Research & Development Activity of Irish Based Enterprise: Volume 2 - Data

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1. Introduction

This report presents a supporting set of information and data for the descriptive report entitled 'Research and Development Activity of Irish Based Enterprise'. The information provided, includes NACE code descriptions and enterprise sector economic and R&D data.

2. NACE revision 1.1 - 2002

NACE	DESCRIPTION
Α	Agriculture, hunting and forestry
01	Agriculture, hunting and related service activities
01.1	Growing of crops; market gardening; horticulture
01.11	Growing of cereals and other crops n.e.c.
01.12	Growing of vegetables, horticultural specialities and nursery products
01.13	Growing of fruit, nuts, beverage and spice crops
01.2	Farming of animals
01.21	Farming of cattle, dairy farming
01.22	Farming of sheep, goats, horses, asses, mules and hinnies
01.23	Farming of swine
01.24	Farming of poultry
01.25	Other farming of animals
01.3	Growing of crops combined with farming of animals (mixed farming)
01.30	Growing of crops combined with farming of animals (mixed farming)
01.4	Agricultural and animal husbandry service activities, except veterinary activities; landscape gardening
01.41	Agricultural service activities; landscape gardening
01.42	Animal husbandry service activities, except veterinary activities
01.5	Hunting, trapping and game propagation, including related service activities
01.50	Hunting, trapping and game propagation, including related service activities
02	Forestry, logging and related service activities
02.0	Forestry, logging and related service activities
02.01	Forestry and logging
02.02	Forestry and logging related service activities
В	Fishing
05	Fishing, fish farming and related service activities
05.0	Fishing, fish farming and related service activities

05.01	Fishing
05.02	Fish farming
С	Mining and quarrying
CA	Mining and quarrying of energy producing materials
10	Mining of coal and lignite; extraction of peat
10.1	Mining and agglomeration of hard coal
10.10	Mining and agglomeration of hard coal
10.2	Mining and agglomeration of lignite
10.20	Mining and agglomeration of lignite
10.3	Extraction and agglomeration of peat
10.30	Extraction and agglomeration of peat
11	Extraction of crude petroleum and natural gas; service activities incidental to oil and gas extraction, excluding surveying
11.1	Extraction of crude petroleum and natural gas
11.10	Extraction of crude petroleum and natural gas
11.2	Service activities incidental to oil and gas extraction, excluding surveying
11.20	Service activities incidental to oil and gas extraction, excluding surveying
12	Mining of uranium and thorium ores
12.0	Mining of uranium and thorium ores
12.00	Mining of uranium and thorium ores
СВ	Mining and quarrying, except of energy producing materials
13	Mining of metal ores
13.1	Mining of iron ores
13.10	Mining of iron ores
13.2	Mining of non-ferrous metal ores, except uranium and thorium ores
13.20	Mining of non-ferrous metal ores, except uranium and thorium ores
14	Other mining and quarrying
14.1	Quarrying of stone
14.11	Quarrying of ornamental and building stone
14.12	Quarrying of limestone, gypsum and chalk

14.13	Quarrying of slate
14.2	Quarrying of sand and clay
14.21	Operation of gravel and sand pits
14.22	Mining of clays and kaolin
14.3	Mining of chemical and fertiliser minerals
14.30	Mining of chemical and fertiliser minerals
14.4	Production of salt
14.40	Production of salt
14.5	Other mining and quarrying n.e.c.
14.50	Other mining and quarrying n.e.c.
D	Manufacturing
DA	Manufacture of food products, beverages and tobacco
15	Manufacture of food products and beverages
15.1	Production, processing and preserving of meat and meat products
15.11	Production and preserving of meat
15.12	Production and preserving of poultrymeat
15.13	Production of meat and poultrymeat products
15.2	Processing and preserving of fish and fish products
15.20	Processing and preserving of fish and fish products
15.3	Processing and preserving of fruit and vegetables
15.31	Processing and preserving of potatoes
15.32	Manufacture of fruit and vegetable juice
15.33	Processing and preserving of fruit and vegetables n.e.c.
15.4	Manufacture of vegetable and animal oils and fats
15.41	Manufacture of crude oils and fats
15.42	Manufacture of refined oils and fats
15.43	Manufacture of margarine and similar edible fats
15.5	Manufacture of dairy products
15.51	Operation of dairies and cheese making
15.52	Manufacture of ice cream

15.6	Manufacture of grain mill products, starches and starch products
15.61	Manufacture of grain mill products
15.62	Manufacture of starches and starch products
15.7	Manufacture of prepared animal feeds
15.71	Manufacture of prepared feeds for farm animals
15.72	Manufacture of prepared pet foods
15.8	Manufacture of other food products
15.81	Manufacture of bread; manufacture of fresh pastry goods and cakes
15.82	Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes
15.83	Manufacture of sugar
15.84	Manufacture of cocoa; chocolate and sugar confectionery
15.85	Manufacture of macaroni, noodles, couscous and similar farinaceous products
15.86	Processing of tea and coffee
15.87	Manufacture of condiments and seasonings
15.88	Manufacture of homogenised food preparations and dietetic food
15.89	Manufacture of other food products n.e.c.
15.9	Manufacture of beverages
15.91	Manufacture of distilled potable alcoholic beverages
15.92	Production of ethyl alcohol from fermented materials
15.93	Manufacture of wines
15.94	Manufacture of cider and other fruit wines
15.95	Manufacture of other non-distilled fermented beverages
15.96	Manufacture of beer
15.97	Manufacture of malt
15.98	Production of mineral waters and soft drinks
16	Manufacture of tobacco products
16.0	Manufacture of tobacco products
16.00	Manufacture of tobacco products
DB	Manufacture of textiles and textile products
17	Manufacture of textiles

17.1	Preparation and spinning of textile fibres
17.11	Preparation and spinning of cotton-type fibres
17.12	Preparation and spinning of woollen-type fibres
17.13	Preparation and spinning of worsted-type fibres
17.14	Preparation and spinning of flax-type fibres
17.15	Throwing and preparation of silk, including from noils, and throwing and texturing of synthetic or artificial filament yarns
17.16	Manufacture of sewing threads
17.17	Preparation and spinning of other textile fibres
17.2	Textile weaving
17.21	Cotton-type weaving
17.22	Woollen-type weaving
17.23	Worsted-type weaving
17.24	Silk-type weaving
17.25	Other textile weaving
17.3	Finishing of textiles
17.30	Finishing of textiles
17.4	Manufacture of made-up textile articles, except apparel
17.40	Manufacture of made-up textile articles, except apparel
17.5	Manufacture of other textiles
17.51	Manufacture of carpets and rugs
17.52	Manufacture of cordage, rope, twine and netting
17.53	Manufacture of non-wovens and articles made from non-wovens, except apparel
17.54	Manufacture of other textiles n.e.c.
17.6	Manufacture of knitted and crocheted fabrics
17.60	Manufacture of knitted and crocheted fabrics
17.7	Manufacture of knitted and crocheted articles
17.71	Manufacture of knitted and crocheted hosiery
17.72	Manufacture of knitted and crocheted pullovers, cardigans and similar articles
18	Manufacture of wearing apparel; dressing and dyeing of fur

18.1	Manufacture of leather clothes
18.10	Manufacture of leather clothes
18.2	Manufacture of other wearing apparel and accessories
18.21	Manufacture of workwear
18.22	Manufacture of other outerwear
18.23	Manufacture of underwear
18.24	Manufacture of other wearing apparel and accessories n.e.c.
18.3	Dressing and dyeing of fur; manufacture of articles of fur
18.30	Dressing and dyeing of fur; manufacture of articles of fur
DC	Manufacture of leather and leather products
19	Tanning and dressing of leather; manufacture of luggage, handbags, saddlery, harness and footwear
19.1	Tanning and dressing of leather
19.10	Tanning and dressing of leather
19.2	Manufacture of luggage, handbags and the like, saddlery and harness
19.20	Manufacture of luggage, handbags and the like, saddlery and harness
19.3	Manufacture of footwear
19.30	Manufacture of footwear
DD	Manufacture of wood and wood products
20	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
20.1	Sawmilling and planing of wood; impregnation of wood
20.10	Sawmilling and planing of wood; impregnation of wood
20.2	Manufacture of veneer sheets; manufacture of plywood, laminboard, particle board, fibre board and other panels and boards
20.20	Manufacture of veneer sheets; manufacture of plywood, laminboard, particle board, fibre board and other panels and boards
20.3	Manufacture of builders carpentry and joinery
20.30	Manufacture of builders carpentry and joinery
20.4	Manufacture of wooden containers
20.40	Manufacture of wooden containers

20.5	Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials
20.51	Manufacture of other products of wood
20.52	Manufacture of articles of cork, straw and plaiting materials
DE	Manufacture of pulp, paper and paper products; publishing and printing
21	Manufacture of pulp, paper and paper products
21.1	Manufacture of pulp, paper and paperboard
21.11	Manufacture of pulp
21.12	Manufacture of paper and paperboard
21.2	Manufacture of articles of paper and paperboard
21.21	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
21.22	Manufacture of household and sanitary goods and of toilet requisites
21.23	Manufacture of paper stationery
21.24	Manufacture of wallpaper
21.25	Manufacture of other articles of paper and paperboard n.e.c.
22	Publishing, printing and reproduction of recorded media
22.1	Publishing, printing and reproduction of recorded media Publishing
22.1	Publishing
22.1	Publishing Publishing of books
22.11 22.11 22.12	Publishing of books Publishing of newspapers
22.1 22.11 22.12 22.13	Publishing of books Publishing of newspapers Publishing of journals and periodicals
22.1 22.11 22.12 22.13 22.14	Publishing of books Publishing of newspapers Publishing of journals and periodicals Publishing of sound recordings
22.11 22.12 22.13 22.14 22.15	Publishing of books Publishing of newspapers Publishing of journals and periodicals Publishing of sound recordings Other publishing
22.1 22.11 22.12 22.13 22.14 22.15 22.2	Publishing of books Publishing of newspapers Publishing of journals and periodicals Publishing of sound recordings Other publishing Printing and service activities related to printing
22.1 22.11 22.12 22.13 22.14 22.15 22.2 22.21	Publishing of books Publishing of newspapers Publishing of journals and periodicals Publishing of sound recordings Other publishing Printing and service activities related to printing Printing of newspapers
22.1 22.11 22.12 22.13 22.14 22.15 22.2 22.21 22.22	Publishing Publishing of books Publishing of newspapers Publishing of journals and periodicals Publishing of sound recordings Other publishing Printing and service activities related to printing Printing of newspapers Printing n.e.c.
22.1 22.11 22.12 22.13 22.14 22.15 22.2 22.21 22.22 22.23	Publishing Publishing of books Publishing of newspapers Publishing of journals and periodicals Publishing of sound recordings Other publishing Printing and service activities related to printing Printing of newspapers Printing n.e.c. Bookbinding
22.1 22.11 22.12 22.13 22.14 22.15 22.2 22.21 22.22 22.23 22.24	Publishing of books Publishing of newspapers Publishing of journals and periodicals Publishing of sound recordings Other publishing Printing and service activities related to printing Printing of newspapers Printing n.e.c. Bookbinding Pre-press activities

22.32	Reproduction of video recording
22.33	Reproduction of computer media
DF	Manufacture of coke, refined petroleum products and nuclear fuel
23	Manufacture of coke, refined petroleum products and nuclear fuel
23.1	Manufacture of coke oven products
23.10	Manufacture of coke oven products
23.2	Manufacture of refined petroleum products
23.20	Manufacture of refined petroleum products
23.3	Processing of nuclear fuel
23.30	Processing of nuclear fuel
DG	Manufacture of chemicals, chemical products and man-made fibres
24	Manufacture of chemicals and chemical products
24.1	Manufacture of basic chemicals
24.11	Manufacture of industrial gases
24.12	Manufacture of dyes and pigments
24.13	Manufacture of other inorganic basic chemicals
24.14	Manufacture of other organic basic chemicals
24.15	Manufacture of fertilisers and nitrogen compounds
24.16	Manufacture of plastics in primary forms
24.17	Manufacture of synthetic rubber in primary forms
24.2	Manufacture of pesticides and other agro-chemical products
24.20	Manufacture of pesticides and other agro-chemical products
24.3	Manufacture of paints, varnishes and similar coatings, printing ink and mastics
24.30	Manufacture of paints, varnishes and similar coatings, printing ink and mastics
24.4	Manufacture of pharmaceuticals, medicinal chemicals and botanical products
24.41	Manufacture of basic pharmaceutical products
24.42	Manufacture of pharmaceutical preparations
24.5	Manufacture of soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations
24.51	Manufacture of soap and detergents, cleaning and polishing preparations

24.52	Manufacture of perfumes and toilet preparations
24.6	Manufacture of other chemical products
24.61	Manufacture of explosives
24.62	Manufacture of glues and gelatines
24.63	Manufacture of essential oils
24.64	Manufacture of photographic chemical material
24.65	Manufacture of prepared unrecorded media
24.66	Manufacture of other chemical products n.e.c.
24.7	Manufacture of man-made fibres
24.70	Manufacture of man-made fibres
DH	Manufacture of rubber and plastic products
25	Manufacture of rubber and plastic products
25.1	Manufacture of rubber products
25.11	Manufacture of rubber tyres and tubes
25.12	Retreading and rebuilding of rubber tyres
25.13	Manufacture of other rubber products
25.2	Manufacture of plastic products
25.21	Manufacture of plastic plates, sheets, tubes and profiles
25.22	Manufacture of plastic packing goods
25.23	Manufacture of builders ware of plastic
25.24	Manufacture of other plastic products
DI	Manufacture of other non-metallic mineral products
26	Manufacture of other non-metallic mineral products
26.1	Manufacture of glass and glass products
26.11	Manufacture of flat glass
26.12	Shaping and processing of flat glass
26.13	Manufacture of hollow glass
26.14	Manufacture of glass fibres
26.15	Manufacture and processing of other glass, including technical glassware
26.2	Manufacture of non-refractory ceramic goods other than for construction purposes;

	manufacture of refractory ceramic products
26.21	Manufacture of ceramic household and ornamental articles
26.22	Manufacture of ceramic sanitary fixtures
26.23	Manufacture of ceramic insulators and insulating fittings
26.24	Manufacture of other technical ceramic products
26.25	Manufacture of other ceramic products
26.26	Manufacture of refractory ceramic products
26.3	Manufacture of ceramic tiles and flags
26.30	Manufacture of ceramic tiles and flags
26.4	Manufacture of bricks, tiles and construction products, in baked clay
26.40	Manufacture of bricks, tiles and construction products, in baked clay
26.5	Manufacture of cement, lime and plaster
26.51	Manufacture of cement
26.52	Manufacture of lime
26.53	Manufacture of plaster
26.6	Manufacture of articles of concrete, plaster and cement
26.61	Manufacture of concrete products for construction purposes
26.62	Manufacture of plaster products for construction purposes
26.63	Manufacture of ready-mixed concrete
26.64	Manufacture of mortars
26.65	Manufacture of fibre cement
26.66	Manufacture of other articles of concrete, plaster and cement
26.7	Cutting, shaping and finishing of ornamental and building stone
26.70	Cutting, shaping and finishing of ornamental and building stone
26.8	Manufacture of other non-metallic mineral products
26.81	Production of abrasive products
26.82	Manufacture of other non-metallic mineral products n.e.c.
DJ	Manufacture of basic metals and fabricated metal products
27	Manufacture of basic metals
27.1	Manufacture of basic iron and steel and of ferro-alloys

27.10	Manufacture of basic iron and steel and of ferro-alloys
27.2	Manufacture of tubes
27.21	Manufacture of cast iron tubes
27.22	Manufacture of steel tubes
27.3	Other first processing of iron and steel
27.31	Cold drawing
27.32	Cold rolling of narrow strip
27.33	Cold forming or folding
27.34	Wire drawing
27.4	Manufacture of basic precious and non-ferrous metals
27.41	Precious metals production
27.42	Aluminium production
27.43	Lead, zinc and tin production
27.44	Copper production
27.45	Other non-ferrous metal production
27.5	Casting of metals
27.51	Casting of iron
27.52	Casting of steel
27.53	Casting of light metals
27.54	Casting of other non-ferrous metals
28	Manufacture of fabricated metal products, except machinery and equipment
28.1	Manufacture of structural metal products
28.11	Manufacture of metal structures and parts of structures
28.12	Manufacture of builders carpentry and joinery of metal
28.2	Manufacture of tanks, reservoirs and containers of metal; manufacture of central heating radiators and boilers
28.21	Manufacture of tanks, reservoirs and containers of metal
28.22	Manufacture of central heating radiators and boilers
28.3	Manufacture of steam generators, except central heating hot water boilers
28.30	Manufacture of steam generators, except central heating hot water boilers

28.4	Forging, pressing, stamping and roll forming of metal; powder metallurgy
28.40	Forging, pressing, stamping and roll forming of metal; powder metallurgy
28.5	Treatment and coating of metals; general mechanical engineering
28.51	Treatment and coating of metals
28.52	General mechanical engineering
28.6	Manufacture of cutlery, tools and general hardware
28.61	Manufacture of cutlery
28.62	Manufacture of tools
28.63	Manufacture of locks and hinges
28.7	Manufacture of other fabricated metal products
28.71	Manufacture of steel drums and similar containers
28.72	Manufacture of light metal packaging
28.73	Manufacture of wire products
28.74	Manufacture of fasteners, screw machine products, chain and springs
28.75	Manufacture of other fabricated metal products n.e.c.
DK	Manufacture of machinery and equipment n.e.c.
29	Manufacture of machinery and equipment n.e.c.
29.1	Manufacture of machinery for the production and use of mechanical power, except aircraft, vehicle and cycle engines
29.11	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines
29.12	Manufacture of pumps and compressors
29.13	Manufacture of taps and valves
29.14	Manufacture of bearings, gears, gearing and driving elements
29.2	Manufacture of other general purpose machinery
29.21	Manufacture of furnaces and furnace burners
29.22	Manufacture of lifting and handling equipment
29.23	Manufacture of non-domestic cooling and ventilation equipment
29.24	Manufacture of other general purpose machinery n.e.c.
29.3	Manufacture of agricultural and forestry machinery

29.32	Manufacture of other agricultural and forestry machinery
29.4	Manufacture of machinetools
29.41	Manufacture of portable hand held power tools
29.42	Manufacture of other metalworking machine tools
29.43	Manufacture of other machine tools n.e.c.
29.5	Manufacture of other special purpose machinery
29.51	Manufacture of machinery for metallurgy
29.52	Manufacture of machinery for mining, quarrying and construction
29.53	Manufacture of machinery for food, beverage and tobacco processing
29.54	Manufacture of machinery for textile, apparel and leather production
29.55	Manufacture of machinery for paper and paperboard production
29.56	Manufacture of other special purpose machinery n.e.c.
29.6	Manufacture of weapons and ammunition
29.60	Manufacture of weapons and ammunition
29.7	Manufacture of domestic appliances n.e.c.
29.71	Manufacture of electric domestic appliances
29.72	Manufacture of non-electric domestic appliances
DL	Manufacture of electrical and optical equipment
30	Manufacture of office machinery and computers
30.0	Manufacture of office machinery and computers
30.01	Manufacture of office machinery
30.02	Manufacture of computers and other information processing equipment
31	Manufacture of electrical machinery and apparatus n.e.c.
31.1	Manufacture of electric motors, generators and transformers
31.10	Manufacture of electric motors, generators and transformers
31.2	Manufacture of electricity distribution and control apparatus
31.20	Manufacture of electricity distribution and control apparatus
31.3	Manufacture of insulated wire and cable
31.30	Manufacture of insulated wire and cable
31.4	Manufacture of accumulators, primary cells and primary batteries

31.40	Manufacture of accumulators, primary cells and primary batteries
31.5	Manufacture of lighting equipment and electric lamps
31.50	Manufacture of lighting equipment and electric lamps
31.6	Manufacture of electrical equipment n.e.c.
31.61	Manufacture of electrical equipment for engines and vehicles n.e.c.
31.62	Manufacture of other electrical equipment n.e.c.
32	Manufacture of radio, television and communication equipment and apparatus
32.1	Manufacture of electronic valves and tubes and other electronic components
32.10	Manufacture of electronic valves and tubes and other electronic components
32.2	Manufacture of television and radio transmitters and apparatus for line telephony and line telegraphy
32.20	Manufacture of television and radio transmitters and apparatus for line telephony and line telegraphy
32.3	Manufacture of television and radio receivers, sound or video recording or reproducing apparatus and associated goods
32.30	Manufacture of television and radio receivers, sound or video recording or reproducing apparatus and associated goods
33	Manufacture of medical, precision and optical instruments, watches and clocks
33.1	Manufacture of medical and surgical equipment and orthopaedic appliances
33.10	Manufacture of medical and surgical equipment and orthopaedic appliances
33.2	Manufacture of instruments and appliances for measuring, checking, testing, navigating and other purposes, except industrial process control equipment
33.20	Manufacture of instruments and appliances for measuring, checking, testing, navigating and other purposes, except industrial process control equipment
33.3	Manufacture of industrial process control equipment
33.30	Manufacture of industrial process control equipment
33.4	Manufacture of optical instruments and photographic equipment
33.40	Manufacture of optical instruments and photographic equipment
33.5	Manufacture of watches and clocks
33.50	Manufacture of watches and clocks
DM	Manufacture of transport equipment
34	Manufacture of motor vehicles, trailers and semi-trailers

34.1	Manufacture of motor vehicles
34.10	Manufacture of motor vehicles
34.2	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
34.20	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
34.3	Manufacture of parts and accessories for motor vehicles and their engines
34.30	Manufacture of parts and accessories for motor vehicles and their engines
35	Manufacture of other transport equipment
35.1	Building and repairing of ships and boats
35.11	Building and repairing of ships
35.12	Building and repairing of pleasure and sporting boats
35.2	Manufacture of railway and tramway locomotives and rolling stock
35.20	Manufacture of railway and tramway locomotives and rolling stock
35.3	Manufacture of aircraft and spacecraft
35.30	Manufacture of aircraft and spacecraft
35.4	Manufacture of motorcycles and bicycles
35.41	Manufacture of motorcycles
35.42	Manufacture of bicycles
35.43	Manufacture of invalid carriages
35.5	Manufacture of other transport equipment n.e.c.
35.50	Manufacture of other transport equipment n.e.c.
DN	Manufacturing n.e.c.
36	Manufacture of furniture; manufacturing n.e.c.
36.1	Manufacture of furniture
36.11	Manufacture of chairs and seats
36.12	Manufacture of other office and shop furniture
36.13	Manufacture of other kitchen furniture
36.14	Manufacture of other furniture
36.15	Manufacture of mattresses
36.2	Manufacture of jewellery and related articles

36.21	Striking of coins
36.22	Manufacture of jewellery and related articles n.e.c.
36.3	Manufacture of musical instruments
36.30	Manufacture of musical instruments
36.4	Manufacture of sports goods
36.40	Manufacture of sports goods
36.5	Manufacture of games and toys
36.50	Manufacture of games and toys
36.6	Miscellaneous manufacturing n.e.c.
36.61	Manufacture of imitation jewellery
36.62	Manufacture of brooms and brushes
36.63	Other manufacturing n.e.c.
37	Recycling
37.1	Recycling of metal waste and scrap
37.10	Recycling of metal waste and scrap
37.2	Recycling of non-metal waste and scrap
37.20	Recycling of non-metal waste and scrap
E	Electricity, gas and water supply
40	Electricity, gas, steam and hot water supply
40.1	Production and distribution of electricity
40.11	Production of electricity
40.12	Transmission of electricity
40.13	Distribution and trade of electricity
40.2	Manufacture of gas; distribution of gaseous fuels through mains
40.21	Manufacture of gas
40.22	Distribution and trade of gaseous fuels through mains
40.3	Steam and hot water supply
40.30	Steam and hot water supply
41	Collection, purification and distribution of water
41.0	Collection, purification and distribution of water

41.00	Collection, purification and distribution of water
F	Construction
45	Construction
45.1	Site preparation
45.11	Demolition and wrecking of buildings; earth moving
45.12	Test drilling and boring
45.2	Building of complete constructions or parts thereof; civil engineering
45.21	General construction of buildings and civil engineering works
45.22	Erection of roof covering and frames
45.23	Construction of motorways, roads, airfields and sport facilities
45.24	Construction of water projects
45.25	Other construction work involving special trades
45.3	Building installation
45.31	Installation of electrical wiring and fittings
45.32	Insulation work activities
45.33	Plumbing
45.34	Other building installation
45.4	Building completion
45.41	Plastering
45.42	Joinery installation
45.43	Floor and wall covering
45.44	Painting and glazing
45.45	Other building completion
45.5	Renting of construction or demolition equipment with operator
45.50	Renting of construction or demolition equipment with operator
G	Wholesale and retail trade; repair of motor vehicles, motorcycles and personal and household goods
50	Sale, maintenance and repair of motor vehicles and motorcycles; retail sale of automotive fuel
50.1	Sale of motor vehicles

50.10	Sale of motor vehicles
50.2	Maintenance and repair of motor vehicles
50.20	Maintenance and repair of motor vehicles
50.3	Sale of motor vehicle parts and accessories
50.30	Sale of motor vehicle parts and accessories
50.4	Sale, maintenance and repair of motorcycles and related parts and accessories
50.40	Sale, maintenance and repair of motorcycles and related parts and accessories
50.5	Retail sale of automotive fuel
50.50	Retail sale of automotive fuel
51	Wholesale trade and commission trade, except of motor vehicles and motorcycles
51.1	Wholesale on a fee or contract basis
51.11	Agents involved in the sale of agricultural raw materials, live animals, textile raw materials and semi-finished goods
51.12	Agents involved in the sale of fuels, ores, metals and industrial chemicals
51.13	Agents involved in the sale of timber and building materials
51.14	Agents involved in the sale of machinery, industrial equipment, ships and aircraft
51.15	Agents involved in the sale of furniture, household goods, hardware and ironmongery
51.16	Agents involved in the sale of textiles, clothing, footwear and leather goods
51.17	Agents involved in the sale of food, beverages and tobacco
51.18	Agents specializing in the sale of particular products or ranges of products n.e.c.
51.19	Agents involved in the sale of a variety of goods
51.2	Wholesale of agricultural raw materials and live animals
	These groups include only wholesale on own account
51.21	Wholesale of grain, seeds and animal feeds
51.22	Wholesale of flowers and plants
51.23	Wholesale of live animals
51.24	Wholesale of hides, skins and leather
51.25	Wholesale of unmanufactured tobacco
51.3	Wholesale of food, beverages and tobacco
51.31	Wholesale of fruit and vegetables

51.32	Wholesale of meat and meat products
51.33	Wholesale of dairy produce, eggs and edible oils and fats
51.34	Wholesale of alcoholic and other beverages
51.35	Wholesale of tobacco products
51.36	Wholesale of sugar and chocolate and sugar confectionery
51.37	Wholesale of coffee, tea, cocoa and spices
51.38	Wholesale of other food, including fish, crustaceans and molluscs
51.39	Non-specialized wholesale of food, beverages and tobacco
51.4	Wholesale of household goods
51.41	Wholesale of textiles
51.42	Wholesale of clothing and footwear
51.43	Wholesale of electrical household appliances and radio and television goods
51.44	Wholesale of china and glassware, wallpaper and cleaning materials
51.45	Wholesale of perfume and cosmetics
51.46	Wholesale of pharmaceutical goods
51.47	Wholesale of other household goods
51.5	Wholesale of non-agricultural intermediate products, waste and scrap
51.51	Wholesale of solid, liquid and gaseous fuels and related products
51.52	Wholesale of metals and metal ores
51.53	Wholesale of wood, construction materials and sanitary equipment
51.54	Wholesale of hardware, plumbing and heating equipment and supplies
51.55	Wholesale of chemical products
51.56	Wholesale of other intermediate products
51.57	Wholesale of waste and scrap
51.8	Wholesale of machinery, equipment and supplies
51.81	Wholesale of machine-tools
51.82	Wholesale of mining, construction and civil engineering machinery
51.83	Wholesale of machinery for the textile industry and of sewing and knitting machines
51.84	Wholesale of computers, computer peripheral equipment and software
51.85	Wholesale of other office machinery and equipment

51.86	Wholesale of other electronic parts and equipment
51.87	Wholesale of other machinery for use in industry, trade and navigation
51.88	Wholesale of agricultural machinery and accessories and implements, including tractors
51.9	Other wholesale
51.90	Other wholesale
52	Retail trade, except of motor vehicles and motorcycles; repair of personal and household goods
52.1	Retail sale in non-specialised stores
52.11	Retail sale in non-specialised stores with food, beverages or tobacco predominating
52.12	Other retail sale in non-specialised stores
52.2	Retail sale of food, beverages and tobacco in specialised stores
52.21	Retail sale of fruit and vegetables
52.22	Retail sale of meat and meat products
52.23	Retail sale of fish, crustaceans and molluscs
52.24	Retail sale of bread, cakes, flour confectionery and sugar confectionery
52.25	Retail sale of alcoholic and other beverages
52.26	Retail sale of tobacco products
52.27	Other retail sale of food, beverages and tobacco in specialised stores
52.3	Retail sale of pharmaceutical and medical goods, cosmetic and toilet articles
52.31	Dispensing chemists
52.32	Retail sale of medical and orthopaedic goods
52.33	Retail sale of cosmetic and toilet articles
52.4	Other retail sale of new goods in specialised stores
52.41	Retail sale of textiles
52.42	Retail sale of clothing
52.43	Retail sale of footwear and leather goods
52.44	Retail sale of furniture, lighting equipment and household articles n.e.c.
52.45	Retail sale of electrical household appliances and radio and television goods
52.46	Retail sale of hardware, paints and glass
52.47	Retail sale of books, newspapers and stationery

52.48	Other retail sale in specialised stores
52.5	Retail sale of second-hand goods in stores
52.50	Retail sale of second-hand goods in stores
52.6	Retail sale not in stores
52.61	Retail sale via mail order houses
52.62	Retail sale via stalls and markets
52.63	Other non-store retail sale
52.7	Repair of personal and household goods
52.71	Repair of boots, shoes and other articles of leather
52.72	Repair of electrical household goods
52.73	Repair of watches, clocks and jewellery
52.74	Repair n.e.c.
Н	Hotels and restaurants
55	Hotels and restaurants
55.1	Hotels
55.10	Hotels
55.2	Camping sites and other provision of short-stay accommodation
55.21	Youth hostels and mountain refuges
55.22	Camping sites, including caravan sites
55.23	Other provision of lodgings n.e.c.
55.3	Restaurants
55.30	Restaurants
55.4	Bars
55.40	Bars
55.5	Canteens and catering
55.51	Canteens
55.52	Catering
1	Transport, storage and communication
60	Land transport; transport via pipelines
60.1	Transport via railways

60.10	Transport via railways
60.2	Other land transport
60.21	Other scheduled passenger land transport
60.22	Taxi operation
60.23	Other land passenger transport
60.24	Freight transport by road
60.3	Transport via pipelines
60.30	Transport via pipelines
61	Water transport
61.1	Sea and coastal water transport
61.10	Sea and coastal water transport
61.2	Inland water transport
61.20	Inland water transport
62	Air transport
62.1	Scheduled air transport
62.10	Scheduled air transport
62.2	Non-scheduled air transport
62.20	Non-scheduled air transport
62.3	Space transport
62.30	Space transport
63	Supporting and auxiliary transport activities; activities of travel agencies
63.1	Cargo handling and storage
63.11	Cargo handling
63.12	Storage and warehousing
63.2	Other supporting transport activities
63.21	Other supporting land transport activities
63.22	Other supporting water transport activities
63.23	Other supporting air transport activities
63.3	Activities of travel agencies and tour operators; tourist assistance activities n.e.c.
63.30	Activities of travel agencies and tour operators; tourist assistance activities n.e.c.

63.4	Activities of other transport agencies					
63.40	Activities of other transport agencies					
64	Post and telecommunications					
64.1	Post and courier activities					
64.11	National post activities					
64.12	Courier activities other than national post activities					
64.2	Telecommunications					
64.20	Telecommunications					
J	Financial intermediation					
65	Financial intermediation, except insurance and pension funding					
65.1	Monetary intermediation					
65.11	Central banking					
65.12	Other monetary intermediation					
65.2	Other financial intermediation					
65.21	Financial leasing					
65.22	Other credit granting					
65.23	Other financial intermediation n.e.c.					
66	Insurance and pension funding, except compulsory social security					
66.0	Insurance and pension funding, except compulsory social security					
66.01	Life insurance					
66.02	Pension funding					
66.03	Non-life insurance					
67	Activities auxiliary to financial intermediation					
67.1	Activities auxiliary to financial intermediation, except insurance and pension funding					
67.11	Administration of financial markets					
67.12	Security broking and fund management					
67.13	Activities auxiliary to financial intermediation n.e.c.					
67.2	Activities auxiliary to insurance and pension funding					
67.20	Activities auxiliary to insurance and pension funding					
K	Real estate, renting and business activities					

70	Real estate activities
70.1	Real estate activities with own property
70.11	Development and selling of real estate
70.12	Buying and selling of own real estate
70.2	Letting of own property
70.20	Letting of own property
70.3	Real estate activities on a fee or contract basis
70.31	Real estate agencies
70.32	Management of real estate on a fee or contract basis
71	Renting of machinery and equipment without operator and of personal and household goods
71.1	Renting of automobiles
71.10	Renting of automobiles
71.2	Renting of other transport equipment
71.21	Renting of other land transport equipment
71.22	Renting of water transport equipment
71.23	Renting of air transport equipment
71.3	Renting of other machinery and equipment
71.31	Renting of agricultural machinery and equipment
71.32	Renting of construction and civil engineering machinery and equipment
71.33	Renting of office machinery and equipment, including computers
71.34	Renting of other machinery and equipment n.e.c.
71.4	Renting of personal and household goods n.e.c.
71.40	Renting of personal and household goods n.e.c.
72	Computer and related activities
72.1	Hardware consultancy
72.10	Hardware consultancy
72.2	Software consultancy and supply
72.21	Publishing of software
72.22	Other software consultancy and supply
72.3	Data processing

72.30	Data processing
72.4	Database activities
72.40	Database activities
72.5	Maintenance and repair of office, accounting and computing machinery
72.50	Maintenance and repair of office, accounting and computing machinery
72.6	Other computer related activities
72.60	Other computer related activities
73	Research and development
73.1	Research and experimental development on natural sciences and engineering
73.10	Research and experimental development on natural sciences and engineering
73.2	Research and experimental development on social sciences and humanities
73.20	Research and experimental development on social sciences and humanities
74	Other business activities
74.1	Legal, accounting, book-keeping and auditing activities; tax consultancy; market research and public opinion polling; business and management consultancy; holdings
74.11	Legal activities
74.12	Accounting, book-keeping and auditing activities; tax consultancy
74.13	Market research and public opinion polling
74.14	Business and management consultancy activities
74.15	Management activities of holding companies
74.2	Architectural and engineering activities and related technical consultancy
74.20	Architectural and engineering activities and related technical consultancy
74.3	Technical testing and analysis
74.30	Technical testing and analysis
74.4	Advertising
74.40	Advertising
74.5	Labour recruitment and provision of personnel
74.50	Labour recruitment and provision of personnel
74.6	Investigation and security activities
74.60	Investigation and security activities

74.81 Photographic active 74.82 Packaging activitie 74.85 Secretarial and tra 74.86 Call centre activitie 74.87 Other business act L Public administrati 75 Public administrati 75.1 Administration of the	iness activities n.e.c. rities es enslation activities					
74.81 Photographic active 74.82 Packaging activitie 74.85 Secretarial and tra 74.86 Call centre activitie 74.87 Other business act L Public administrati 75 Public administrati 75.1 Administration of the	rities es enslation activities					
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74.87 Other business act L Public administrati 75 Public administrati 75.1 Administration of t						
L Public administration 75 Public administration 75.1 Administration of to	es					
75 Public administrati75.1 Administration of t	tivities n.e.c.					
75.1 Administration of t	ation and defence; compulsory social security					
	on and defence; compulsory social security					
75.11 General (overall) p	the State and the economic and social policy of the community					
	public service activities					
/5.12	activities of agencies that provide health care, education, cultural services ervices, excluding social security					
75.13 Regulation of and	contribution to more efficient operation of business					
75.14 Supporting service	e activities for the government as a whole					
75.2 Provision of service	Provision of services to the community as a whole					
75.21 Foreign affairs	Foreign affairs					
75.22 Defence activities						
75.23 Justice and judicia	l activities					
75.24 Public security, lav	v and order activities					
75.25 Fire service activiti	ies					
75.3 Compulsory social	security activities					
75.30 Compulsory social	security activities					
M Education						
80 Education						
80.1 Primary education						
80.10 Primary education						
80.2 Secondary educati						
80.21 General secondary						

80.22	Technical and vocational secondary education					
80.3	Higher education					
80.30	Higher education					
80.4	Adult and other education					
80.41	Driving school activities					
80.42	Adult and other education n.e.c.					
N	Health and social work					
85	Health and social work					
85.1	Human health activities					
85.11	Hospital activities					
85.12	Medical practice activities					
85.13	Dental practice activities					
85.14	Other human health activities					
85.2	Veterinary activities					
85.20	Veterinary activities					
85.3	Social work activities					
85.31	Social work activities with accommodation					
85.32	Social work activities without accommodation					
0	Other community, social and personal service activities					
90	Sewage and refuse disposal, sanitation and similar activities					
90.0	Sewage and refuse disposal, sanitation and similar activities					
90.01	Collection and treatment of sewage					
90.02	Collection and treatment of other waste					
90.03	Sanitation, remediation and similar activities					
91	Activities of membership organisations n.e.c.					
91.1	Activities of business, employers and professional organisations					
91.11	Activities of business and employers organisations					
91.12	Activities of professional organisations					
91.2	Activities of trade unions					
91.20	Activities of trade unions					

91.3	Activities of other membership organisations					
91.31	Activities of religious organisations					
91.32	Activities of political organisations					
91.33	Activities of other membership organisations n.e.c.					
92	Recreational, cultural and sporting activities					
92.1	Motion picture and video activities					
92.11	Motion picture and video production					
92.12	Motion picture and video distribution					
92.13	Motion picture projection					
92.2	Radio and television activities					
92.20	Radio and television activities					
92.3	Other entertainment activities					
92.31	Artistic and literary creation and interpretation					
92.32	Operation of arts facilities					
92.33	Fair and amusement park activities					
92.34	Other entertainment activities n.e.c.					
92.4	News agency activities					
92.40	News agency activities					
92.5	Library, archives, museums and other cultural activities					
92.51	Library and archives activities					
92.52	Museums activities and preservation of historical sites and buildings					
92.53	Botanical and zoological gardens and nature reserves activities					
92.6	Sporting activities					
92.61	Operation of sports arenas and stadiums					
92.62	Other sporting activities					
92.7	Other recreational activities					
92.71	Gambling and betting activities					
92.72	Other recreational activities n.e.c.					
93	Other service activities					
93.0	Other service activities					

93.01	Washing and dry-cleaning of textile and fur products					
93.02	Hairdressing and other beauty treatment					
93.03	Funeral and related activities					
93.04	Physical well-being activities					
93.05	Other service activities n.e.c.					
P	Activities of households					
Activities of households as employers of domestic staff						
95.0	Activities of households as employers of domestic staff					
95.00	Activities of households as employers of domestic staff					
96	Undifferentiated goods producing activities of private households for own use					
96.0	Undifferentiated goods producing activities of private households for own use					
96.00	Undifferentiated goods producing activities of private households for own use					
97	Undifferentiated services producing activities of private households for own use					
97.0	Undifferentiated services producing activities of private households for own use					
97.00	Undifferentiated services producing activities of private households for own use					
Q	Extra-territorial organisations and bodies					
99	Extra-territorial organisations and bodies					
99.0	Extra-territorial organisations and bodies					
99.00	Extra-territorial organisations and bodies					

3. Economic Facts and Figures by Enterprise Sector

Food, Drink and Tobacco Sector NACE:15-16 (Monetary data in €'000)						
All Firms	1999	2001	2003	2005	2007	
Number of Firms	806	810	781	637	696	
Total Employment	47,513	50,079	49,030	43,239	42,875	
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600	
Total Employment/Total National Employment	3.0%	2.9%	2.7%	2.2%	2.0%	
Gross output	14,233,611	16,773,329	17,803,268	18,046,566	19,855,174	
Number of exporting local units	411	481	473	374	-	
Gross output exported	7,313,663	9,433,514	10,514,733	11,420,786	-	
Total Manufacturing Gross outputs exported	57,831,189	77,041,155	78,095,515	85,097,544	-	
Gross outputs exported/Total Manufacturing Gross outputs exported	12.6%	12.2%	13.5%	13.4%	u.	
Gross outputs exported/Gross output	51.4%	56.2%	59.1%	63.3%	-	
Net output	6,592,657	8,091,952	9,393,901	10,057,551	10,763,132	
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000	
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000	
Net Output/Total Net Output (Manufacturing Sector)	15.5%	15.0%	16.1%	15.7%	15.5%	
Net output/GDP	7.3%	6.9%	6.7%	6.2%	5.6%	
Net output per employee	138,755	161,584	191,595	232,604	251,035	

Irish-owned	1999	2001	2003	2005	2007
Number of Firms	730	729	711	592	653
Total Employment	34,933	37,358	38,131	33,446	34,201
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	2.2%	2.2%	2.1%	1.7%	1.6%
Gross output	8,325,510	9,120,792	9,368,468	8,559,579	10,149,973
Number of exporting local units	360	428	420	-	-
Gross output exported	2,935,160	3,735,173	3,800,391	-	-
Total Irish-owned Manufacturing Gross outputs exported	5,616,669	7,232,261	6,868,459	6,195,136	-
Gross outputs exported/Total Irish-owned Manufacturing Gross outputs exported	52.3%	51.6%	55.3%	-	-
Gross outputs exported/Gross output	35.3%	41.0%	40.6%	-	-
Net output	2,178,614	2,287,865	2,370,959	2,116,205	2,795,609
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	5.1%	4.3%	4.1%	3.3%	4.0%
Net output/GDP	2.4%	2.0%	1.7%	1.3%	1.5%
Net output per employee	62,366	61,242	62,179	63,272	81,741

Foreign-owned	1999	2001	2003	2005	2007
Number of Firms	76	81	70	45	43
Total Employment	12,580	12,721	10,899	9,793	8,674
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.8%	0.7%	0.6%	0.5%	0.4%
Gross output	5,908,101	7,652,537	8,434,800	9,486,987	9,705,200
Number of exporting local units	51	53	53	-	-
Gross output exported	4,378,504	5,698,341	6,714,342	-	-
Total Foreign-owned Manufacturing Gross outputs exported	52,214,520	69,808,894	71,227,056	78,902,408	
Gross outputs exported/Total Foreignowned Manufacturing Gross outputs exported	8.4%	8.2%	9.4%	-	-
Gross outputs exported/Gross output	74.1%	74.5%	79.6%	-	-
Net output	4,414,043	5,804,087	7,022,942	7,941,346	7,967,523
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	10.4%	10.8%	12.0%	12.4%	11.5%
Net output/GDP	4.9%	5.0%	5.0%	4.9%	4.2%
Net output per employee	350,878	456,260	644,366	810,921	918,552

Wood, Paper & Publishing Sector NACE:20-22 (Monetary data in €'000)

All Firms	1999	2001	2003	2005	2007
Number of Firms	839	936	1014	882	1087
Total Employment	29,785	30,230	27,890	25,779	26,248
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	1.9%	1.8%	1.6%	1.3%	1.2%
Gross output	9,092,688	10,820,559	12,131,022	14,722,465	18,302,148
Number of exporting local units	389	404	401	326	-
Gross output exported	6,685,725	8,538,641	9,755,418	12,064,997	-
Total Manufacturing Gross outputs exported	57,831,189	77,041,155	78,095,515	85,097,544	-
Gross outputs exported/Total Manufacturing Gross outputs exported	11.6%	11.1%	12.5%	14.2%	-
Gross outputs exported/Gross output	73.5%	78.9%	80.4%	81.9%	-
Net output	7,275,983	8,813,000	9,709,855	12,636,595	15,937,508
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	17.1%	16.4%	16.6%	19.7%	23.0%
Net output/GDP	8.0%	7.5%	7.0%	7.8%	8.4%
Net output per employee	244,283	291,532	348,148	490,189	607,189

Irish-owned	1999	2001	2003	2005	2007
Number of Firms	786	872	946	815	1,024
Total Employment	21,133	21,970	20,618	18,787	19,707
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	1.3%	1.3%	1.2%	1.0%	0.9%
Gross output	2,277,344	2,342,857	2,285,604	2,430,577	3,361,094
Number of exporting local units	339	345	344	-	-
Gross output exported	283,089	435,878	404,334	-	-
Total Irish-owned Manufacturing Gross outputs exported	5,616,669	7,232,261	6,868,459	6,195,136	-
Gross outputs exported/Total Irish-owned Manufacturing Gross outputs exported	5.0%	6.0%	5.9%		
Gross outputs exported/Gross output	12.4%	18.6%	17.7%	-	-
Net output	1,341,557	1,291,810	1,249,750	1,368,993	2,021,760
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	3.1%	2.4%	2.1%	2.1%	2.9%
Net output/GDP	1.5%	1.1%	0.9%	0.8%	1.1%
Net output per employee	63,482	58,799	60,615	72,869	102,591

Foreign-owned	1999	2001	2003	2005	2007
Number of Firms	53	64	68	67	63
Total Employment	8,652	8,260	7,272	6,992	6,541
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.5%	0.5%	0.4%	0.4%	0.3%
Gross output	6,815,345	8,477,702	9,845,418	12,291,888	14,941,054
Number of exporting local units	50	59	57	-	-
Gross output exported	6,402,635	8,102,763	9,351,084	-	-
Total Foreign-owned Manufacturing Gross outputs exported	52,214,520	69,808,894	71,227,056	78,902,408	-
Gross outputs exported/Total Foreignowned Manufacturing Gross outputs exported	12.3%	11.6%	13.1%	-	-
Gross outputs exported/Gross output	93.9%	95.6%	95.0%	-	-
Net output	5,934,426	7,521,190	8,460,105	11,267,602	13,915,748
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	13.9%	14.0%	14.5%	17.5%	20.1%
Net output/GDP	6.6%	6.4%	6.1%	6.9%	7.3%
Net output per employee	685,902	910,556	1,163,381	1,611,499	2,127,465

Chemicals and chemical products Sector NACE: 24 (Monetary data in €'000)

All Firms	1999	2001	2003	2005	2007
Number of Firms	242	242	235	213	225
Total Employment	22,969	24,589	23,669	24,513	24,027
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	1.4%	1.4%	1.3%	1.3%	1.1%
Gross output	18,578,875	25,543,093	28,534,235	28,942,883	32,750,674
Number of exporting local units	176	194	189	171	-
Gross output exported	17,842,089	24,642,824	27,723,573	28,207,319	-
Total Manufacturing Gross outputs exported	57,831,189	77,041,155	78,095,515	85,097,544	-
Gross outputs exported/Total Manufacturing Gross outputs exported	30.9%	32.0%	35.5%	33.1%	-
Gross outputs exported/Gross output	96.0%	96.5%	97.2%	97.5%	-
Net output	15,057,014	20,108,933	23,879,143	23,913,912	25,052,299
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	35.3%	37.4%	40.9%	37.2%	36.1%
Net output/GDP	16.6%	17.2%	17.1%	14.7%	13.1%
Net output per employee	655,536	817,802	1,008,878	975,560	1,042,673

Irish-owned	1999	2001	2003	2005	2007
Number of Firms	124	123	124	108	132
Total Employment	4,507	4,965	4,113	4,351	4,817
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.3%	0.3%	0.2%	0.2%	0.2%
Gross output	795,483	955,662	778,344	835,861	1,193,183
Number of exporting local units	75	85	84	-	-
Gross output exported	344,132	413,912	321,046	-	-
Total Irish-owned Manufacturing Gross outputs exported	5,616,669	7,232,261	6,868,459	6,195,136	-
Gross outputs exported/Total Irishowned Manufacturing Gross outputs exported	6.1%	5.7%	4.7%	-	-
Gross outputs exported/Gross output	43.3%	43.3%	41.2%	-	-
Net output	403,864	414,542	319,122	299,979	544,224
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	0.9%	0.8%	0.5%	0.5%	0.8%
Net output/GDP	0.4%	0.4%	0.2%	0.2%	0.3%
Net output per employee	89,608	83,493	77,589	68,945	112,980

Foreign-owned	1999	2001	2003	2005	2007
Number of Firms	118	119	111	105	93
Total Employment	18,462	19,624	19,556	20,162	19,210
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	1.2%	1.1%	1.1%	1.0%	0.9%
Gross output	17,783,392	24,587,431	27,755,891	28,107,022	31,557,491
Number of exporting local units	101	109	105	-	-
Gross output exported	17,497,957	24,228,912	27,402,527	-	-
Total Foreign-owned Manufacturing Gross outputs exported	52,214,520	69,808,894	71,227,056	78,902,408	
Gross outputs exported/Total Foreignowned Manufacturing Gross outputs exported	33.5%	34.7%	38.5%	-	-
Gross outputs exported/Gross output	98.4%	98.5%	98.7%	-	-
Net output	14,653,149	19,694,391	23,560,021	23,613,933	24,508,076
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	34.4%	36.6%	40.3%	36.7%	35.3%
Net output/GDP	16.2%	16.8%	16.9%	14.6%	12.9%
Net output per employee	793,692	1,003,587	1,204,746	1,171,210	1,275,798

Materials and Basic Metals Sector NACE:25-28 (Monetary data in €'000)

All Firms	1999	2001	2003	2005	2007
Number of Firms	1,173	1,247	1,352	1,277	1,619
Total Employment	36,660	35,572	33,662	35,954	38,955
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	2.3%	2.1%	1.9%	1.9%	1.9%
Gross output	4,186,861	4,477,525	4,460,789	5,433,398	6,910,390
Number of exporting local units	533	574	588	478	-
Gross output exported	1,684,447	1,855,947	1,509,655	863,546	-
Total Manufacturing Gross outputs exported	57,831,189	77,041,155	78,095,515	85,097,544	-
Gross outputs exported/Total Manufacturing Gross outputs exported	2.9%	2.4%	1.9%	1.0%	-
Gross outputs exported/Gross output	40.2%	41.5%	33.8%	15.9%	-
Net output	2,013,726	2,194,240	2,169,456	2,519,061	3,017,455
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	4.7%	4.1%	3.7%	3.9%	4.3%
Net output/GDP	2.2%	1.9%	1.6%	1.6%	1.6%
Net output per employee	54,930	61,684	64,448	70,063	77,460

Irish-owned	1999	2001	2003	2005	2007
Number of Firms	1,059	1,119	1,214	1,153	1,508
Total Employment	27,039	26,502	25,263	27,987	31,922
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	1.7%	1.5%	1.4%	1.4%	1.5%
Gross output	2,773,721	2,865,504	3,004,742	3,853,056	5,242,360
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	-	-
Total Irish-owned Manufacturing Gross outputs exported	5,616,669.00	7,232,261	6,868,459	6,195,136	-
Gross outputs exported/Total Irish-owned Manufacturing Gross outputs exported	-	-	-	-	-
Gross outputs exported/Gross output	-	-	-	-	-
Net output	1,380,381	1,485,958	1,506,068	1,839,658	2,340,171
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	3.2%	2.8%	2.6%	2.9%	3.4%
Net output/GDP	1.5%	1.3%	1.1%	1.1%	1.2%
Net output per employee	51,051	56,070	59,616	65,733	73,309

Foreign-owned	1999	2001	2003	2005	2007
Number of Firms	114	128	138	124	111
Total Employment	9,621	9,070	8,399	7,967	7,033
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.6%	0.5%	0.5%	0.4%	0.3%
Gross output	1,413,140	1,612,021	1,456,047	1,580,342	1,668,028
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	-	-
Total Foreign-owned Manufacturing Gross outputs exported	52,214,520	69,808,894	71,227,056	78,902,408	-
Gross outputs exported/Total Foreignowned Manufacturing Gross outputs exported	-	-	-	-	-
Gross outputs exported/Gross output	-	-	-	-	-
Net output	633,345	708,282	663,388	679,403	677,283
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	1.5%	1.3%	1.1%	1.1%	1.0%
Net output/GDP	0.7%	0.6%	0.5%	0.4%	0.4%
Net output per employee	65,829	78,091	78,984	85,277	96,301

Machinery and equipment n.e.c. Sector NACE: 29 (Monetary data in €'000)

(Monetary data in € 000)								
1999	2001	2003	2005	2007				
371	367	325	279	362				
14,494	14,074	11,699	10,938	12,383				
1,589,100	1,721,900	1,790,100	1,931,600	2,101,600				
0.9%	0.8%	0.7%	0.6%	0.6%				
1,557,376	1,738,883	1,608,319	1,784,222	2,412,206				
225	222	193	174	-				
1,122,253	1,279,230	1,190,824	1,384,549	4				
57,831,189	77,041,155	78,095,515	85,097,544	-				
1.9%	1.7%	1.5%	1.6%	-				
72.1%	73.6%	74.0%	77.6%	-				
777,232	774,127	753,361	871,073	1,184,849				
42,627,000	53,787,000	58,453,000	64,264,000	69,388,000				
90,501,000	116,990,000	139,442,000	162,168,000	190,603,000				
1.8%	1.4%	1.3%	1.4%	1.7%				
0.9%	0.7%	0.5%	0.5%	0.6%				
53,624	55,004	64,395	79,637	95,684				
	1999 371 14,494 1,589,100 0.9% 1,557,376 225 1,122,253 57,831,189 1.9% 72.1% 777,232 42,627,000 90,501,000 1.8% 0.9%	1999 2001 371 367 14,494 14,074 1,589,100 1,721,900 0.9% 0.8% 1,557,376 1,738,883 225 222 1,122,253 1,279,230 57,831,189 77,041,155 72.1% 73.6% 777,232 774,127 42,627,000 53,787,000 90,501,000 116,990,000 1.8% 1.4% 0.9% 0.7%	1999 2001 2003 371 367 325 14,494 14,074 11,699 1,589,100 1,721,900 1,790,100 0.9% 0.8% 0.7% 1,557,376 1,738,883 1,608,319 225 222 193 1,122,253 1,279,230 1,190,824 57,831,189 77,041,155 78,095,515 1.9% 1.7% 1.5% 72.1% 73.6% 74.0% 777,232 774,127 753,361 42,627,000 53,787,000 58,453,000 90,501,000 116,990,000 139,442,000 1.8% 1.4% 1.3% 0.9% 0.7% 0.5%	1999 2001 2003 2005 371 367 325 279 14,494 14,074 11,699 10,938 1,589,100 1,721,900 1,790,100 1,931,600 0.9% 0.8% 0.7% 0.6% 1,557,376 1,738,883 1,608,319 1,784,222 225 222 193 174 1,122,253 1,279,230 1,190,824 1,384,549 57,831,189 77,041,155 78,095,515 85,097,544 1.9% 1.7% 1.5% 1.6% 72.1% 73.6% 74.0% 77.6% 777,232 774,127 753,361 871,073 42,627,000 53,787,000 58,453,000 64,264,000 90,501,000 116,990,000 139,442,000 162,168,000 1.8% 1.4% 1.3% 1.4% 0.9% 0.7% 0.5% 0.5%				

Irish-owned	1999	2001	2003	2005	2007
Number of Firms	314	306	271	227	315
Total Employment	7,878	7,499	6,549	5,635	6,787
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.5%	0.4%	0.4%	0.3%	0.3%
Gross output	697,321	723,756	651,476	660,196	992,822
Number of exporting local units	168	165	139	-	-
Gross output exported	310,007	325,608	287,939	-	-
Total Irish-owned Manufacturing Gross outputs exported	5,616,669	7,232,261	6,868,459	6,195,136	_
Gross outputs exported/Total Irishowned Manufacturing Gross outputs exported	5.5%	4.5%	4.2%	-	-
Gross outputs exported/Gross output	44.5%	45.0%	44.2%	-	-
Net output	309,768	347,828	321,335	291,400	463,753
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	0.7%	0.6%	0.5%	0.5%	0.7%
Net output/GDP	0.3%	0.3%	0.2%	0.2%	0.2%
Net output per employee	39,321	46,383	165,425	51,713	68,330

Foreign-owned	1999	2001	2003	2005	2007
Number of Firms	57	61	54	52	47
Total Employment	6,616	6,575	5,150	5,303	5,596
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.4%	0.4%	0.3%	0.3%	0.3%
Gross output	860,055	1,015,127	956,843	1,124,026	1,419,384
Number of exporting local units	57	57	54	-	-
Gross output exported	812,246	953,622	902,885	-	-
Total Foreign-owned Manufacturing Gross outputs exported	52,214,520	69,808,894	71,227,056	78,902,408	-
Gross outputs exported/Total Foreign-owned Manufacturing Gross outputs exported	1.6%	1.4%	1.3%	-	-
Gross outputs exported/Gross output	94.4%	93.9%	94.4%	-	-
Net output	467,464	426,299	432,026	579,673	721,097
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	1.1%	0.8%	0.7%	0.9%	1.0%
Net output/GDP	0.5%	0.4%	0.3%	0.4%	0.4%
Net output per employee	70,657	64,836	83,889	109,310	128,859

Computers, Electrical & Electronics Sector NACE:30-32 (Monetary data in €'000)

All Firms	1999	2001	2003	2005	2007
Number of Firms	326	331	305	221	265
Total Employment	47,844	45,197	33,376	29,212	27,850
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	3.0%	2.6%	1.9%	1.5%	1.3%
Gross output	21,154,009	26,964,855	21,455,254	23,621,728*	24,878,000*
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	-	-
Total Manufacturing Gross outputs exported	57,831,189	77,041,155	78,095,515	85,097,544	-
Gross outputs exported/Total Manufacturing Gross outputs exported	-	-	-	-	-
Gross outputs exported/Gross output	-	-	-	-	-
Net output	7,972,236	10,039,236	8,023,719	9,442,948	-
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	18.7%	18.7%	13.7%	14.7%	-
Net output/GDP	8.8%	8.6%	5.8%	5.8%	-
Net output per employee	166,630	222,122	240,404	323,256	-

^{*} Turnover figures are reported instead of Gross Output

Irish-owned	1999	2001	2003	2005	2007
Number of Firms	201	202	200	-	-
Total Employment	8,249	8,063	7,195	-	-
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.5%	0.5%	0.4%	_	-
Gross output	929,404	1,426,187	1,008,129	-	-
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	-	-
Total Irish-owned Manufacturing Gross outputs exported	5,616,669	7,232,261	6,868,459	6,195,136	-
Gross outputs exported/Total Irish-owned Manufacturing Gross outputs exported	-	-	-	-	-
Gross outputs exported/Gross output	-	-	-	-	-
Net output	340,701	509,602	372,715	-	-
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	0.8%	0.9%	0.6%	-	-
Net output/GDP	0.4%	0.4%	0.3%	-	-
Net output per employee	41,302	63,203	51,802	-	-

Foreign-owned	1999	2001	2003	2005	2007
Number of Firms	125	129	105	-	-
Total Employment	39,595	37,134	26,181	-	-
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	2.5%	2.2%	1.5%	-	-
Gross output	20,224,605	25,538,668	20,447,125	-	-
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	-	-
Total Foreign-owned Manufacturing Gross outputs exported	52,214,520	69,808,894	71,227,056	78,902,408	-
Gross outputs exported/Total Foreign-owned Manufacturing Gross outputs exported	-	-	-	F	-
Gross outputs exported/Gross output	-	-	-	-	-
Net output	7,631,535	9,529,634	7,651,004	-	-
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	17.9%	17.7%	13.1%	-	-
Net output/GDP	8.4%	8.1%	5.5%	-	-
Net output per employee	192,740	256,628	292,235	-	-

Manufacture of medical, precision and optical instruments, watches and clocks Sector NACE: 33

(Monetary data in €'000)

All Firms	1999	2001	2003	2005	2007
Number of Firms	141	139	131	130	167
Total Employment	16,618	19,792	19,627	24,306	25,874
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	1.0%	1.1%	1.1%	1.3%	1.2%
Gross output	2,410,537	4,659,102	5,113,299	5,749,185*	7,005,000*
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	-	-
Total Manufacturing Gross outputs exported	57,831,189	77,041,155	78,095,515	85,097,544	-
Gross outputs exported/Total Manufacturing Gross outputs exported	-	-	-	-	-
Gross outputs exported/Gross output	-	-	-	-	-
Net output	1,438,796	2,534,015	2,848,187	3,467,249	-
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	3.4%	4.7%	4.9%	5.4%	
Net output/GDP	1.6%	2.2%	2.0%	2.1%	-
Net output per employee	86,581	128,032	145,116	142,650	-

^{*} Turnover Figures

Irish-owned	1999	2001	2003	2005	2007
Number of Firms	75	71	64	-	-
Total Employment	2,504	2,562	2,212	-	-
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.2%	0.1%	0.1%	-	-
Gross output	233,851	269,793	287,287	-	-
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	-	-
Total Irish-owned Manufacturing Gross outputs exported	5,616,669	7,232,261	6,868,459	6,195,136	-
Gross outputs exported/Total Irishowned Manufacturing Gross outputs exported	-	-	-	-	-
Gross outputs exported/Gross output	-	-	-	-	-
Net output	133,389	152,923	183,587	-	-
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	0.3%	0.3%	0.3%	-	-
Net output/GDP	0.1%	0.1%	0.1%	-	-
Net output per employee	53,270	59,689	82,996	-	-

Foreign-owned	1999	2001	2003	2005	2007
Number of Firms	66	68	67	-	-
Total Employment	14,114	17,230	17,415	-	-
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.9%	1.0%	1.0%	-	-
Gross output	2,176,685	4,389,309	4,826,012	-	-
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	-	-
Total Foreign-owned Manufacturing Gross outputs exported	52,214,520	69,808,894	71,227,056	78,902,408	-
Gross outputs exported/Total Foreignowned Manufacturing Gross outputs exported			L	-	
Gross outputs exported/Gross output	-	-	-	-	-
Net output	1,305,408	2,381,092	2,664,600	-	-
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	3.1%	4.4%	4.6%	-	-
Net output/GDP	1.4%	2.0%	1.9%	-	-
Net output per employee	92,490	138,195	153,006	-	-

Software and Other Computer Services Sector NACE: 72
(Monetary data in €'000)

All Firms	1999	2001	2003	2005	2007
Number of Firms	1,627	3,184	3,434	4,242	4,924
Total Employment	18,612	22,259	24,030	29,938	36,917
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	1.2%	1.3%	1.3%	1.5%	1.8%
Gross output	2,976,965	6,137,853	6,210,522	10,604,785	17,146,771*
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	-	-
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
GVA/GDP	1.3%	2.0%	1.7%	1.9%	1.7%
GVA per employee	65,637	106,809	98,236	103,908	88,097

^{*}turnover figure

Information taken from CSO Annual Services Inquiry Data

Other Primary Sectors NACE:1-10 (Monetary data in €'000)

All Firms	1999	2001	2003	2005	2007
Number of Firms					
Total Employment	135,900	122,500	115,900	113,700	113,800
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	8.6%	7.1%	6.5%	5.9%	5.4%
Gross output	-	-	-	-	-
Number of exporting local units	-	-	-	-	
Gross output exported	-	-	-	-	-
Total Gross outputs exported	-	-	-		-
Gross outputs exported/Gross output	-	-	-		-
Gross Value Added	2,931,000	3,579,000	3,648,000	4,097,000	3,863,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Gross Value Added/GDP	3.2%	3.1%	2.6%	2.5%	2.0%
Gross Value Added per employee	21.56733	29.21633	31.47541	36.03342	33.94552

Other Manufacturing Sectors NACE:16-19,23,34-37 (Monetary data in €'000)

All Firms	1999	2001	2003	2005	2007
Number of Firms	896	984	1,051	855	1,114
Total Employment	33,088	30,876	28,349	23,862	24,529
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	2.1%	1.8%	1.6%	1.2%	1.2%
Gross output	3,439,003	3,436,800	3,698,067	4,414,769	3,045,408
Number of exporting local units		-		-	-
Gross output exported	-	-	-	-	-
Total Manufacturing Gross outputs exported	-	-		-	-
Gross outputs exported/Total Manufacturing Gross outputs exported					
Gross outputs exported/Gross output	-	-		-	
Net output	1,499,357	1,498,531	1,470,680	1,355,611	-
Total Net Output (Manufacturing Sector)	42,627,000	53,787,000	58,453,000	64,264,000	69,388,000
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
Net Output/Total Net Output (Manufacturing Sector)	3.52%	2.79%	2.52%	2.11%	3.52%
Net output/GDP	1.70%	1.30%	1.10%	0.80%	-
Net output per employee	45.31	48.53	51.88	56.81	-

Other Services NACE : 50-52, 60-64, 73-74 - Excludes Financial Intermediation (Monetary data in $\ensuremath{\epsilon}$ '000)

All Firms	1999	2001	2003	2005	2007
Number of Firms	32,005	43,665	54,647	54,554	61,583
Total Employment	351,408	410,011	486,214	505,480	596,268
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	22.1%	23.8%	27.2%	26.2%	28.4%
Turnover	61,774,315	83,472,287	105,228,012	138,095,183	160,678,971
Number of exporting local units	-	-	-	-	-
Gross output exported	-	-	-	_	-
Gross outputs exported/Gross output	-	-	-	-	-
Gross Value Added	14,547,455	17,625,927	25,335,401	33,446,676	34,281,111
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
GVA/GDP	16.1%	15.1%	18.2%	20.6%	18%
GVA per employee	41,398	42,989	52,108	66,168	57,493

Information taken from CSO Annual Services Inquiry Data

Financial intermediation NACE: 65-67 -additional subsector of 'other services' (Monetary Data in €'000) 1999 2001 2003 2005 2006 **Number of Firms** 87 80 79 **Total Employment** 61,000 68,400 72,600 83,700 83,900 **Total** 4.0% 4.1% 4.3% 4.2% Employment/Total 3.8% **National Employment Gross output Gross Value Added** 5,631,820 7,721,576 11,443,464 14,711,271 17,174,890

8.2%

9.1%

9.7%

Information taken from Quarterly National Household Survey and National Accounts

6.6%

6.2%

GVA/GDP

Electricity, Gas and Water Supply NACE: 40-41									
(Monetary data in €'000)									
	1999	2001	2003	2005	2007				
Number of Firms	90	97	101	159	201				
Total Employment	11,839	12,106	11,662	11,491	11,486				
Total Employment/Total National Employment	0.7%	0.7%	0.7%	0.6%	0.5%				
Gross output	2,556,000	3,200,000	3,742,000	5,425,000	6,063,000				
Net output	1,536,000	1,764,000	2,415,000	2,873,000	2,830,000				
Net output/GDP	1.7%	1.5%	1.7%	1.8%	1.5%				

Construction NACE: 45							
(Monetary data in €'000)							
	1999	2001	2003	2005	2007		

	1999	2001	2003	2005	2007
Number of Firms	-	546	682	1,184	1,344
Total Employment	-	46,371	56,556	89,117	92,715
Total Employment/Total National Employment		2.7%	3.2%	4.6%	4.4%
Gross output	-	-	-	-	-
Gross Value Added	-	2,745,956	4,093,745	7,272,999	7,952,671
GVA/GDP	-	2.3%	2.9%	4.5%	4.2%

Information taken from CSO Census of Industrial Production data: this data relates only to enterprise with 20 or more persons engaged.

The data used to generate the figure of 12.1% for the proportion of employment represented by construction in 2007 (as quoted in the main report 'Research Activity of Irish Based Enterprise') was from the Quarterly Household surveys, and represents all enterprise engaged in construction in this year.

Hotels and restaurants NACE: 55 (Monetary data in €'000)

	1999	2001	2003	2005	2007
Number of Firms	7,718	10,480	12,301	10,447	10,285
Total Employment	95,488	118,427	133,548	129,757	151,875
Total Employment/Total National Employment	6.0%	6.9%	7.5%	6.7%	7.2%
Gross output	-	-	-	-	-
Gross Value Added	1,633,930	2,297,124	2,692,112	2,962,651	3,662,761
GVA/GDP	1.8%	2.0%	1.9%	1.8%	1.9%

Information taken from CSO Annual Services Inquiry Data

Real estate and Renting NACE: 70-71 (Monetary data in €'000)

,					
All Firms	1999	2001	2003	2005	2007
Number of Firms	2,949	4,843	6,413	8,248	10,477
Total Employment	14,802	19,189	24,680	29,208	39,334
Total National Employment	1,589,100	1,721,900	1,790,100	1,931,600	2,101,600
Total Employment/Total National Employment	0.9%	1.1%	1.4%	1.5%	1.9%
Turnover	2,059,752	2,467,275	3,965,327	6,871,131	6,481,393
Number of exporting local units	-	_	-	_	-
Gross output exported	_	_	_	_	_
Total Manufacturing Gross outputs exported	57,831,189	77,041,155	78,095,515	85,097,544	-
Gross outputs exported/Total Manufacturing Gross outputs exported	_	-	_	_	_
Gross outputs exported/Gross output	-	_	-	-	_
Gross Value Added	1,516,782	1,291,417	2,127,648	2,598,921	3,031,453
Total GVA (Services Sector)	18,417,444	23,326,525	31,836,380	38,343,533	46,202,654
GDP	90,501,000	116,990,000	139,442,000	162,168,000	190,603,000
GVA/Total GVA (Services Sector)	8.2%	5.5%	6.7%	6.8%	6.6%
GVA/GDP	1.7%	1.1%	1.5%	1.6%	1.6%
GVA per employee	102,471	67,300	86,209	88,980	77,070

Information taken from CSO Annual Services Inquiry data

Public administration /Defence :NACE 75										
(Monetary data in €'00	(Monetary data in €'000)									
	1999	2001	2003	2005	2006					
Number of Firms	-	-	-	-						
Total Employment	74,500	81,300	91,200	96,400	102,300					
Total Employment/Total National Employment	4.7%	4.7%	5.1%	5.0%	5.1%					
Gross output	-	-	-	-	-					
Gross Value Added	3,537,239	4,376,866	5,338,470	6,315,284	6,804,100					
GVA/GDP	3.9%	3.7%	3.8%	3.9%	3.8%					

Information taken from Quarterly National Household Survey and National Accounts

Education: NACE 80										
(Monetary data in €'00	(Monetary data in €'000)									
	1999	2001	2003	2005	2006					
Number of Firms	-	-	-	-	-					
Total Employment	100,600	103,800	115,600	122,700	134,100					
Total Employment/Total National Employment	6.3%	6.0%	6.5%	6.4%	6.6%					
Gross output	-	-	-	-	-					
Gross Value Added	2,970,902	3,761,665	4,962,591	5,929,942	6,814,810					
GVA/GDP	3.3%	3.2%	3.6%	3.7%	3.8%					

Information taken from Quarterly National Household Survey and National Accounts

Health and Social Work: NACE 85 (Monetary data in €'000)

	1999	2001	2003	2005	2006
Number of Firms	-	-	-	-	-
Total Employment	120,300	144,000	171,100	188,700	202,600
Total Employment/Total National Employment	7.6%	8.4%	9.6%	9.8%	10.0%
Gross output	-	-	-	-	-
Gross Value Added	4,220,251	5,947,138	8,373,470	11,078,184	12,625,460
GVA/GDP	4.7%	5.1%	6.0%	6.8%	7.1%

Information taken from Quarterly National Household Survey and National Accounts

Recreational Cultural and Sporting Activities NACE: 92 (Monetary data in €'000)

(Monetary data in C 300)								
	1999	2001	2003	2005	2007			
Number of Firms	1,068	1,544	1,785	1,787	2,032			
Total Employment	12,776	16,340	20,820	22,564	29,243			
Total Employment/Total National Employment	0.8%	0.9%	1.2%	1.2%	1.4%			
Gross output	-	-	-	-	-			
Gross Value Added	507,684	717,232	764,051	1,117,153	1,386,416			
GVA/GDP	0.6%	0.6%	0.5%	0.7%	0.7%			

Information taken from CSO Annual Services Inquiry data

Other Activities NACE: 93 (Monetary data in €'000)									
1999 2001 2003 2005 2007									
Number of Firms	3,025	4,650	4,698	4,709	4,366				
Total Employment	17,590	18,004	23,826	23,320	24,140				
Total Employment/Total National Employment	1.1%	1.0%	1.3%	1.2%	1.1%				
Gross output	-	-	-	-	-				
Gross Value Added	271,234	401,056	646,791	502,113	588,621				
GVA/GDP	0.3%	0.3%	0.5%	0.3%	0.3%				

Information taken from CSO Annual Services Inquiry data

Sewage and refuse disposal/ Membership organisations NACE: 90-91; 95-99									
(Monetary data in €'000)									
	1999	2001	2003	2005	2006				
Number of Firms	-	-	-	-	-				
Total Employment	60,434	57,556	50,354	70,216	33,100				
Total Employment/Total National Employment	3.8%	3.3%	2.8%	3.6%	1.6%				
Gross output	-	-	-	-	-				
Gross Value Added	1,600,173	1,582,874	1,987,474	2,536,181	-				
GVA/GDP	1.8%	1.4%	1.4%	1.6%	-				

Information taken from Quarterly National Household Survey and National Accounts

4. Business Expenditure on R&D by Sector

Food and Beverages: NACE 15								
All Firms	1999	2001	2003	2005	2007			
R&D Spend (€'000)	44,086	46,300	41,379	61,641	88,186			
Share of total R&D Spend	5.7%	5.6%	3.8%	4.6%	5.5%			
FTE R&D Personnel	531	511	305	573	657			
Share of national FTE R&D Personnel	6.5%	5.9%	3.3%	5.6%	6.0%			
R&D Spend/Net Output	0.7%	0.6%	0.4%	0.6%	0.8%			
Irish-owned	1999	2001	2003	2005	2007			
R&D Spend (€'000)	26,805	30,552	25,477	38,347	50,741			
Share of Indigenous R&D spend	9.5%	9.8%	7.8%	9.9%	11.5%			
FTE R&D Personnel	-	-	-	424	462			
Share of Total Indigenous FTE R&D Personnel	-	-	-	9.4%	10.8%			
R&D Spend/Net Output	1.2%	1.3%	1.1%	1.8%	1.8%			
Foreign-owned	1999	2001	2003	2005	2007			
R&D Spend (€'000)	17,281	15,748	15,902	23,293	37,445			
Share of Foreign-owned R&D spend	3.5%	3.1%	2.1%	2.5%	3.2%			
FTE R&D Personnel	-	-	-	150	195			
Share of Total Foreign-owned FTE R&D Personnel	-	-	-	2.6%	2.9%			
R&D Spend/Net Output	0.4%	0.3%	0.2%	0.3%	0.5%			

Wood, Paper and Publishing: NACE 20-	Wood, Paper and Publishing: NACE 20-22						
All Firms	1999	2001	2003	2005	2007		
R&D Spend (€'000)	9,463	13,334	9,364	10,782	11,340		
Share of total R&D Spend	1.2%	1.6%	0.9%	0.8%	0.7%		
FTE R&D Personnel	113	104	72	69	59		
Share of national FTE R&D Personnel	1.4%	1.2%	0.8%	0.7%	0.5%		
R&D Spend/Net Output	0.13%	0.15%	0.09%	0.09%	0.07%		
Irish-owned	1999	2001	2003	2005	2007		
R&D Spend (€'000)	7,431	9,525	5,714	9,257	11,340		
Share of Indigenous R&D spend	2.6%	3.1%	1.8%	2.4%	2.6%		
FTE R&D Personnel	-	-	-	60	59		
Share of Total Indigenous FTE R&D Personnel	-	-	-	1.3%	1.4%		
R&D Spend/Net Output	0.6%	0.7%	0.5%	0.7%	0.6%		
Foreign-owned	1999	2001	2003	2005	2007		
R&D Spend (€'000)	2,032	3,809	3,650	1,525	0		
Share of Foreign-owned R&D spend	0.4%	0.7%	0.5%	0.2%	0.0%		
FTE R&D Personnel	-	-	-	9	0		
Share of total Foreign-owned FTE R&D Personnel	-	-	-	0.2%	0.0%		
R&D Spend/Net Output	0.03%	0.05%	0.04%	0.01%	0.00%		

Chemicals and Pharmaceuticals: NAC	CE 24				
All Firms	1999	2001	2003	2005	2007
R&D Spend (€'000)	106,559	95,795	208,295	300,407	317,827
Share of total R&D Spend	13.8%	11.6%	18.9%	22.6%	19.8%
FTE R&D Personnel	653	714	735	1,159	999
Share of national FTE R&D Personnel	7.9%	8.2%	7.9%	11.2%	9.1%
R&D Spend/Net Output	0.7%	0.5%	0.9%	1.3%	1.3%
Irish-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	8,854	8,532	17,006	16,944	31,643
Share of Indigenous R&D spend	3.1%	2.7%	5.2%	4.4%	7.1%
FTE R&D Personnel	-	-	-	149	220
Share of Total Indigenous FTE R&D Personnel	-	-	-	3.3%	5.1%
R&D Spend/Net Output	2.2%	2.1%	5.3%	5.6%	5.8%
Foreign-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	97,705	87,263	191,290	283,463	286,184
Share of Foreign-owned R&D spend	19.9%	17.1%	24.7%	30.2%	24.7%
FTE R&D Personnel	-	-	-	1,010	779
Share of Total Foreign-owned FTE R&D Personnel	-	-	-	17%	12%
R&D Spend/Net Output	0.7%	0.4%	0.8%	1.2%	1.2%

Materials and Basic Metals: NACE 25-28						
All Firms	1999	2001	2003	2005	2007	
R&D Spend (€'000)	27,693	28,204	28,782	39,252	64,211	
Share of total R&D Spend	3.6%	3.4%	2.6%	3.0%	4.0%	
FTE R&D Personnel	340	382	384	388	525	
Share of national FTE R&D Personnel	4.1%	4.4%	4.1%	3.8%	4.8%	
R&D Spend/Net Output	1.4%	1.3%	1.3%	1.6%	2.1%	
Irish-owned	1999	2001	2003	2005	2007	
R&D Spend (€'000)	20,051	18,095	20,069	26,321	23,352	
Share of Indigenous R&D spend	7.1%	5.8%	6.2%	6.8%	5.3%	
FTE R&D Personnel	-	-	-	271	203	
Share of Total Indigenous FTE R&D Personnel	-	-	-	6.0%	4.7%	
R&D Spend/Net Output	1.5%	1.2%	1.3%	1.4%	1.0%	
Foreign-owned	1999	2001	2003	2005	2007	
R&D Spend (€'000)	7,642	10,109	8,714	12,931	40,859	
Share of Foreign-owned R&D spend	1.6%	2.0%	1.1%	1.4%	3.5%	
FTE R&D Personnel	-	-	-	117	322	
Share of Total Foreign-owned FTE R&D Personnel	-	-	-	2.0%	4.8%	
R&D Spend/Net Output	1.2%	1.4%	1.3%	1.9%	6.0%	

Machinery and Equipment n.e.c.: NACE 29						
All Firms	1999	2001	2003	2005	2007	
R&D Spend (€'000)	22,529	15,085	43,237	48,214	48,930	
Share of total R&D Spend	2.9%	1.8%	3.9%	3.6%	3.1%	
FTE R&D Personnel	316	247	442	502	396	
Share of total R&D FTE Personnel	3.8%	2.9%	4.8%	4.9%	3.6%	
R&D Spend/Net Output	2.9%	1.9%	5.7%	5.5%	4.1%	
Irish-owned	1999	2001	2003	2005	2007	
R&D Spend (€'000)	15,350	9,899	34,743	34,367	31,005	
Share of Indigenous R&D spend	5.4%	3.2%	10.7%	8.9%	7.0%	
FTE R&D Personnel	-	-	-	354	253	
Share of Total Indigenous FTE R&D Personnel	-	-	-	7.9%	5.9%	
R&D Spend/Net Output	5.0%	2.8%	10.8%	11.8%	6.7%	
Foreign-owned	1999	2001	2003	2005	2007	
R&D Spend (€'000)	7,178	5,186	8,494	13,847	17,925	
Share of Foreign-owned R&D spend	1.5%	1.0%	1.1%	1.5%	1.5%	
FTE R&D Personnel	-	-	-	147	143	
Share of Total Foreign owned FTE R&D Personnel	-	-	-	2.5%	2.1%	
R&D Spend/Net Output	1.5%	1.2%	2.0%	2.4%	2.5%	

Computers, Electrical and Electronics	s: NACE 30-3	32			
All Firms	1999	2001	2003	2005	2007
R&D Spend (€'000)	284,869	110,780	186,908	278,165	350,230
Share of total R&D Spend	36.8%	13.5%	17.0%	21.0%	21.8%
FTE R&D Personnel	2,418	1,143	1,797	2,229	2,086
Share of national FTE R&D Personnel	29.4%	13.2%	19.4%	21.6%	19.0%
R&D Spend/Net Output	3.6%	1.1%	2.3%	2.9%	-
Irish-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	35,402	46,578	28,726	46,126	46,832
Share of Indigenous R&D spend	12.5%	15.0%	8.8%	11.9%	10.6%
FTE R&D Personnel	-	-	-	574	360
Share of Total Indigenous R&D FTE Personnel	-	-	-	12.7%	8.4%
R&D Spend/Net Output	10.4%	9.1%	7.7%	-	-
Foreign-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	249,467	64,202	158,182	232,038	303,398
Share of Foreign-owned R&D spend	50.8%	12.6%	20.4%	24.7%	26.2%
FTE R&D Personnel	-	-	-	1,655	1,726
Share of Total Foreign-owned FTE R&D Personnel	-	-		28.5%	25.9%
R&D Spend/Net Output	3.3%	0.7%	2.1%	-	-

Medical Devices and Other Instrume	nts: NACE	33			
All Firms	1999	2001	2003	2005	2007
R&D Spend (€'000)	38,606	57,030	113,876	124,298	151,874
Share of total R&D Spend	5.0%	6.9%	10.3%	9.4%	9.5%
FTE R&D Personnel	447	582	752	849	854
Share of national FTE R&D Personnel	5.4%	6.7%	8.1%	8.2%	7.8%
R&D Spend/Net Output	2.7%	2.3%	4.0%	3.6%	-
Irish-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	13,718	12,980	12,012	27,471	24,722
Share of Indigenous R&D spend	4.9%	4.2%	3.7%	7.1%	5.6%
FTE R&D Personnel	-	-	-	351	278
Share of Total Indigenous FTE R&D Personnel	-	-	-	7.8%	6.5%
R&D Spend/Net Output	10.3%	8.5%	6.5%	-	-
Foreign-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	24,888	44,050	101,864	96,827	127,151
Share of Foreign-owned R&D spend	5.1%	8.6%	13.1%	10.3%	11.0%
FTE R&D Personnel	-	-	-	498	575
Share of Total Foreign- owned FTE R&D Personnel	-	7	-	8.6%	8.5%
R&D Spend/Net Output	1.9%	1.8%	3.8%	-	-

Software and Other Computer Service	s: NACE 72				
All Firms	1999	2001	2003	2005	2007
R&D Spend (€'000)	184,972	360,355	399,023	390,858	403,893
Share of total R&D Spend	23.9%	43.8%	36.2%	29.5%	25.2%
FTE R&D Personnel	2,606	3,823	3,956	3,819	3,807
Share of national R&D FTE Personnel	31.7%	44.1%	42.7%	37.0%	34.8%
R&D Spend/GVA	15.1%	15.2%	16.9%	12.6%	12.4%
Irish-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	114,689	125,590	141,829	155,932	139,659
Share of Indigenous R&D spend	40.6%	40.3%	43.5%	40.2%	31.5%
FTE R&D Personnel	-	-	-	1,898	1,517
Share of total Indigenous FTE R&D Personnel	-	-	-	42.1%	35.5%
R&D Spend/GVA	-	-	-	-	-
Foreign-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	70,283	234,764	257,193	234,927	264,234
Share of Foreign-owned R&D spend	14.3%	45.9%	33.2%	25.0%	22.8%
FTE R&D Personnel (FTE)	-	-	-	1,921	2,290
Share of total Foreign R&D FTE Personnel	-	-	-	33.1%	34.3%
R&D Spend/GVA	-	-	-	-	-

Other Primary Sector: NACE 1-10							
All Firms	1999	2001	2003	2005	2007		
R&D Spend (€'000)	859	2,928	2,800	1,318	14		
Share of total R&D Spend	0.11%	0.33%	0.25%	0.01%	0.00%		
FTE R&D Personnel	13	35	17	14	0		
Share of national FTE R&D Personnel	0.15%	0.39%	0.18%	0.13%	0.00%		
R&D Spend/Gross Value Added	0.03%	0.08%	0.08%	0.03%	0.00%		

Other Manufacturing Sectors: NACE 16-19, 23, 34-37						
All Firms	1999	2001	2003	2005	2007	
R&D Spend (€'000)	21,806	19,391	23,484	17,984	22,154	
Share of total R&D Spend	2.7%	2.2%	2.2%	1.3%	1.3%	
FTE R&D Personnel	353	245	299	172	231	
Share of national FTE R&D Personnel	4.3%	2.7%	3.2%	1.7%	2.1%	
R&D Spend/Net Output	1.45%	1.3%	1.6%	1.3%	-	
Irish-owned	1999	2001	2003	2005	2007	
R&D Spend (€'000)	14,338	14,168	13,485	10,947	11,175	
Share of Indigenous R&D spend	5.1%	4.6%	4.1%	2.8%	2.5%	
FTE R&D Personnel	-	-	-	126	134	
Share of Total Indigenous FTE R&D Personnel	-	-	-	2.8%	3.13%	
Foreign-owned	1999	2001	2003	2005	2007	
R&D Spend (€'000)	7,469	5,223	9,999	7,037	10,979	
Share of Foreign-owned R&D spend	1.5%	1.0%	1.3%	0.7%	0.9%	
FTE R&D Personnel	-	-	-	46	97	
Share of total Foreign-owned FTE R&D Personnel	-	-	-	0.8%	1.4%	

Other Services: NACE 50-52, 60-64, 73					
All Firms	1999	2001	2003	2005	2007
R&D Spend (€'000)	25,940	55,667	43,715	32,774	118,578
Share of total R&D Spend	3.4%	6.8%	4.0%	2.5%	7.4%
FTE R&D Personnel	323	670	506	348	1,075
Share of national FTE R&D Personnel	3.9%	7.7%	5.5%	3.4%	9.8%
R&D Spend/Net Output	-	-	-	-	-
Irish-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	18,890	20,526	23,861	15,341	63,272
Share of Indigenous R&D spend	6.7%	6.6%	7.3%	4.0%	14.3%
FTE R&D Personnel		-	-	215	705
Share of total Indigenous FTE R&D Personnel	-	-	-	4.8%	16.5%
R&D Spend/Net Output	-	-	-	-	-
Foreign-owned	1999	2001	2003	2005	2007
R&D Spend (€'000)	7,050	35,141	19,854	17,432	55,306
Share of Foreign-owned R&D spend	1.4%	6.9%	2.6%	1.9%	4.8%
FTE R&D Personnel	-	-	-	133	370
Share of total Foreign-owned FTE R&D Personnel	-	-	-	2.3%	5.5%
R&D Spend/Net Output	-	-	-	-	-

Financial Intermediation: NACE 65						
	1999	2001	2003	2005	2007	
R&D Spend (€'000)	3,658	10,527	13	19,326	21,704	
Share of total R&D spend	0.5%	1.3%	0.0%	1.5%	1.4%	
Total FTE R&D Personnel	72	117	1	168	210	
Share of National FTE R&D Personnel	0.9%	1.4%	0.0%	1.6%	1.9%	
Total R&D Spend/Net Output	0.1%	0.1%	0.0%	0.1%	0.1%	

5. Comparison of Ranking of Government Funding, Based on Two Different Sources of Measurement

Sector	Ranking according to proportion of R&D funding by way of Government Grant as reported by companies in the BERD Survey 2007	Ranking according to proportion of R&D funding by way of Government Grant from the Enterprise Development Agencies
Software and Other Computer Services	1	1
Computers, Electrical and Electronics	2	2
Medical Devices, Precision and Optical Instruments	3	3
Other Services	4	8
Food and Beverage	5	5
Chemical & Pharmaceuticals	6	6
Materials and Basic & Fabricated Metals	7	10
Other Primary and Manufacturing	8	4
Machinery & Equipment	9	7
Wood, Paper & Publishing	10	9

6. Economic and Enterprise R&D Figures in 1999

Sector	% GDP	% of national employment	% of national BERD	% of national FTE R&D personnel	FTE R&D as a % of total employment
Other Services (including financial intermediation)	22.30%	25.90%	3.90%	4.80%	0.21%
Chemical & Pharmaceuticals	16.60%	1.70%	13.80%	7.90%	2.84%
Wood, Paper & Publishing	8.00%	1.90%	1.20%	1.40%	0.38%
Computers, Electrical and Electronics	8.80%	3.00%	36.80%	29.00%	5.05%
Food and Beverage	7.30%	3%	5.70%	6.40%	1.12%
Other Primary and Manufacturing	4.90%	10.70%	2.8%	4.70%	0.22%
Medical Devices, Precision and Optical Instruments	1.60%	1.00%	5.00%	5.40%	2.69%
Software and Other Computer Services	1.30%	1.20%	23.90%	31.70%	14.00%
Materials and Basic & Fabricated Metals	2.20%	2.30%	3.60%	4.10%	0.93%
Machinery & Equipment	0.90%	0.90%	2.90%	3.80%	2.18%

	Ranking - Impact on GDP	Ranking - Impact on employment	Ranking- investme nt in BERD	Ranking - relative number of FTE R&D personnel employed	FTE R&D as a % of total employment
Other Services	1	1	6	6	10
Chemical & Pharmaceuti cals	2	7	3	3	3
Wood, Paper & Publishing	4	6	10	10	8
Computers, Electrical and Electronics	3	3	1	2	2
Food and Beverage	5	4	4	4	6
Other Primary and Manufacturin g	6	2	8	7	9
Medical Devices, Precision and Optical Instruments	8	9	5	5	4
Software and Other Computer Services	9	8	2	1	1
Materials and Basic & Fabricated Metals	7	5	7	8	7
Machinery & Equipment	10	10	9	9	5

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