

# Thailand

## Southeast Asia and the Pacific

## Basic Economic Indicators

Economic Aggregates (\$ million)	2000	2007	2010	2013	2016	2019	2020
Value-added at basic price	112,386	241,187	303,725	397,580	402,436	493,739	451,375
Gross output	287,499	710,145	908,025	1,030,490	1,041,300	1,270,191	1,130,804
Total intermediate inputs	168,139	455,866	586,257	612,657	611,863	741,484	645,905
Taxes less subsidies on products	6,975	13,093	18,043	20,253	27,001	34,969	33,524
International transport margins	0	0	0	0	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	63,366	136,618	166,911	208,298	200,633	210,979	209,926
Final consumption expenditure by NPISHs	1	2	3	4	4	4	4
Government final consumption expenditure	18,292	40,825	55,857	69,155	69,871	89,088	90,145
Gross fixed capital formation	21,683	59,302	68,352	77,922	76,366	90,984	87,899
Changes in inventories	610	216	3,671	2,753	-21,057	10,788	6,564
Total final demand	103,952	236,964	294,793	358,131	325,817	401,844	394,538
Exports	55,962	121,118	152,231	213,641	219,491	323,769	258,073
Imports	54,968	132,271	158,942	203,040	152,615	272,917	233,333

Economic Aggregates, Top 3 Sectors (\$ million)	2000	2007	2010	2013	2016	2019	2020
<b>Value-added at basic price</b>							
Wholesale trade	12,187	22,054	28,711	37,081	40,390	52,925	50,636
Retail trade	9,902	17,919	23,327	30,128	32,816	43,002	41,142
Agriculture	8,478	20,406	29,786	40,537	30,368	37,192	36,528
<b>Gross output</b>							
Metals	30,133	131,106	137,243	143,867	138,309	155,707	140,128
Hotels and restaurants	15,079	25,438	32,360	43,453	90,976	140,767	85,504
Wholesale trade	22,345	38,813	52,568	61,583	67,540	87,702	82,976
<b>Total intermediate inputs</b>							
Metals	20,079	106,767	112,389	115,251	110,577	124,393	111,444
Food and beverages	22,549	37,019	62,941	65,457	62,629	65,491	58,522
Hotels and restaurants	8,903	15,218	19,744	24,664	51,134	79,407	47,479
<b>Total final demand</b>							
Hotels and restaurants	10,756	21,003	24,383	30,955	61,338	87,945	58,815
Public administration	10,219	21,143	28,633	36,124	35,716	41,658	42,947
Construction	9,591	26,066	33,713	30,395	31,524	31,741	33,373
<b>Exports</b>							
Food and beverages	7,510	9,068	15,291	21,743	20,568	37,553	35,953
Transport equipment	1,767	14,414	16,465	13,834	16,704	38,304	34,803
Agriculture	986	2,881	4,726	11,003	8,349	18,291	28,230
<b>Imports</b>							
Metals	14,671	47,907	57,466	70,143	50,495	80,174	69,605
Mining	2,957	9,891	10,305	34,472	22,869	46,411	39,949
Water transport	8,309	18,682	20,109	21,582	16,140	25,117	26,593

## Domestic Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>First-round effect</b>							
Food and beverages	0.68	0.68	0.70	0.72	0.74	0.71	0.71
Sale of motor vehicles	0.63	0.61	0.62	0.59	0.62	0.58	0.59
Textiles	0.38	0.55	0.56	0.58	0.60	0.58	0.58
<b>Industrial support effect</b>							
Food and beverages	0.50	0.54	0.61	0.52	0.59	0.44	0.46
Metals	0.32	0.57	0.60	0.45	0.59	0.40	0.42
Textiles	0.30	0.56	0.61	0.50	0.59	0.42	0.41
<b>Production-induced effect</b>							
Food and beverages	1.19	1.23	1.31	1.24	1.33	1.15	1.17
Textiles	0.68	1.12	1.17	1.08	1.19	1.00	0.99
Sale of motor vehicles	1.10	1.13	1.19	1.00	1.10	0.95	0.95

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## Southeast Asia and the Pacific

## Domestic Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Simple value-added multiplier</b>							
Finance	0.92	0.92	0.91	0.93	0.94	0.93	0.93
Real estate	0.95	0.92	0.91	0.92	0.93	0.89	0.90
Public administration	0.87	0.88	0.87	0.89	0.91	0.89	0.90
<b>Type I value-added multiplier</b>							
Food and beverages	4.55	4.04	4.27	4.33	4.40	4.11	4.02
Chemicals	3.24	3.21	3.28	2.82	3.10	2.95	2.96
Mining	3.38	3.21	3.33	3.14	3.27	2.83	2.85
<b>Direct backward linkage</b>							
Food and beverages	0.68	0.68	0.70	0.72	0.74	0.71	0.71
Sale of motor vehicles	0.63	0.61	0.62	0.59	0.62	0.58	0.59
Textiles	0.38	0.55	0.56	0.58	0.60	0.58	0.58
<b>Complete hypothetical extraction (backward)</b>							
Sale of motor vehicles	2.09	2.13	2.19	2.00	2.10	1.95	1.95
Air transport	1.80	1.75	1.86	1.78	1.94	1.92	1.93
Electricals	1.86	1.89	1.92	1.83	1.95	1.91	1.91
<b>Partial hypothetical extraction (backward)</b>							
Food and beverages	0.97	1.02	1.04	1.01	1.06	1.01	1.02
Sale of motor vehicles	1.10	1.13	1.19	1.00	1.10	0.95	0.95
Air transport	0.99	0.95	1.03	0.92	1.06	0.92	0.93
<b>Total backward linkage</b>							
Food and beverages	2.19	2.23	2.31	2.24	2.33	2.15	2.17
Textiles	1.68	2.12	2.17	2.08	2.19	2.00	1.99
Sale of motor vehicles	2.10	2.13	2.19	2.00	2.10	1.95	1.95
<b>Direct forward linkage</b>							
Mining	0.91	0.98	0.99	0.97	0.96	0.91	0.89
Business activities, NEC	0.91	0.93	0.91	0.84	0.85	0.70	0.84
Utilities	0.84	0.85	0.86	0.79	0.87	0.87	0.80
<b>Complete hypothetical extraction (forward)</b>							
Mining	2.83	3.24	3.35	2.83	3.13	2.55	2.55
Business activities, NEC	2.48	2.53	2.56	2.32	2.41	2.02	2.20
Finance	2.52	2.55	2.55	2.12	2.29	2.20	2.14
<b>Partial hypothetical extraction (forward)</b>							
Mining	1.85	2.26	2.37	1.85	2.14	1.56	1.55
Business activities, NEC	1.58	1.69	1.72	1.45	1.53	1.11	1.32
Finance	1.56	1.60	1.60	1.18	1.36	1.26	1.21
<b>Total forward linkage</b>							
Mining	2.88	3.29	3.42	2.89	3.19	2.57	2.57
Business activities, NEC	2.75	2.99	3.02	2.66	2.75	2.23	2.49
Utilities	2.49	2.68	2.75	2.40	2.60	2.45	2.35
<b>Normalized backward linkage</b>							
Food and beverages	1.23	1.15	1.16	1.26	1.24	1.26	1.27
Textiles	0.94	1.09	1.09	1.17	1.17	1.17	1.17
Sale of motor vehicles	1.18	1.10	1.10	1.13	1.12	1.14	1.14
<b>Normalized forward linkage</b>							
Mining	1.56	1.64	1.65	1.59	1.63	1.61	1.61
Business activities, NEC	1.48	1.48	1.46	1.46	1.40	1.39	1.56
Utilities	1.35	1.33	1.33	1.31	1.33	1.53	1.47
<b>Net backward linkage</b>							
Electricals	1.08	0.84	0.61	0.67	0.61	1.90	1.91
Air transport	0.79	0.70	0.74	0.92	0.93	1.91	1.90
Machinery, NEC	0.68	0.68	0.60	0.74	0.76	1.84	1.86
<b>Net forward linkage</b>							
Finance	1.85	1.91	1.85	1.62	1.77	1.67	1.65
Wholesale trade	1.08	1.23	1.20	1.10	1.16	1.33	1.33
Retail trade	1.14	1.35	1.32	1.27	1.38	1.34	1.29

# Thailand

## Southeast Asia and the Pacific

## International Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Self-sufficiency ratio</b>							
Wood	1.42	1.29	1.24	1.39	1.37	1.79	3.80
Chemicals	0.99	0.99	1.04	0.96	0.94	2.01	2.23
Manufacturing, NEC	1.16	1.05	1.05	1.02	1.05	1.99	2.08
<b>Import-to-input ratio</b>							
Refined fuels	0.25	0.22	0.21	0.50	0.38	0.59	0.57
Minerals, NEC	0.27	0.23	0.22	0.40	0.31	0.45	0.43
Metals	0.24	0.27	0.26	0.28	0.22	0.30	0.29
<b>Export-to-output ratio</b>							
Machinery, NEC	0.34	0.31	0.27	0.36	0.34	0.99	1.00
Electricals	0.43	0.25	0.15	0.16	0.15	0.99	1.00
Leather	0.49	0.17	0.19	0.19	0.21	0.84	0.92
<b>Domestic inputs share to output</b>							
Food and beverages	0.68	0.68	0.70	0.72	0.74	0.71	0.71
Sale of motor vehicles	0.63	0.61	0.62	0.59	0.62	0.58	0.59
Textiles	0.38	0.55	0.56	0.58	0.60	0.58	0.58
<b>Foreign inputs share to output</b>							
Refined fuels	0.25	0.22	0.21	0.50	0.38	0.59	0.57
Minerals, NEC	0.27	0.23	0.22	0.40	0.31	0.45	0.43
Metals	0.24	0.27	0.26	0.28	0.22	0.30	0.29
<b>Backward import multipliers</b>							
Refined fuels	0.47	0.52	0.46	0.69	0.61	0.75	0.75
Minerals, NEC	0.43	0.42	0.42	0.58	0.48	0.63	0.60
Metals	0.37	0.49	0.48	0.48	0.40	0.52	0.49
<b>Forward import multipliers</b>							
Wood	0.55	0.47	0.42	0.51	0.51	0.67	0.85
Chemicals	0.40	0.33	0.33	0.44	0.42	0.84	0.83
Water transport	0.28	0.30	0.27	0.31	0.33	0.81	0.60
<b>Intraregional transfer multiplier</b>							
Food and beverages	2.19	2.23	2.31	2.24	2.33	2.15	2.17
Textiles	1.68	2.12	2.17	2.08	2.19	2.00	1.99
Sale of motor vehicles	2.10	2.13	2.19	2.00	2.10	1.95	1.95
<b>Interregional spillover multiplier</b>							
Refined fuels	1.38	1.37	1.38	1.94	1.73	2.06	2.07
Minerals, NEC	1.41	1.38	1.37	1.75	1.60	1.81	1.81
Metals	1.46	1.55	1.56	1.60	1.48	1.67	1.66
<b>Interregional feedback multiplier</b>							
Refined fuels	1.09	1.10	1.09	1.19	1.15	1.16	1.17
Metals	1.10	1.16	1.16	1.18	1.13	1.17	1.16
Minerals, NEC	1.10	1.10	1.10	1.16	1.13	1.14	1.15
<b>Intraregional effect on gross output (\$ million)</b>							
Metals	18,486.16	70,814.52	77,733.71	78,280.99	73,598.16	114,365.79	104,427.81
Hotels and restaurants	14,305.94	24,577.41	30,813.80	41,029.99	84,726.43	128,793.06	79,017.17
Wholesale trade	15,095.13	29,104.70	36,559.47	38,749.02	41,888.12	67,017.03	67,094.41
<b>Interregional effect on gross output (\$ million)</b>							
Metals	8,965.58	45,556.73	45,790.51	50,872.57	49,266.34	30,763.41	27,160.85
Chemicals	2,331.36	4,494.42	6,493.81	9,292.61	8,461.09	22,003.54	20,078.33
Agriculture	1,802.71	3,780.66	6,446.94	12,064.51	9,275.22	14,951.66	18,599.79
<b>Feedback effect on gross output (\$ million)</b>							
Metals	2,681.06	14,734.93	13,718.78	14,713.60	15,444.61	10,577.59	8,539.01
Chemicals	780.24	1,505.31	2,048.34	2,719.64	2,673.88	6,159.26	4,988.96
Business activities, NEC	576.11	2,078.45	2,574.49	3,833.39	3,894.86	6,513.17	3,605.51
<b>Directly absorbed value-added exports (DAVAX) (\$ million)</b>							
Food and beverages	4,655.05	5,908.24	9,890.46	15,198.09	14,751.51	27,494.91	26,665.24
Agriculture	620.67	1,889.36	3,022.61	7,596.03	5,954.41	13,325.10	21,514.12
Transport equipment	976.10	6,733.42	7,724.55	7,875.35	10,462.56	20,890.74	19,842.67
<b>Reflection (REF) (\$ million)</b>							
Metals	28.64	113.53	115.08	140.26	132.05	85.68	76.49
Chemicals	5.08	5.62	8.94	9.80	10.70	71.39	54.60
Transport equipment	2.35	19.78	25.37	14.28	14.66	58.43	50.34

# Thailand

## Southeast Asia and the Pacific

## International Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Reexports (REX) (\$ million)</b>							
Chemicals	331.91	483.45	800.60	919.93	1,064.70	5,142.01	4,485.90
Agriculture	219.51	644.85	1,101.85	2,104.30	1,531.14	2,755.23	3,544.59
Rubber and plastics	599.97	1,787.77	1,863.24	2,624.27	2,548.37	3,487.93	3,017.10
<b>Foreign value added (FVA) (\$ million)</b>							
Transport equipment	660.26	5,681.75	6,465.44	4,596.74	4,572.48	13,996.05	12,049.40
Chemicals	639.89	748.01	1,363.72	2,283.67	1,694.98	12,299.38	10,551.28
Metals	3,509.26	19,382.83	19,981.61	22,877.49	17,224.95	9,236.86	8,227.18
<b>Pure double-counting (PDC) (\$ million)</b>							
Transport equipment	2.54	32.11	35.28	25.04	28.17	86.62	66.50
Metals	13.58	112.41	109.72	123.38	100.25	56.05	44.70
Chemicals	1.71	2.63	4.82	7.33	6.03	55.04	41.20
<b>Trade-based GVC participation rate</b>							
Refined fuels	0.60	0.71	0.69	0.81	0.71	0.82	0.82
Metals	0.56	0.65	0.63	0.63	0.58	0.70	0.68
Minerals, NEC	0.52	0.53	0.53	0.66	0.57	0.69	0.66
<b>Production-based GVC participation rate</b>							
Wood	0.55	0.47	0.42	0.51	0.51	0.67	0.85
Chemicals	0.40	0.33	0.33	0.44	0.42	0.84	0.83
Water transport	0.28	0.30	0.27	0.31	0.33	0.81	0.60
<b>Trade-based backward GVC participation rate</b>							
Refined fuels	0.47	0.52	0.46	0.69	0.61	0.75	0.75
Minerals, NEC	0.43	0.42	0.42	0.58	0.48	0.63	0.60
Metals	0.37	0.49	0.48	0.48	0.40	0.52	0.49
<b>Trade-based forward GVC participation rate</b>							
Transport activities, NEC	0.24	0.31	0.31	0.31	0.33	0.24	0.29
Paper	0.25	0.24	0.24	0.23	0.24	0.26	0.25
Business activities, NEC	0.23	0.23	0.23	0.25	0.26	0.26	0.25
<b>Traditional revealed comparative advantage</b>							
Hotels and restaurants	4.22	1.79	2.75	4.08	6.31	7.03	4.39
Agriculture	0.82	1.17	1.38	2.19	1.62	1.96	3.55
Rubber and plastics	2.07	2.43	2.23	2.24	1.93	2.29	2.59
<b>New revealed comparative advantage</b>							
Hotels and restaurants	2.64	1.21	1.75	2.53	4.39	4.78	3.19
Retail trade	2.44	2.47	3.10	2.85	3.13	3.04	3.00
Agriculture	1.98	1.80	2.08	2.53	1.93	2.29	2.70
<b>Backward production length</b>							
Metals	2.67	3.45	3.51	3.35	3.33	3.37	3.37
Refined fuels	3.11	3.79	3.63	3.47	3.58	3.16	3.27
Minerals, NEC	2.88	3.32	3.40	3.27	3.27	3.11	3.15
<b>Forward production length</b>							
Mining	3.82	4.21	4.19	3.85	4.30	3.61	3.62
Chemicals	3.47	3.55	3.57	3.86	3.74	3.53	3.56
Wood	3.03	3.50	3.54	3.47	3.56	3.35	3.38
<b>Backward production length of GVC segment</b>							
Hotels and restaurants	4.48	4.83	4.89	4.85	4.97	4.71	4.77
Wood	4.06	4.74	4.81	4.68	4.78	4.64	4.69
Food and beverages	4.13	4.47	4.53	4.67	4.80	4.56	4.67
<b>Forward production length of GVC segment</b>							
Real estate	4.68	5.79	5.71	5.41	5.52	5.16	5.40
Telecommunications	4.46	4.98	4.55	4.16	4.20	4.85	5.25
Utilities	4.85	5.38	5.40	5.11	5.29	5.07	5.13
<b>Backward agglomeration index</b>							
Textiles	-	1.35	1.14	1.11	1.00	0.98	1.16
Metals	-	0.74	0.61	0.77	0.89	1.07	1.07
Wholesale trade	-	0.91	0.83	0.73	0.63	1.01	1.05
<b>Forward agglomeration index</b>							
Metals	-	0.86	0.76	0.78	0.72	1.12	1.10
Mining	-	1.28	1.31	1.23	0.31	1.17	1.08
Education	-	1.03	1.02	1.02	1.02	1.00	1.02

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.adbx.online/> (accessed July 2021).

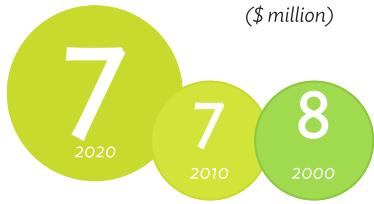
# Thailand

Southeast Asia and the Pacific

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



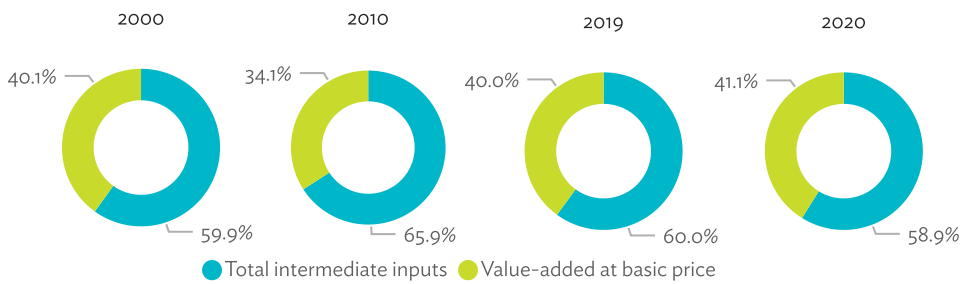
Trade Openness



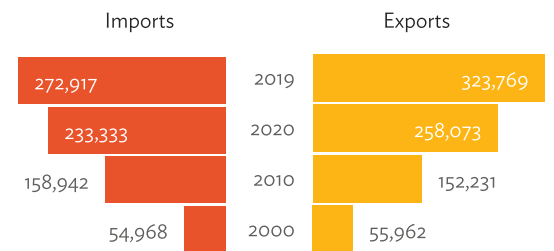
Trade-Based GVC Participation



Share of Intermediate Consumption and Gross Value-Added in Output

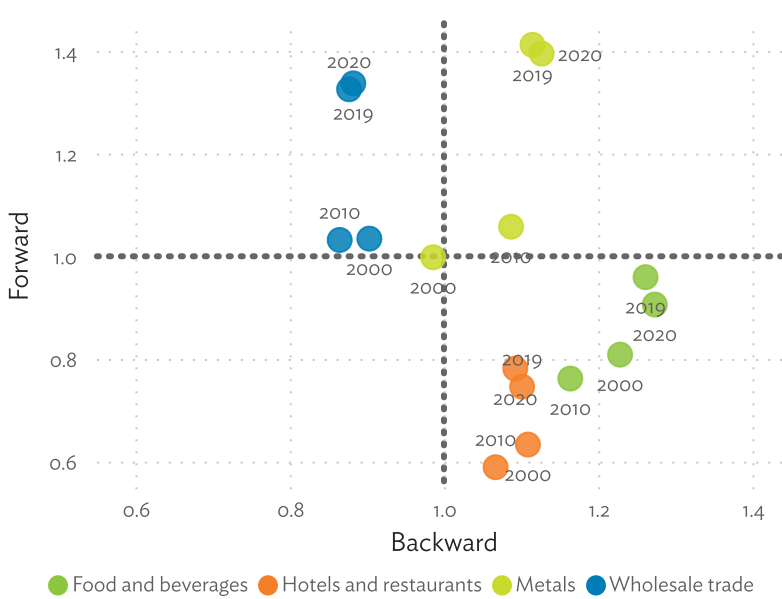


Imports and Exports, 2019-2020  
(\$ million)

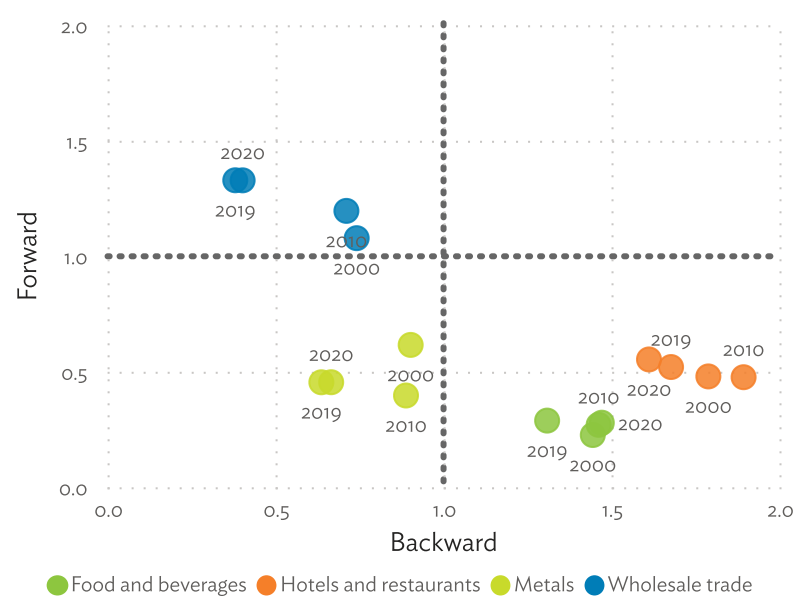


## Domestic Linkages

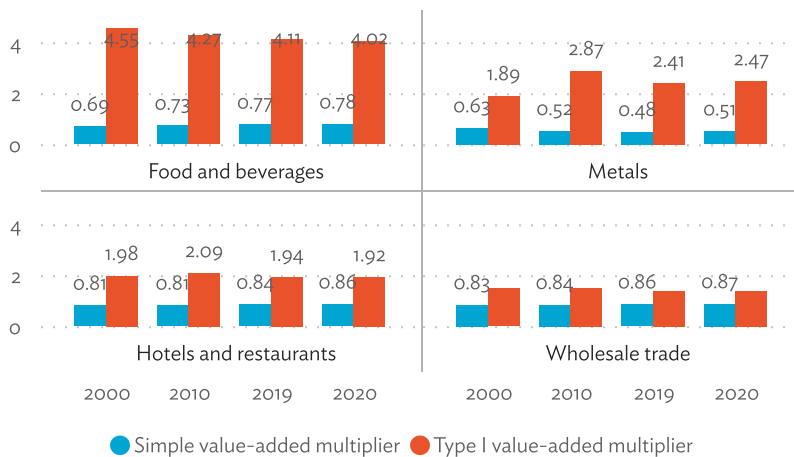
Normalized Linkages



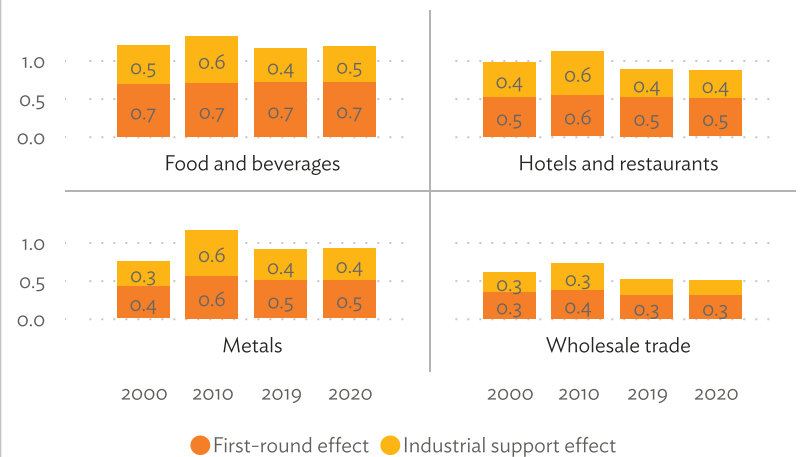
Net Linkages



Value-Added Multipliers



Production-Induced Effect

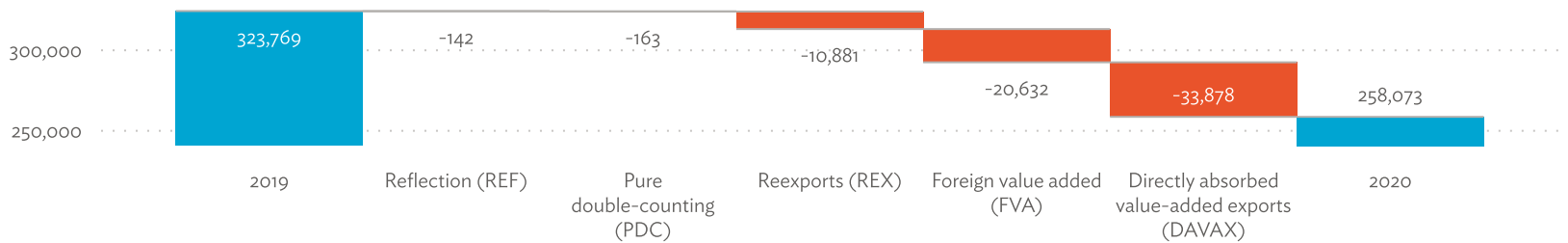


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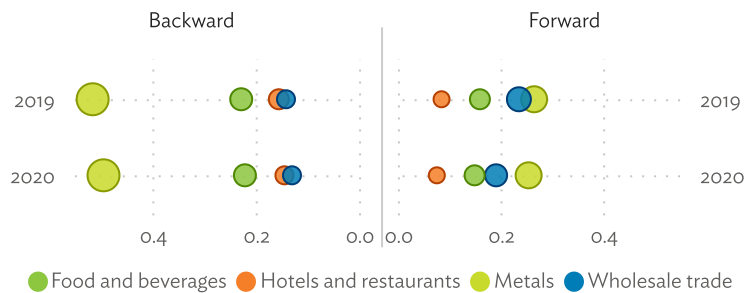
## Southeast Asia and the Pacific

### International Linkages

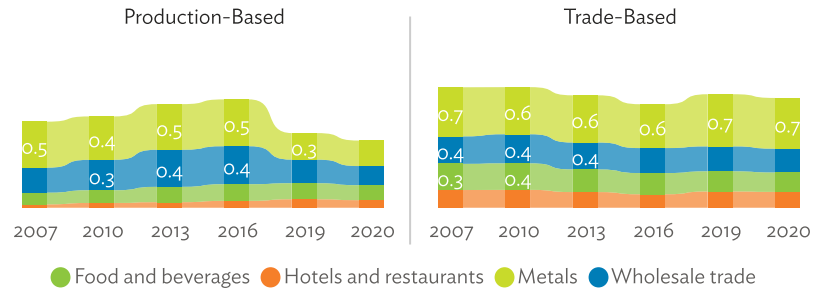
Change in Exports, by Value-Added Components, 2019-2020  
(\$ million)



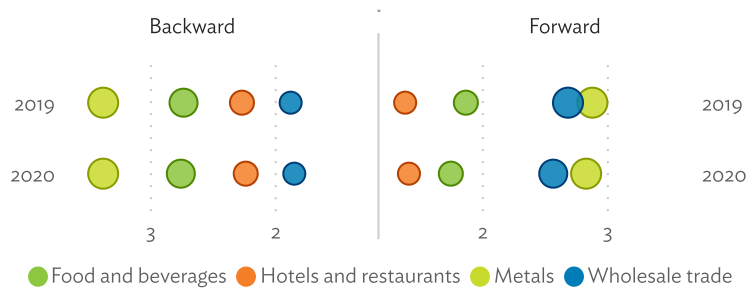
Import Multipliers



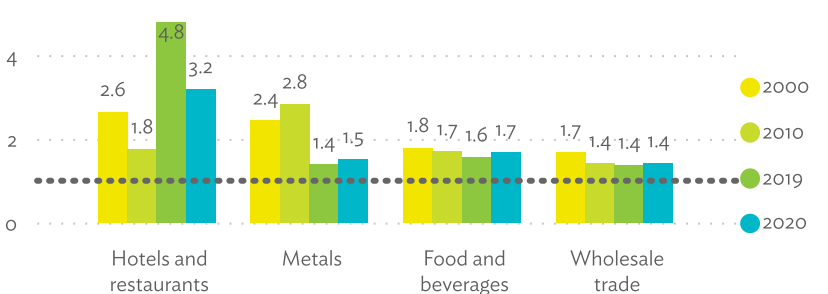
GVC Participation Rates



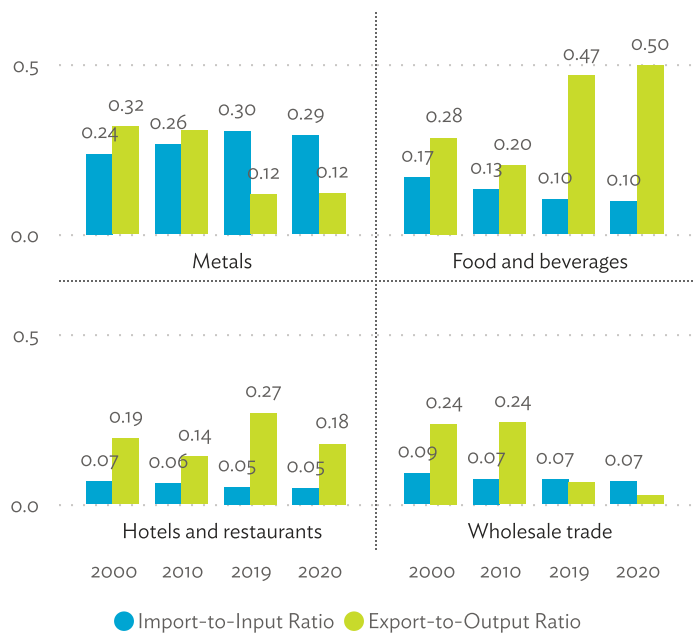
Average Production Length



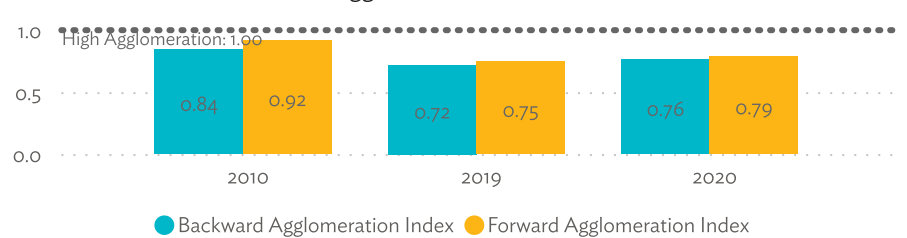
New Revealed Comparative Advantage



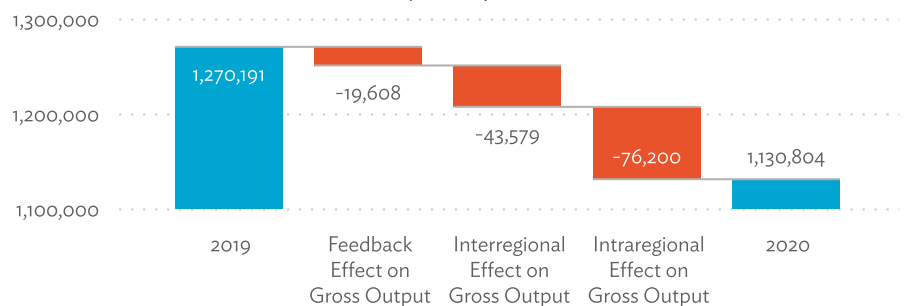
Trade Orientation



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).