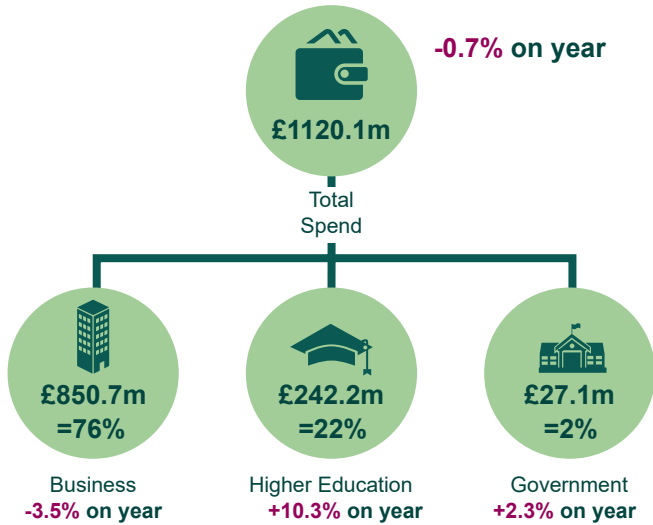


Research & Development Expenditure 2022

Source: Northern Ireland Research & Development Statistics, NISRA (Feb 2024)

R&D activity is defined as research or technological development with an appreciable level of novelty or innovation in line with international criteria (the Frascati manual). Results are based on cash terms unless 'real terms' are referenced i.e. where deflators are used to take out the effect of price changes over time. As methodological improvements have been implemented for the 2022 survey, users should exercise caution when drawing comparisons between 2022 BERD data and previous years.

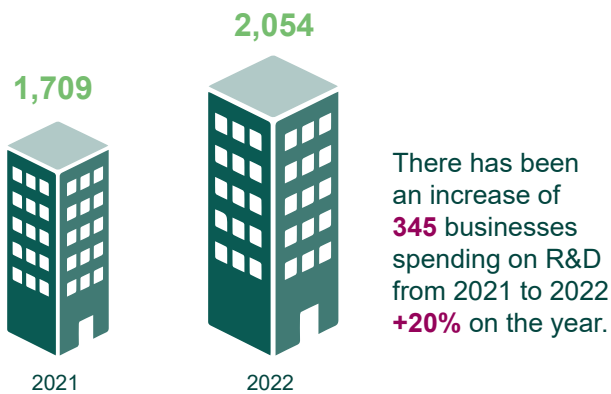
Total R&D Expenditure



Total Expenditure 2018-2022

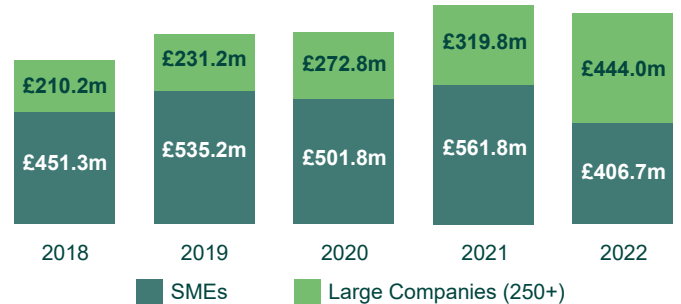


Number of Businesses Spending on R&D

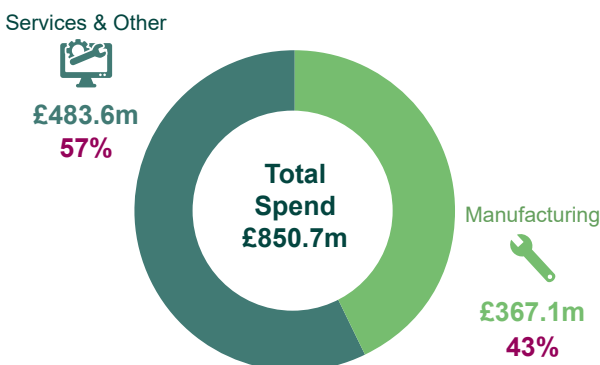


Business Expenditure on R&D (BERD)

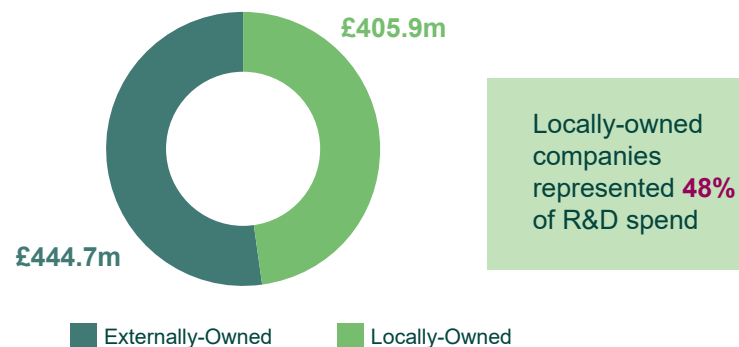
SME expenditure has decreased by **10%** and large company spend has increased by **111%** over a 5 year period. Large companies account for **52%** of spend and SMEs **48%**.



BERD by Sector



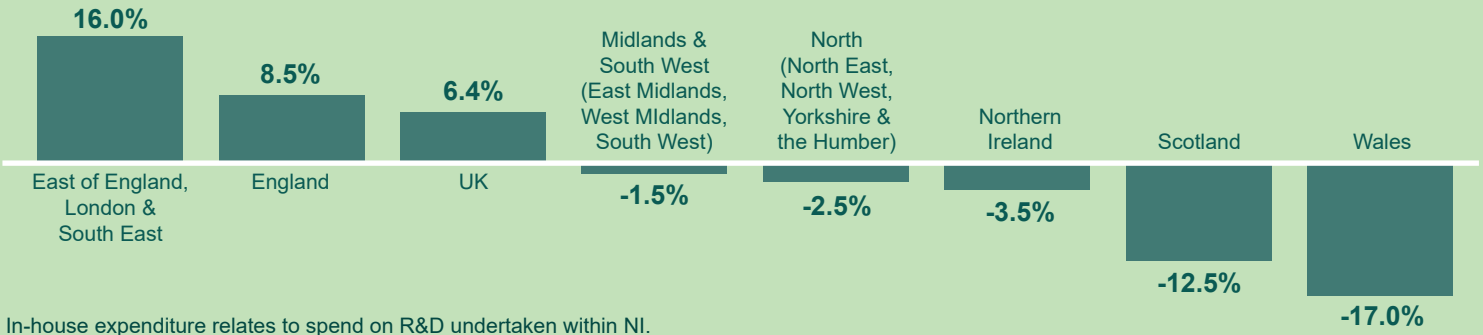
BERD by Ownership



BERD In-house Expenditure

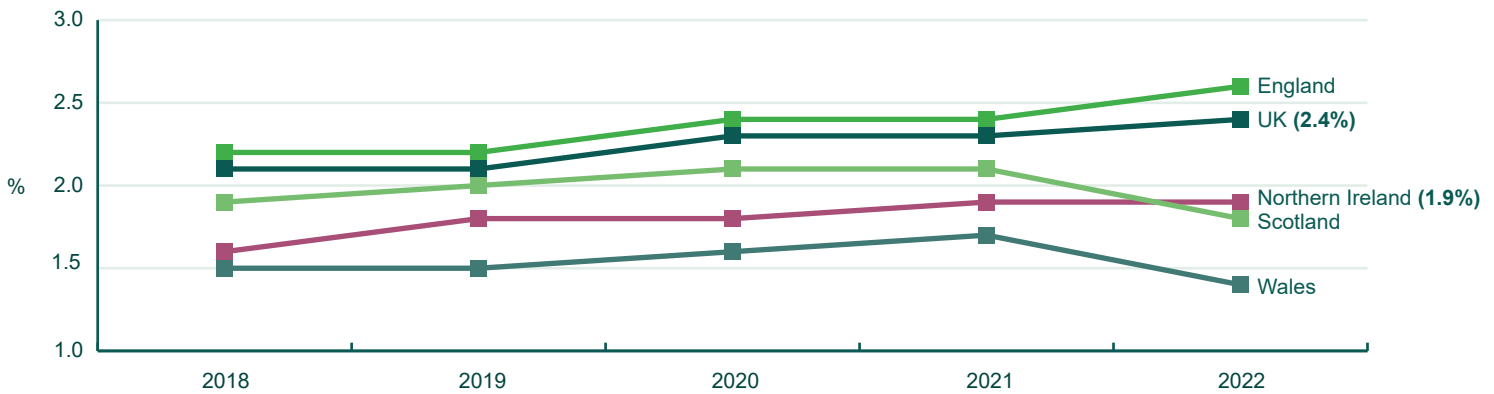
Of the grouped regions and countries, NI was one of five groupings that reported a decrease in (in-house) R&D expenditure over the year (-3.5%) £882m to £851m

2021-2022



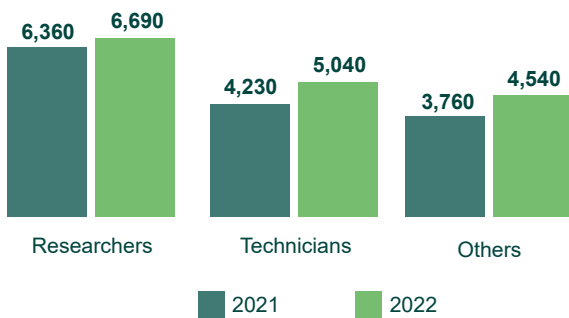
In-house expenditure relates to spend on R&D undertaken within NI.

R&D Investment Rate¹

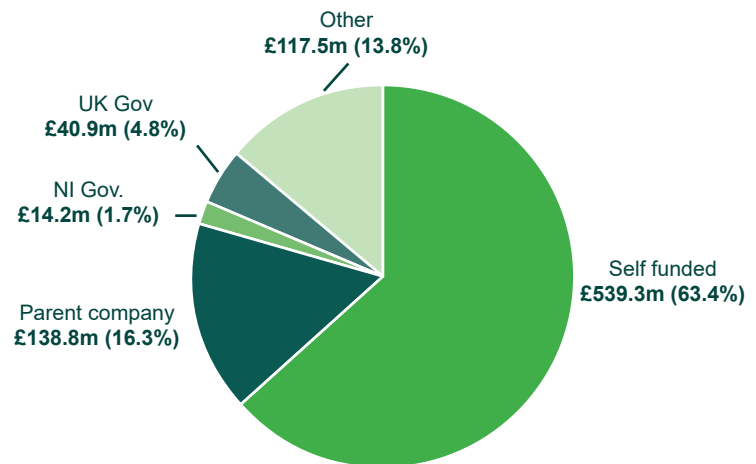


The most recent GVA data available are for 2021. To calculate the 2022 R&D investment rate we have divided the 2022 R&D data by 2021 GVA.

BERD Employment



BERD Funding by Source 2022



¹Northern Ireland 2022 in-house R&D as a proportion of previous year's GVA. Source is ONS Regional GVA Reports 2021.