

Economic Aggregates (\$ million)	2000	2007	2010	2013	2016	2019	2020
Value-added at basic price	321,951	391,994	432,114	494,432	514,891	594,468	650,161
Gross output	682,643	937,701	1,059,650	1,193,656	1,100,377	1,291,601	1,356,572
Total intermediate inputs	350,688	528,373	607,800	676,281	581,590	692,907	698,677
Taxes less subsidies on products	2,092	2,656	3,027	3,553	3,895	4,226	4,810
International transport margins	7,912	14,678	16,709	19,390	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	156,364	181,571	197,514	230,575	219,008	260,789	272,086
Final consumption expenditure by NPISHs	1,811	2,224	2,826	2,742	2,603	0	3,232
Government final consumption expenditure	51,590	56,775	65,037	73,313	71,668	83,881	92,194
Gross fixed capital formation	55,250	66,755	72,323	88,187	82,749	90,849	108,571
Changes in inventories	1,035	-130	2,989	-1,638	444	-2,356	-168
Total final demand	266,050	307,195	340,689	393,180	376,471	433,163	475,915
Exports	171,251	283,077	315,574	354,668	336,477	388,731	388,430
Imports	153,848	232,881	263,832	286,211	253,096	326,408	299,929

Economic Aggregates, Top 3 Sectors (\$ million)	2000	2007	2010	2013	2016	2019	2020
<b>Value-added at basic price</b>							
Electricals	29,429	52,585	59,841	72,247	81,874	94,515	105,180
Wholesale trade	30,092	39,625	45,008	52,225	51,449	55,503	58,066
Real estate	27,791	33,203	37,570	43,275	43,890	50,324	54,872
<b>Gross output</b>							
Electricals	107,039	167,433	194,508	210,579	205,857	252,578	291,721
Metals	41,653	76,737	89,611	91,950	73,120	89,496	89,319
Chemicals	31,353	74,059	91,686	100,093	74,927	81,343	75,293
<b>Total intermediate inputs</b>							
Electricals	74,495	110,659	129,853	133,247	123,730	157,761	165,252
Metals	29,526	61,438	72,596	74,352	58,278	68,600	66,518
Chemicals	23,265	62,216	75,528	85,820	59,807	63,279	55,314
<b>Total final demand</b>							
Real estate	29,275	33,443	38,675	45,870	44,081	53,694	58,829
Construction	29,510	34,801	35,604	40,749	36,177	44,250	51,344
Public administration	37,131	36,619	39,742	42,570	42,243	44,553	48,877
<b>Exports</b>							
Electricals	77,016	118,726	134,799	143,139	142,265	205,091	196,852
Chemicals	9,874	28,422	34,858	38,112	29,882	34,373	39,520
Metals	12,833	25,320	26,473	27,175	24,373	29,817	31,540
<b>Imports</b>							
Electricals	49,968	56,710	59,911	68,131	61,983	83,231	80,765
Mining	9,558	29,379	36,972	46,826	25,791	35,174	34,156
Chemicals	15,092	26,948	31,902	27,827	27,155	27,093	25,345

## Domestic Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>First-round effect</b>							
Manufacturing, NEC	0.51	0.53	0.54	0.55	0.53	0.55	0.56
Water transport	0.63	0.56	0.58	0.56	0.55	0.51	0.56
Paper	0.54	0.53	0.53	0.54	0.53	0.56	0.55
<b>Industrial support effect</b>							
Metals	0.37	0.44	0.50	0.50	0.41	0.39	0.41
Textiles	0.38	0.51	0.56	0.52	0.43	0.50	0.41
Manufacturing, NEC	0.36	0.41	0.44	0.45	0.38	0.37	0.39
<b>Production-induced effect</b>							
Textiles	0.90	1.08	1.17	1.10	0.98	1.09	0.96
Metals	0.88	0.97	1.06	1.07	0.94	0.91	0.95
Manufacturing, NEC	0.87	0.94	0.99	1.00	0.91	0.92	0.95

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Simple value-added multiplier</b>							
Real estate	0.97	0.96	0.95	0.95	0.96	0.95	0.96
Finance	0.96	0.94	0.93	0.93	0.93	0.93	0.96
Education	0.94	0.92	0.92	0.92	0.93	0.93	0.94
<b>Type I value-added multiplier</b>							
Water transport	3.07	3.66	4.24	6.21	11.35	3.52	3.21
Manufacturing, NEC	2.23	2.31	2.36	2.40	2.27	2.47	2.59
Metals	2.23	2.48	2.60	2.63	2.50	2.40	2.50
<b>Direct backward linkage</b>							
Manufacturing, NEC	0.51	0.53	0.54	0.55	0.53	0.55	0.56
Water transport	0.63	0.56	0.58	0.56	0.55	0.51	0.56
Paper	0.54	0.53	0.53	0.54	0.53	0.56	0.55
<b>Complete hypothetical extraction (backward)</b>							
Manufacturing, NEC	1.73	1.85	1.88	1.89	1.79	1.92	1.83
Construction	1.86	1.86	1.86	1.85	1.78	1.81	1.81
Water transport	1.54	1.61	1.62	1.68	1.71	1.19	1.76
<b>Partial hypothetical extraction (backward)</b>							
Manufacturing, NEC	0.80	0.90	0.93	0.94	0.85	0.92	0.89
Construction	0.86	0.87	0.87	0.86	0.79	0.81	0.82
Water transport	0.78	0.71	0.74	0.74	0.72	0.56	0.79
<b>Total backward linkage</b>							
Textiles	1.90	2.08	2.17	2.10	1.98	2.09	1.96
Metals	1.88	1.97	2.06	2.07	1.94	1.91	1.95
Manufacturing, NEC	1.87	1.94	1.99	2.00	1.91	1.92	1.95
<b>Direct forward linkage</b>							
Mining	0.99	0.95	0.91	0.94	0.63	0.52	0.92
Wood	0.60	0.75	0.78	0.82	0.79	0.89	0.82
Utilities	0.79	0.82	0.82	0.82	0.81	0.82	0.81
<b>Complete hypothetical extraction (forward)</b>							
Mining	3.36	3.07	3.06	3.03	2.35	2.18	2.96
Utilities	2.14	2.20	2.23	2.22	2.17	2.12	2.13
Transport activities, NEC	2.19	1.82	1.86	1.82	1.74	1.88	1.93
<b>Partial hypothetical extraction (forward)</b>							
Mining	2.37	2.08	2.07	2.04	1.35	1.18	1.96
Utilities	1.26	1.32	1.34	1.33	1.28	1.25	1.26
Wood	0.78	0.97	1.04	1.08	1.02	1.16	1.05
<b>Total forward linkage</b>							
Mining	3.42	3.09	3.08	3.04	2.36	2.18	2.96
Utilities	2.42	2.50	2.52	2.49	2.43	2.44	2.44
Wood	1.88	2.14	2.22	2.28	2.21	2.38	2.24
<b>Normalized backward linkage</b>							
Textiles	1.18	1.29	1.34	1.28	1.24	1.31	1.22
Metals	1.17	1.22	1.27	1.26	1.22	1.20	1.22
Manufacturing, NEC	1.16	1.20	1.22	1.22	1.20	1.20	1.22
<b>Normalized forward linkage</b>							
Mining	2.02	1.86	1.85	1.83	1.46	1.32	1.79
Utilities	1.43	1.51	1.51	1.50	1.50	1.47	1.47
Wood	1.11	1.29	1.34	1.37	1.36	1.44	1.35
<b>Net backward linkage</b>							
Water transport	1.35	1.57	1.58	1.66	1.70	1.05	1.76
Manufacturing, NEC	1.61	1.73	1.73	1.73	1.62	1.92	1.68
Construction	1.67	1.65	1.60	1.60	1.55	1.50	1.53
<b>Net forward linkage</b>							
Mining	2.28	1.90	1.93	1.69	1.40	1.31	1.80
Finance	1.44	1.32	1.28	1.27	1.27	1.30	1.34
Wholesale trade	1.13	1.10	1.12	1.09	1.03	1.37	1.29

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Self-sufficiency ratio</b>							
Electricals	1.34	1.59	1.63	1.55	1.64	1.93	1.66
Water transport	2.05	4.58	3.91	6.07	12.09	1.82	1.47
Rubber and plastics	1.33	1.31	1.27	1.28	1.29	1.24	1.35
<b>Import-to-input ratio</b>							
Refined fuels	0.47	0.61	0.65	0.68	0.60	0.65	0.55
Utilities	0.16	0.37	0.42	0.44	0.38	0.40	0.34
Water transport	0.13	0.29	0.30	0.37	0.41	0.41	0.27
<b>Export-to-output ratio</b>							
Electricals	0.72	0.71	0.69	0.68	0.69	0.81	0.67
Manufacturing, NEC	0.54	0.63	0.61	0.60	0.62	1.00	0.67
Leather	0.48	0.31	0.85	0.31	0.31	0.59	0.54
<b>Domestic inputs share to output</b>							
Sale of motor vehicles	0.42	0.40	0.38	0.38	0.39	0.18	0.59
Metals	0.51	0.53	0.56	0.57	0.53	0.53	0.53
Manufacturing, NEC	0.51	0.53	0.54	0.55	0.53	0.55	0.51
<b>Foreign inputs share to output</b>							
Refined fuels	0.47	0.61	0.65	0.68	0.60	0.65	0.55
Utilities	0.16	0.37	0.42	0.44	0.38	0.40	0.34
Water transport	0.13	0.29	0.30	0.37	0.41	0.41	0.27
<b>Backward import multipliers</b>							
Refined fuels	0.53	0.68	0.73	0.75	0.65	0.75	0.69
Water transport	0.26	0.48	0.51	0.56	0.55	0.71	0.58
Utilities	0.26	0.53	0.54	0.56	0.47	0.52	0.48
<b>Forward import multipliers</b>							
Mining	0.31	0.56	0.56	0.53	0.38	0.61	0.81
Electricals	0.51	0.69	0.65	0.71	0.75	0.78	0.76
Chemicals	0.62	0.76	0.76	0.76	0.76	0.72	0.66
<b>Intraregional transfer multiplier</b>							
Water transport	2.01	1.79	1.84	1.78	1.73	1.89	2.38
Agriculture	1.75	1.75	1.73	1.79	1.64	1.61	2.26
Textiles	1.90	2.08	2.17	2.10	1.98	2.09	2.25
<b>Interregional spillover multiplier</b>							
Refined fuels	1.67	2.00	2.09	2.12	2.09	2.15	1.96
Utilities	1.23	1.60	1.69	1.73	1.69	1.71	1.59
Wood	1.51	1.56	1.54	1.56	1.57	1.55	1.49
<b>Interregional feedback multiplier</b>							
Refined fuels	1.13	1.24	1.17	1.22	1.22	1.17	1.14
Electricals	1.21	1.20	1.19	1.20	1.17	1.17	1.12
Water transport	1.04	1.11	1.13	1.20	1.22	1.15	1.11
<b>Intraregional effect on gross output (\$ million)</b>							
Electricals	52,721.48	52,708.83	67,605.11	62,073.62	52,063.92	55,377.67	67,891.95
Real estate	35,110.93	40,072.70	45,322.79	53,457.71	51,636.87	62,593.59	67,629.54
Construction	32,476.21	38,561.07	40,452.25	46,254.74	40,618.51	52,121.35	62,795.03
<b>Interregional effect on gross output (\$ million)</b>							
Electricals	40,336.36	82,955.16	91,933.67	107,254.04	113,442.88	155,204.58	171,422.85
Chemicals	15,676.59	43,485.97	54,448.12	59,463.79	44,361.63	47,064.88	45,103.68
Metals	15,981.21	35,236.75	40,428.24	40,317.10	32,207.86	40,263.77	37,759.25
<b>Feedback effect on gross output (\$ million)</b>							
Electricals	13,980.68	31,769.15	34,968.78	41,250.94	40,349.69	41,995.47	44,145.70
Metals	3,719.68	10,152.01	11,280.77	11,865.54	10,334.23	13,035.50	11,126.00
Chemicals	3,827.64	12,638.01	15,218.95	16,691.91	12,453.96	11,606.91	10,834.49
<b>Directly absorbed value-added exports (DAVAX) (\$ million)</b>							
Electricals	28,865.30	38,334.23	47,322.40	50,610.31	53,449.53	81,522.85	92,897.80
Chemicals	3,748.28	6,905.26	9,289.84	9,229.37	9,243.00	11,834.37	12,359.66
Machinery, NEC	6,792.06	9,082.86	9,553.55	10,950.93	11,125.57	11,334.44	10,854.06
<b>Reflection (REF) (\$ million)</b>							
Electricals	260.33	349.90	363.37	401.67	412.45	458.08	744.14
Metals	45.68	52.28	52.56	45.25	41.55	73.81	75.80
Chemicals	32.08	50.94	59.20	47.89	49.41	43.76	58.26

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Reexports (REX) (\$ million)</b>							
Electricals	10,694.37	27,459.07	27,670.91	31,686.74	33,010.94	45,552.78	47,827.21
Metals	2,089.41	4,211.64	4,196.42	4,432.87	4,348.90	6,380.75	5,861.94
Chemicals	1,688.80	4,471.71	4,972.35	4,570.29	4,396.41	4,807.89	4,906.50
<b>Foreign value added (FVA) (\$ million)</b>							
Electricals	36,415.68	51,321.11	58,117.63	59,070.92	54,092.26	76,453.94	70,891.94
Chemicals	4,377.41	16,863.83	20,393.00	24,110.01	16,089.67	17,626.05	15,065.33
Metals	4,478.59	12,716.26	13,344.00	13,428.17	11,928.91	13,043.95	10,420.79
<b>Pure double-counting (PDC) (\$ million)</b>							
Electricals	780.27	1,262.03	1,324.39	1,369.09	1,299.58	1,103.32	1,621.32
Machinery, NEC	41.54	93.23	90.55	97.14	99.63	61.58	67.97
Chemicals	27.76	130.66	143.49	154.82	103.61	61.41	64.37
<b>Trade-based GVC participation rate</b>							
Refined fuels	0.67	0.82	0.86	0.87	0.83	0.82	0.79
Water transport	0.45	0.70	0.71	0.75	0.74	0.87	0.78
Textiles	0.52	0.61	0.61	0.60	0.58	0.66	0.64
<b>Production-based GVC participation rate</b>							
Mining	0.31	0.56	0.56	0.53	0.38	0.61	0.81
Electricals	0.51	0.69	0.65	0.71	0.75	0.78	0.76
Chemicals	0.62	0.76	0.76	0.76	0.76	0.72	0.66
<b>Trade-based backward GVC participation rate</b>							
Refined fuels	0.53	0.68	0.73	0.75	0.65	0.75	0.69
Water transport	0.26	0.48	0.51	0.56	0.55	0.71	0.58
Utilities	0.26	0.53	0.54	0.56	0.47	0.52	0.48
<b>Trade-based forward GVC participation rate</b>							
Transport activities, NEC	0.34	0.32	0.40	0.30	0.26	0.42	0.36
Textiles	0.20	0.19	0.21	0.20	0.21	0.30	0.33
Finance	0.22	0.22	0.22	0.21	0.20	0.29	0.26
<b>Traditional revealed comparative advantage</b>							
Electricals	2.77	3.09	3.19	3.22	3.40	4.31	4.21
Air transport	0.76	1.13	1.17	1.28	1.31	1.52	1.90
Water transport	0.90	1.12	1.00	1.11	1.20	1.37	1.51
<b>New revealed comparative advantage</b>							
Electricals	3.09	4.84	4.97	5.43	5.52	5.81	5.67
Air transport	0.61	0.75	1.09	0.91	1.07	1.12	1.38
Metals	1.38	1.20	1.35	1.28	1.10	1.49	1.32
<b>Backward production length</b>							
Water transport	2.52	2.83	2.90	3.06	2.98	3.47	3.72
Chemicals	2.85	3.54	3.50	3.75	3.42	3.16	3.19
Textiles	2.65	3.16	3.19	3.16	2.96	2.96	3.05
<b>Forward production length</b>							
Mining	4.13	4.55	4.56	4.49	3.40	3.98	4.17
Chemicals	3.75	4.27	4.34	4.43	4.36	4.10	4.03
Water transport	2.72	3.27	3.34	3.22	3.18	3.94	4.03
<b>Backward production length of GVC segment</b>							
Real estate	4.46	4.75	4.73	4.81	4.71	4.53	4.85
Leather	4.31	4.77	4.11	4.92	4.73	4.46	4.77
Hotels and restaurants	4.28	4.48	4.44	4.68	4.48	4.35	4.76
<b>Forward production length of GVC segment</b>							
Utilities	5.05	5.43	5.49	5.55	5.51	5.44	5.63
Real estate	5.03	5.31	5.30	5.29	5.22	5.49	5.61
Refined fuels	5.02	4.55	4.65	4.57	4.66	5.24	5.33
<b>Backward agglomeration index</b>							
Textiles	-	0.39	0.81	0.64	0.55	1.25	1.34
Leather	-	1.13	0.11	1.11	1.03	1.00	1.29
Rubber and plastics	-	0.32	0.49	0.52	0.63	0.43	1.10
<b>Forward agglomeration index</b>							
Agriculture	-	1.10	1.03	1.05	1.02	1.11	1.15
Food and beverages	-	1.11	1.07	1.05	1.03	1.01	1.05
Education	-	1.03	1.02	1.02	1.02	1.02	1.01

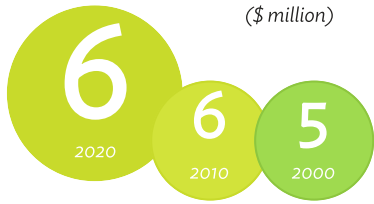
# Taipei, China

## East Asia

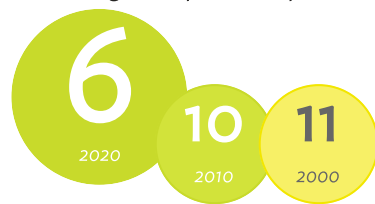
The four select sectors are chosen based on their gross outputs in the economy as of 2019.

### Economy Ranking out of 25 Economies

Value-Added at Basic Prices  
(\$ million)



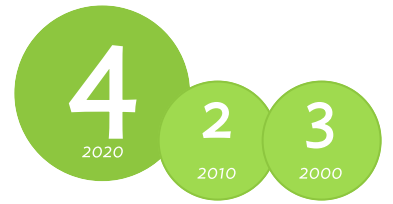
Average Output Multiplier



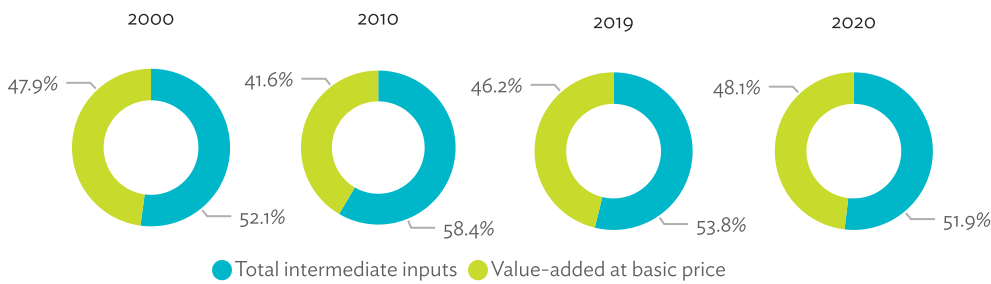
Trade Openness



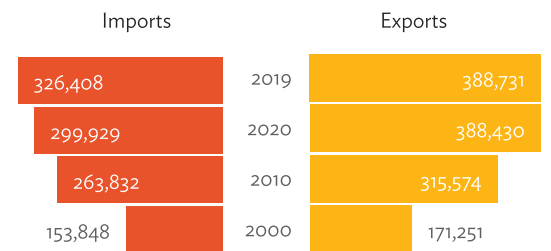
Trade-Based GVC Participation



Share of Intermediate Consumption and Gross Value-Added in Output

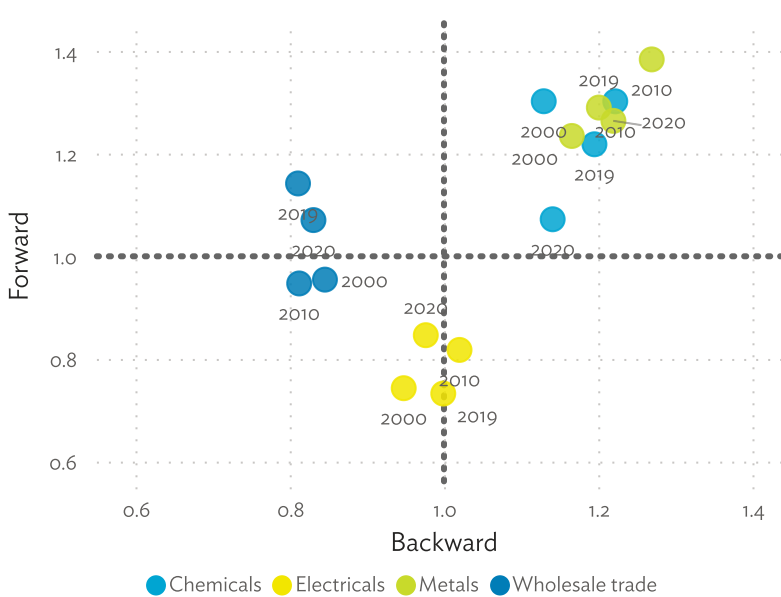


Imports and Exports, 2019-2020  
(\$ million)

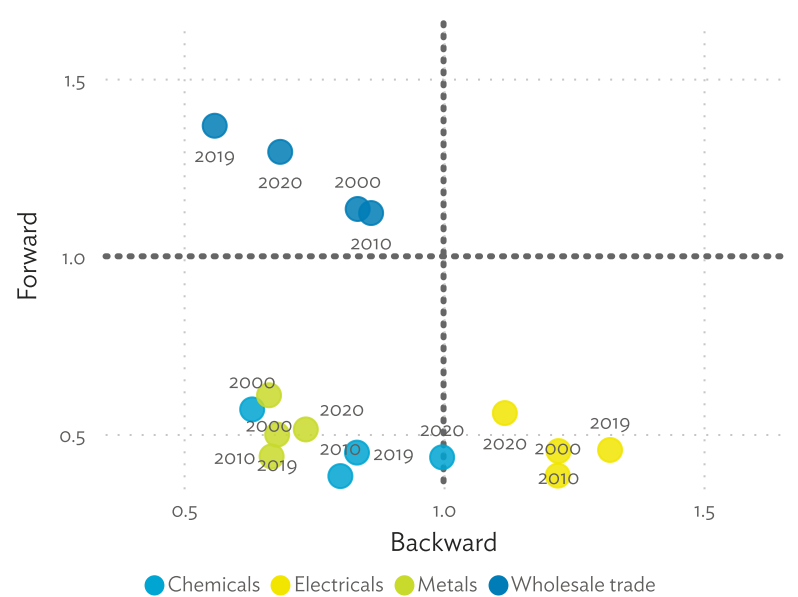


### Domestic Linkages

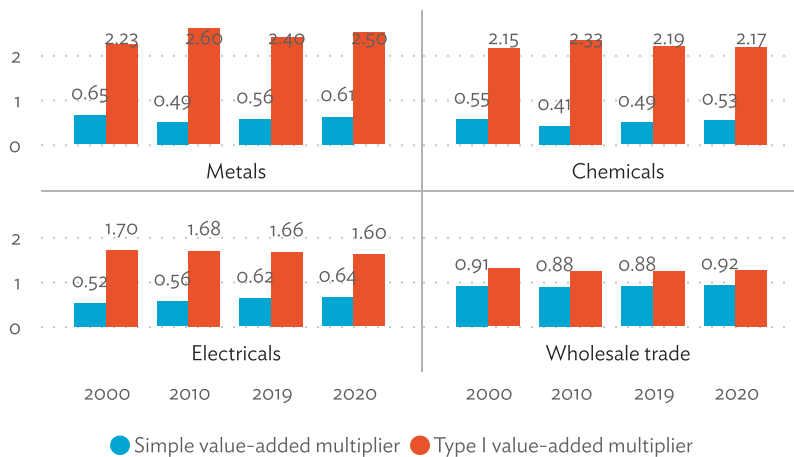
Normalized Linkages



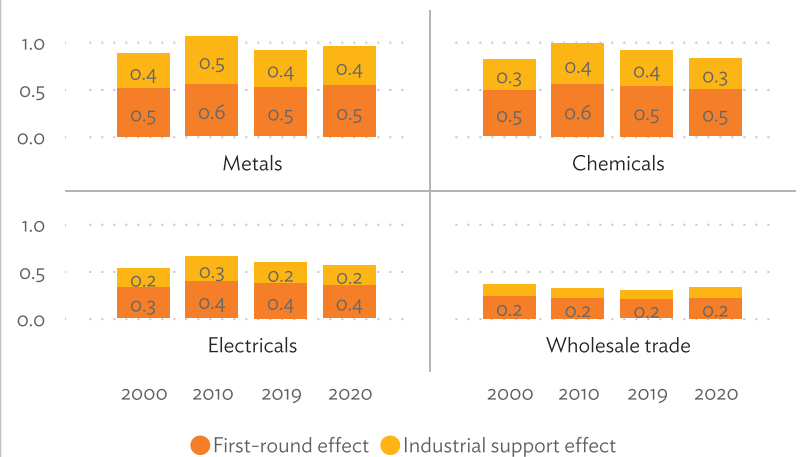
Net Linkages



Value-Added Multipliers

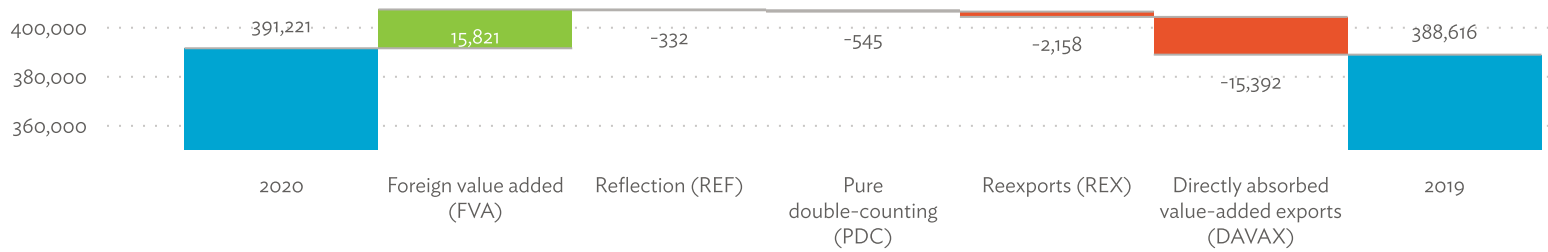


Production-Induced Effect

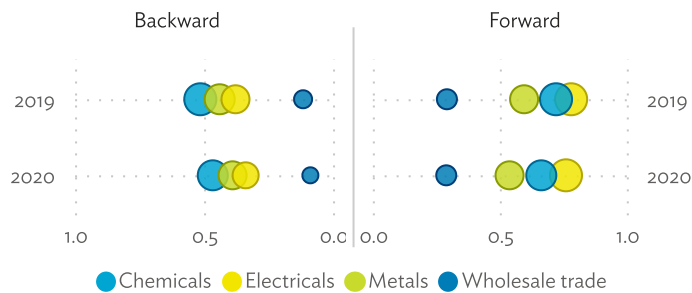


## International Linkages

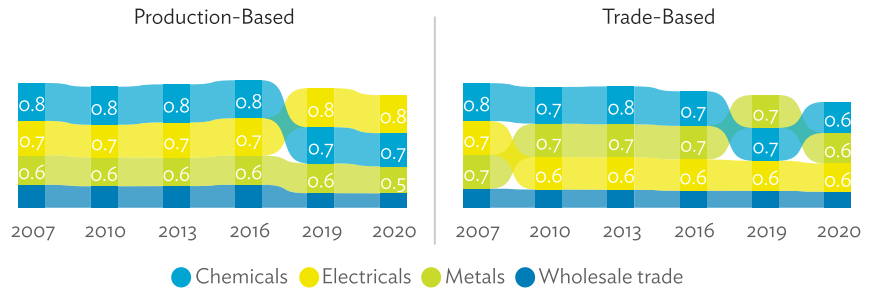
Change in Exports, by Value-Added Components, 2019-2020  
(\$ million)



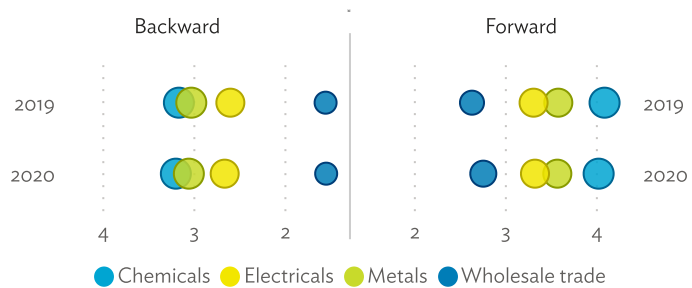
Import Multipliers



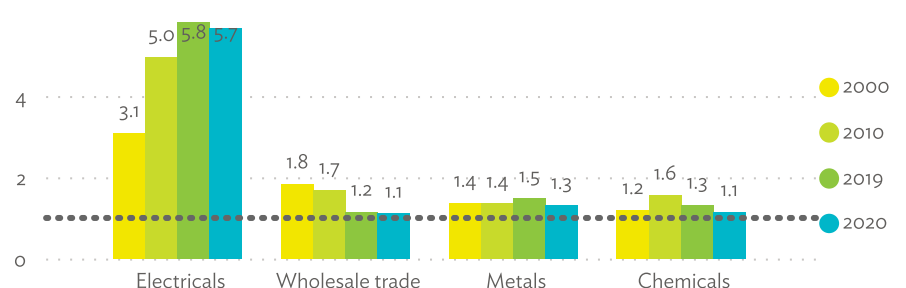
GVC Participation Rates



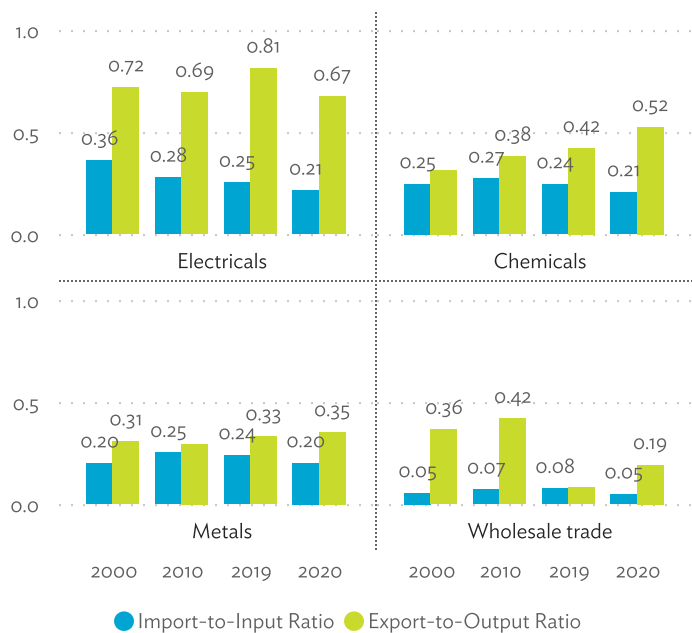
Average Production Length



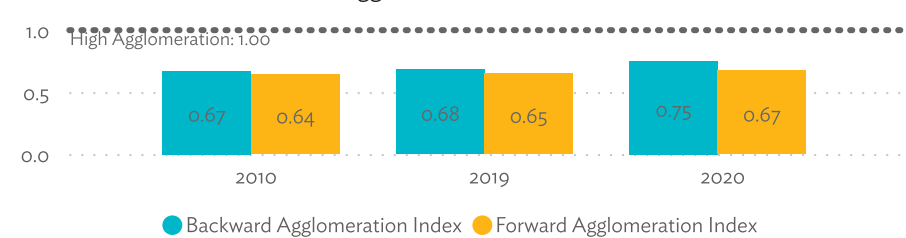
New Revealed Comparative Advantage



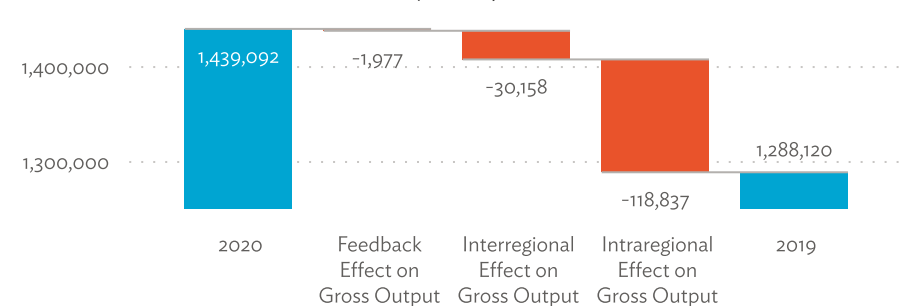
Trade Orientation



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).