



Rialtas na hÉireann
Government of Ireland

The R&D Budget 2019-2020

Prepared by the Department of Enterprise, Trade and Employment
December 2020

From GDP to GNI*

2019

GDP (All goods and services produced)

€356 bn



Adjust for income accruing to foreign residents



GNP (Income of domestic residents)

€274 bn



Adjust for subsidies from and taxes paid to the EU



GNI (Adjusted income of domestic residents)

€275 bn



Adjust for re-domiciled companies, intellectual property transfers and aircraft leasing sector



GNI* (Best approximation of size of Irish economy)

€214 bn



2019

Gross Expenditure on R&D (GERD) in Ireland: €4,027m
GERD as % GDP/GNP/GNI* = 1.13%, 1.47% and 1.88%
V's EU 28 average = 2.03%

FUNDED BY:

GOVERNMENT
R&D BUDGET
€802m

PRIVATE FUNDS
(BUSINESS, EU, OTHER)
€3,225m

PERFORMED IN:

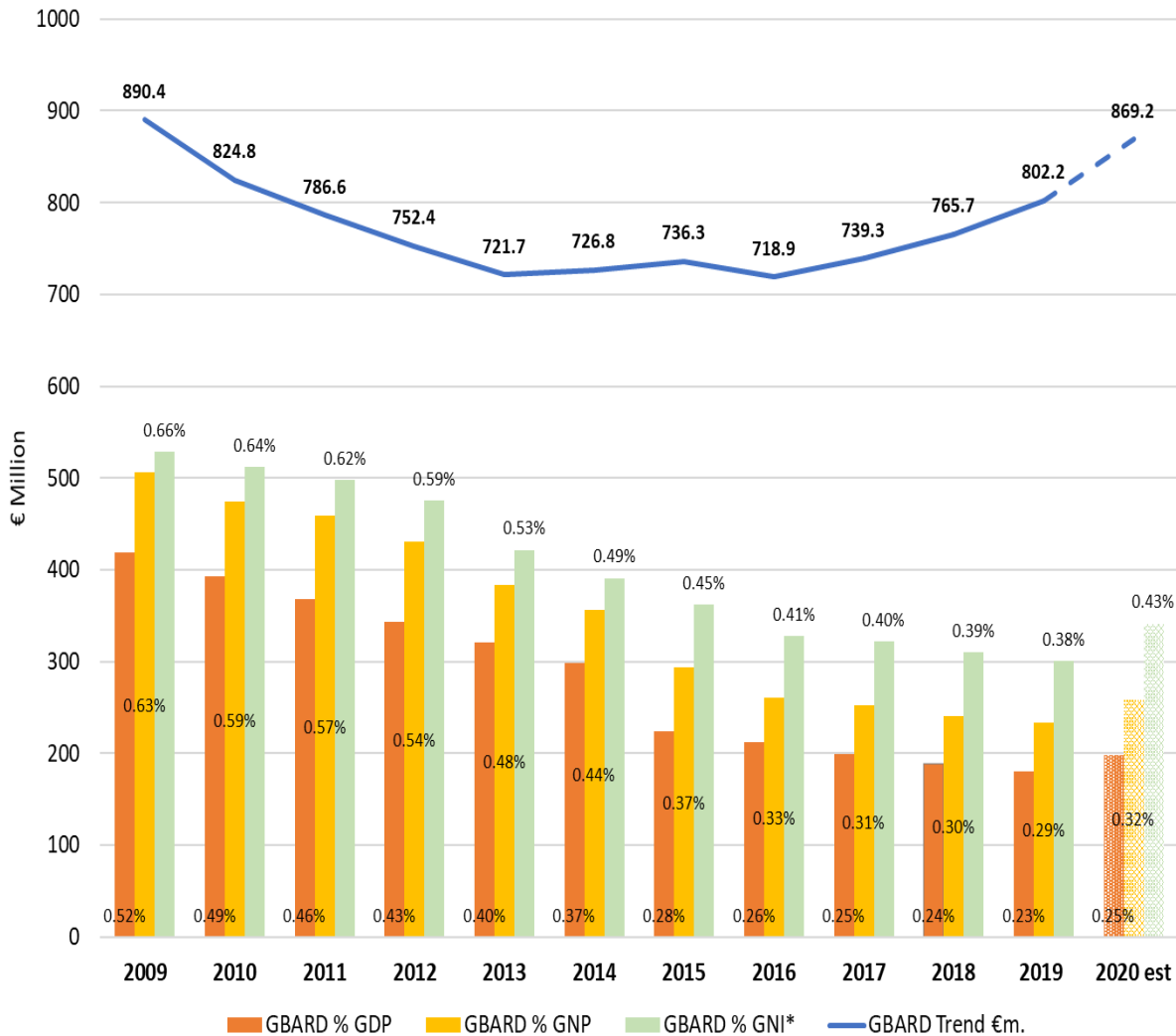
Business Expenditure
on R&D Estimated:
€2,910m
R&D Personnel:*
18,956

Higher Education
Expenditure on R&D
Estimated
€952.4m
R&D Personnel:*
11,243

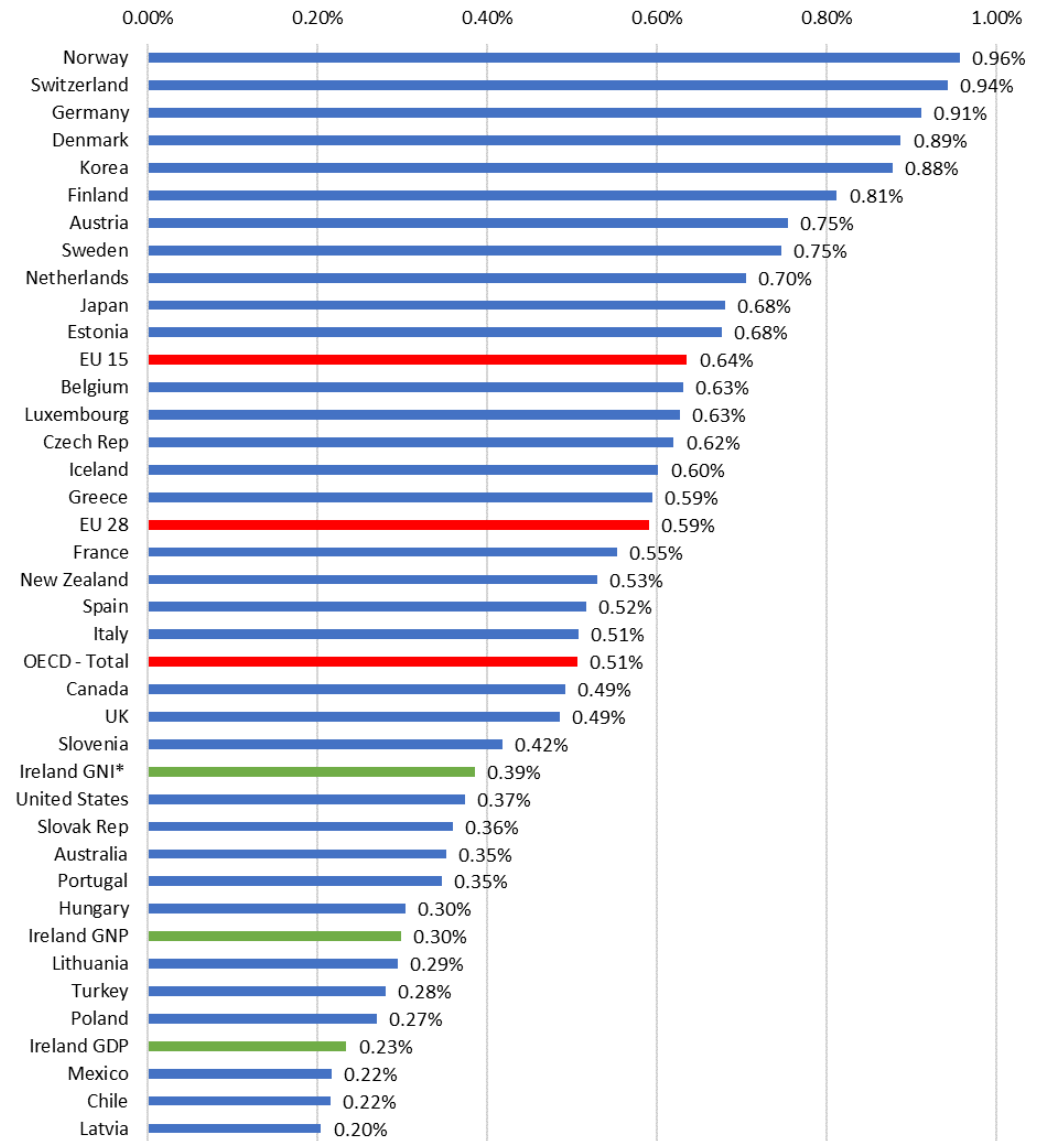
Government
Sector R&D:
€164m
R&D Personnel:*
1,196

*Full Time Equivalent numbers.

GBARD - Government R&D Budget (€m) and as % of GDP/GNP/GNI*, 2009-2020

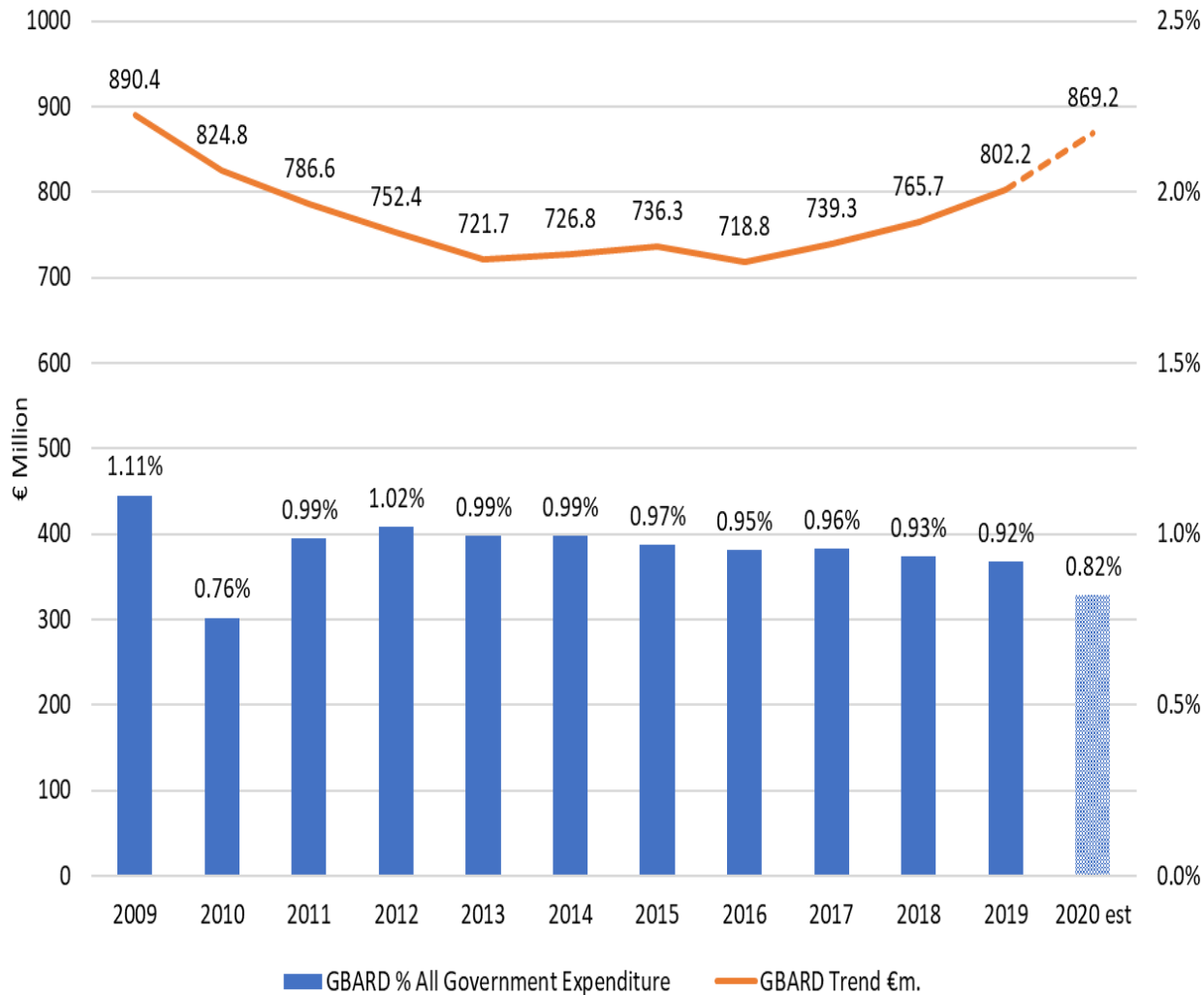


International Comparison – Civil GBARD as % of GDP & GNP/GNI* for Ireland, 2018

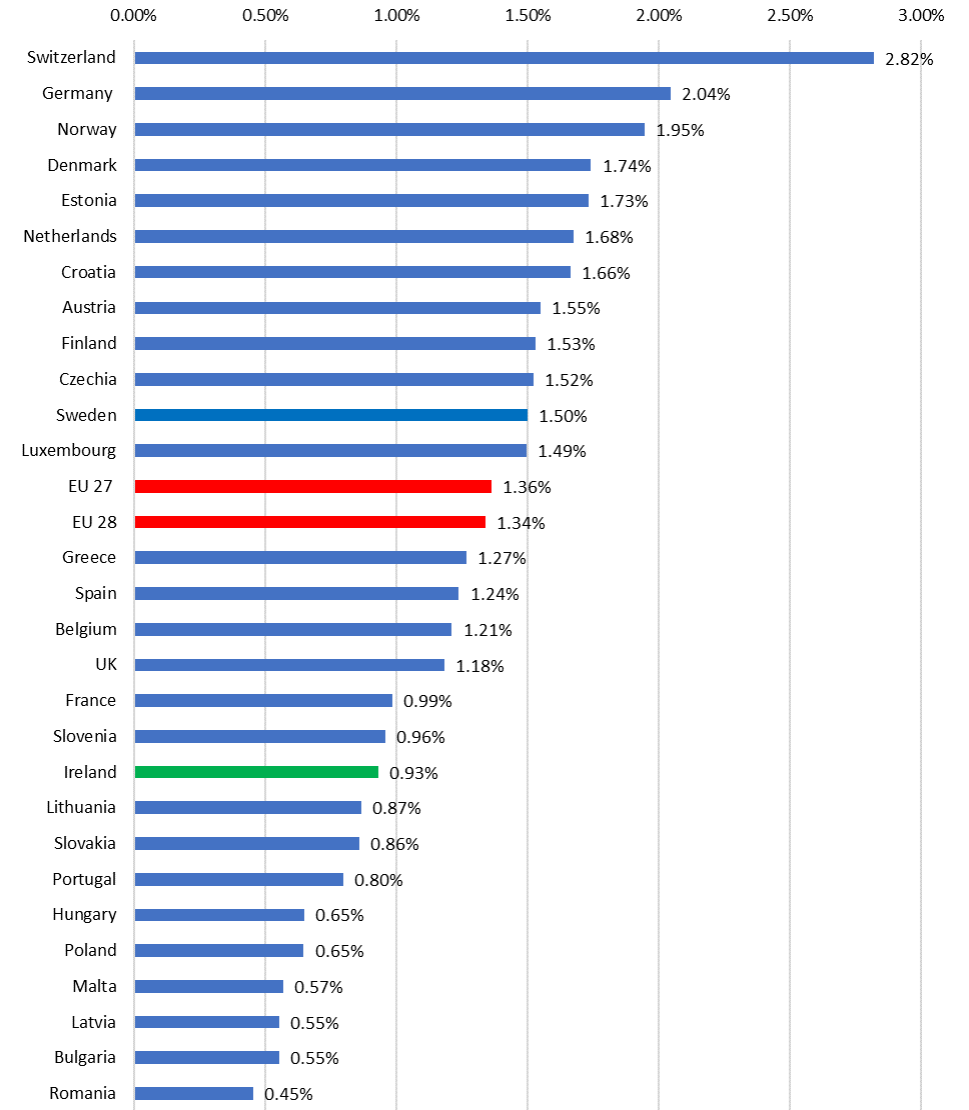


Source: OECD

GBARD as a % of Total Government Expenditure, 2009-2020

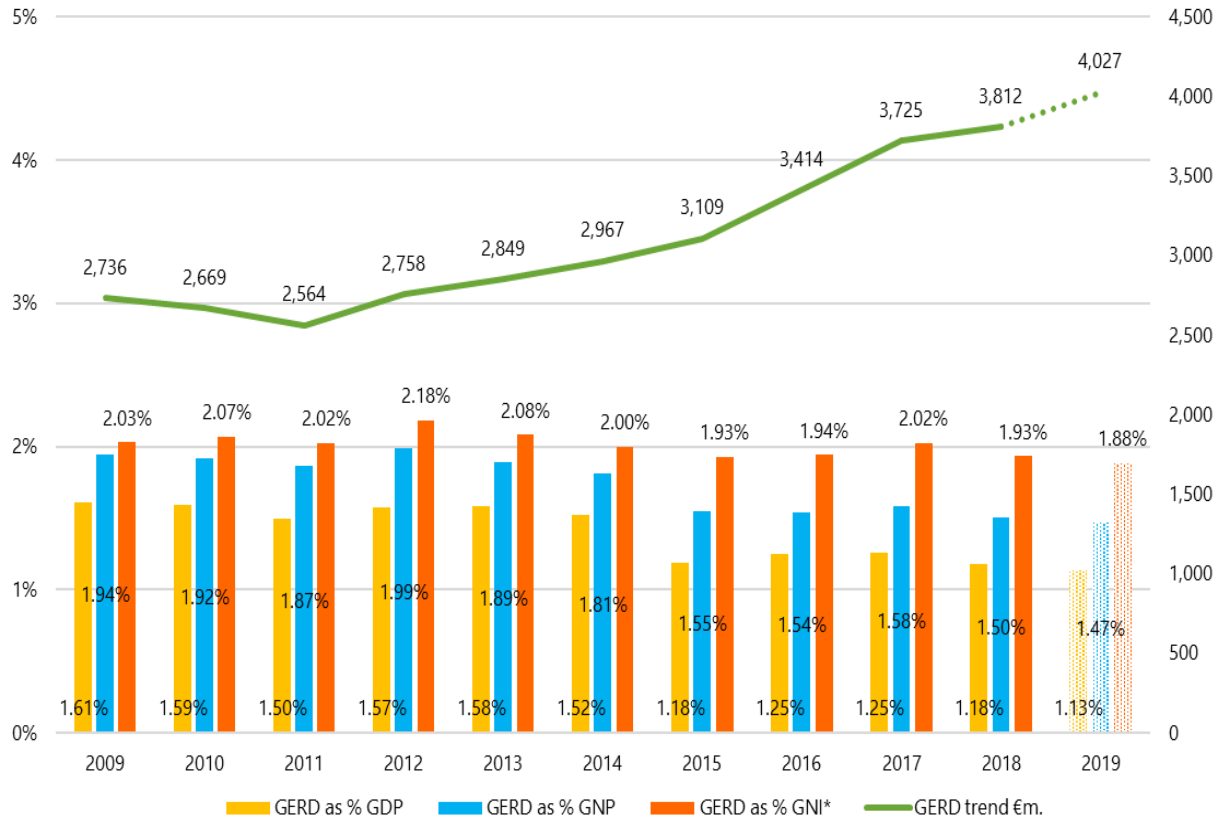


International Comparison - Civil GBARD as a % of Total Government Expenditure, 2018

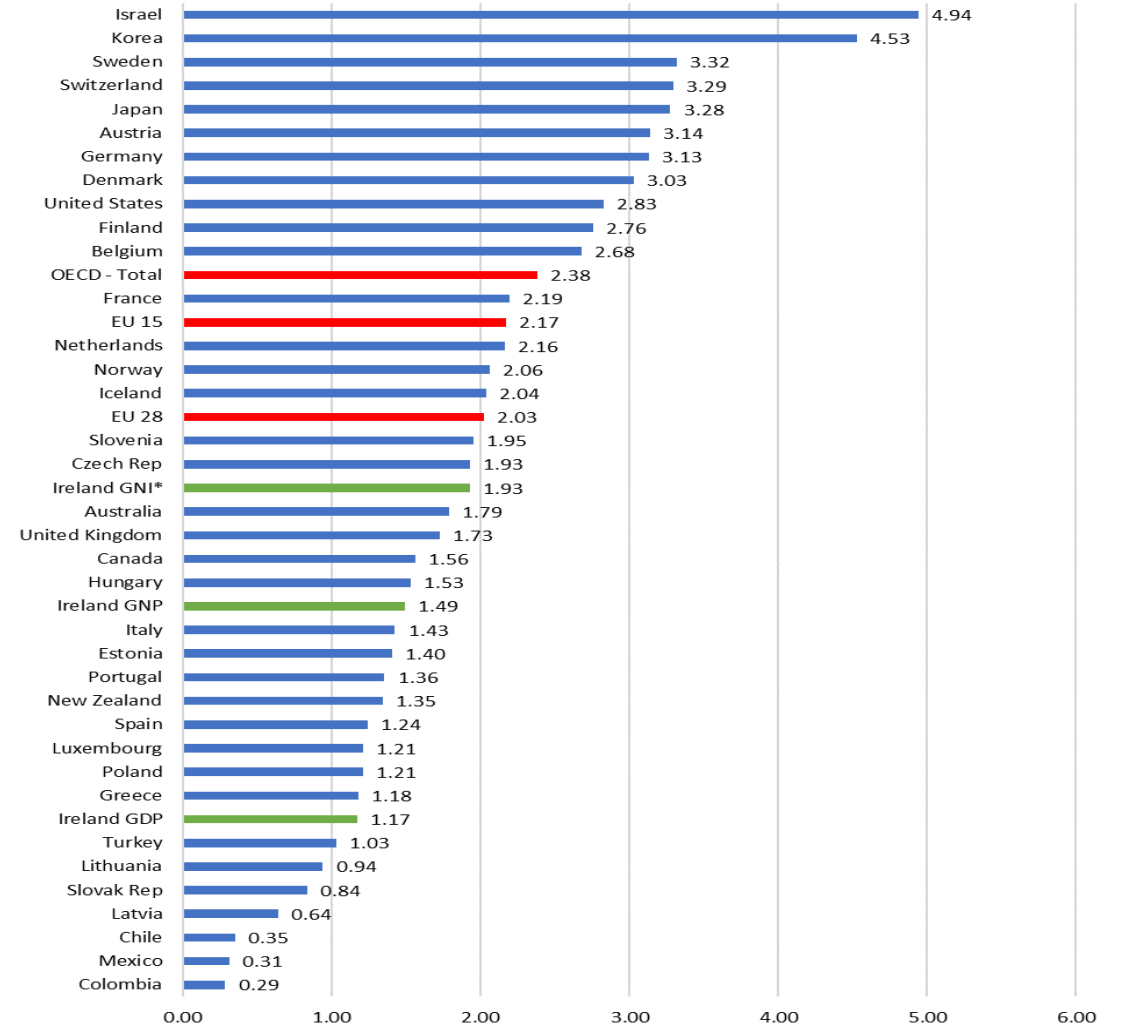


Source: Eurostat

Gross Expenditure on R&D (GERD) and as a percentage of GDP/GNP/GNI*, 2009-2019

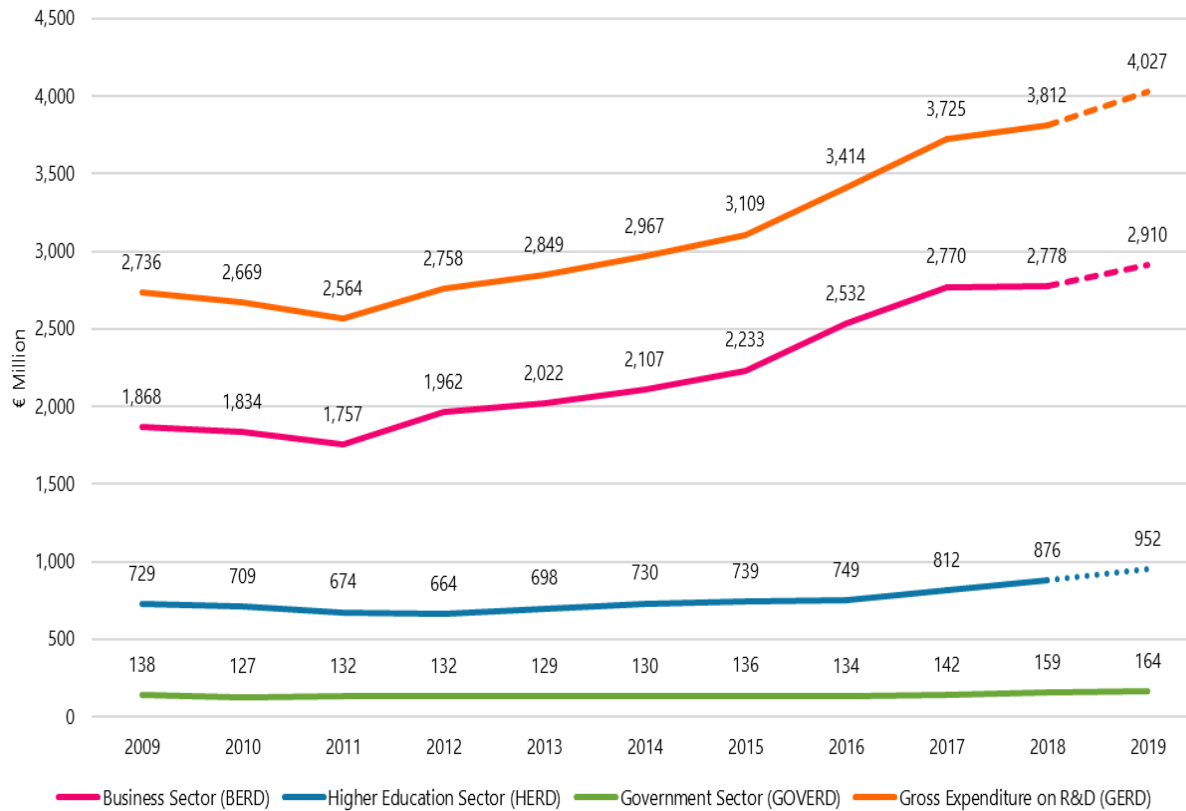


International Comparison - Civil GERD as % of GDP & GNP/GNI* for Ireland, 2018



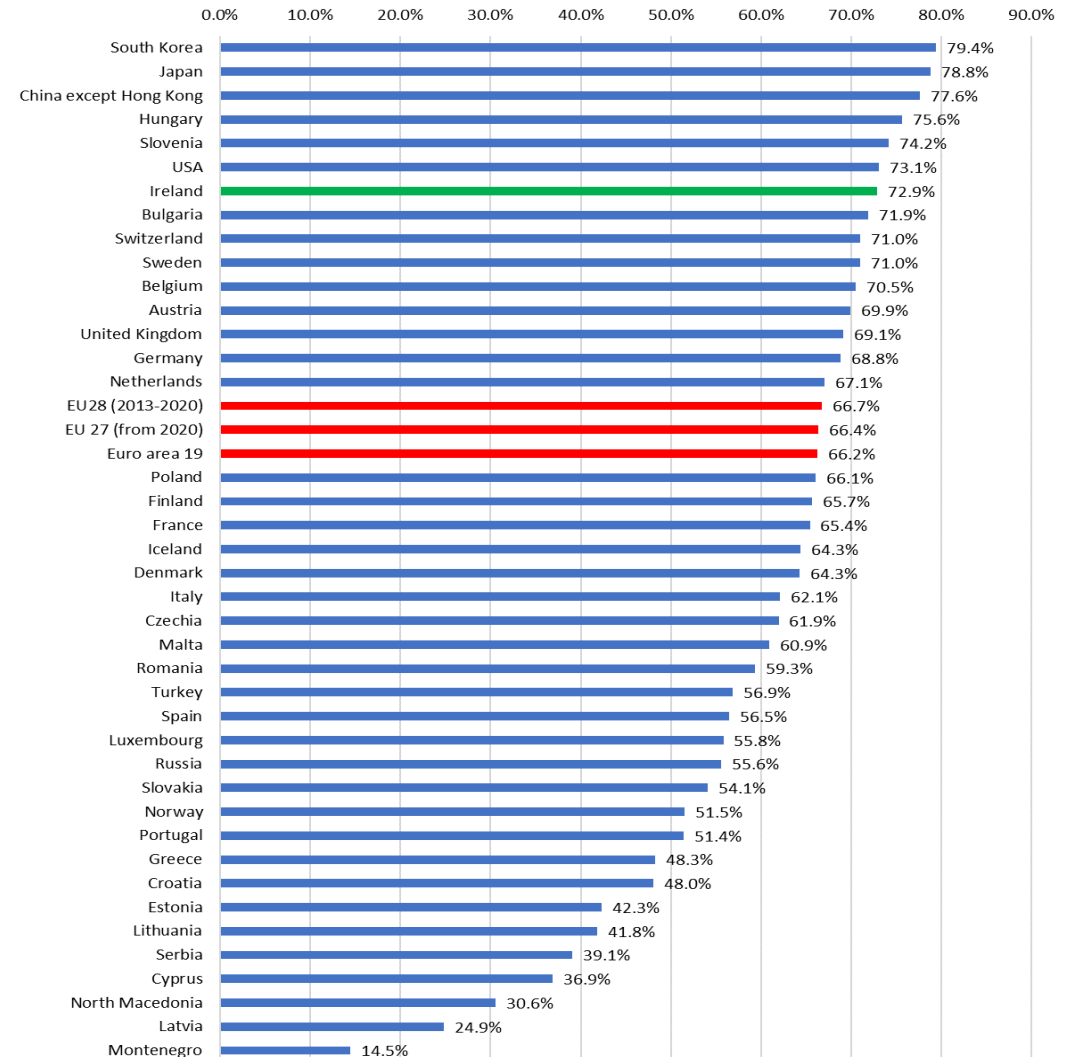
Source: OECD and Eurostat

Gross Expenditure on R&D (GERD) by Sector, 2009-2019



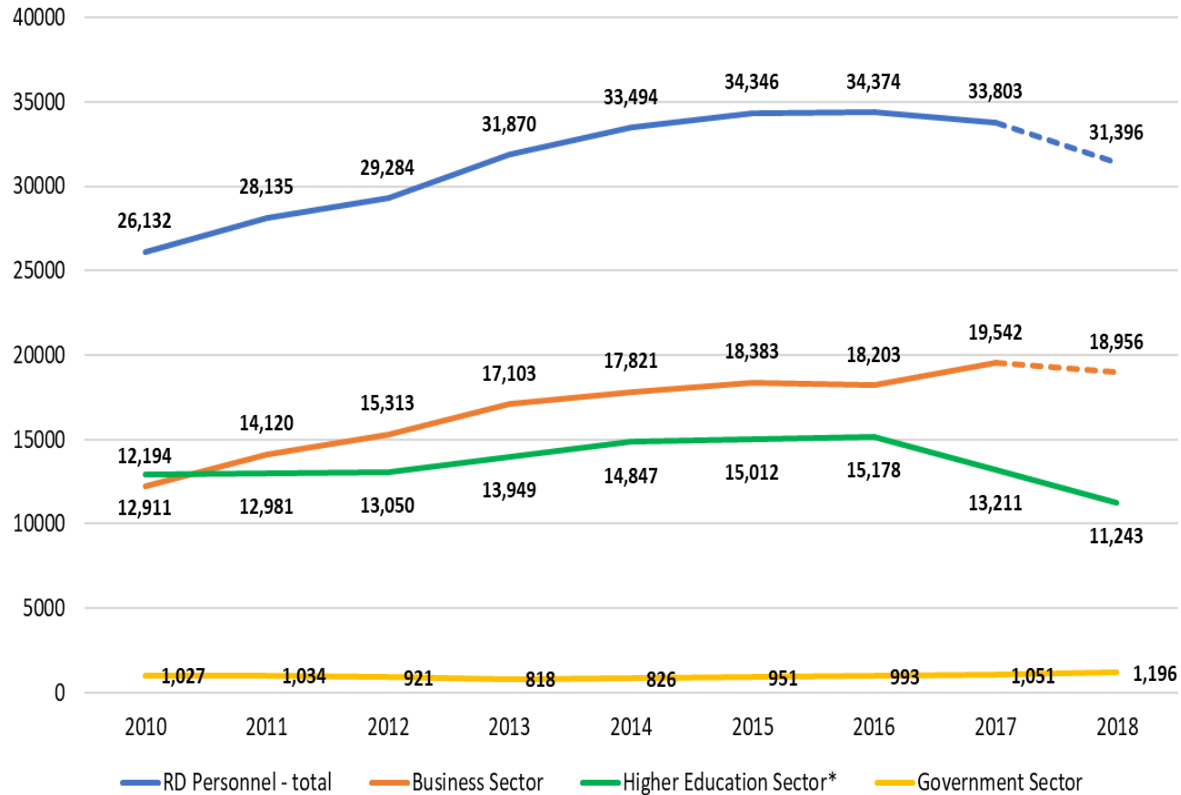
Note: HERD and BERD figures for 2019 are estimates

International Comparison – Share of GERD performed in Business Sector, 2018

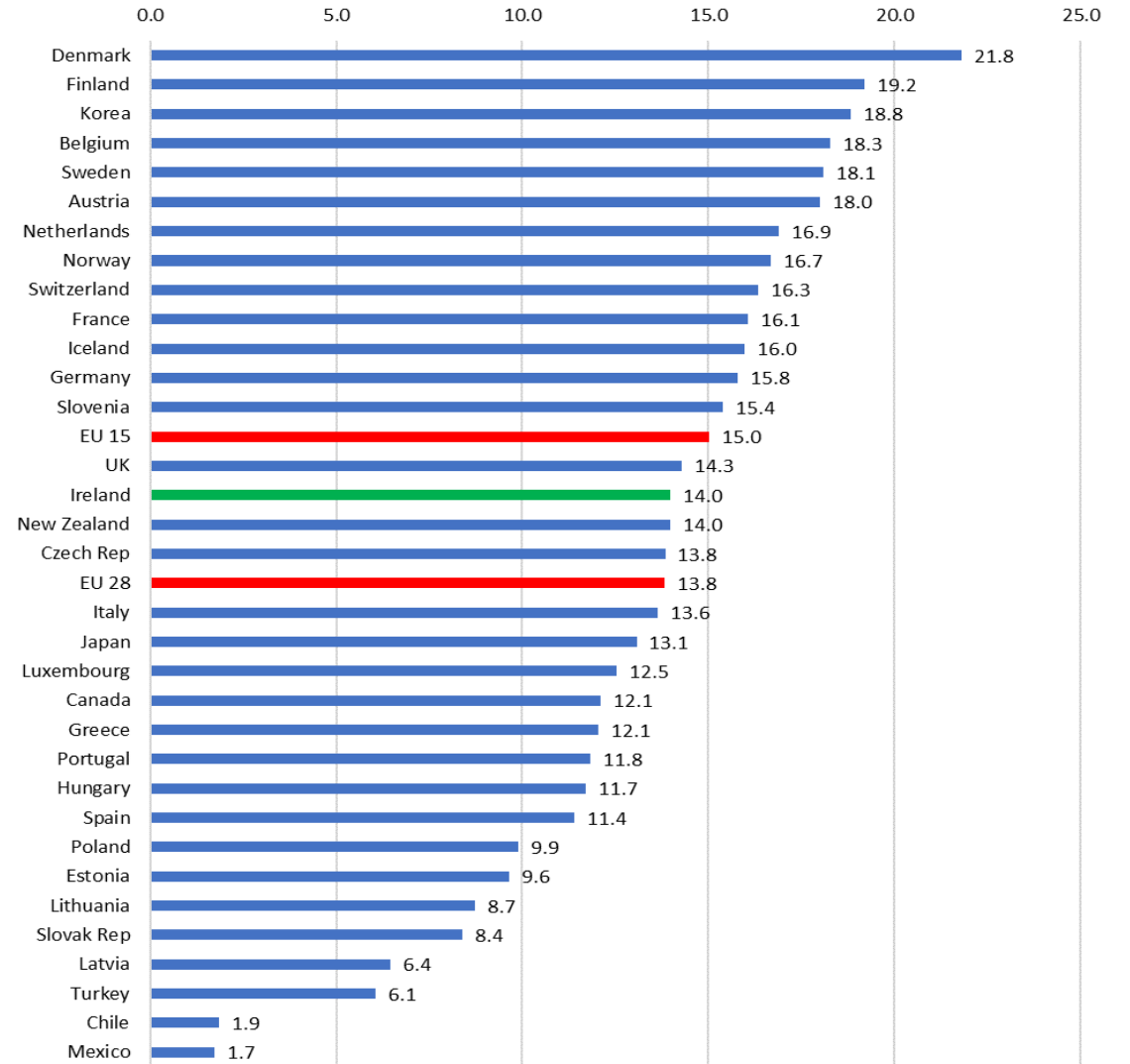


Source: OECD

R&D Personnel (FTE) in Ireland by Sector, 2010-2018

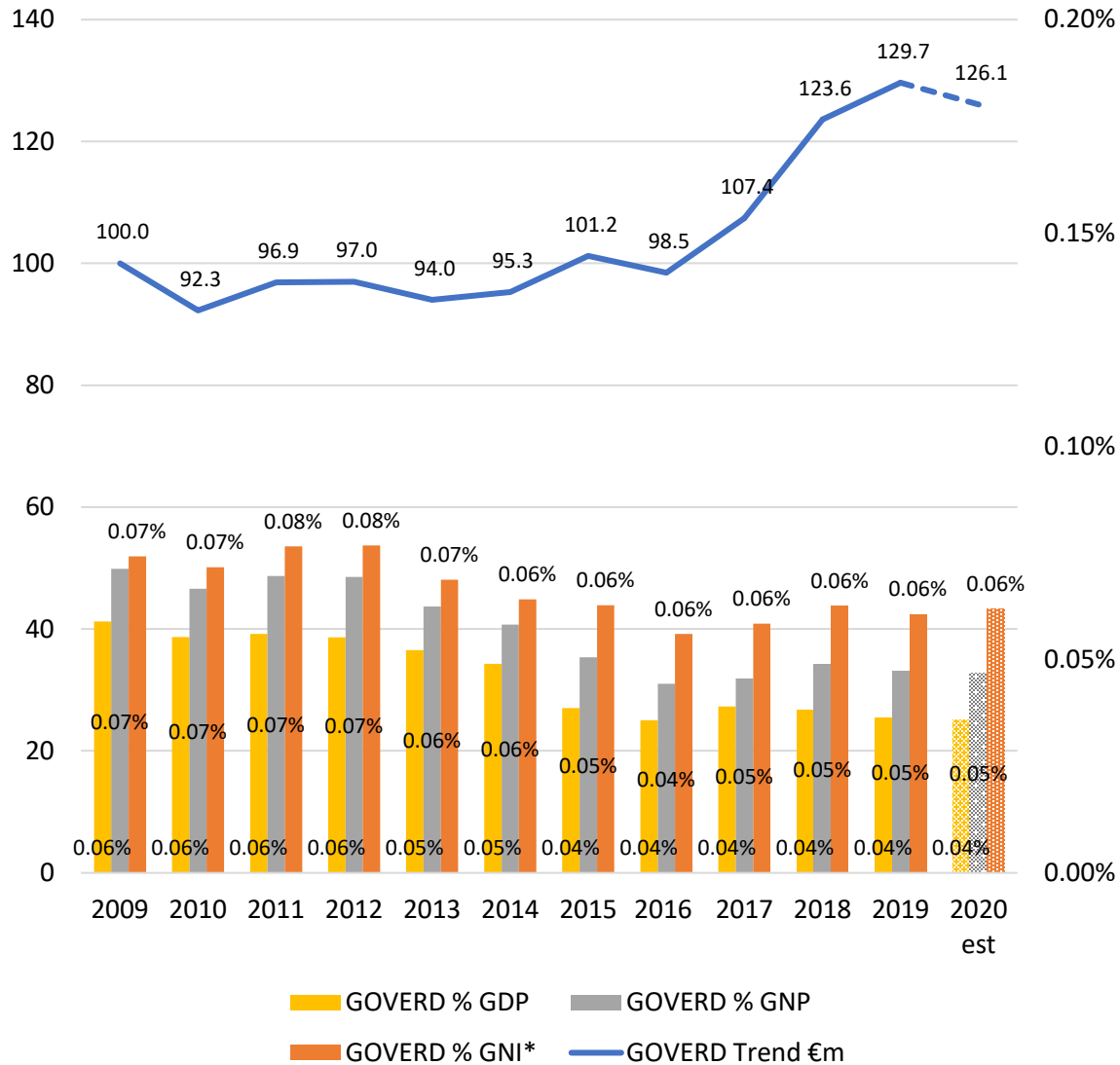


International Comparison - R&D Personnel per Thousand Employed, 2018

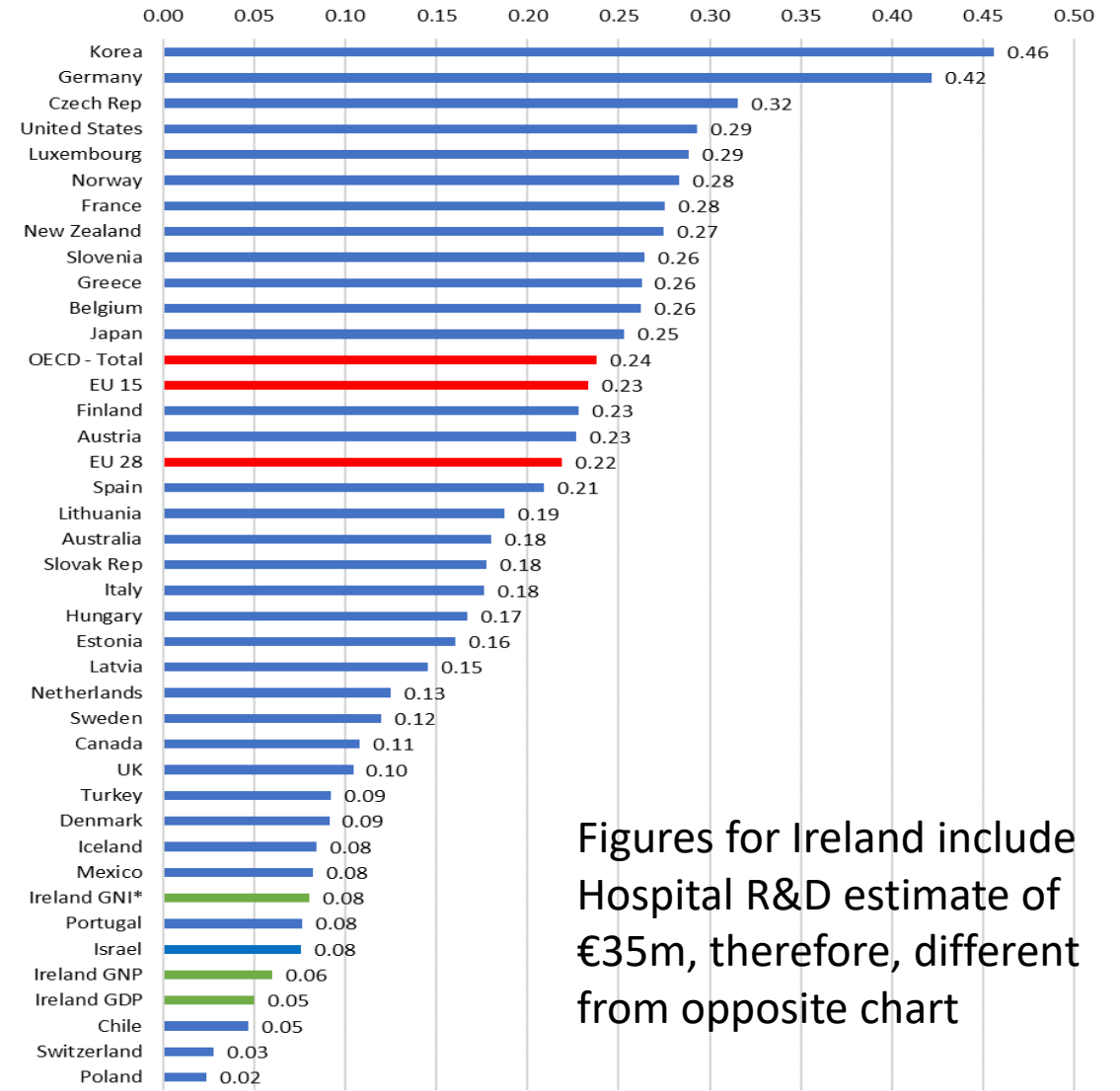


Source: OECD

GOVERD trend (€m) and GOVERD as % of GDP/GNP/GNI* (2009-2020)



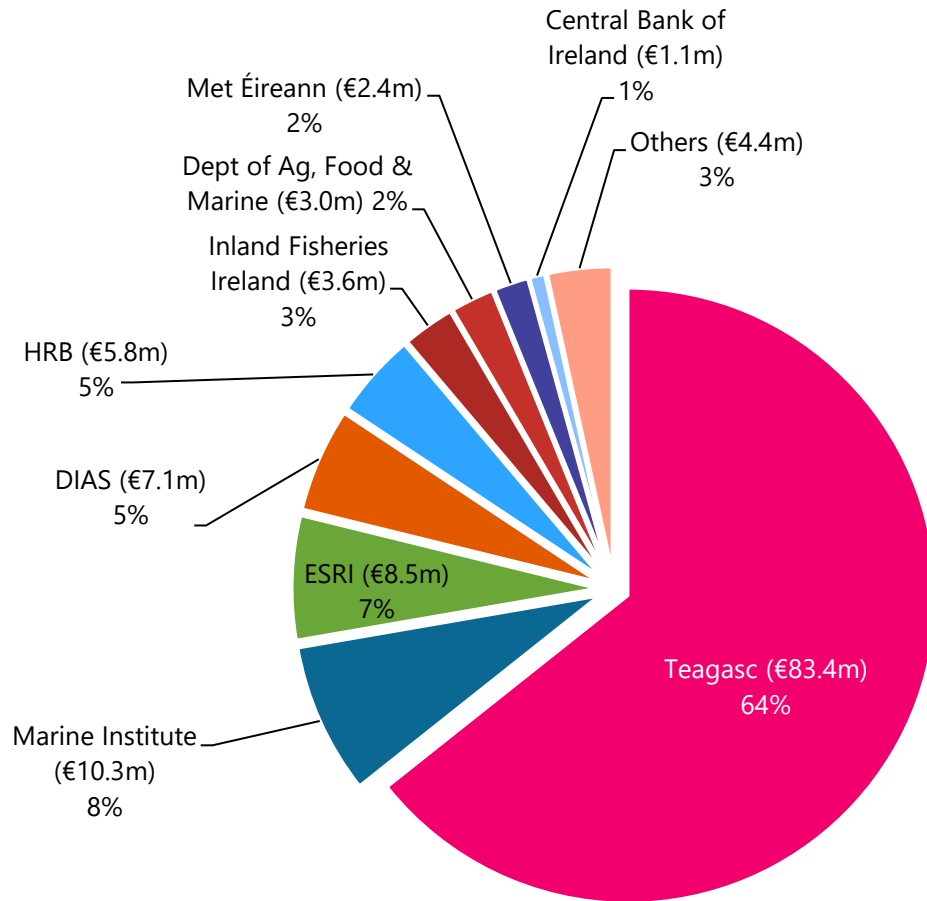
International comparison – GOVERD % GDP/GNI* 2018



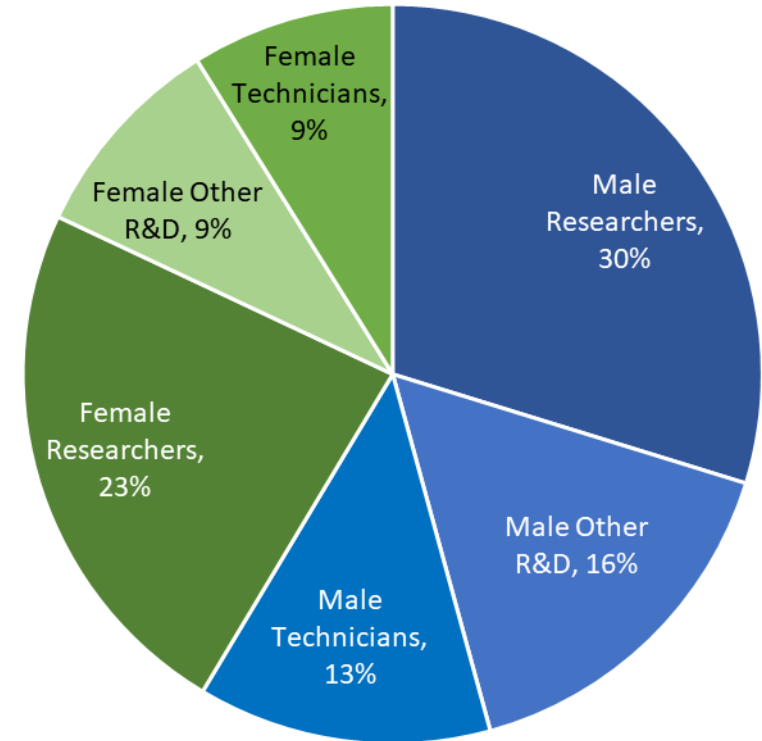
Figures for Ireland include Hospital R&D estimate of €35m, therefore, different from opposite chart

Source: OECD

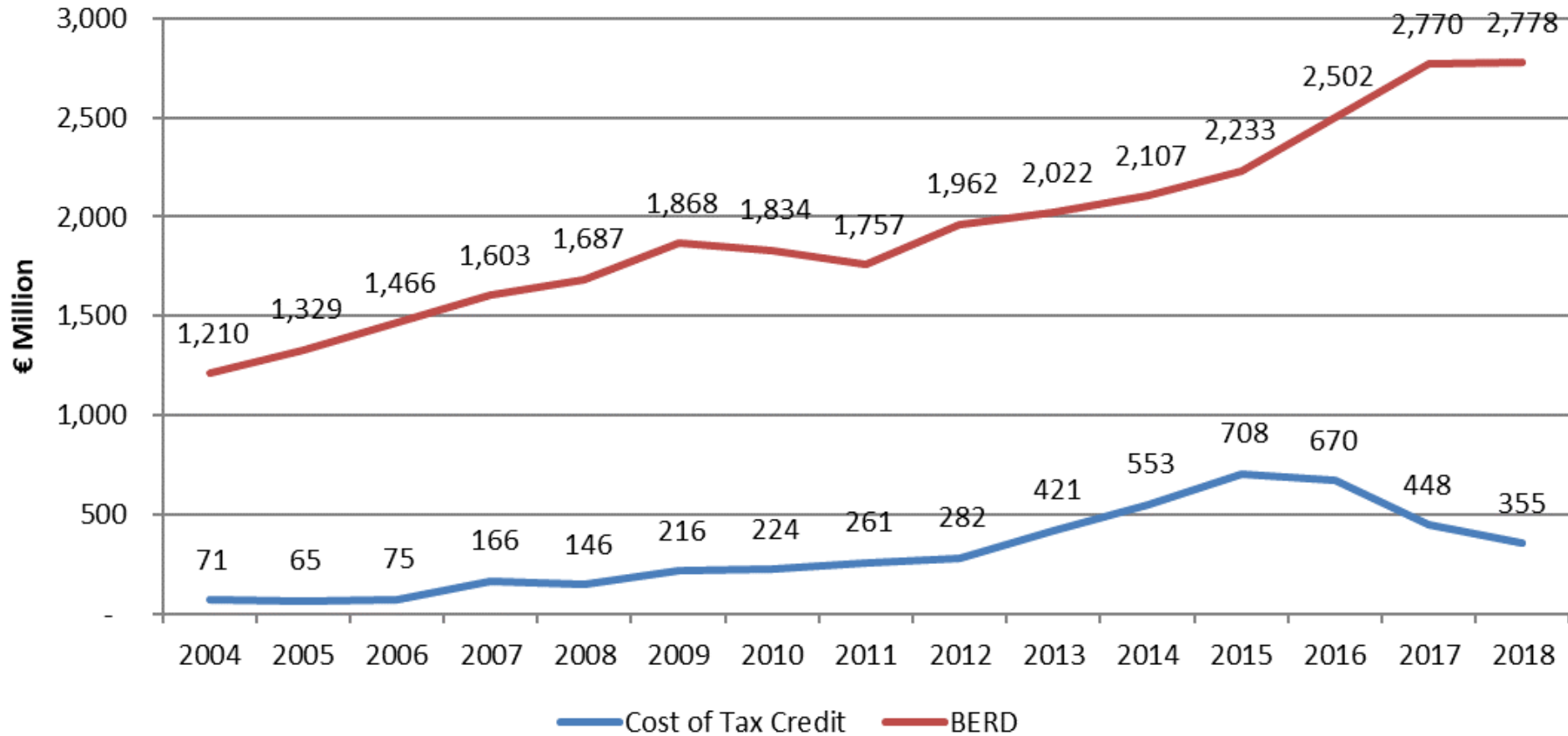
Major Government Sector R&D performers, 2019



R&D Personnel (FTE) in the Government Sector, 2019



BERD and Cost of R&D Tax Credit €m



Key Messages

- Government Budget Allocations for R&D (GBARD) increased by 4.8% in 2019 to €802.1m
- GERD has increased by 57% since the low of 2011 to reach €4.027 billion in 2019
- However, Ireland's R&D intensity (1.13%/1.47%/1.88% of GDP/GNP/GNI* V's EU 28 2.03%) has dropped as our economy has grown faster in proportion to GBARD (*GDP in current prices has increased by 109% between 2009 and 2019*)
- After Hungary and Slovenia, Ireland has the third highest share in Europe of R&D performed in the business sector at 72.9%
- After a decade of increase in the number of R&D personnel, the business sector has seen a slight decrease between 2017 and 2018, from 19,542 to 18,956
- GOVERD increased by 5% over the previous year to €129.7m – however Ireland is significantly below EU average as a percent of GDP/GNP/GNI*