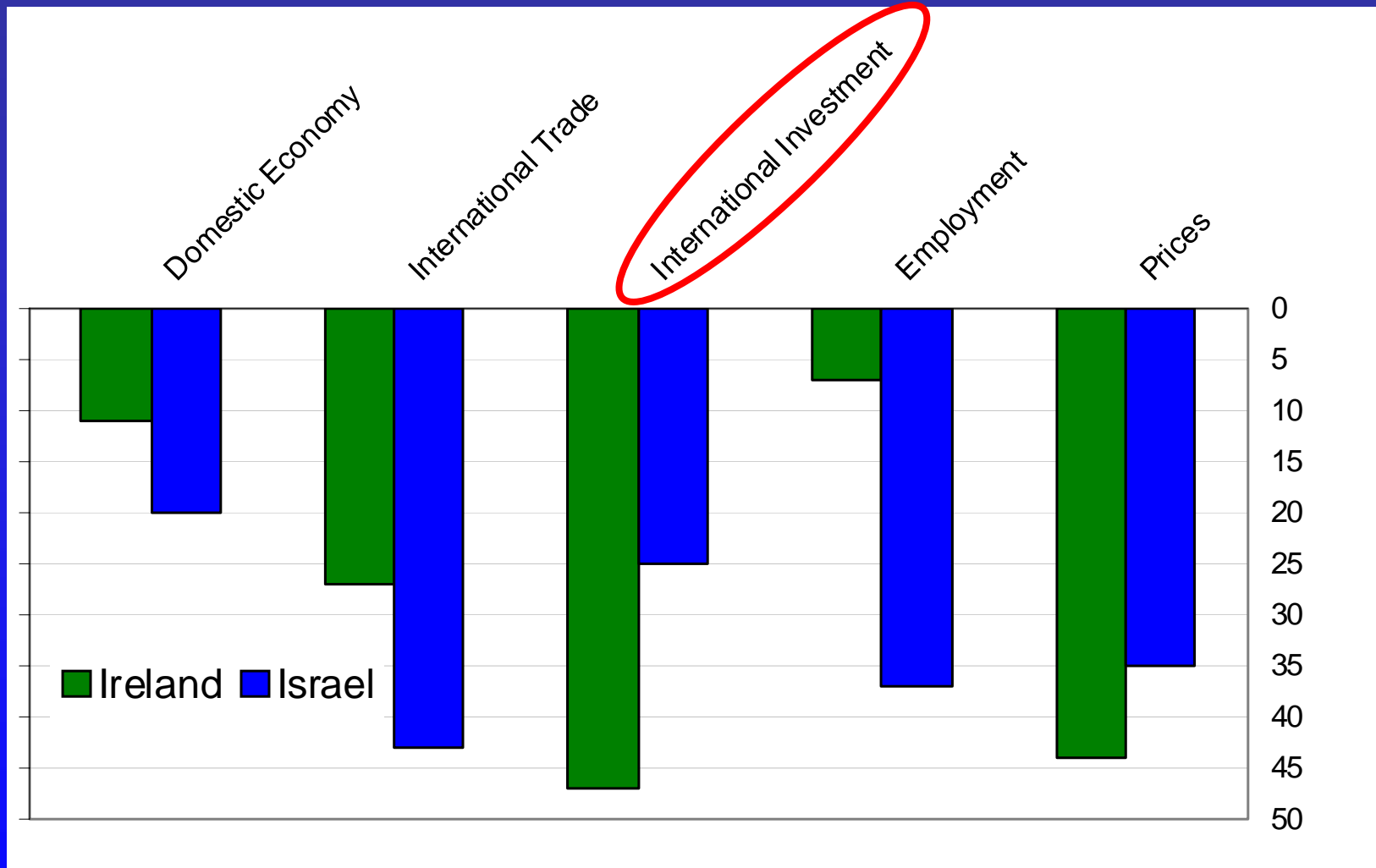
Source: Institute of Management Development

Economic Performance Ranking



Source: Institute of Management Development

Economic Performance Sub-Factor Rankings 2007



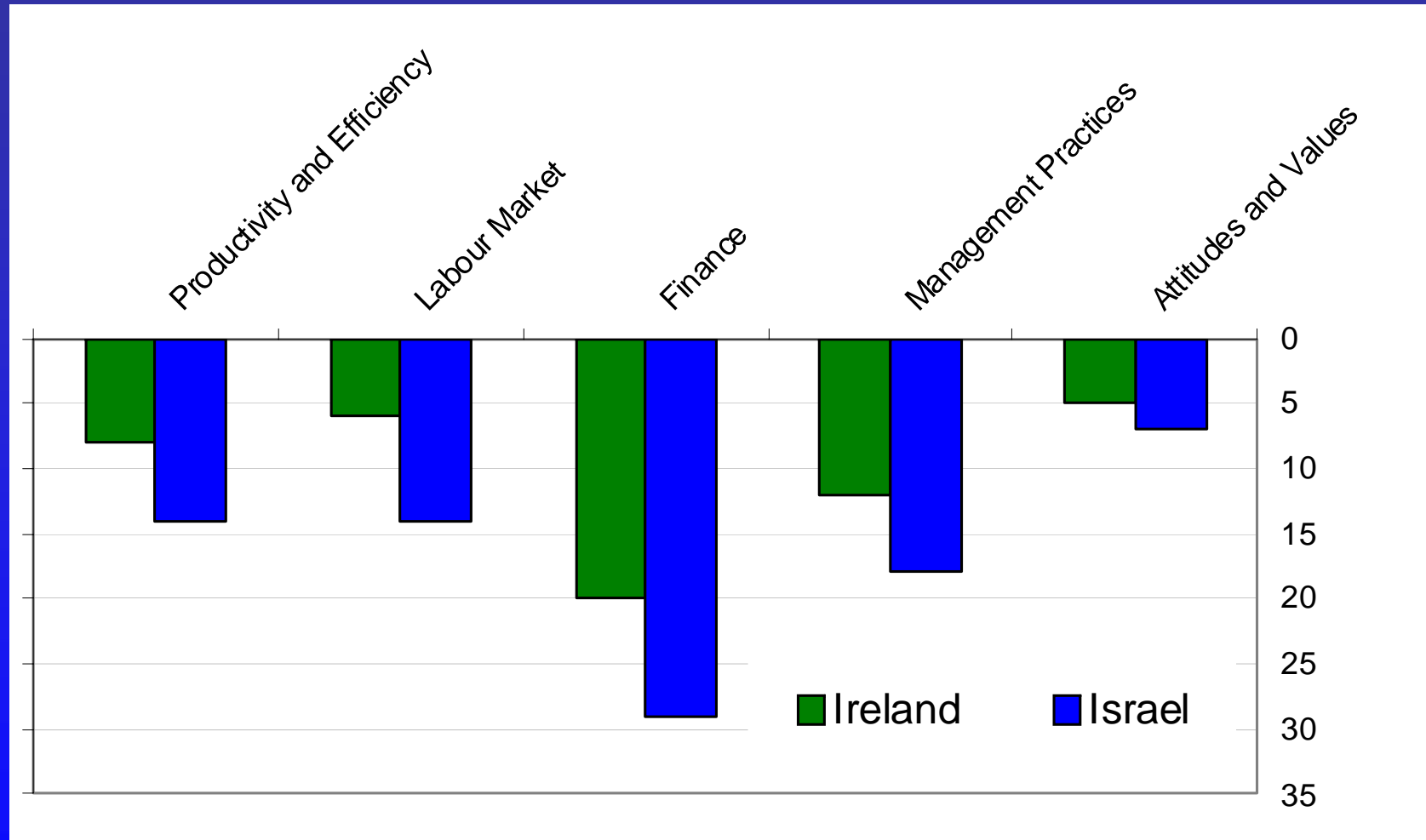
Source: Institute of Management Development

Business Efficiency Ranking



Source: Institute of Management Development

Business Efficiency Sub-Factor Rankings 2007



Source: Institute of Management Development



Thank you