

A Service of



Leibniz-Informationszentrum Wirtschaft Leibniz Information Centre

Dorn, Florian et al.

Research Report

The economic costs of the Coronavirus shutdown for Germany: A scenario calculation

EconPol Policy Brief, No. 21

Provided in Cooperation with:

Ifo Institute - Leibniz Institute for Economic Research at the University of Munich

Suggested Citation: Dorn, Florian et al. (2020): The economic costs of the Coronavirus shutdown for Germany: A scenario calculation, EconPol Policy Brief, No. 21, ifo Institute - Leibniz Institute for Economic Research at the University of Munich, Munich

This Version is available at: https://hdl.handle.net/10419/221808

Standard-Nutzungsbedingungen:

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

Terms of use:

Documents in EconStor may be saved and copied for your personal and scholarly purposes.

You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.

If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.



Economic Costs of Coronavirus Shutdown: Assumptions for the Six Calculated Scenarios

March 2020

APPENDIX TO THE PUBLICATIONS

Florian Dorn, Clemens Fuest, Marcell Göttert, Carla Krolage, Stefan Lautenbacher, Sebastian Link, Andreas Peichl, Magnus Reif, Stefan Sauer, Marc Stöckli, Klaus Wohlrabe, Timo Wollmershäuser: The Economic Costs of the Coronavirus Shutdown for Germany: A Scenario Calculation, EconPol Policy Brief 21, March 2020.

Florian Dorn, Clemens Fuest, Marcell Göttert, Carla Krolage, Stefan Lautenbacher, Robert Lehmann, Sebastian Link, Sascha Möhrle, Andreas Peichl, Magnus Reif, Stefan Sauer, Marc Stöckli, Klaus Wohlrabe, Timo Wollmershäuser, »The Economic Costs of the Coronavirus Shutdown for Selected European Countries: A Scenario Calculation«, EconPol Policy Brief 25, April 2020.

Table: The six scenarios

Scenario	Loss of value added during shutdown	Duration of the post-shutdown phase
1.	Low	1 month
2	High	1 month
3	Based on ifo business climate index	1 month
4	Low	At least 2 months, extended with longer shutdown
5	High	At least 2 months, extended with longer shutdown
6	Based on ifo business climate index	At least 2 months, extended with longer shutdown

Scenario 1

WZ-2008		Industries	GDP during shutdown
A		Agriculture, forestry and fisheries	
	1	Agriculture	100%
	2	Forestry	100%
	3	Fisheries	
B to F		Production Industry	
B to E		Production Industry excluding construction	
В		Mining and quarrying	50%
С		Manufacturing	
CA		Manufacture of food products, beverages and tobacco	100%
СВ		Manufacture of textiles, wearing apparel and leather	20%
СС		Manufacture of wood, paper, printing and reproduction	
	16	Manufacture of wood and of products of wood and cork	20%
	17	Manufacture of paper and paper products	20%
	18	Manufacture of reproduction of recorded media	20%
CD		Manufacture of coke and refined petroleum products	20%
CE		Manufacture of chemical and chemical products	20%
CF		Manufacture of pharmaceutical products	100%
CG		Manufacture of rubber and plastic products and others	
	22	Manufacture of rubber and plastic products	20%
	23	Manufacture of other non-metalic mineral products	20%
СН		Manufacture of basic metals and fabricated metal products	
	24	Manufacture of basic metals	20%
	25	Manufacture of fabricated metal products	20%
CI	23	Manufacture of computer, electronic and optical products	20%
CJ		Manufacture of electrical equipment	20%
CK		Manufacture of machinery and equipment	2070
CL		Vehicle construction	
CL	29	Manufacture of motor vehicles, trailers and semitrailers	20%
	30	Manufacture of other transport equipment	20%
CM	30		2070
CM	21 22	Manufacture of furniture and other goods, repair and installation	2004
	31-32	Manufacture of furniture, other manufacturing	20%
	33	Repair and installation of machinery	20%
D		Energy supply	100%
E	0.0	Water supply, sewerage and waste management	1000/
	36	Water supply	100%
_	37–39	Sewerage, waste management and remediation activities	100%
F		Construction	50%
G to T		Service sector	
G to I		Trade, transport and accomodation	
G		Wholesale and retail trade, repair of motor vehicles	
	45	Trade and repair of motor verhicles and motorcycles	20%
	46	Wholesale trade	50%
	47	Retail trade	50%
Н		Transportation and storage	
	49	Land transport and transport via pipelines	50%
	50	Water transport	20%
	51	Air transport	
	52	Warehousing	
	53	Postal and courier activities	50%
I		Accommodation and food service activities	0%
J		Information and communication	

JA		Publishing, motion picture and television programme production	
	58	Publishing activities	80%
	59-60	Motion picture, television programme production, programming	80%
JB		Telecommunications	80%
JC		Computer programming, consultancy, and information services	80%
K		Financial and insurance activities	
	64	Financial service activities	50%
	65	Insurance and pension funding	50%
	66	Activities auxiliary to financial services	50%
L		Real estate activities	50%
M to N		Corporate service providers	
М		Professional, scientific and technical activities	
MA		Professional and technical activities	
	69-70	Legal and accounting, consultancy,	80%
	71	Architectural and engineering activities	50%
MB		Scientific research and development	50%
MC		Other professional and technical activities	50%
	73	Advertising and market research	50%
	74-75	Other activities, veterinary activities	80%
N		Administrative and support service activities	
	77	Rental and leasing activities	20%
	78	Employment activities	20%
	79	Travel agency, tour operator and other reservation service	20%
	80-82	Other corporate service providers	20%
O to Q		Public administration, defence, education and health	
0		Public administration, defence, compulsory social security	100%
Р		Education	100%
Q		Human health and social work activities	
QA		Human health activities	100%
QB		Residential care activities and social work activities	100%
R to T		Other service providers	
R		Arts, entertainment and recreation	
	90-92	Arts, culture and gambling and betting activities	0%
	93	Sport activities, amusement and recreation activities	0%
S		Other service activities	
	94	Activities of membership organisations	80%
	95	Repair of computers and household goods	50%
	96	Other personal service activities	50%
T		Activities of households as employers	50%

Scenario 2

WZ-2008		Industries	GDP during shutdown
A		Agriculture, forestry and fisheries	
	1	Agriculture	100%
	2	Forestry	100%
	3	Fisheries	100%
B to F		Production Industry	
B to E		Production Industry excluding construction	
В		Mining and quarrying	50%
С		Manufacturing	
CA		Manufacture of food products, beverages and tobacco	100%
СВ		Manufacture of textiles, wearing apparel and leather	10%
CC		Manufacture of wood, paper, printing and reproduction	
	16	Manufacture of wood and of products of wood and cork	0%
	17	Manufacture of paper and paper products	0%
	18	Manufacture of reproduction of recorded media	0%
CD		Manufacture of coke and refined petroleum products	0%
CE		Manufacture of chemical and chemical products	20%
CF		Manufacture of pharmaceutical products	100%
CG		Manufacture of rubber and plastic products and others	
	22	Manufacture of rubber and plastic products	0%
	23	Manufacture of other non-metalic mineral products	0%
СН		Manufacture of basic metals and fabricated metal products	
	24	Manufacture of basic metals	0%
	25	Manufacture of fabricated metal products	0%
CI		Manufacture of computer, electronic and optical products	0%
CJ		Manufacture of electrical equipment	0%
CK		Manufacture of machinery and equipment	0%
CL		Vehicle construction	
	29	Manufacture of motor vehicles, trailers and semitrailers	0%
	30	Manufacture of other transport equipment	0%
CM		Manufacture of furniture and other goods, repair and installation	
	31-32	Manufacture of furniture, other manufacturing	0%
	33	Repair and installation of machinery	0%
D		Energy supply	100%
E		Water supply, sewerage and waste management	
	36	Water supply	100%
	37–39	Sewerage, waste management and remediation activities	100%
F	0. 00	Construction	0%
G to T		Service sector	0,0
G to I		Trade, transport and accommodation	
G		Wholesale and retail trade, repair of motor vehicles	
0	45	Trade and repair of motor vehicles and motorcycles	
	46	Wholesale trade	50%
	47	Retail trade	50%
Н	41		3070
***	49	Transportation and storage	50%
		Land transport and transport via pipelines	0%
	50	Water transport	
	51	Air transport	0%
	52	Warehousing	50%
	53	Postal and courier activities	50%
		Accommodation and food service activities	0%

JA		Publishing, motion picture and television programme production	
	58	Publishing activities	50%
	59-60	Motion picture, television programme production, programming	50%
JB		Telecommunications	50%
JC		Computer programming, consultancy, and information services	80%
K		Financial and insurance activities	
	64	Financial service activites	50%
	65	Insurance and pension funding	50%
	66	Activities auxiliary to financial services	50%
L		Real estate activities	50%
M to N		Corporate service providers	
М		Professional, scientific and technical activities	
MA		Professional and technical activities	
	69-70	Legal and accounting, consultancy,	50%
	71	Architectural and engineering activities	50%
MB		Scientific research and development	50%
MC		Other professional and technical activities	50%
	73	Advertising and market research	50%
	74-75	Other activities, veterinary activities	50%
N		Administrative and support service activities	
	77	Rental and leasing activities	0%
	78	Employment activities	0%
	79	Travel agency, tour operator and other services	0%
	80-82	Other corporate service providers	0%
O to Q		Public administration, defence, education and health	
0		Public administration, defence, compulsory social security	100%
Р		Education	100%
Q		Human health and social work activities	
QA		Human health activities	100%
QB		Residential care activities and social work activities	100%
R to T		Other service providers	
R		Arts, entertainment and recreation	
	90-92	Arts, culture and gambling and betting activities	0%
	93	Sport activities, amusement and recreation activities	0%
S		Other service activities	
	94	Activities of membership organisations	80%
	95	Repair of computers and household goods	50%
	96	Other personal service activities	50%
Т		Activities of households as employers	50%

Scenario 3

WZ-2008		Industries	GDP during shutdown
A		Agriculture, forestry and fisheries	
	1	Agriculture	100%
	2	Forestry	100%
	3	Fisheries	
B to F		Production Industry	
B to E		Production Industry excluding construction	
В		Mining and quarrying	100%
С		Manufacturing	
CA		Manufacture of food products, beverages and tobacco	100%
СВ		Manufacture of textiles, wearing apparel and leather	20%
CC		Manufacture of wood, paper, printing and reproduction	
	16	Manufacture of wood and of products of wood and cork	80%
	17	Manufacture of paper and paper products	20%
	18	Manufacture of reproduction of recorded media	80%
CD		Manufacture of coke and refined petroleum products	60%
CE		Manufacture of chemical and chemical products	20%
CF		Manufacture of pharmaceutical products	80%
CG		Manufacture of rubber and plastic products and others	
	22	Manufacture of rubber and plastic products	0%
	23	Manufacture of other non-metallic mineral products	60%
СН		Manufacture of basic metals and fabricated metal products	
	24	Manufacture of basic metals	20%
	25	Manufacture of fabricated metal products	20%
CI		Manufacture of computer, electronic and optical products	80%
CJ		Manufacture of electrical equipment	40%
CK		Manufacture of machinery and equipment	20%
CL		Vehicle construction	
	29	Manufacture of motor vehicles, trailers and semitrailers	0%
	30	Manufacture of other transport equipment	80%
CM		Manufacture of furniture and other goods, repair and installation	
	31-32	Manufacture of furniture, other manufacturing	80%
	33	Repair and installation of machinery	0%
D		Energy supply	100%
E		Water supply, sewerage and waste management	
	36	Water supply	100%
	37–39	Sewerage, waste management and remediation activities	60%
F		Construction	80%
G to T		Service sector	
G to I		Trade, transport and accommodation	
G G		Wholesale and retail trade, repair of motor vehicles	
	45	Trade and repair of motor vehicles and motorcycles	0%
	46	Wholesale trade	20%
	47	Retail trade	80%
Н		Transportation and storage	0070
	49	Land transport and transport via pipelines	80%
	50	Water transport	0%
	50	·	U 7U
	51	Airtransport	20%
	52	Warehousing Postal and courier activities	
	53		0%
1		Accommodation and food service activities	80%

JA		Publishing, motion picture and television programme production	
	58	Publishing activities	80%
	59-60	Motion picture, television programme production, programming	80%
JB		Telecommunications	80%
JC		Computer programming, consultancy, and information services	80%
K		Financial and insurance activities	
	64	Financial service activities	50%
	65	Insurance and pension funding	50%
	66	Activities auxiliary to financial services	50%
L		Real estate activities	80%
M to N		Corporate service providers	
М		Professional, scientific and technical activities	
MA		Professional and technical activities	
	69-70	Legal and accounting, consultancy,	60%
	71	Architectural and engineering activities	60%
MB		Scientific research and development	80%
MC		Other professional and technical activities	50%
	73	Advertising and market research	40%
	74-75	Other activities, veterinary activities	80%
N		Administrative and support service activities	
	77	Rental and leasing activities	0%
	78	Employment activities	0%
	79	Travel agency, tour operator and other	60%
	80-82	Other corporate service providers	80%
O to Q		Public administration, defence, education and health	
0		Public administration, defence, compulsory social security	100%
Р		Education	100%
Q		Human health and social work activities	
QA		Human health activities	100%
QB		Residential care activities and social work activities	100%
R to T		Other service providers	
R		Arts, entertainment and recreation	
	90-92	Arts, culture and gambling and betting activities	0%
	93	Sport activities, amusement and recreation activities	0%
S		Other service activities	
	94	Activities of membership organisations	80%
	95	Repair of computers and household goods	50%
	96	Other personal service activities	50%
T		Activities of households as employers	50%

Post	WZ-2008	Industries	GDP during shut-down and post-shutdown phase					
Applications Applications Shattdown Shattdown Shattdown Shattdown Shattdown Shattdown Shattdown Shattdown Common to the shatt of the shat			Scenario 4		Scenario 5		Scenario 6	
Bilio Production Industry 100%	A	Agriculture, forestry and fisheries	Shutdown		Shutdown		Shutdown	
10	1	Agriculture	100%	100%	100%	100%	100%	100%
Big Production industry Production	2	Forestry	100%	100%	100%	100%	100%	100%
B	3	Fisheries	100%	100%	100%	100%	100%	100%
B	B to F	Production industry						
C	B to E	Production Industry excluding construction						
CA Manufacture of food products, beverages and tobacco 100% 100% 100% 100% 20% 90% CB Manufacture of sextles, wearing appared and leasther 20% 90% 10% 90% 20% 90% CC Manufacture of sextles, wearing appared and peroducts of vood and cork 20% 90% 0% 90% 80% 90% 18 Manufacture of paper and paper products 20% 90% 0% 90%<	В	Mining and quarrying	50%	90%	50%	90%	100%	90%
CC	С	Manufacturing						
CC	CA	Manufacture of food products, beverages and tobacco	100%	100%	100%	100%	100%	100%
16	СВ	Manufacture of textiles, wearing apparel and leather	20%	90%	10%	90%	20%	90%
17	CC	Manufacture of wood, paper, printing and reproduction						
18	16	Manufacture of wood and of products of wood and cork	20%	90%	0%	90%	80%	90%
Manufacture of coke and refined petroleum products 20% 90% 20% 20% 90% 20% 90% 20% 90%	17	Manufacture of paper and paper products	20%	90%	0%	90%	20%	90%
CE Manufacture of chemical and chemical products 20% 90% 20% 90% 20% 90% 20% 90% 20% 90% 20% 90% 100% 100% 100% 100% 100% 100% 30% 30% 30% 30% 100% 100% 100% 100% 90% 100% 90% <	18	Manufacture of paper and paper products	20%	90%	0%	90%	80%	90%
CF Manufacture of pharmaceutical products 100% 100% 100% 100% 90%	CD	Manufacture of coke and refined petroleum products	20%	90%	0%	90%	60%	90%
Manufacture of rubber and plastic products 20% 9	CE	Manufacture of chemical and chemical products	20%	90%	20%	90%	20%	90%
Manufacture of rubber and plastic products 20% 90% 0% 90% 60% 90% 60% 90% 90% 60% 90% 90% 60% 90% 90% 60% 90% 90% 60% 90% 90% 60% 90% 90% 60% 90% 90% 80% 90	CF	Manufacture of pharmaceutical products	100%	100%	100%	100%	80%	100%
Manufacture of other non-metallic mineral products	CG	Manufacture of rubber and plastic products and others						
CH Manufacture of basic metals and fabricated metal products 20% 390% 0% 390% 20% 390% 25 Manufacture of basic metals 20% 90% 0% 390% 20% 390% CI Manufacture of basic metals 20% 90% 0% 390% 20% 390% CI Manufacture of electrical equipment 20% 90% 0% 390% 20% 30% 30% 20% 30% 30% 20% 30% 30% 20% 30% </td <td>22</td> <td>Manufacture of rubber and plastic products</td> <td>20%</td> <td>90%</td> <td>0%</td> <td>90%</td> <td>0%</td> <td>90%</td>	22	Manufacture of rubber and plastic products	20%	90%	0%	90%	0%	90%
Manufacture of basic metals	23	Manufacture of other non-metallic mineral products	20%	90%	0%	90%	60%	90%
Manufacture of basic metals	СН	Manufacture of basic metals and fabricated metal products						
CI Manufacture of computer, electronic and optical products 20% 90% 0% 90% 20% 90% CJ Manufacture of electrical equipment 20% 90% 0% 90% 40% 90% CK Manufacture of machinery 20% 90% 0% 90% 20% 90% CL Vehicle construction 90% 0% 90% 0% 90% <td>24</td> <td>Manufacture of basic metals</td> <td>20%</td> <td>90%</td> <td>0%</td> <td>90%</td> <td>20%</td> <td>90%</td>	24	Manufacture of basic metals	20%	90%	0%	90%	20%	90%
CJ Manufacture of electrical equipment 20% 90% 0% 90% 40% 90% CK Manufacture of machinery 20% 90% 0% 90% 20% 90% CL Vehicle construction Vehicle construction Vehicle construction Vehicle construction Vehicle construction 0% 90% 0% 90% <td>25</td> <td>Manufacture of basic metals</td> <td>20%</td> <td>90%</td> <td>0%</td> <td>90%</td> <td>20%</td> <td>90%</td>	25	Manufacture of basic metals	20%	90%	0%	90%	20%	90%
CK Manufacture of machinery 20% 90% 0% 90% 20% 90% CL Vehicle construction 29 Manufacture of motor vehicles, trailers and semitrailers 20% 90% 90% 90% 90% 90% 90% 9	CI	Manufacture of computer, electronic and optical products	20%	90%	0%	90%	80%	90%
CL Vehicle construction 29 Manufacture of motor vehicles, trailers and semitrailers 20% 90% 0% 90%	CJ	Manufacture of electrical equipment	20%	90%	0%	90%	40%	90%
Manufacture of motor vehicles, trailers and semitrailers 20% 90% 0% 90%	CK	Manufacture of machinery	20%	90%	0%	90%	20%	90%
Manufacture of other transport equipment 20% 90% 0% 90% 80% 90% 90% 80% 90% 80% 90% 80% 90% 31–32 Manufacture of furniture, other manufacturing 20% 90% 0% 90% 0% 90%	CL	Vehicle construction						
CM Manufacture of furniture, repairs and installation 20% 90% 0% 90% 80% 90% 31-32 Manufacture of furniture, other manufacturing 20% 90% 0% 90% 0% 90% <td>29</td> <td>Manufacture of motor vehicles, trailers and semitrailers</td> <td>20%</td> <td>90%</td> <td>0%</td> <td>90%</td> <td>0%</td> <td>90%</td>	29	Manufacture of motor vehicles, trailers and semitrailers	20%	90%	0%	90%	0%	90%
Manufacture of furniture, other manufacturing 20% 90% 0% 90% 80% 90% 90% 33 Repair and installation of machinery 20% 90% 90% 0% 90%	30	Manufacture of other transport equipment	20%	90%	0%	90%	80%	90%
Seminary 100% 100	СМ	Manufacture of furniture, repairs and installation						
Energy supply 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 37-39 Sewerage, waste management and remediation activities 100% 100% 100% 100% 100% 100% 60% 100%	31-32	Manufacture of furniture, other manufacturing	20%	90%	0%	90%	80%	90%
Barray Water supply, sewerage and waste management 100% 1	33	Repair and installation of machinery	20%	90%	0%	90%	0%	90%
36 Water supply 100% 100% 100% 100% 100% 100% 100% 100	D	Energy supply	100%	100%	100%	100%	100%	100%
Sewerage, waste management and remediation activities 100% 100% 100% 100% 100% 60% 100% 1	E	Water supply, sewerage and waste management						
F Construction 50% 90% 0% 90% 80% 90% 6 to T Service Sector G to I Trade, transport and accommodation G Wholesale and retail trade, repair of motor vehicles	36	Water supply	100%	100%	100%	100%	100%	100%
Service Sector Trade, transport and accommodation Trade, transport and accommodation Trade, transport and accommodation Service Sector Trade, transport and accommodation Service Sector Service S	37-39	Sewerage, waste management and remediation activities	100%	100%	100%	100%	60%	100%
Trade, transport and accommodation Wholesale and retail trade, repair of motor vehicles 20% 90% 0% 90% 0% 90% 90% 45 Trade and repair of motor verhicles and motorcycles 20% 90% 50% 90% 20% 90% 90% 46 Wholesale trade 50% 90% 50% 90% 80% 90% 90% 47 Retail trade 50% 90% 50% 90% 80% 90% 90% 47 Transportation and storage 49 Land transport and transport via pipelines 50% 90% 50% 90% 80% 90% 50% 90% 50% 90% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 50% 50% 50% 50% 50% 50% 50% 50% 50% 50% 50% 90% 50% 50% 90% 50% 50% 90% 50% 50% 90% 50% 50% 90% 50% 50% 90% 50% 50% 90% 50% 50% 90% 50% 50% 90% 50% 50% 90% 50%	F	Construction	50%	90%	0%	90%	80%	90%
Wholesale and retail trade, repair of motor vehicles 20% 90% 0% 90% 0% 90% 90% 90% 45 Trade and repair of motor verhicles and motorcycles 20% 90% 50% 90% 20% 90% 90% 46 Wholesale trade 50% 90% 50% 90% 80% 90% 90% 80% 90% 90% 80% 90% 90% 80% 90% 90% 80% 90% 90% 80% 90% 90% 80% 90% 90% 80% 9	G to T	Service Sector						
45 Trade and repair of motor verhicles and motorcycles 20% 90% 0% 90% 0% 90% 0% 90% 46 Wholesale trade 50% 90% 50% 90% 50% 90% 80% 90% 47 Retail trade 50% 90% 50% 90% 50% 90% 80% 90% 47 Transportation and storage 49 Land transport and transport via pipelines 50% 90% 50% 90% 80% 90% 50% 90% 50% 90% 80% 90% 50% 90%	G to I	Trade, transport and accommodation						
46 Wholesale trade 50% 90% 50% 90% 20% 90% 47 Retail trade 50% 90% 50% 90% 80% 90% H Transportation and storage 50% 90% 50% 90% 80% 90% 50 Water transport 20% 90% 0% 90% 0% 90% 51 Air transport 20% 50% 0% 50% 0% 50% 90% 50% 90% 50% 90	G	Wholesale and retail trade, repair of motor vehicles						
47 Retail trade 50% 90% 50% 90% 80% 90% 90% H Transportation and storage 50% 90% 50% 90% 80% 90% 50% 90% 80% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 90% 50% 90% 90% 50% 90% 90% 50% 90% 90% 50% 90% 90% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90% 50% 90%	45	Trade and repair of motor verhicles and motorcycles	20%	90%	0%	90%	0%	90%
H Transportation and storage 49 Land transport and transport via pipelines 50% 90% 50% 90% 80% 90% 50 Water transport 20% 90% 0% 90% 0% 90% 51 Air transport 20% 50% 0% 50% 0% 50% 52 Warehousing 50% 90% 50% 90% 50% 90% 50 Postal and courier activities 50% 90% 50% 90% 0% 90% 50% 90%	46	Wholesale trade	50%	90%	50%	90%	20%	90%
49 Land transport and transport via pipelines 50% 90% 50% 90% 80% 90% 50 90% 50% 90%	47	Retail trade	50%	90%	50%	90%	80%	90%
50 Water transport 20% 90% 0% 90% 0% 90% 51 Air transport 20% 50% 0% 50% 0% 50% 52 Warehousing 50% 90% 50% 90% 20% 90% 53 Postal and courier activities 50% 90% 50% 90% 0% 90%	Н	Transportation and storage						
51 Air transport 20% 50% 0% 50% 0% 50% 52 Warehousing 50% 90% 50% 90% 20% 90% 53 Postal and courier activities 50% 90% 50% 90% 0% 90%	49	Land transport and transport via pipelines	50%	90%	50%	90%	80%	90%
51 Air transport 20% 50% 0% 50% 0% 50% 52 Warehousing 50% 90% 50% 90% 20% 90% 53 Postal and courier activities 50% 90% 50% 90% 0% 90%	50	Water transport	20%	90%	0%	90%	0%	90%
53 Postal and courier activities 50% 90% 50% 90% 0% 90%	51	Airtransport	20%	50%	0%	50%	0%	50%
	52	Warehousing	50%	90%	50%	90%	20%	90%
I Accommodation and food 0% 20% 0% 20% 80% 20%	53	Postal and courier activities	50%	90%	50%	90%	0%	90%
	1	Accommodation and food	0%	20%	0%	20%	80%	20%

J	Information and communication						
JA	Publishing, motion picture and television programme						
58	Publishing activities	80%	90%	50%	90%	80%	90%
59-60	Motion picture, television programme production	80%	90%	50%	90%	80%	90%
JB	Telecommunications	80%	90%	50%	90%	80%	90%
JC	Computer programming, consultancy, and information	80%	90%	80%	90%	80%	90%
K	Financial and insurance activities						
64	Financial service activities	50%	90%	50%	90%	50%	90%
65	Insurance and pension funding	50%	90%	50%	90%	50%	90%
66	Activities auxiliary to financial services	50%	90%	50%	90%	50%	90%
L	Real estate activities	50%	90%	50%	90%	80%	90%
M to N	Corporate service providers						
М	Professional, scientific and technical activities						
MA	Professional and technical activities						
69-70	Legal and accounting, consultancy	80%	90%	50%	90%	60%	90%
71	Architectural and engineering activities	50%	90%	50%	90%	60%	90%
MB	Scientific research and development	50%	90%	50%	90%	80%	90%
MC	Other professional and technical activities	50%	90%	50%	90%	50%	90%
73	Advertising and market research	50%	90%	50%	90%	40%	90%
74-75	Other activities, veterinary activities	80%	90%	50%	90%	80%	90%
N	Administrative and support service activities						
77	Rental and leasing activities	20%	50%	0%	50%	0%	50%
78	Employment activities	20%	90%	0%	90%	0%	90%
79	Travel agency, tour operator and other services	20%	20%	0%	20%	60%	20%
80-82	Other corporate service providers	20%	50%	0%	50%	80%	50%
O to Q	Public administration, defence, education and health						
0	Public administration, defence, compulsory social security	100%	100%	100%	100%	100%	100%
Р	Education	100%	100%	100%	100%	100%	100%
Q	Human health and social work activities						
QA	Human health activities	100%	100%	100%	100%	100%	100%
QB	Residential care and social work activities	100%	100%	100%	100%	100%	100%
R to T	Other service providers						
R	Arts, entertainment and recreation						
90-92	Arts, culture and gambling and betting activities	0%	0%	0%	0%	0%	0%
93	Sport activities, amusement and recreation activities	0%	0%	0%	0%	0%	0%
S	Other service activities						
94	Activities of membership organisations	80%	50%	80%	50%	80%	50%
95	Repair of computers and household goods	50%	50%	50%	50%	50%	50%
96	Other personal service activities	50%	90%	50%	90%	50%	90%
	Activities of households as employers	50%	50%	50%	50%	50%	50%