

# India

## South and Central Asia

## Basic Economic Indicators

Economic Aggregates (\$ million)	2000	2007	2010	2013	2016	2019	2020
Value-added at basic price	457,035	1,135,324	1,618,577	1,886,274	2,185,884	2,621,592	2,399,625
Gross output	889,777	2,351,577	3,338,038	3,780,995	4,367,450	5,104,694	4,600,429
Total intermediate inputs	409,427	1,154,211	1,633,622	1,787,997	2,055,553	2,329,534	2,063,533
Taxes less subsidies on products	19,783	45,080	61,958	75,850	126,013	153,567	137,271
International transport margins	3,532	16,961	23,880	30,875	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	309,547	642,147	946,220	1,177,584	1,338,269	1,671,511	1,492,924
Final consumption expenditure by NPISHs	0	0	0	0	0	0	0
Government final consumption expenditure	59,679	118,249	192,702	232,502	237,157	283,920	293,099
Gross fixed capital formation	94,670	353,183	458,663	459,262	600,526	722,748	615,647
Changes in inventories	4,156	49,598	61,112	53,021	71,232	52,452	46,581
Total final demand	468,053	1,163,178	1,658,697	1,922,368	2,247,183	2,730,631	2,448,251
Exports	62,071	236,097	315,328	381,501	346,535	532,597	477,804
Imports	67,123	275,069	363,223	386,927	336,438	605,655	486,176

Economic Aggregates, Top 3 Sectors (\$ million)	2000	2007	2010	2013	2016	2019	2020
<b>Value-added at basic price</b>							
Agriculture	102,570	202,675	288,693	320,803	345,244	481,968	484,212
Business activities, NEC	10,540	45,569	73,723	99,397	121,542	227,651	217,524
Real estate	27,728	60,442	91,527	117,521	144,995	178,911	170,952
<b>Gross output</b>							
Agriculture	135,173	264,133	372,988	415,905	444,965	599,235	602,025
Construction	77,004	270,882	363,915	384,384	374,792	536,585	465,335
Business activities, NEC	16,333	66,482	107,545	131,743	161,094	333,272	318,446
<b>Total intermediate inputs</b>							
Construction	46,553	166,674	225,750	235,956	223,703	310,557	268,152
Food and beverages	35,630	104,352	151,732	163,933	179,999	222,170	197,795
Metals	28,177	120,922	171,331	167,159	141,872	179,861	158,785
<b>Total final demand</b>							
Construction	59,176	219,488	287,829	297,971	315,086	448,282	385,745
Agriculture	78,236	139,180	199,952	231,296	246,575	361,467	363,686
Real estate	28,886	64,493	98,200	126,027	154,501	191,852	183,873
<b>Exports</b>							
Business activities, NEC	9,561	59,017	81,860	70,610	63,158	104,983	98,770
Chemicals	4,753	13,602	18,049	30,998	26,751	52,196	47,336
Textiles	12,010	16,693	20,292	29,832	28,827	41,404	34,171
<b>Imports</b>							
Mining	12,407	71,491	94,929	141,576	72,884	164,707	131,450
Metals	8,067	33,149	45,984	39,390	30,682	57,551	45,868
Transport equipment	3,134	20,160	24,839	24,111	40,375	45,217	33,979

## Domestic Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>First-round effect</b>							
Wood	0.48	0.55	0.59	0.53	0.57	0.83	0.83
Food and beverages	0.79	0.83	0.84	0.83	0.85	0.78	0.79
Manufacturing, NEC	0.56	0.65	0.55	0.61	0.68	0.71	0.71
<b>Industrial support effect</b>							
Rubber and plastics	0.65	0.61	0.62	0.60	0.71	0.43	0.44
Manufacturing, NEC	0.45	0.55	0.44	0.50	0.59	0.41	0.44
Air transport	0.36	0.31	0.30	0.21	0.26	0.41	0.43
<b>Production-induced effect</b>							
Food and beverages	1.25	1.31	1.32	1.27	1.31	1.18	1.19
Wood	0.73	0.81	0.87	0.78	0.83	1.16	1.17
Manufacturing, NEC	1.02	1.20	0.99	1.10	1.27	1.12	1.15

# India

## South and Central Asia

## Domestic Linkages

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Simple value-added multiplier</b>							
Public administration	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Real estate	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Agriculture	0.97	0.97	0.97	0.97	0.98	0.97	0.97
<b>Type I value-added multiplier</b>							
Wood	1.96	2.27	2.52	2.16	2.26	6.51	6.55
Food and beverages	5.43	6.54	6.98	6.78	7.29	5.52	5.62
Manufacturing, NEC	2.43	3.34	2.90	2.89	3.24	4.18	4.26
<b>Direct backward linkage</b>							
Wood	0.48	0.55	0.59	0.53	0.57	0.83	0.83
Food and beverages	0.79	0.83	0.84	0.83	0.85	0.78	0.79
Manufacturing, NEC	0.56	0.65	0.55	0.61	0.68	0.71	0.71
<b>Complete hypothetical extraction (backward)</b>							
Wood	1.70	1.78	1.85	1.74	1.79	2.13	2.14
Air transport	1.79	1.71	1.68	1.50	1.60	2.10	2.12
Manufacturing, NEC	1.80	1.78	1.69	1.63	1.68	1.97	1.99
<b>Partial hypothetical extraction (backward)</b>							
Wood	0.72	0.80	0.86	0.76	0.81	1.14	1.15
Air transport	0.79	0.71	0.68	0.50	0.60	1.10	1.12
Manufacturing, NEC	0.91	0.97	0.84	0.86	0.94	1.04	1.06
<b>Total backward linkage</b>							
Food and beverages	2.25	2.31	2.32	2.27	2.31	2.18	2.19
Wood	1.73	1.81	1.87	1.78	1.83	2.16	2.17
Manufacturing, NEC	2.02	2.20	1.99	2.10	2.27	2.12	2.15
<b>Direct forward linkage</b>							
Mining	0.95	0.68	0.75	0.81	0.88	0.92	0.86
Minerals, NEC	0.80	0.81	0.82	0.80	0.79	0.75	0.74
Utilities	0.81	0.83	0.82	0.77	0.84	0.75	0.74
<b>Complete hypothetical extraction (forward)</b>							
Mining	3.06	2.36	2.51	2.50	2.64	2.59	2.53
Utilities	1.97	2.15	2.17	2.08	2.18	1.98	1.95
Finance	2.08	2.14	2.15	2.05	2.21	1.95	1.92
<b>Partial hypothetical extraction (forward)</b>							
Mining	2.08	1.37	1.51	1.51	1.66	1.61	1.55
Utilities	1.24	1.32	1.33	1.23	1.37	1.13	1.12
Finance	1.14	1.18	1.19	1.09	1.25	1.02	1.01
<b>Total forward linkage</b>							
Mining	3.10	2.38	2.53	2.52	2.68	2.64	2.57
Utilities	2.70	2.59	2.59	2.44	2.67	2.34	2.35
Finance	2.21	2.24	2.25	2.14	2.30	2.09	2.10
<b>Normalized backward linkage</b>							
Food and beverages	1.31	1.38	1.38	1.39	1.35	1.34	1.33
Wood	1.01	1.08	1.11	1.09	1.07	1.33	1.32
Manufacturing, NEC	1.18	1.32	1.18	1.28	1.33	1.30	1.31
<b>Normalized forward linkage</b>							
Mining	1.79	1.42	1.48	1.52	1.56	1.70	1.64
Utilities	1.56	1.55	1.52	1.47	1.55	1.50	1.50
Finance	1.28	1.34	1.32	1.29	1.33	1.34	1.34
<b>Net backward linkage</b>							
Air transport	1.44	1.65	1.56	1.25	1.53	2.07	2.09
Manufacturing, NEC	1.44	1.42	1.30	1.23	1.27	1.75	1.75
Food and beverages	1.76	1.61	1.65	1.72	1.72	1.74	1.74
<b>Net forward linkage</b>							
Mining	2.47	1.84	2.02	1.96	1.64	1.71	1.67
Finance	1.75	1.86	1.87	1.80	1.94	1.55	1.56
Retail trade	1.58	1.63	1.65	1.59	1.65	1.32	1.38

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Self-sufficiency ratio</b>							
Manufacturing, NEC	1.01	0.93	0.80	0.98	1.04	1.71	1.73
Air transport	0.76	0.67	0.77	0.92	1.13	1.51	1.72
Leather	1.39	1.16	1.16	1.24	1.16	1.68	1.63
<b>Import-to-input ratio</b>							
Refined fuels	0.34	0.47	0.46	0.55	0.23	0.39	0.36
Metals	0.14	0.20	0.19	0.25	0.19	0.37	0.34
Hotels and restaurants	0.04	0.03	0.04	0.04	0.18	0.32	0.29
<b>Export-to-output ratio</b>							
Water transport	0.87	1.00	1.00	0.95	0.72	1.00	1.00
Air transport	0.44	0.92	0.82	0.52	0.39	0.72	0.78
Manufacturing, NEC	0.22	0.13	0.18	0.15	0.11	0.63	0.59
<b>Domestic inputs share to output</b>							
Wood	0.48	0.55	0.59	0.53	0.57	0.83	0.83
Food and beverages	0.79	0.83	0.84	0.83	0.85	0.78	0.79
Manufacturing, NEC	0.56	0.65	0.55	0.61	0.68	0.71	0.71
<b>Foreign inputs share to output</b>							
Refined fuels	0.34	0.47	0.46	0.55	0.23	0.39	0.36
Metals	0.14	0.20	0.19	0.25	0.19	0.37	0.34
Hotels and restaurants	0.04	0.03	0.04	0.04	0.18	0.32	0.29
<b>Backward import multipliers</b>							
Refined fuels	0.39	0.52	0.51	0.58	0.32	0.45	0.43
Metals	0.23	0.33	0.32	0.37	0.28	0.46	0.43
Hotels and restaurants	0.08	0.08	0.09	0.09	0.22	0.35	0.32
<b>Forward import multipliers</b>							
Water transport	0.58	0.62	0.71	0.79	0.56	0.75	0.74
Air transport	0.31	0.78	0.71	0.43	0.31	0.61	0.66
Chemicals	0.20	0.24	0.23	0.31	0.25	0.34	0.35
<b>Intraregional transfer multiplier</b>							
Food and beverages	2.25	2.31	2.32	2.27	2.31	2.18	2.19
Wood	1.73	1.81	1.87	1.78	1.83	2.16	2.17
Manufacturing, NEC	2.02	2.20	1.99	2.10	2.27	2.12	2.15
<b>Interregional spillover multiplier</b>							
Refined fuels	1.49	1.76	1.79	2.02	1.44	1.71	1.67
Metals	1.25	1.37	1.37	1.49	1.37	1.71	1.67
Hotels and restaurants	1.07	1.05	1.07	1.07	1.34	1.61	1.57
<b>Interregional feedback multiplier</b>							
Metals	1.06	1.10	1.08	1.11	1.09	1.14	1.13
Inland transport	1.01	1.04	1.03	1.03	1.14	1.13	1.11
Refined fuels	1.09	1.18	1.14	1.20	1.09	1.10	1.10
<b>Intraregional effect on gross output (\$ million)</b>							
Agriculture	131,431.96	254,417.68	358,944.49	394,597.09	428,647.55	578,776.47	581,187.66
Construction	75,701.30	266,622.72	358,323.96	379,498.04	371,715.43	529,180.11	458,575.45
Business activities, NEC	7,760.82	24,647.33	43,469.73	91,743.23	123,517.03	255,338.12	242,166.52
<b>Interregional effect on gross output (\$ million)</b>							
Business activities, NEC	6,768.77	30,980.45	48,968.48	29,798.78	27,732.55	61,783.09	61,411.98
Chemicals	5,727.55	14,934.94	20,364.06	31,823.90	31,725.18	47,563.63	44,005.42
Metals	4,217.41	17,031.47	26,022.40	30,365.87	21,373.81	31,203.33	31,231.12
<b>Feedback effect on gross output (\$ million)</b>							
Business activities, NEC	1,803.53	10,854.13	15,106.87	10,200.76	9,844.06	16,150.47	14,867.30
Chemicals	1,861.67	5,289.38	7,513.63	12,631.38	12,137.61	16,979.01	14,213.15
Metals	1,272.39	6,948.92	9,168.76	11,480.51	7,533.35	11,906.97	10,131.94
<b>Directly absorbed value-added exports (DAVAX) (\$ million)</b>							
Business activities, NEC	6,032.68	38,163.62	54,143.38	54,689.28	50,162.37	80,881.70	77,776.51
Chemicals	2,420.67	6,372.85	8,520.06	14,102.13	14,250.71	27,913.23	26,622.87
Textiles	9,168.66	12,150.13	14,832.28	21,454.41	21,744.06	29,980.45	25,530.07
<b>Reflection (REF) (\$ million)</b>							
Business activities, NEC	42.93	438.93	706.02	355.61	277.38	589.53	535.29
Chemicals	17.89	70.22	123.14	179.10	175.62	410.19	313.10
Metals	15.87	133.12	220.40	185.90	128.75	265.67	218.96

Indicator and Top 3 Sectors, 2020	2000	2007	2010	2013	2016	2019	2020
<b>Reexports (REX) (\$ million)</b>							
Business activities, NEC	2,242.03	12,706.49	17,564.03	11,494.69	10,241.22	15,226.86	13,372.45
Chemicals	1,298.18	3,420.97	4,682.90	8,166.93	7,837.32	13,865.35	12,152.08
Metals	922.98	4,163.54	5,306.35	6,582.76	5,046.59	6,835.99	6,156.51
<b>Foreign value added (FVA) (\$ million)</b>							
Metals	892.40	5,260.56	7,072.94	10,494.06	5,652.06	15,688.33	13,360.57
Refined fuels	66.90	9,272.77	13,928.13	26,977.76	14,144.82	15,065.92	10,714.42
Chemicals	1,011.98	3,706.12	4,679.74	8,473.04	4,452.96	9,927.05	8,183.10
<b>Pure double-counting (PDC) (\$ million)</b>							
Metals	3.18	43.08	52.80	71.33	35.81	117.74	108.87
Refined fuels	0.21	77.53	101.63	170.86	92.54	96.59	77.65
Chemicals	4.49	31.59	43.08	77.11	34.08	80.03	64.37
<b>Trade-based GVC participation rate</b>							
Metals	0.48	0.59	0.56	0.60	0.54	0.67	0.63
Refined fuels	0.56	0.72	0.69	0.75	0.54	0.61	0.58
Water transport	0.36	0.46	0.56	0.74	0.60	0.53	0.50
<b>Production-based GVC participation rate</b>							
Water transport	0.58	0.62	0.71	0.79	0.56	0.75	0.74
Air transport	0.31	0.78	0.71	0.43	0.31	0.61	0.66
Chemicals	0.20	0.24	0.23	0.31	0.25	0.34	0.35
<b>Trade-based backward GVC participation rate</b>							
Refined fuels	0.39	0.52	0.51	0.58	0.32	0.45	0.43
Metals	0.23	0.33	0.32	0.37	0.28	0.46	0.43
Hotels and restaurants	0.08	0.08		0.09	0.22	0.35	0.32
<b>Trade-based forward GVC participation rate</b>							
Water transport	0.26	0.32	0.41	0.58	0.52	0.33	0.32
Rubber and plastics	0.25	0.27	0.26	0.26	0.28	0.29	0.28
Chemicals	0.28	0.26	0.27	0.27	0.30	0.27	0.26
<b>Traditional revealed comparative advantage</b>							
Telecommunications	1.52	1.68	1.43	0.95	0.90	6.33	6.78
Real estate	0.04	0.00	0.04	0.00	0.00	3.20	3.62
Business activities, NEC	2.80	4.34	4.05	2.78	2.45	2.47	2.64
<b>New revealed comparative advantage</b>							
Telecommunications	1.24	1.24	1.13	1.01	1.04	2.65	2.58
Private households	0.00	0.00	0.00	0.00	0.00	2.16	2.42
Business activities, NEC	1.11	1.87	2.03	1.73	1.59	1.74	1.87
<b>Backward production length</b>							
Manufacturing, NEC	2.39	2.80	2.86	2.74	2.72	2.72	2.72
Refined fuels	2.37	2.47	2.53	2.64	2.78	2.63	2.71
Electricals	2.67	2.81	2.85	2.80	2.68	2.66	2.65
<b>Forward production length</b>							
Mining	3.58	3.81	3.76	3.52	3.55	3.27	3.33
Water transport	2.51	2.74	3.11	3.46	2.93	3.05	3.07
Chemicals	2.80	2.78	2.82	2.86	2.97	2.77	2.81
<b>Backward production length of GVC segment</b>							
Real estate	4.76	5.10	5.27	5.46	5.48	5.21	5.29
Education	4.01	4.30	4.47	4.83	4.85	4.88	4.95
Sale of motor vehicles	4.10	4.34	4.44	4.68	4.96	4.81	4.91
<b>Forward production length of GVC segment</b>							
Utilities	5.14	5.16	5.16	5.22	5.37	5.00	5.12
Mining	4.41	4.75	4.84	4.76	4.82	4.70	4.79
Retail trade	4.09	4.10	4.19	4.40	4.55	4.67	4.71
<b>Backward agglomeration index</b>							
Rubber and plastics	-	1.58	1.72	1.87	2.04	3.74	3.37
Electricals	-	2.30	2.32	2.32	2.44	2.24	2.28
Textiles	-	1.80	1.77	1.73	1.72	1.92	1.97
<b>Forward agglomeration index</b>							
Electricals	-	2.43	2.15	1.97	1.91	1.76	1.66
Transport equipment	-	1.78	1.44	1.31	1.30	1.74	1.63
Mining	-	1.25	1.29	1.33	1.22	1.73	1.56

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).

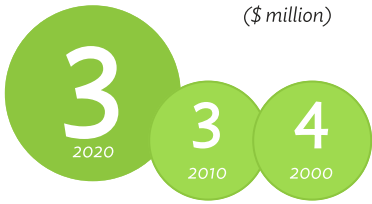
# India

## South and Central Asia

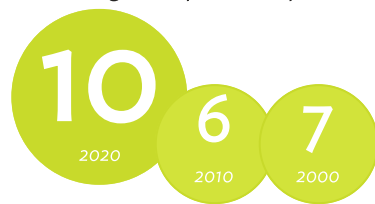
The four select sectors are chosen based on their gross outputs in the economy as of 2019.

### Economy Ranking out of 25 Economies

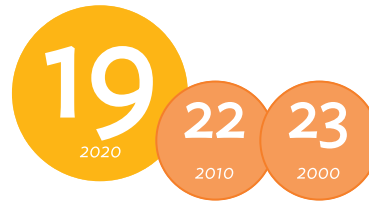
Value-Added at Basic Prices  
(\$ million)



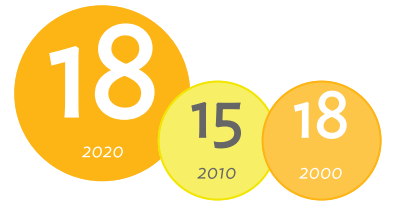
Average Output Multiplier



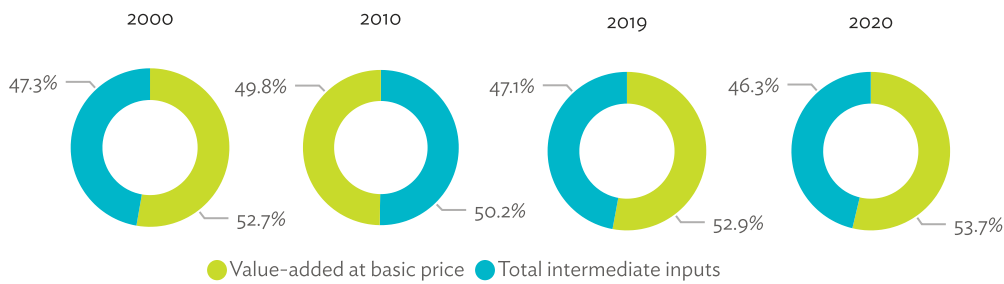
Trade Openness



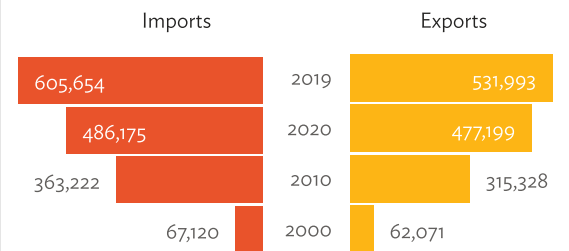
Trade-Based GVC Participation



Share of Intermediate Consumption and Gross Value-Added in Output

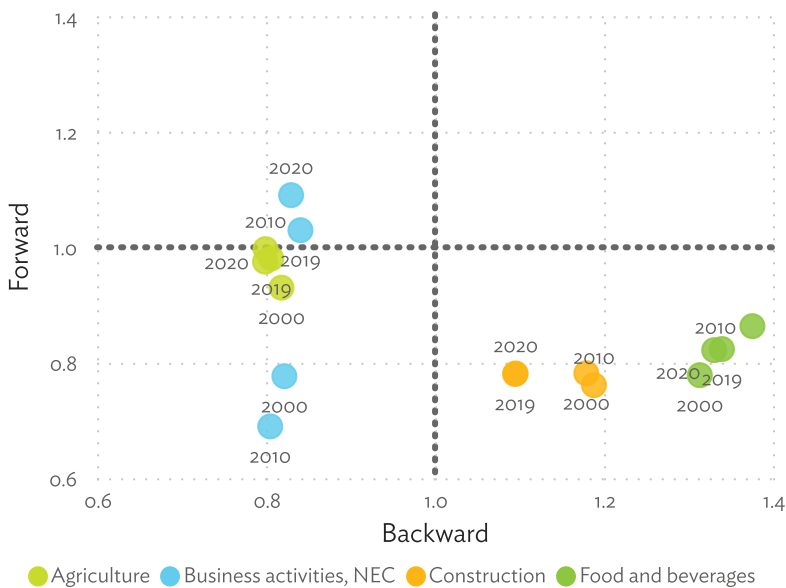


Imports and Exports, 2019-2020  
(\$ million)

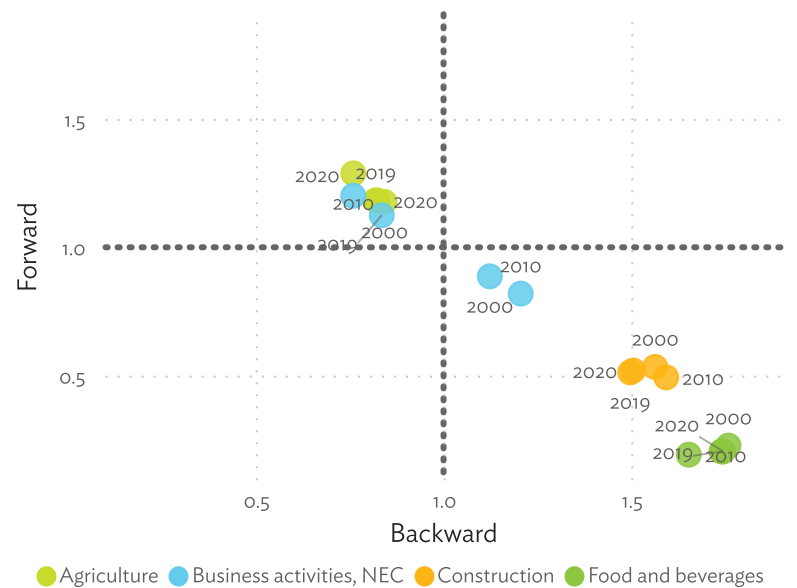


### Domestic Linkages

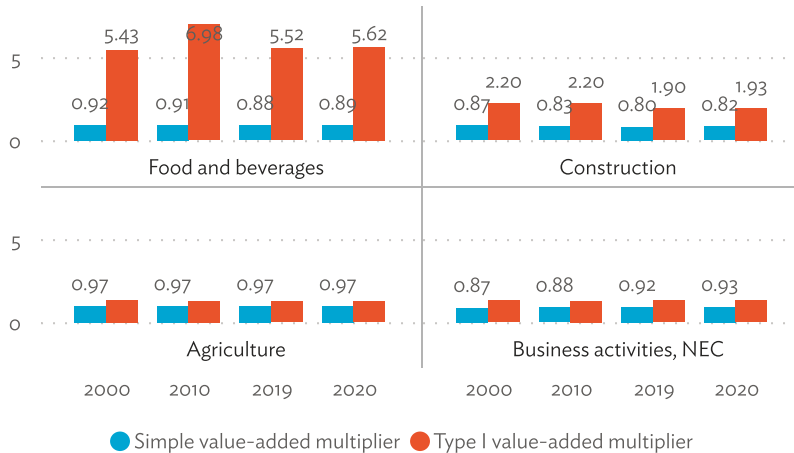
Normalized Linkages



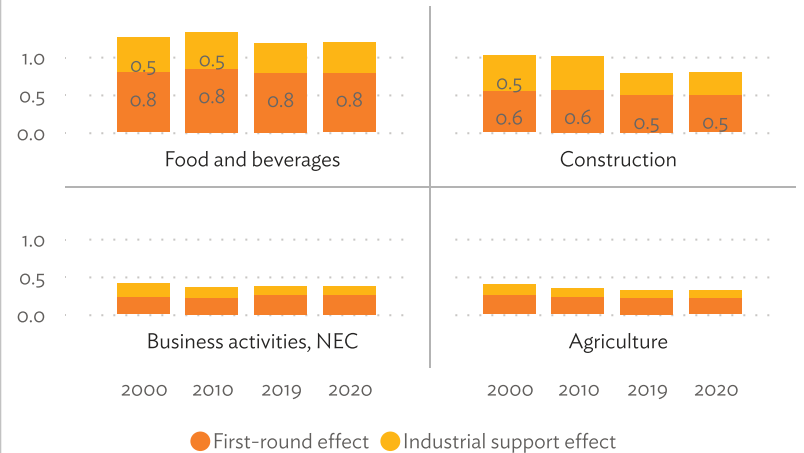
Net Linkages



Value-Added Multipliers



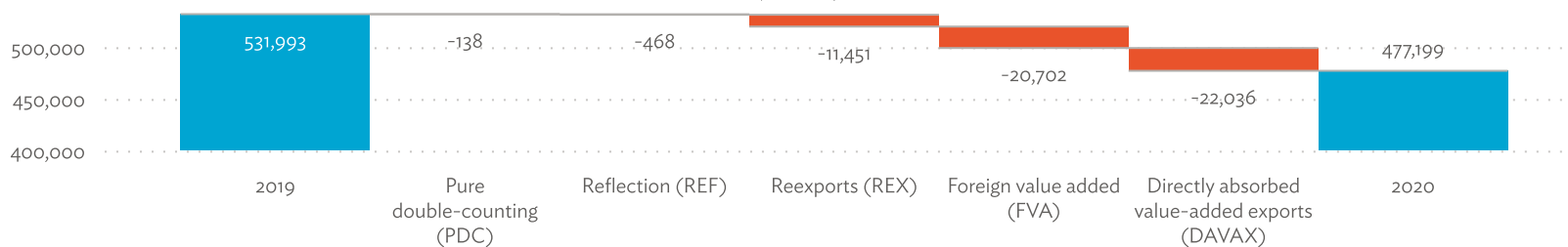
Production-Induced Effect



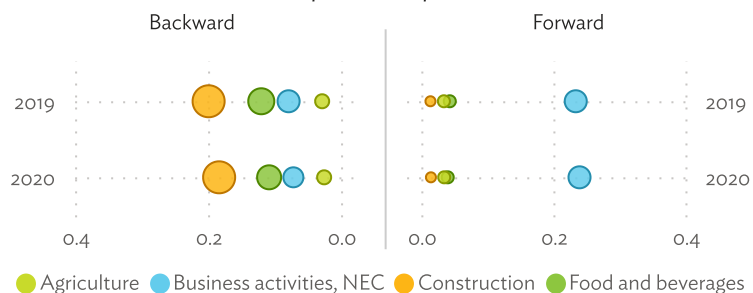
## International Linkages

Change in Exports, by Value-Added Components, 2019-2020

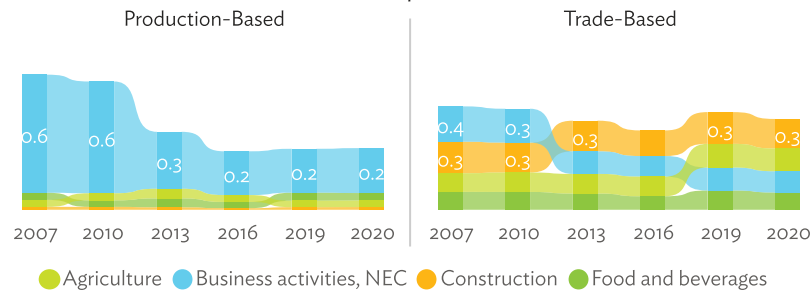
(\$ million)



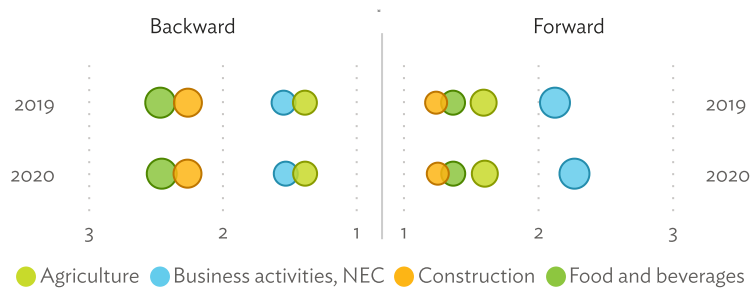
Import Multipliers



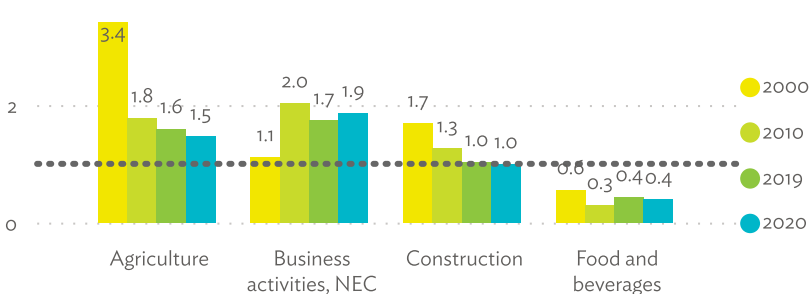
GVC Participation Rates



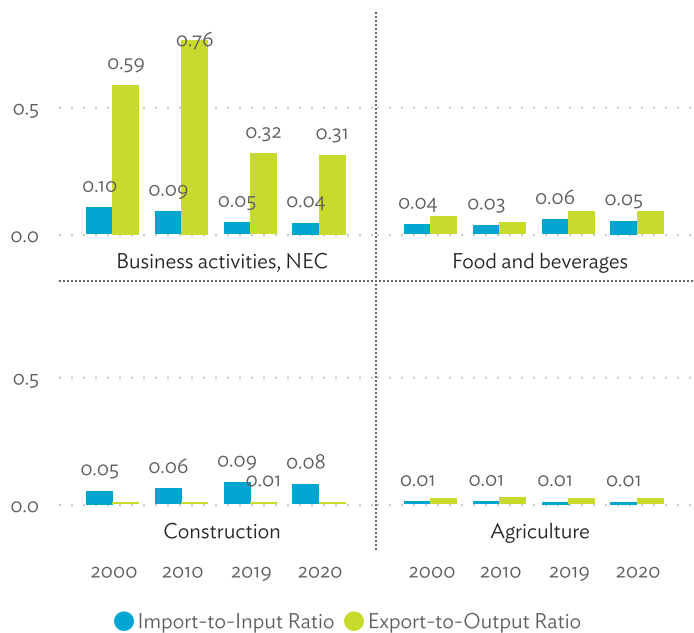
Average Production Length



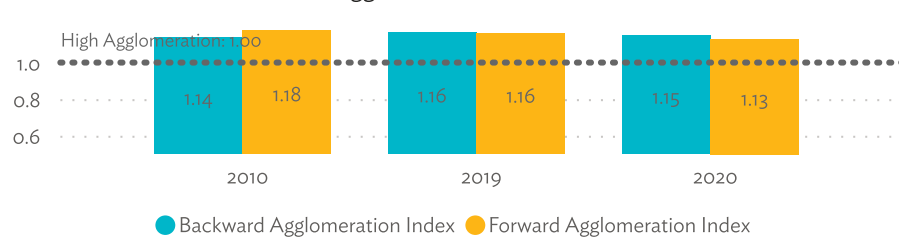
New Revealed Comparative Advantage



Trade Orientation

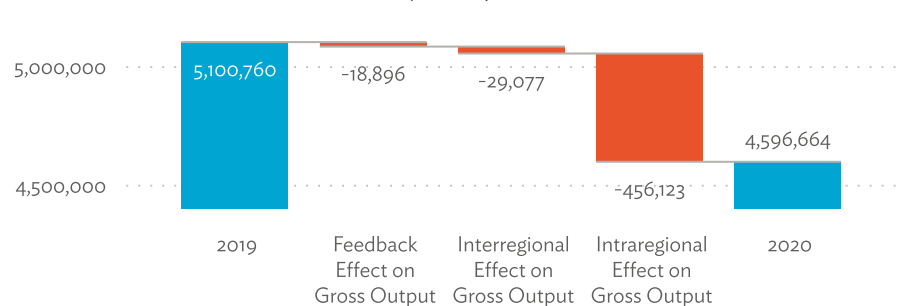


Agglomeration Indices



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).