

Table SAKTI-1

OECD classification of industries, by R&D intensity

(List of industries and percent)

R&D intensity category	Manufacturing			Nonmanufacturing		
	ISIC, Rev.4, industry code	Name	R&D intensity (%)	ISIC, Rev.4, industry code	Name	R&D intensity (%)
High R&D intensity	303	Air and spacecraft and related machinery	31.69	72	Scientific research and development	30.39
	21	Pharmaceuticals	27.98	582	Software publishing	28.94
	26	Computer, electronic, and optical products	24.05			
Medium-high R&D intensity	252	Weapons and ammunition	18.87	62 - 63	IT and other information services	5.92
	29	Motor vehicles, trailers, and semi-trailers	15.36			
	325	Medical and dental instruments	9.29			
	28	Machinery and equipment nec	7.89			
	20	Chemicals and chemical products	6.52			
	27	Electrical equipment	6.22			
Medium R&D intensity	30X	Railroad, military vehicles, and transport nec (ISIC 302, 304, and 309)	5.72			
	22	Rubber and plastic products	3.58			
	301	Building of ships and boats	2.99			
	32X	Other manufacturing except medical and dental instruments	2.85			
	23	Other non-metallic mineral products	2.24			
	24	Basic metals	2.07			
Medium-low R&D intensity	33	Repair and installation of machinery and equipment	1.93			
	13	Textiles	1.73	69 - 75X	Professional, scientific and technical activities except scientific R&D services (ISIC 69 - 75 less 72)	1.76
	15	Leather and related products	1.65	61	Telecommunications	1.45
	17	Paper and paper products	1.58	05 - 09	Mining and quarrying	0.8
	10 - 12	Food products, beverages and tobacco	1.44	581	Publishing of books and periodicals	0.57
	14	Wearing apparel	1.40			
	25X	Fabricated metal products except weapons and ammunition (ISIC 25 less 252)	1.19			
	19	Coke and refined petroleum products	1.17			
	31	Furniture	1.17			
Low R&D intensity	16	Wood and products of wood and cork	0.70			
	18	Printing and reproductions of recorded media	0.67			
				64 - 66	Financial and insurance activities	0.38
				35 - 39	Electricity, gas, and water supply; waste management; and remediation	0.35
				59 - 60	Audiovisual and broadcasting activities	0.32
				45 - 47	Wholesale and retail trade	0.28
			01 - 03	Agriculture, forestry, and fishing	0.27	
			41 - 43	Construction	0.21	

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				77 - 82	Administrative and support services	0.18
				90 - 99	Arts, entertainment, repair of household goods, and other services	0.11
				49 - 53	Transportation and storage	0.08
				55 - 56	Accommodation and food service activities	0.02
				68	Real estate activities	0.01

ISIC, Rev.4 = International Standard Industrial Classification, Revision 4; IT = information technology; nec = not elsewhere classified; OECD = Organisation for Economic Co-operation and Development.

Note(s):

R&D intensity is measured as the ratio of global R&D expenditures to global value added output of industry. The global R&D and value added excludes several economies, including China and India, due to incomplete or missing industry value added and R&D data. Industries are classified according to ISIC, Rev.4.

Source(s):

Galindo-Rueda F, Verger F, *OECD Taxonomy of Economic Activities Based on R&D Intensity*, OECD Science, Technology and Industry Working Papers, 2016/04, OECD Publishing, Paris (2016).

Science and Engineering Indicators