

# People's Republic of China

East Asia

Basic Economic Indicators

Economic Aggregates (\$ million)	2000	2007	2010	2013	2016	2019	2020
Value-added at basic price	1,198,452	3,495,060	5,931,147	9,380,359	11,191,026	14,276,634	14,724,439
Gross output	3,253,016	10,654,372	18,053,714	29,232,642	33,583,226	43,533,477	44,511,276
Total intermediate inputs	2,042,182	7,094,831	12,041,273	19,750,806	22,392,200	29,256,843	29,786,837
Taxes less subsidies on products	0	0	0	0	0	0	0
International transport margins	12,381	64,481	81,294	101,478	0	0	0
CIF/FOB adjustment	0	0	0	0	0	0	0
Direct purchases abroad by residents	0	0	0	0	0	0	0
Purchases by nonresidents on the domestic territory	0	0	0	0	0	0	0
Household final consumption expenditure	541,040	1,198,104	1,937,722	3,207,960	4,041,375	5,328,471	5,222,258
Final consumption expenditure by NPISHs	0	0	0	0	0	0	0
Government final consumption expenditure	189,483	460,831	772,580	1,286,635	1,601,919	2,361,528	2,438,848
Gross fixed capital formation	366,845	1,235,105	2,482,132	3,953,503	4,497,722	5,822,197	7,265,049
Changes in inventories	10,520	82,584	131,957	164,255	76,137	-348	-1,145,000
Total final demand	1,107,888	2,976,624	5,324,391	8,612,353	10,217,154	13,511,848	13,781,155
Exports	262,018	1,304,802	1,697,752	2,293,014	2,164,513	2,664,103	2,732,326
Imports	220,639	924,493	1,358,267	1,863,450	1,601,471	2,499,155	2,362,588

Economic Aggregates, Top 3 Sectors (\$ million)	2000	2007	2010	2013	2016	2019	2020
<b>Value-added at basic price</b>							
Finance	49,365	162,223	309,926	542,716	775,588	1,103,482	1,218,407
Agriculture	181,870	376,408	598,762	919,771	1,008,065	1,064,789	1,175,419
Wholesale trade	81,658	228,114	437,527	746,178	900,468	1,146,961	1,149,046
<b>Gross output</b>							
Construction	248,694	869,204	1,702,013	2,745,012	3,233,231	4,229,942	4,376,834
Electricals	216,840	926,154	1,622,230	2,493,839	2,716,257	3,470,097	3,498,871
Chemicals	167,779	544,418	884,556	1,573,618	1,713,965	2,793,140	2,816,321
<b>Total intermediate inputs</b>							
Construction	181,102	664,777	1,303,215	2,104,850	2,509,012	3,207,538	3,318,925
Electricals	169,076	752,987	1,331,900	2,072,349	2,270,842	2,933,146	2,957,464
Chemicals	124,992	425,796	693,845	1,280,852	1,400,314	2,310,819	2,329,998
<b>Total final demand</b>							
Construction	231,450	833,709	1,584,925	2,513,001	2,937,095	3,820,227	4,116,648
Health and social work	43,438	134,420	239,482	459,128	593,638	2,043,229	2,087,912
Public administration	94,970	255,736	415,813	636,706	903,486	1,379,184	1,408,489
<b>Exports</b>							
Electricals	65,374	426,450	561,086	733,621	691,327	790,466	820,531
Textiles	41,381	155,531	177,812	232,740	214,248	261,741	308,474
Machinery, NEC	8,791	99,189	136,754	176,968	166,806	274,864	279,975
<b>Imports</b>							
Electricals	62,143	274,459	345,617	462,080	364,202	561,097	549,618
Mining	14,291	104,463	208,657	346,355	241,088	324,240	318,865
Chemicals	25,967	90,410	118,854	147,823	128,899	241,451	241,642

## Domestic Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>First-round effect</b>							
Leather	0.64	0.75	0.74	0.80	0.82	0.82	0.82
Transport equipment	0.71	0.73	0.75	0.77	0.78	0.78	0.78
Textiles	0.66	0.73	0.76	0.76	0.77	0.78	0.78
<b>Industrial support effect</b>							
Rubber and plastics	1.05	1.19	1.26	1.43	1.51	1.54	1.51
Transport equipment	1.19	1.32	1.43	1.56	1.67	1.56	1.51
Electricals	1.03	0.99	1.20	1.37	1.52	1.43	1.43
<b>Production-induced effect</b>							
Transport equipment	1.90	2.05	2.18	2.33	2.45	2.34	2.29
Rubber and plastics	1.74	1.90	1.99	2.18	2.28	2.30	2.28
Leather	1.52	1.99	1.94	2.27	2.35	2.29	2.24

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Domestic Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Simple value-added multiplier</b>							
Real estate	0.96	0.96	0.98	0.98	0.99	0.97	0.98
Finance	0.96	0.95	0.96	0.96	0.97	0.96	0.96
Wholesale trade	0.91	0.92	0.94	0.95	0.96	0.95	0.95
<b>Type I value-added multiplier</b>							
Leather	3.57	4.78	4.21	5.50	5.84	6.18	6.27
Metals	4.13	3.81	3.81	4.60	5.08	5.64	5.75
Electricals	3.41	3.49	4.00	4.37	4.86	4.83	4.93
<b>Direct backward linkage</b>							
Leather	0.64	0.75	0.74	0.80	0.82	0.82	0.82
Transport equipment	0.71	0.73	0.75	0.77	0.78	0.78	0.78
Textiles	0.66	0.73	0.76	0.76	0.77	0.78	0.78
<b>Complete hypothetical extraction (backward)</b>							
Construction	2.68	2.84	2.82	2.91	3.00	2.79	2.83
Health and social work	2.50	2.61	2.64	2.76	2.73	2.81	2.78
Machinery, NEC	2.26	2.29	2.33	2.46	2.54	2.55	2.64
<b>Partial hypothetical extraction (backward)</b>							
Construction	1.68	1.85	1.85	1.96	2.05	1.84	1.86
Health and social work	1.51	1.62	1.65	1.77	1.74	1.86	1.84
Machinery, NEC	1.43	1.49	1.53	1.67	1.75	1.75	1.80
<b>Total backward linkage</b>							
Transport equipment	2.90	3.05	3.18	3.33	3.45	3.34	3.29
Rubber and plastics	2.74	2.90	2.99	3.18	3.28	3.30	3.28
Leather	2.52	2.99	2.94	3.27	3.35	3.29	3.24
<b>Direct forward linkage</b>							
Mining	0.89	0.97	0.97	0.98	0.98	0.99	0.99
Refined fuels	0.94	0.96	0.93	0.92	0.93	0.93	0.95
Rubber and plastics	0.82	0.79	0.86	0.87	0.89	0.95	0.95
<b>Complete hypothetical extraction (forward)</b>							
Mining	3.50	3.80	3.73	3.84	3.92	4.15	4.11
Transport activities, NEC	2.72	2.54	3.10	3.48	3.58	3.58	3.55
Refined fuels	3.44	3.43	3.32	3.40	3.45	3.42	3.41
<b>Partial hypothetical extraction (forward)</b>							
Mining	2.57	2.92	2.89	3.00	3.08	3.22	3.18
Transport activities, NEC	1.82	1.56	2.13	2.52	2.62	2.62	2.58
Refined fuels	2.49	2.52	2.44	2.53	2.59	2.54	2.54
<b>Total forward linkage</b>							
Mining	3.77	4.30	4.40	4.57	4.68	4.48	4.43
Utilities	3.38	4.26	4.08	4.17	4.24	4.00	3.97
Refined fuels	3.60	3.75	3.77	3.91	4.00	3.88	3.90
<b>Normalized backward linkage</b>							
Transport equipment							
Rubber and plastics							
Leather							
<b>Normalized forward linkage</b>							
Mining							
Utilities							
Refined fuels							
<b>Net backward linkage</b>							
Construction							
Health and social work							
Manufacturing, NEC							
<b>Net forward linkage</b>							
Mining							
Agriculture							
Finance							

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International Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Self-sufficiency ratio</b>							
Manufacturing, NEC	1.32	1.55	1.24	1.32	1.33	3.27	2.96
Textiles	1.27	1.54	1.34	1.28	1.23	1.33	1.41
Leather	1.08	1.37	1.31	1.21	1.18	1.31	1.26
<b>Import-to-input ratio</b>							
Refined fuels	0.09	0.16	0.17	0.17	0.12	0.14	0.13
Electricals	0.13	0.20	0.13	0.11	0.08	0.11	0.11
Metals	0.06	0.08	0.08	0.09	0.06	0.08	0.08
<b>Export-to-output ratio</b>							
Sale of motor vehicles	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Manufacturing, NEC	0.28	0.54	0.51	0.52	0.46	0.99	0.97
Textiles	0.28	0.38	0.28	0.24	0.21	0.27	0.32
<b>Domestic inputs share to output</b>							
Leather	0.64	0.75	0.74	0.80	0.82	0.82	0.82
Transport equipment	0.71	0.73	0.75	0.77	0.78	0.78	0.78
Textiles	0.66	0.73	0.76	0.76	0.77	0.78	0.78
<b>Foreign inputs share to output</b>							
Refined fuels	0.09	0.16	0.17	0.17	0.12	0.14	0.13
Electricals	0.13	0.20	0.13	0.11	0.08	0.11	0.11
Metals	0.06	0.08	0.08	0.09	0.06	0.08	0.08
<b>Backward import multipliers</b>							
Electricals	0.25	0.35	0.28	0.26	0.20	0.25	0.24
Refined fuels	0.15	0.26	0.27	0.27	0.20	0.22	0.20
Metals	0.16	0.21	0.21	0.22	0.17	0.20	0.19
<b>Forward import multipliers</b>							
Metals	0.16	0.23	0.17	0.16	0.15	0.18	0.17
Electricals	0.16	0.23	0.23	0.23	0.21	0.16	0.17
Textiles	0.10	0.15	0.14	0.13	0.12	0.15	0.17
<b>Intraregional transfer multiplier</b>							
Transport equipment	2.90	3.05	3.18	3.33	3.45	3.34	3.29
Rubber and plastics	2.74	2.90	2.99	3.18	3.28	3.30	3.28
Leather	2.52	2.99	2.94	3.27	3.35	3.29	3.24
<b>Interregional spillover multiplier</b>							
Refined fuels	1.13	1.26	1.28	1.29	1.22	1.24	1.24
Electricals	1.24	1.36	1.24	1.20	1.15	1.19	1.19
Metals	1.10	1.14	1.16	1.17	1.12	1.15	1.15
<b>Interregional feedback multiplier</b>							
Electricals	1.10	1.16	1.12	1.11	1.07	1.08	1.07
Refined fuels	1.03	1.06	1.05	1.06	1.04	1.04	1.04
Air transport	1.02	1.04	1.04	1.04	1.03	1.04	1.03
<b>Intraregional effect on gross output (\$ million)</b>							
Construction	246,959.42	862,807.03	1,688,897.53	2,719,370.35	3,209,696.38	4,209,658.02	4,361,984.96
Electricals	181,094.66	714,133.23	1,244,902.86	1,928,934.02	2,147,350.11	2,902,569.76	2,914,267.93
Chemicals	144,128.57	418,806.60	709,347.62	1,302,079.16	1,454,238.77	2,466,977.80	2,484,274.70
<b>Interregional effect on gross output (\$ million)</b>							
Electricals	26,234.84	145,573.16	265,645.33	387,707.26	394,951.64	397,406.75	409,530.91
Metals	27,299.60	157,612.28	180,750.23	275,577.49	276,100.73	270,520.03	260,006.72
Chemicals	17,955.62	92,299.55	128,220.52	196,691.87	187,845.14	236,392.87	243,416.71
<b>Feedback effect on gross output (\$ million)</b>							
Electricals	9,510.21	66,447.58	111,681.83	177,197.36	173,955.47	170,120.72	175,072.44
Metals	8,418.36	57,940.53	62,644.54	103,613.32	102,606.77	106,601.95	97,771.69
Chemicals	5,695.00	33,311.79	46,988.03	74,847.20	71,880.96	89,768.98	88,629.99
<b>Directly absorbed value-added exports (DAVAX) (\$ million)</b>							
Electricals	40,903.58	227,353.32	319,502.45	425,051.90	431,279.93	476,995.31	506,937.88
Textiles	32,068.58	118,118.29	141,618.49	187,120.16	177,383.38	201,749.15	240,706.67
Machinery, NEC	6,489.82	67,623.48	93,398.72	120,201.36	119,445.62	191,841.73	201,243.23
<b>Reflection (REF) (\$ million)</b>							
Electricals	563.88	5,476.96	12,454.47	22,860.72	21,127.18	21,227.03	26,168.41
Metals	290.86	2,369.00	3,151.46	5,612.65	5,523.21	10,106.05	10,824.81
Chemicals	181.54	1,589.72	2,950.06	4,163.14	4,378.50	6,566.35	7,536.35

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International Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Reexports (REX) (\$ million)</b>							
Electricals	7,691.24	45,080.57	69,476.11	94,075.55	98,404.21	92,911.14	93,410.89
Metals	4,039.22	23,088.98	21,185.92	30,655.81	33,294.40	54,602.07	49,354.57
Textiles	3,430.10	12,428.98	13,522.86	19,297.78	18,186.76	30,421.77	36,196.30
<b>Foreign value added (FVA) (\$ million)</b>							
Electricals	15,882.08	140,420.16	148,767.59	175,560.67	129,617.93	187,454.63	180,201.13
Machinery, NEC	1,328.99	21,176.89	26,414.74	31,498.44	22,526.85	46,655.29	43,470.49
Metals	2,455.94	19,421.34	21,448.43	33,244.59	24,528.15	45,710.55	40,108.26
<b>Pure double-counting (PDC) (\$ million)</b>							
Electricals	333.59	8,118.76	10,885.42	16,072.38	10,897.70	11,877.51	13,812.21
Machinery, NEC	21.13	828.49	1,258.52	1,949.11	1,321.94	2,200.71	2,437.03
Metals	35.54	589.65	683.75	1,288.14	1,003.10	1,447.67	1,541.87
<b>Trade-based GVC participation rate</b>							
Refined fuels	0.40	0.53	0.54	0.55	0.49	0.49	0.48
Water transport	0.32	0.39	0.38	0.37	0.34	0.57	0.47
Metals	0.43	0.48	0.45	0.45	0.42	0.48	0.46
<b>Production-based GVC participation rate</b>							
Metals	0.16	0.23	0.17	0.16	0.15	0.18	0.17
Electricals	0.16	0.23	0.23	0.23	0.21	0.16	0.17
Textiles	0.10	0.15	0.14	0.13	0.12	0.15	0.17
<b>Trade-based backward GVC participation rate</b>							
Electricals	0.25	0.35	0.28	0.26	0.20	0.25	0.24
Refined fuels	0.15	0.26	0.27	0.27	0.20	0.22	0.20
Metals	0.16	0.21	0.21	0.22	0.17	0.20	0.19
<b>Trade-based forward GVC participation rate</b>							
Water transport	0.22	0.26	0.25	0.26	0.27	0.47	0.39
Public administration	0.24	0.20	0.20	0.20	0.19	0.40	0.37
Transport activities, NEC	0.33	0.28	0.37	0.31	0.33	0.42	0.34
<b>Traditional revealed comparative advantage</b>							
Textiles	3.50	3.43	3.28	3.08	2.99	3.21	3.30
Leather	3.81	3.56	3.24	3.09	2.92	3.37	2.87
Manufacturing, NEC	2.26	2.02	1.30	1.73	1.71	2.76	2.54
<b>New revealed comparative advantage</b>							
Manufacturing, NEC	2.33	2.19	1.39	1.63	1.54	2.99	2.76
Textiles	3.49	3.19	3.19	2.96	2.69	2.50	2.52
Rubber and plastics	1.59	1.40	1.35	1.37	1.28	2.71	2.48
<b>Backward production length</b>							
Electricals	3.31	3.57	3.69	3.83	3.84	3.81	3.78
Transport equipment	3.28	3.64	3.68	3.79	3.81	3.75	3.67
Rubber and plastics	3.17	3.53	3.52	3.64	3.63	3.71	3.67
<b>Forward production length</b>							
Mining	4.15	4.77	4.78	4.93	4.99	4.79	4.76
Refined fuels	3.96	4.20	4.16	4.28	4.32	4.18	4.21
Utilities	3.59	4.61	4.37	4.45	4.48	4.23	4.20
<b>Backward production length of GVC segment</b>							
Health and social work	5.37	5.54	5.67	5.97	6.01	5.70	5.71
Transport equipment	5.17	5.46	5.72	5.93	5.97	5.61	5.57
Textiles	4.88	5.50	5.72	5.95	5.97	5.64	5.56
<b>Forward production length of GVC segment</b>							
Real estate	5.52	5.77	5.76	6.02	6.16	6.56	6.59
Utilities	5.66	6.55	6.46	6.62	6.72	6.21	6.24
Agriculture	4.93	5.50	5.82	6.19	6.30	6.03	6.18
<b>Backward agglomeration index</b>							
Transport equipment	-	1.61	1.52	1.59	1.60	1.89	1.80
Water transport	-	1.08	1.00	1.37	1.33	1.73	1.50
Machinery, NEC	-	1.16	1.22	1.34	1.39	1.36	1.50
<b>Forward agglomeration index</b>							
Mining	-	1.57	1.64	1.75	1.60	1.96	1.83
Transport equipment	-	1.50	1.45	1.48	1.47	1.75	1.67
Air transport	-	0.61	0.76	0.97	1.11	1.41	1.44

CIF = cost, insurance, and freight; FOB = free on board; GVC = global value chain; NEC = not elsewhere classified; NPISHs = nonprofit institutions serving households.  
Source: Calculations using the Asian Development Bank Multiregional Input-Output Table. <https://mrio.adb.org/> (accessed July 2021).

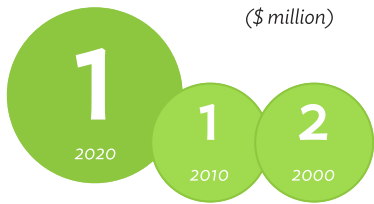
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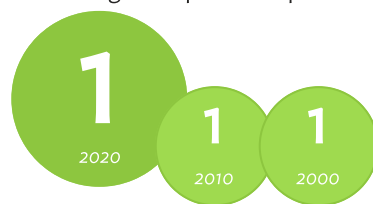
The four select sectors are chosen based on their gross outputs in the economy as of 2019.

## Economy Ranking out of 25 Economies

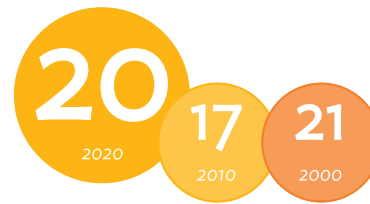
Value-Added at Basic Prices (\$ million)



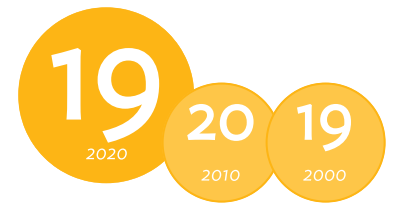
Average Output Multiplier



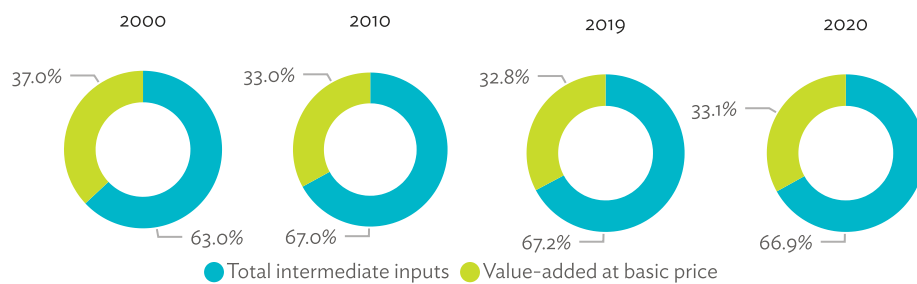
Trade Openness



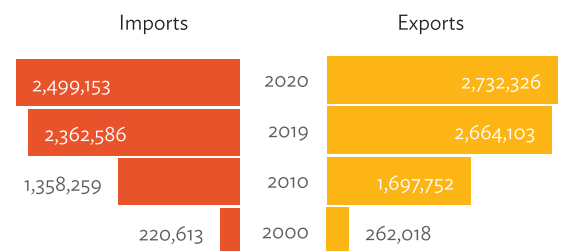
Trade-Based GVC Participation



Share of Intermediate Consumption and Gross Value-Added in Output

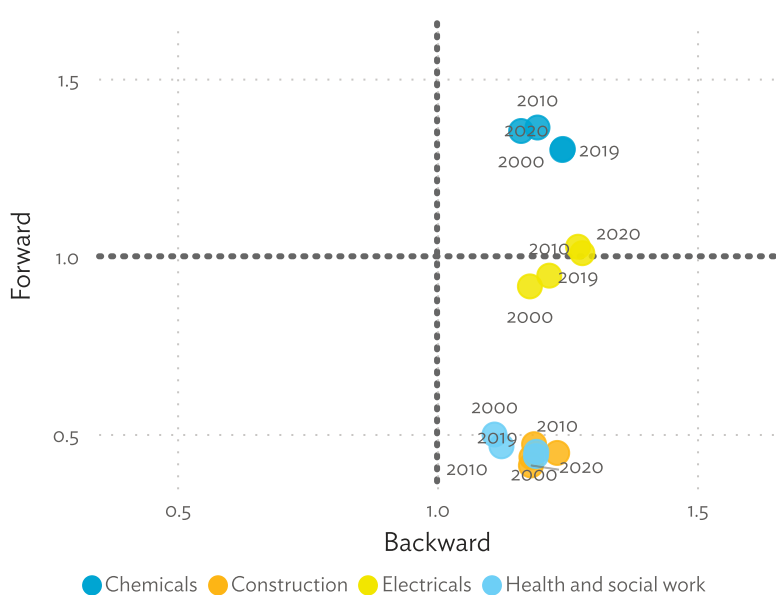


Imports and Exports, 2019-2020 (\$ million)

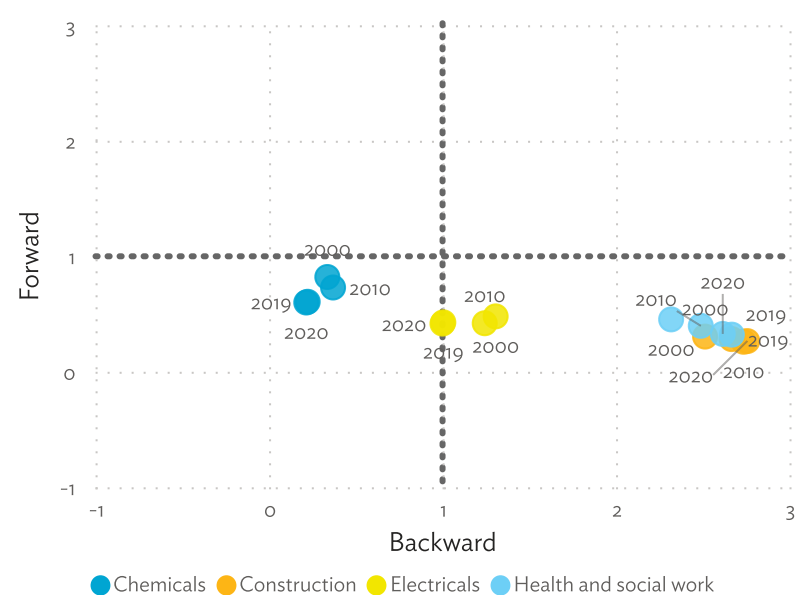


## Domestic Linkages

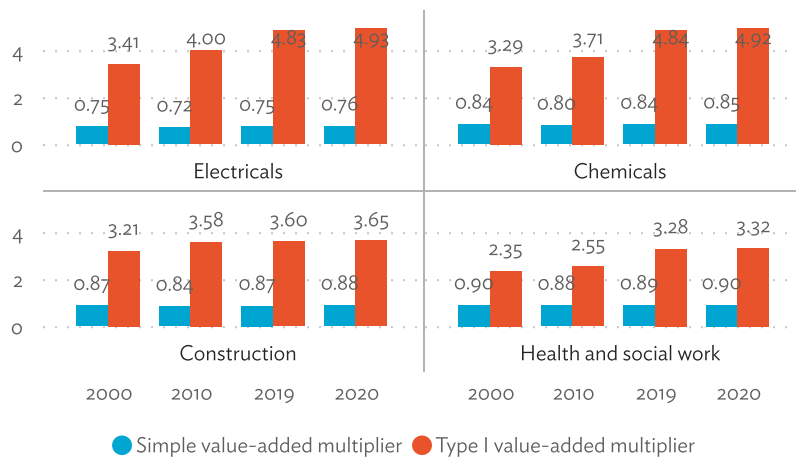
Normalized Linkages



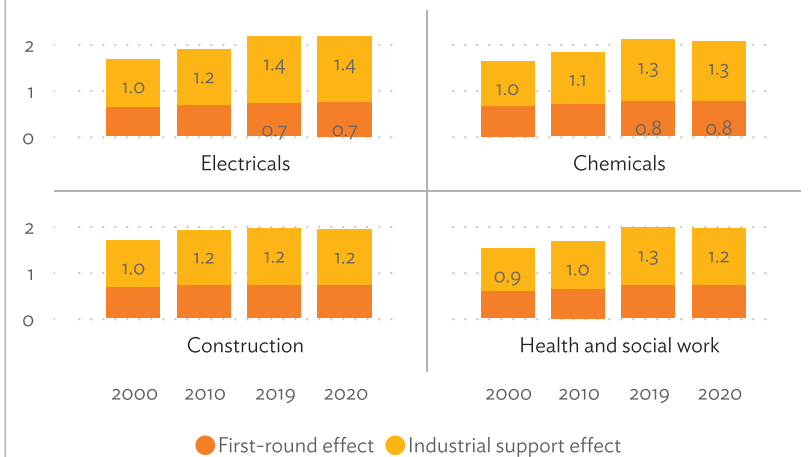
Net Linkages



Value-Added Multipliers



Production-Induced Effect

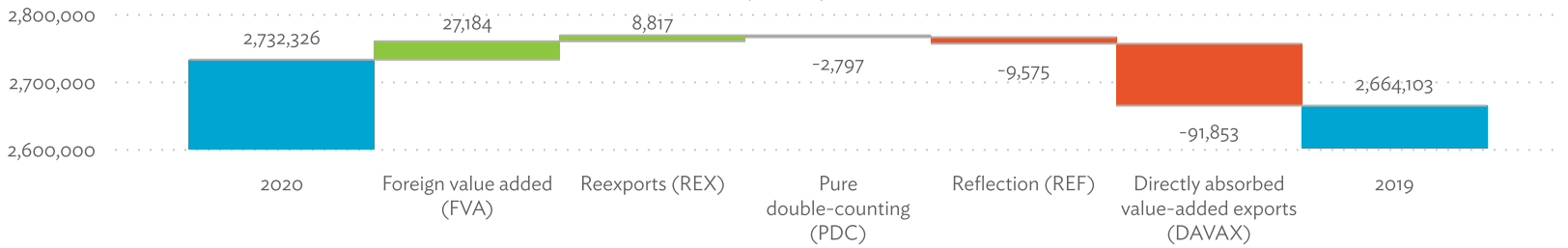


# People's Republic of China

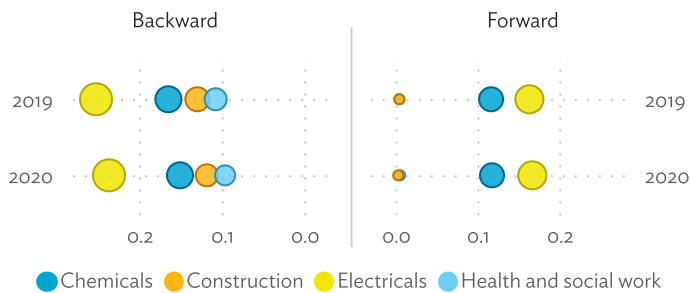
East Asia

## International Linkages

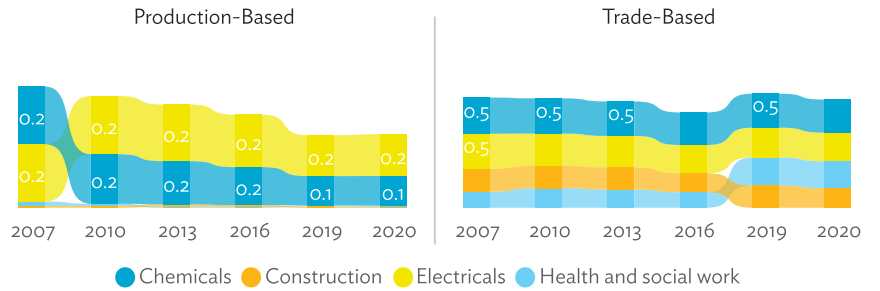
Change in Exports, by Value-Added Components, 2019-2020  
(\$ million)



### Import Multipliers



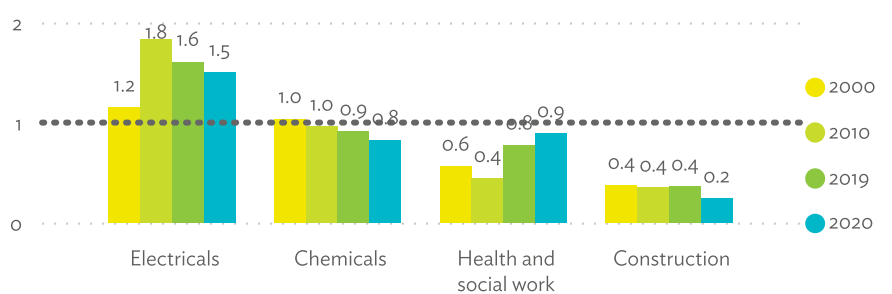
### GVC Participation Rates



### Average Production Length



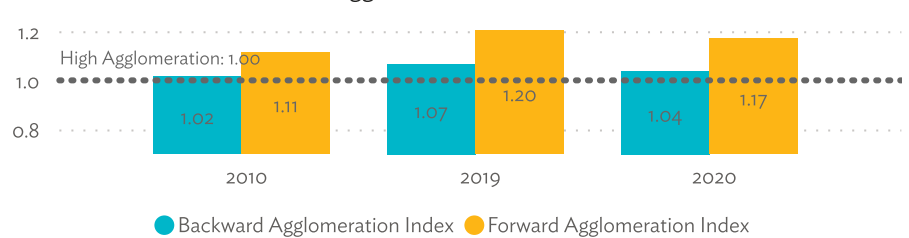
### New Revealed Comparative Advantage



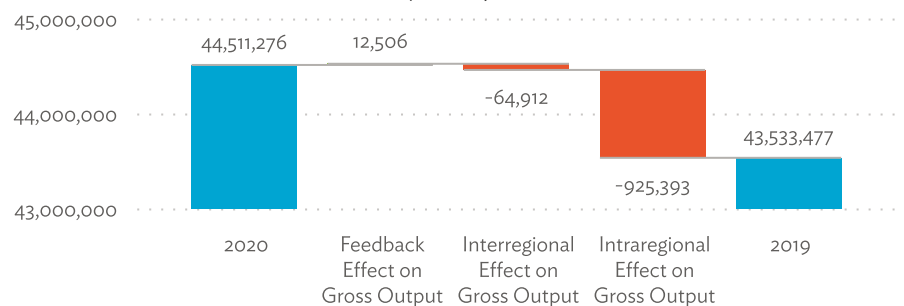
### Trade Orientation



### Agglomeration Indices



### Domestic Transfer Effects and International Spillover Effects (\$ million)



GVC = global value chain; NEC = not elsewhere classified.

Source: Calculations using the Asian Development Bank Multiregional Input-Output Table. <https://mrio.adb.online/> (accessed July 2021).