

# ADB – INPUT-OUTPUT ANALYSIS

---

EE 482: Public Policy and Industrialization

Semester 2 / 2020

Faculty of Economics, Thammasat University

**Disclaimer:** All contents are used for educational purpose only. Please do not circulate nor use for commercial purpose.

# ECONOMIC INDICATORS FOR SOUTHEASTERN ASIA AND THE PACIFIC INPUT-OUTPUT TABLES

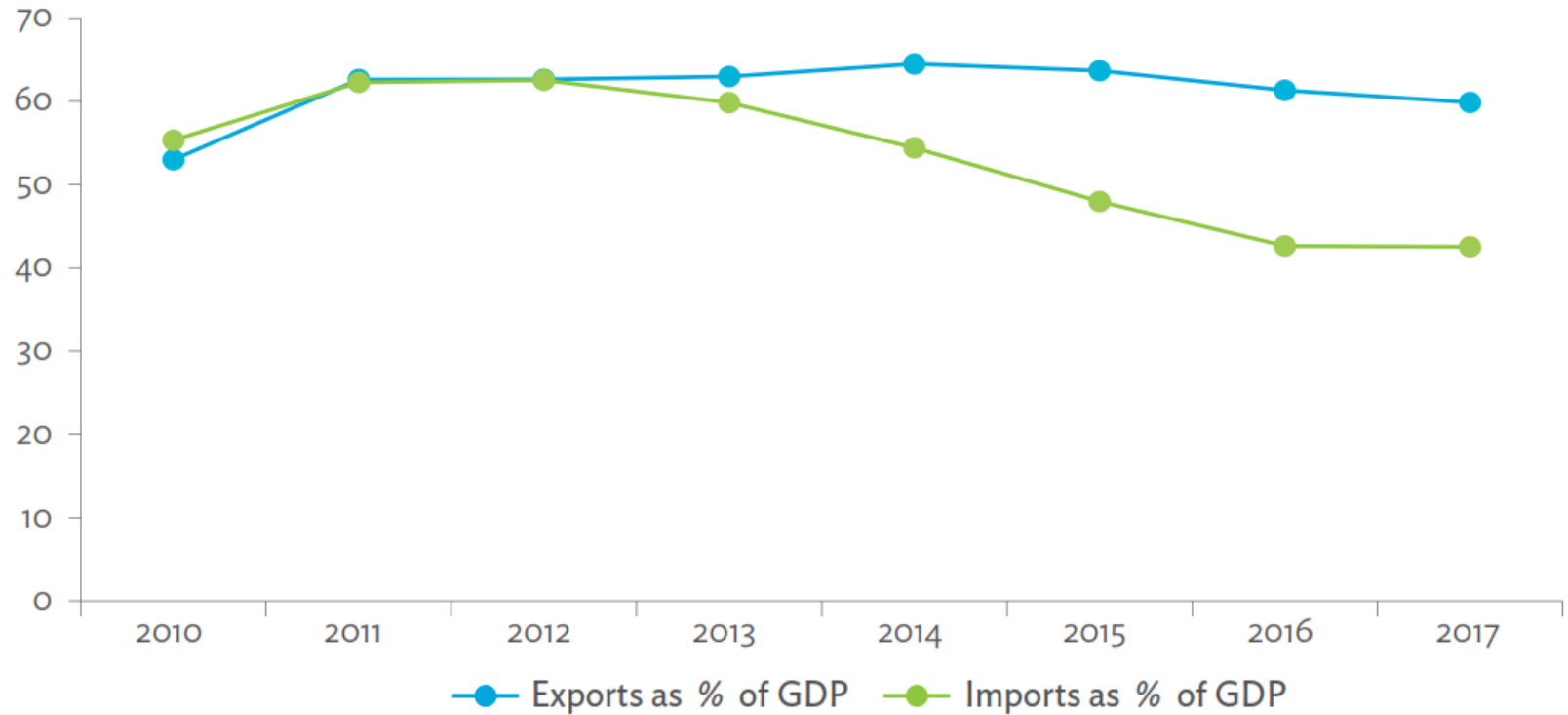
DECEMBER 2018

ASIAN DEVELOPMENT BANK



**Full-text link:** <https://www.adb.org/sites/default/files/publication/479656/southeastern-asia-and-pacific-input-output-tables.pdf>

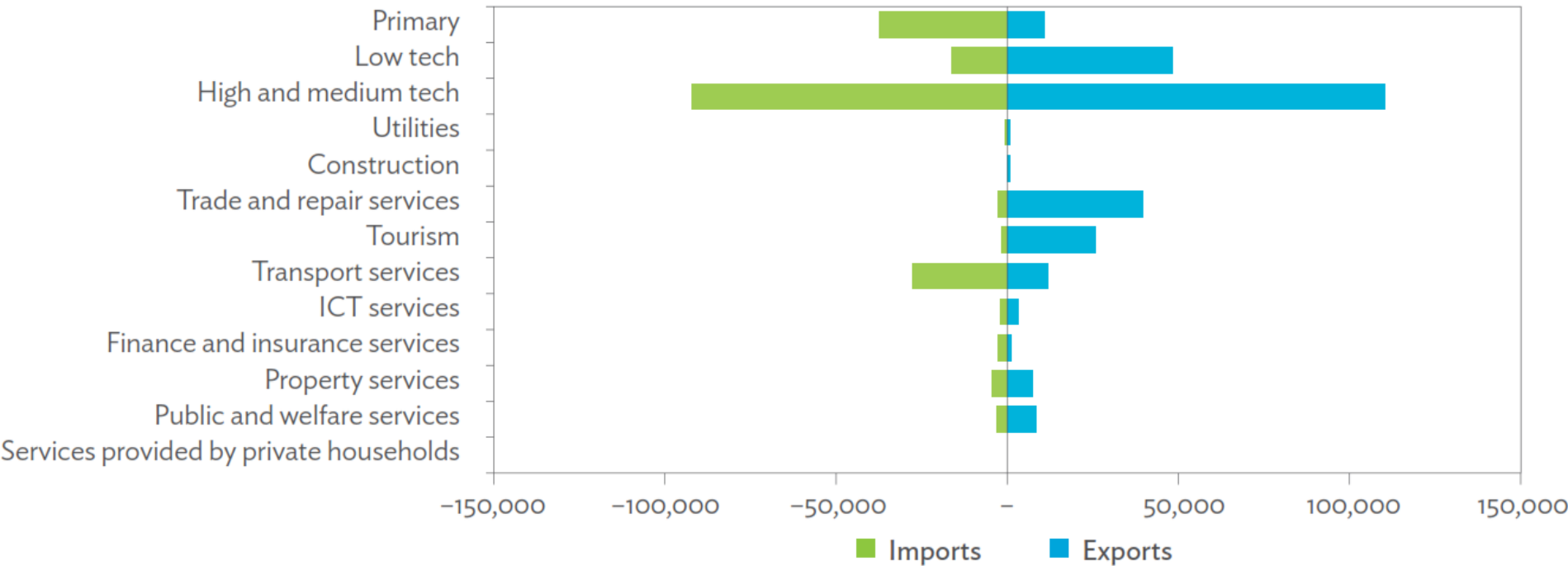
## Exports and Imports as a Share of Gross Domestic Product, 2010 -2017 (%)



GDP = gross domestic product.

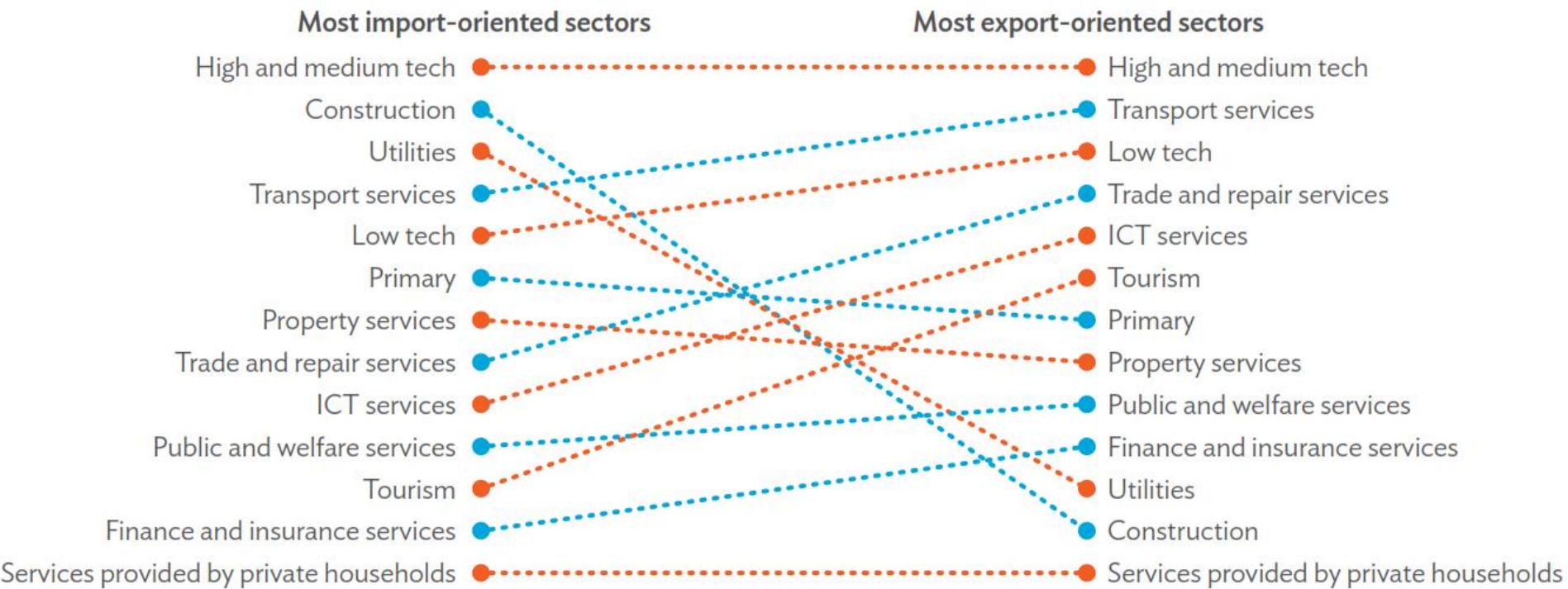
Source: Asian Development Bank Multi-Regional Input-Output Database.

# Total Foreign Trade by Sector, 2017 (\$ million)



\$ = United States dollar, ICT = information and communication technology.  
 Source: Asian Development Bank Multi-Regional Input-Output Database.

# Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017



ICT = information and communication technology.  
 Source: Asian Development Bank Multi-Regional Input-Output Database.

ที่มา: ADB (2018)

**Table 9.2.1: Input-Output Backward Linkage**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.795	0.844	0.835	0.826	0.818	0.811	0.805	0.816
Mining and quarrying	1.150	1.178	1.170	1.167	1.160	1.159	1.158	1.159
Food, beverages, and tobacco	1.164	1.266	1.268	1.263	1.254	1.253	1.244	1.256
Textiles and textile products	1.092	1.162	1.172	1.170	1.168	1.168	1.169	1.169
Leather, leather products, and footwear	0.986	1.048	1.058	1.056	1.053	1.050	1.048	1.051
Wood and products of wood and cork	1.085	1.063	1.061	1.057	1.054	1.046	1.042	1.053
Pulp, paper, paper products, printing, and publishing	0.870	0.880	0.877	0.870	0.867	0.857	0.851	0.864
Coke, refined petroleum, and nuclear fuel	1.285	0.972	1.001	1.028	1.048	1.091	1.123	1.063
Chemicals and chemical products	1.252	1.145	1.171	1.175	1.176	1.192	1.202	1.181
Rubber and plastics	1.101	1.085	1.094	1.089	1.083	1.081	1.081	1.084
Other nonmetallic minerals	1.205	1.015	1.041	1.058	1.076	1.105	1.122	1.079
Basic metals and fabricated metal	1.087	1.079	1.101	1.112	1.129	1.148	1.161	1.136
Machinery, nec	1.038	1.025	1.040	1.044	1.051	1.057	1.061	1.051
Electrical and optical equipment	1.024	1.071	1.086	1.089	1.095	1.100	1.104	1.095
Transport equipment	1.085	1.016	1.026	1.031	1.038	1.043	1.048	1.040
Manufacturing, nec; recycling	1.106	1.093	1.106	1.107	1.106	1.109	1.111	1.106
Electricity, gas, and water supply	0.959	0.918	0.892	0.905	0.918	0.921	0.923	0.914
Construction	1.155	1.106	1.104	1.104	1.103	1.114	1.122	1.105

ที่มา: ADB (2018)

lowest linkage



highest linkage

**Table 9.2.2: Input-Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.993	1.012	1.017	1.048	1.075	1.062	1.092	1.137
Mining and quarrying	1.581	1.548	1.550	1.588	1.721	1.951	1.888	1.533
Food, beverages, and tobacco	0.764	0.837	0.826	0.831	0.831	0.823	0.870	0.913
Textiles and textile products	0.824	0.858	0.860	0.870	0.875	0.867	0.888	0.916
Leather, leather products, and footwear	0.741	0.788	0.770	0.770	0.766	0.771	0.794	0.834
Wood and products of wood and cork	1.235	1.157	1.195	1.205	1.212	1.179	1.174	1.167
Pulp, paper, paper products, printing, and publishing	1.228	1.247	1.269	1.251	1.233	1.192	1.197	1.245
Coke, refined petroleum, and nuclear fuel	1.073	0.911	0.849	0.957	1.007	1.307	1.234	0.954
Chemicals and chemical products	1.559	1.417	1.679	1.476	1.348	1.326	1.345	1.371
Rubber and plastics	1.257	1.208	1.213	1.229	1.243	1.218	1.208	1.190
Other nonmetallic minerals	1.017	0.980	1.004	1.016	1.014	0.979	0.977	0.973
Basic metals and fabricated metal	1.058	1.016	1.026	1.043	1.059	1.035	1.032	0.997
Machinery, nec	1.225	1.153	1.172	1.180	1.189	1.171	1.164	1.141
Electrical and optical equipment	1.128	1.133	1.138	1.148	1.155	1.136	1.142	1.177
Transport equipment	0.644	0.686	0.680	0.682	0.681	0.664	0.656	0.668
Manufacturing, nec; recycling	1.036	1.021	1.020	1.037	1.050	1.051	1.060	1.083
Electricity, gas, and water supply	1.335	1.334	1.298	1.314	1.326	1.315	1.311	1.359
Construction	0.508	0.591	0.576	0.575	0.571	0.551	0.535	0.550

ที่มา: ADB (2018)

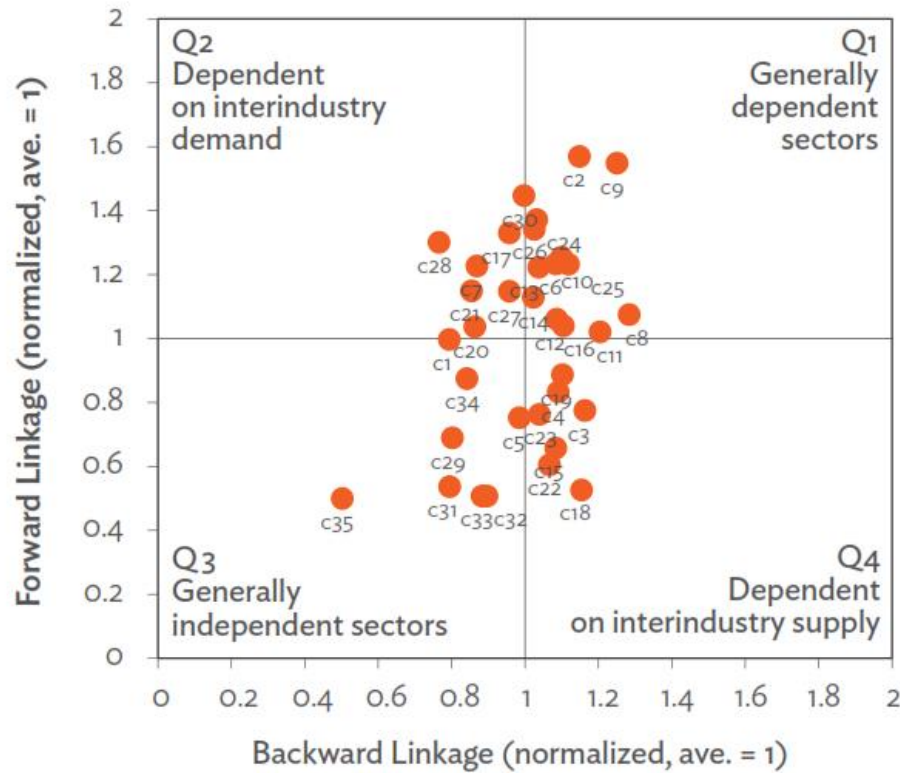
lowest  
linkagehighest  
linkage

**Table 9.3.3: Net Intraregional Multipliers (M<sub>1</sub>), 2010–2017**

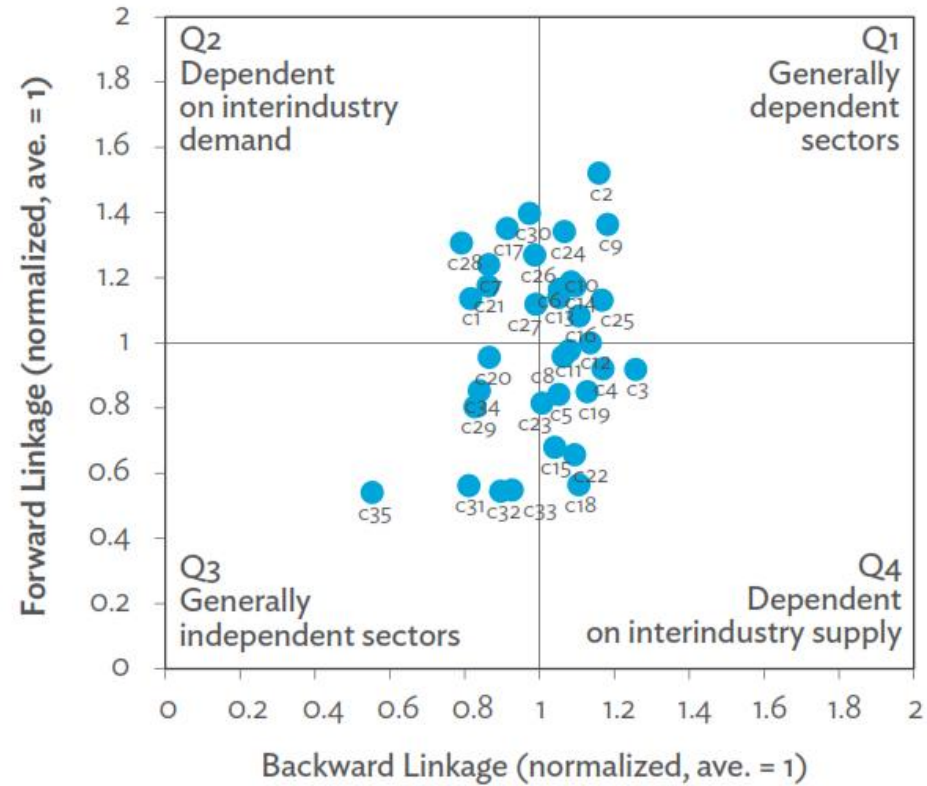
Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.5790	0.4531	0.4705	0.4672	0.4712	0.4982	0.5100	0.4776
Mining and quarrying	1.2822	1.0289	1.0599	1.0726	1.0847	1.1399	1.1715	1.0974
Food, beverages, and tobacco	1.3106	1.1808	1.2328	1.2442	1.2545	1.3132	1.3325	1.2741
Textiles and textile products	1.1675	1.0012	1.0639	1.0786	1.1006	1.1567	1.1918	1.1167
Leather, leather products, and footwear	0.9572	0.8046	0.8636	0.8765	0.8929	0.9386	0.9653	0.9032
Wood and products of wood and cork	1.1530	0.8306	0.8687	0.8769	0.8953	0.9314	0.9539	0.9055
Pulp, paper, paper products, printing, and publishing	0.7270	0.5150	0.5448	0.5462	0.5592	0.5831	0.5960	0.5639
Coke, refined petroleum, and nuclear fuel	1.5504	0.6747	0.7634	0.8253	0.8832	1.0143	1.1052	0.9239
Chemicals and chemical products	1.4849	0.9713	1.0619	1.0870	1.1147	1.2010	1.2547	1.1385
Rubber and plastics	1.1855	0.8679	0.9270	0.9349	0.9462	0.9960	1.0271	0.9624
Other nonmetallic minerals	1.3927	0.7487	0.8328	0.8792	0.9344	1.0414	1.1035	0.9538
Basic metals and fabricated metal	1.1583	0.8591	0.9383	0.9750	1.0303	1.1195	1.1776	1.0557
Machinery, nec	1.0614	0.7657	0.8320	0.8550	0.8894	0.9519	0.9902	0.9031
Electrical and optical equipment	1.0332	0.8439	0.9130	0.9346	0.9682	1.0321	1.0713	0.9813
Transport equipment	1.1531	0.7507	0.8073	0.8317	0.8655	0.9260	0.9657	0.8833

ที่มา: ADB (2018)

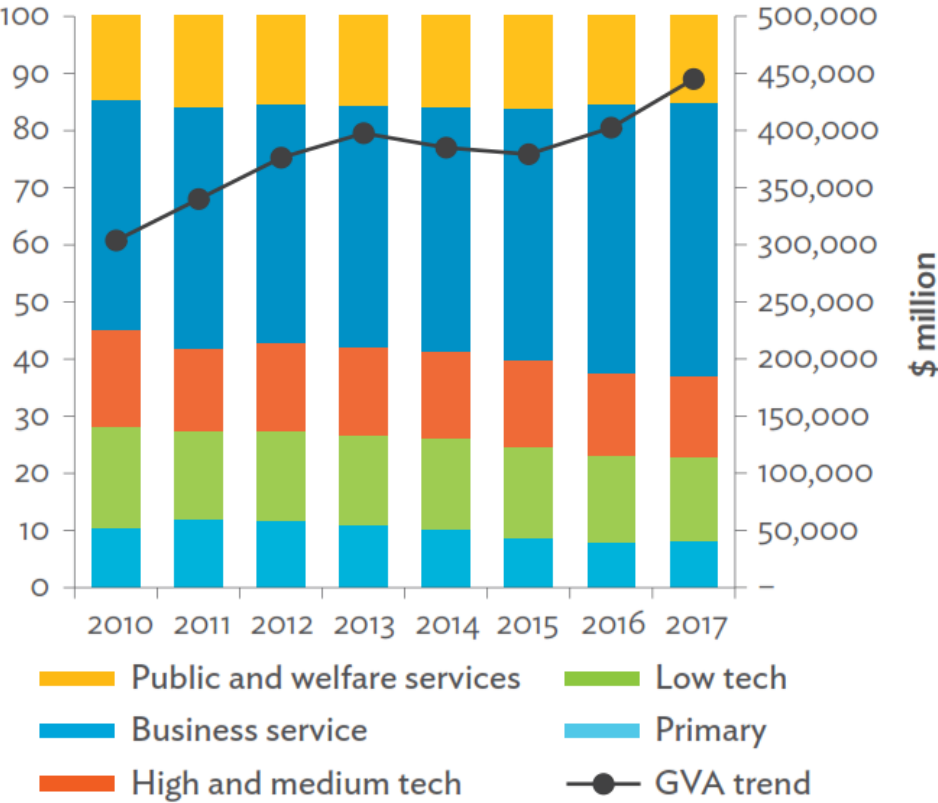
### Backward and Forward Linkages by Industry, 2010



### Backward and Forward Linkages by Industry, 2017

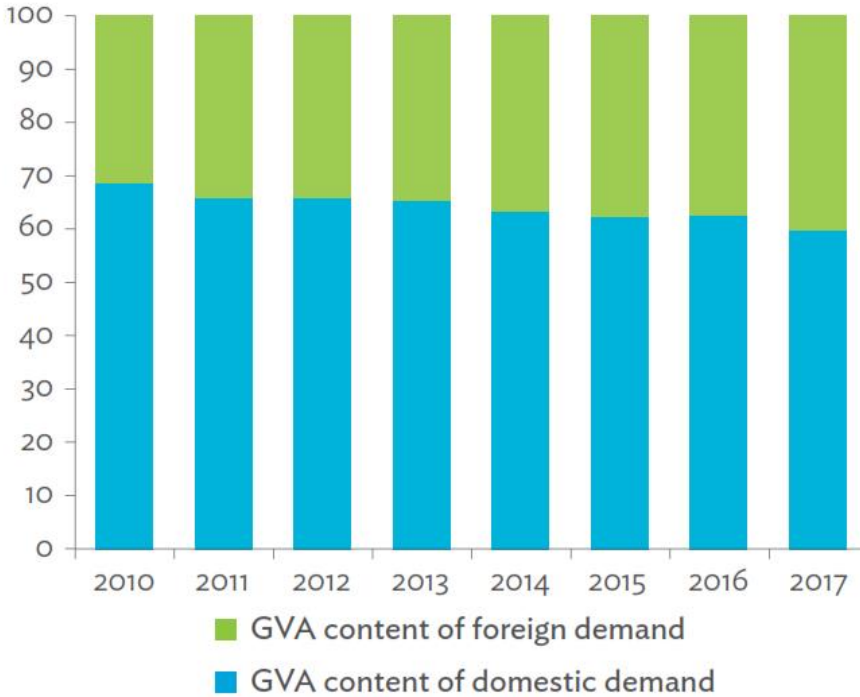


### Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)



\$ = United States dollar, GVA = gross value added.  
 Source: Asian Development Bank Multi-Regional Input–Output Database.

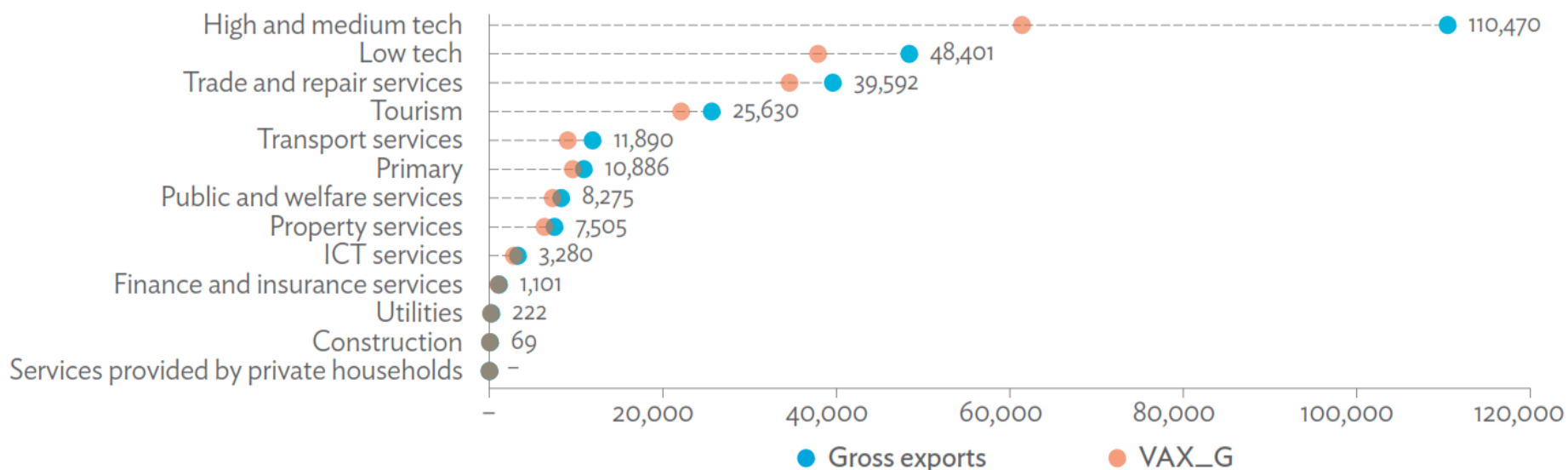
### Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010-2017 (%)



GVA = gross value added.  
 Source: Asian Development Bank Multi-Regional Input–Output Database.

ที่มา: ADB (2018)

## Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)

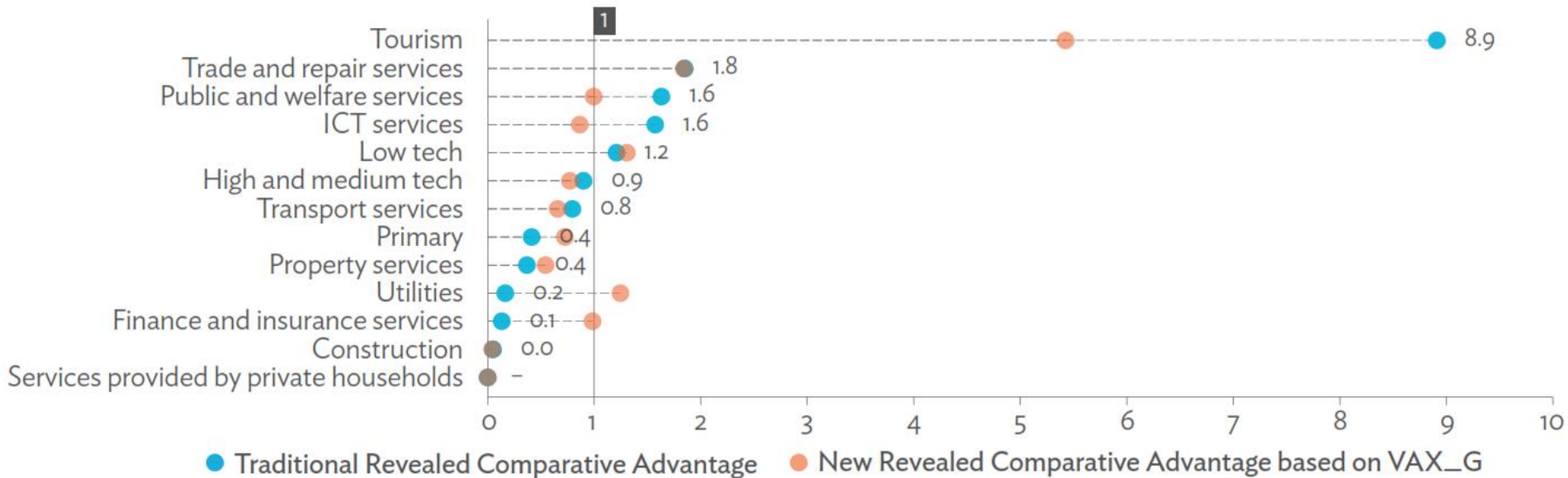


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

# Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017



ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.