



# Macroeconomy on TR per GDP

---

Kiki Verico, Ph.D.

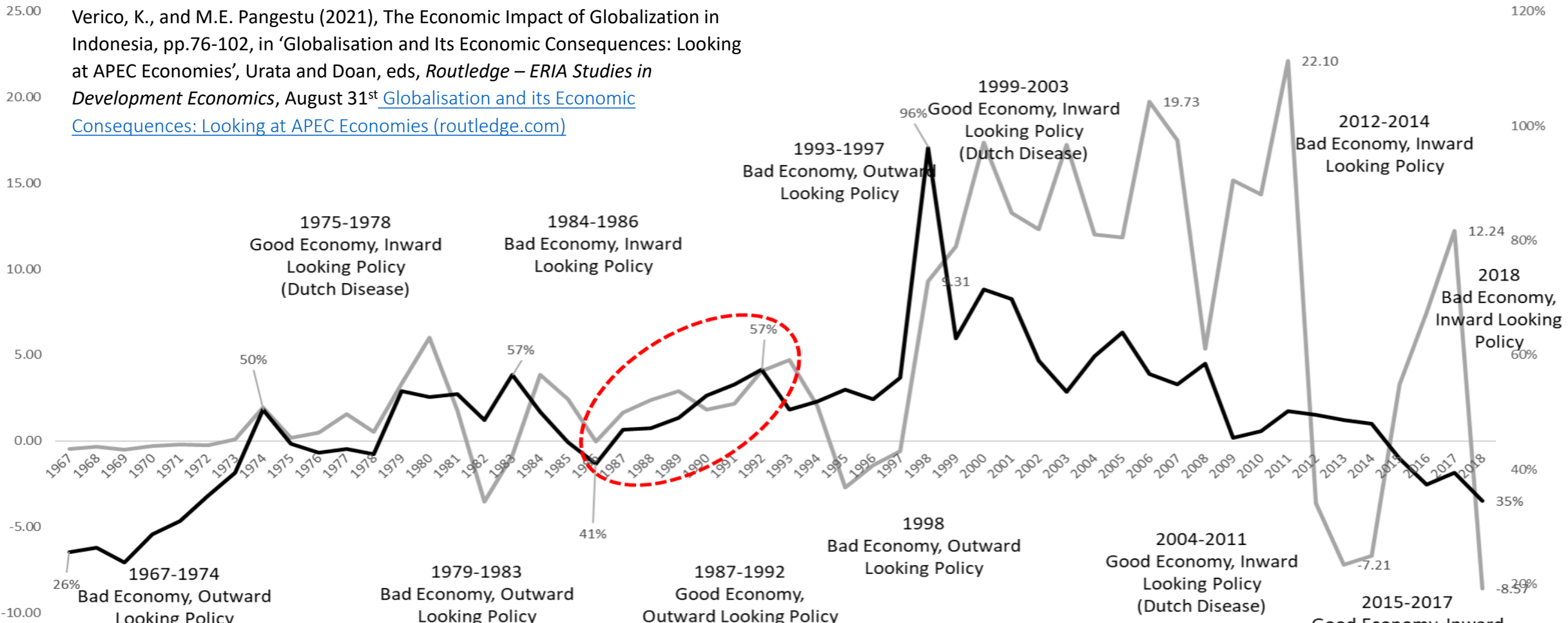
LPEM FEB UI

25 January 2023

*Peran Vital Industri Manufaktur  
dalam Makroekonomi Indonesia:  
TR per GDP*

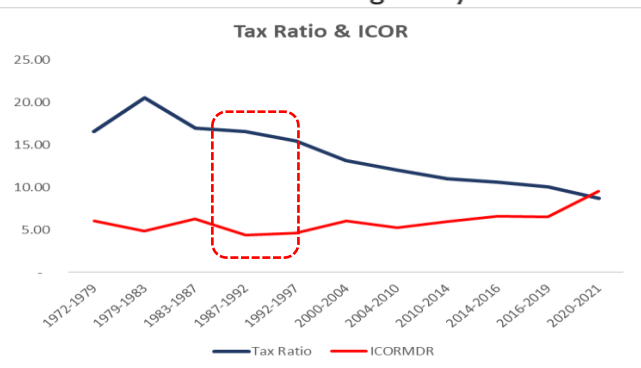
JAKARTA, 25 JANUARY 2023

### TB (Billion USD) LHS & Openness (%) RHS 1967 - 2018

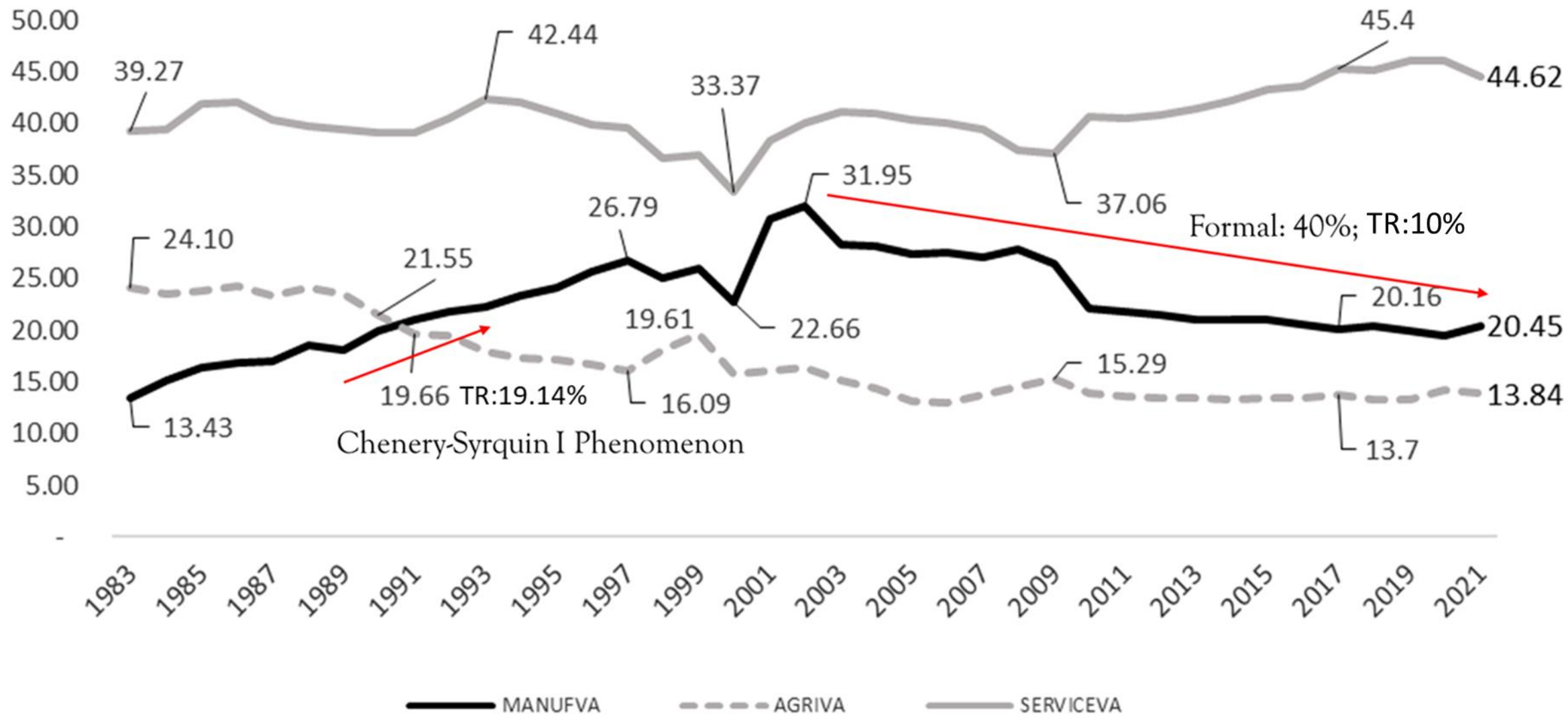


Verico, K., and M.E. Pangestu (2021), The Economic Impact of Globalization in Indonesia, pp.76-102, in 'Globalisation and Its Economic Consequences: Looking at APEC Economies', Urata and Doan, eds, *Routledge – ERIA Studies in Development Economics*, August 31<sup>st</sup> [Globalisation and its Economic Consequences: Looking at APEC Economies \(routledge.com\)](https://www.routledge.com/Globalisation-and-its-Economic-Consequences-Looking-at-APEC-Economies/routledge.com)

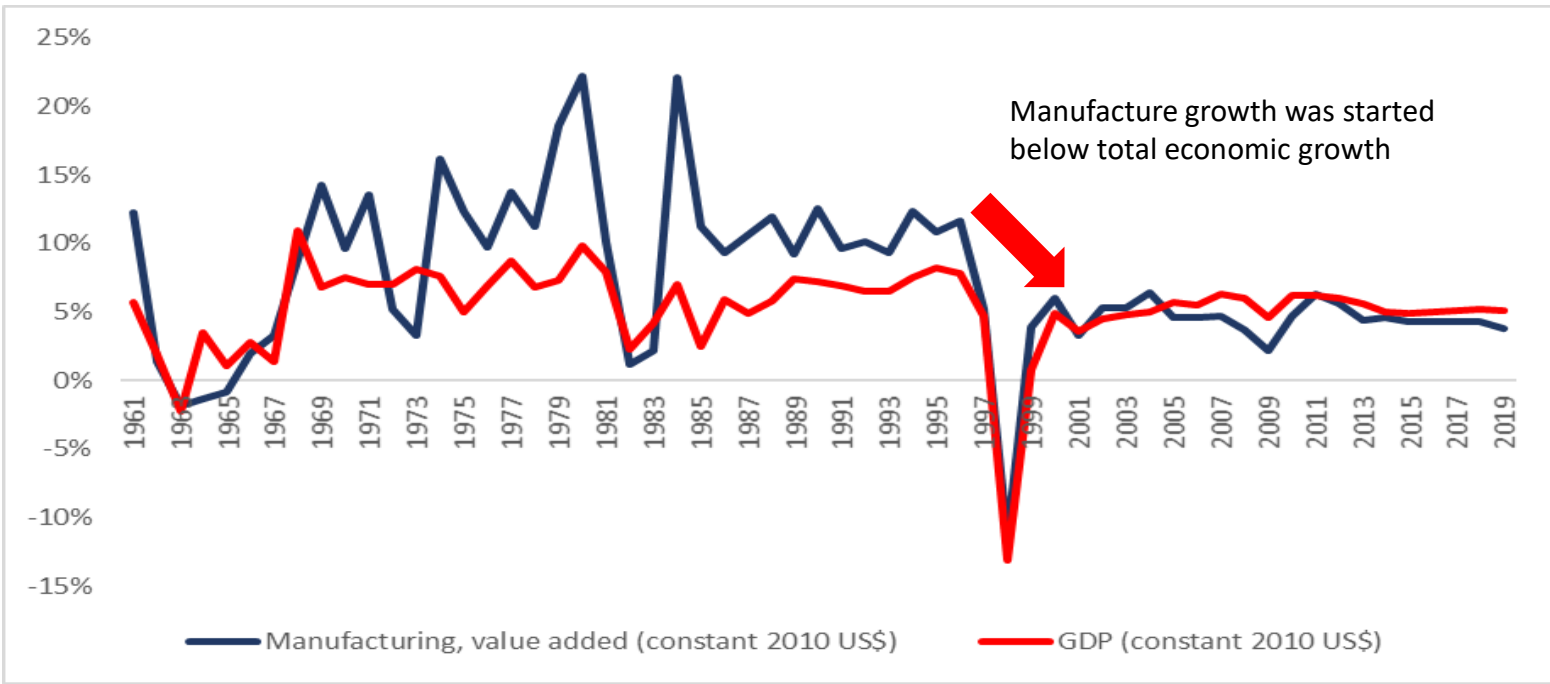
ASEAN6	GDP per capita (current US\$)	Gross domestic savings (% of GDP)
Singapore	65,831	54.19
Brunei Darussalam	31,086	54.51
Malaysia	11,433	28.57
Thailand	7,814	34.06
Indonesia	4,135	33.26
Philippines	3,485	14.33



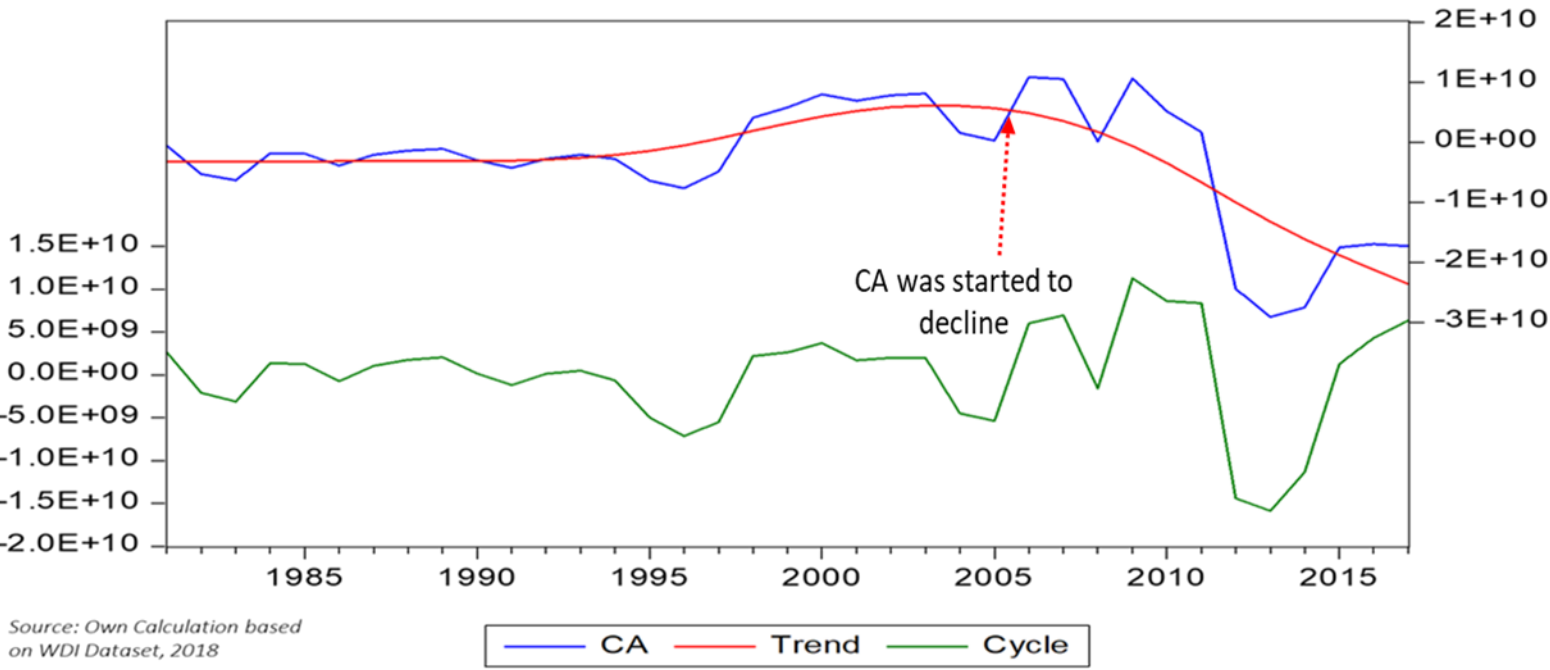
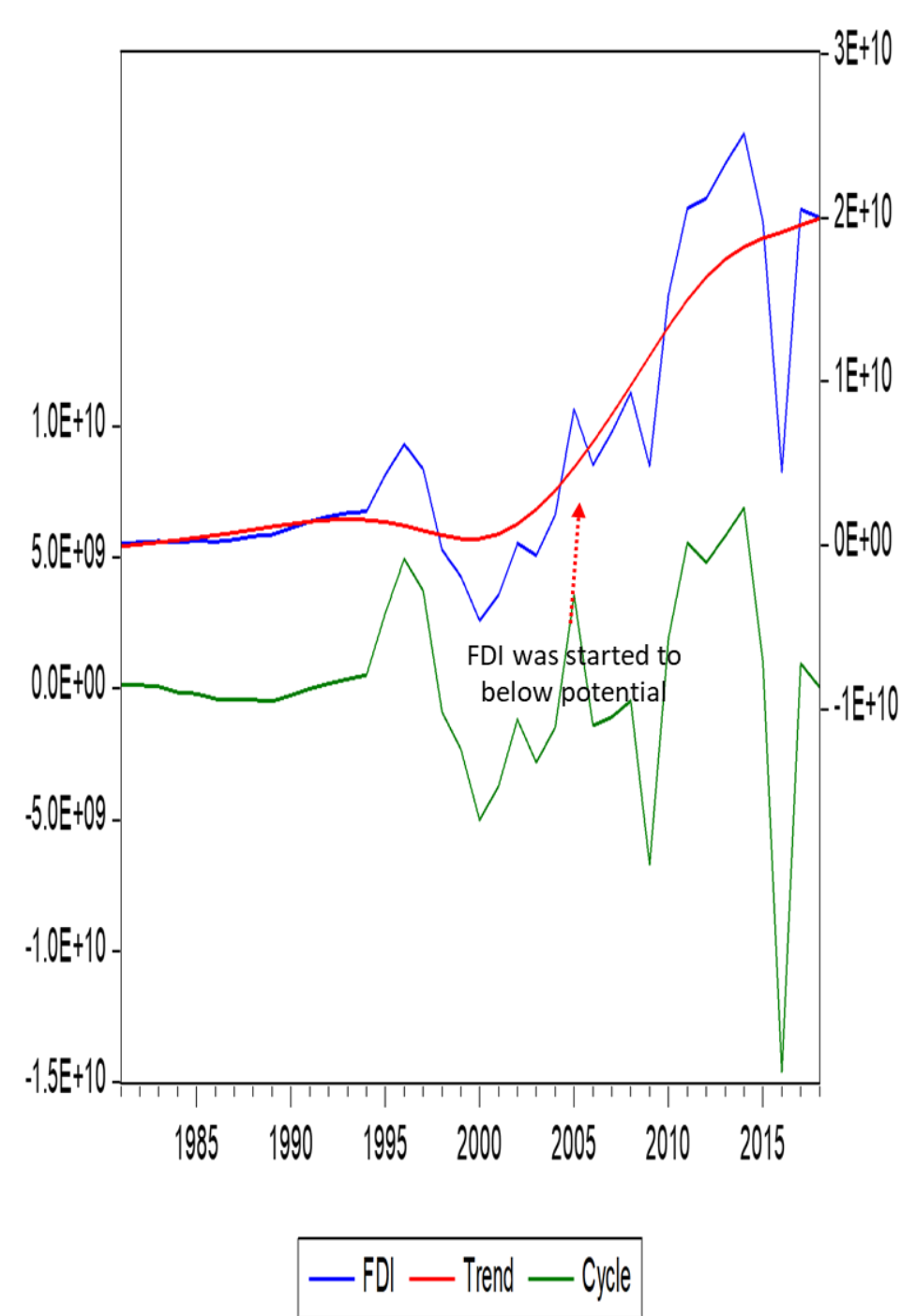
*black line: Openness*  
*grey line: TB*



Source: WDI-WB, Own Illustration, 2022

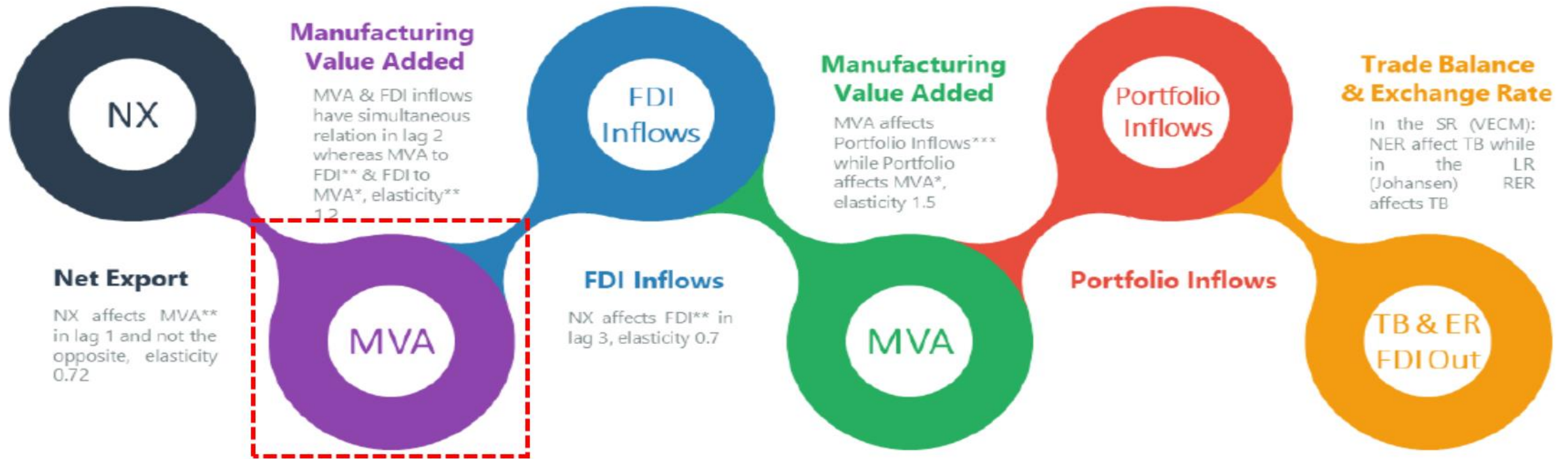


Source: Own calculation based on WDI Dataset, 2021



Source: Own Calculation based on WDI Dataset, 2018

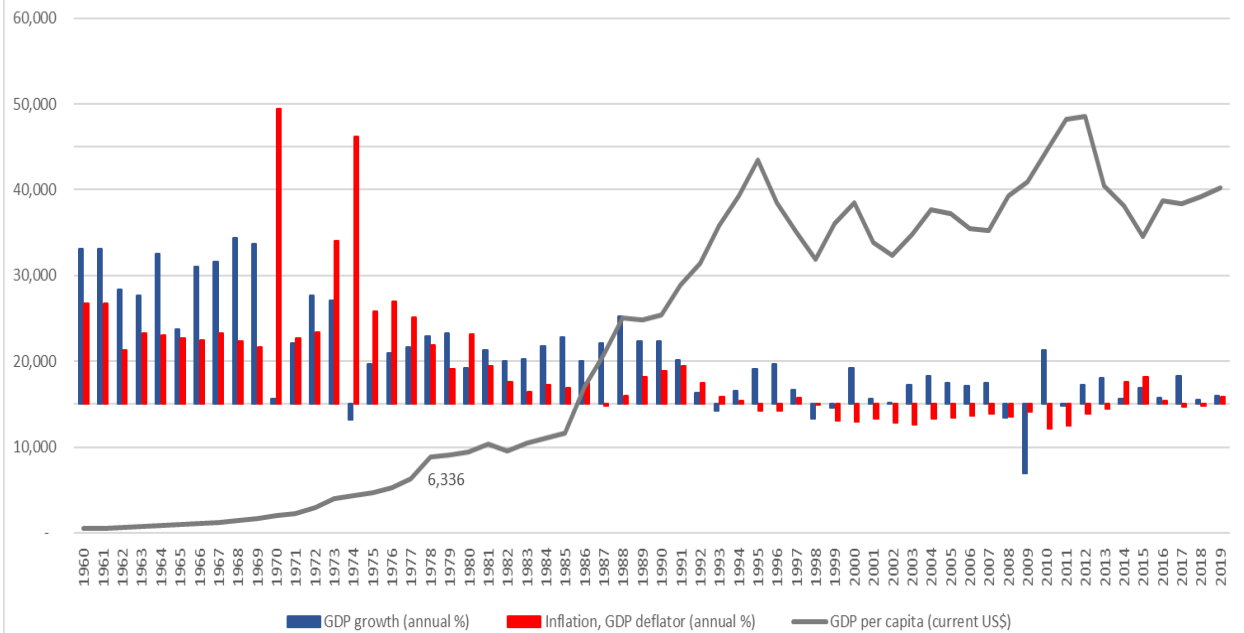
# RI'S YEARLY BASED DATA: 1987-2017, PORTFOLIO WITH MONTHLY BASED DATA



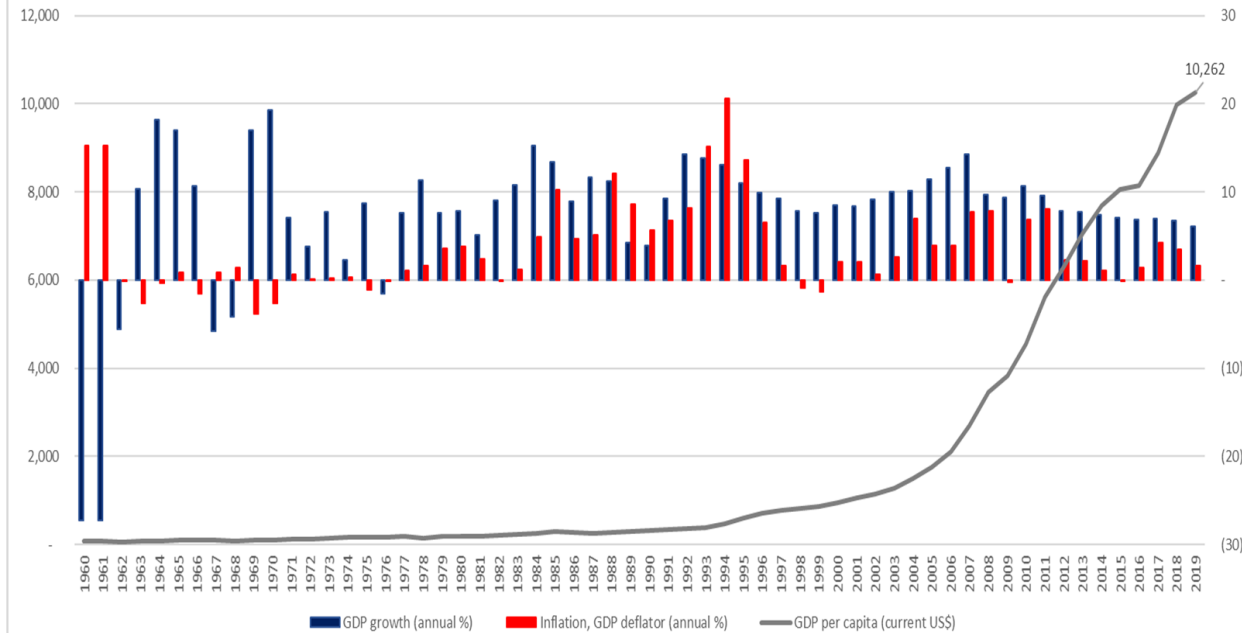
Source: Verico & Natanael,  
<https://econpapers.repec.org/paper/pramrapa/87947.htm>, 2018

Verico, K. & Natanael, Y., (2018). *Let's Talk about the FTA: the Five ASEAN Members Highlighting Indonesia* July 13rd, LPEM FEB UI Working Paper No 23, <http://www.lpem.org/let's-talk-about-the-free-trade-agreement-fta-the-five-asean-members-highlighting-indonesia/>

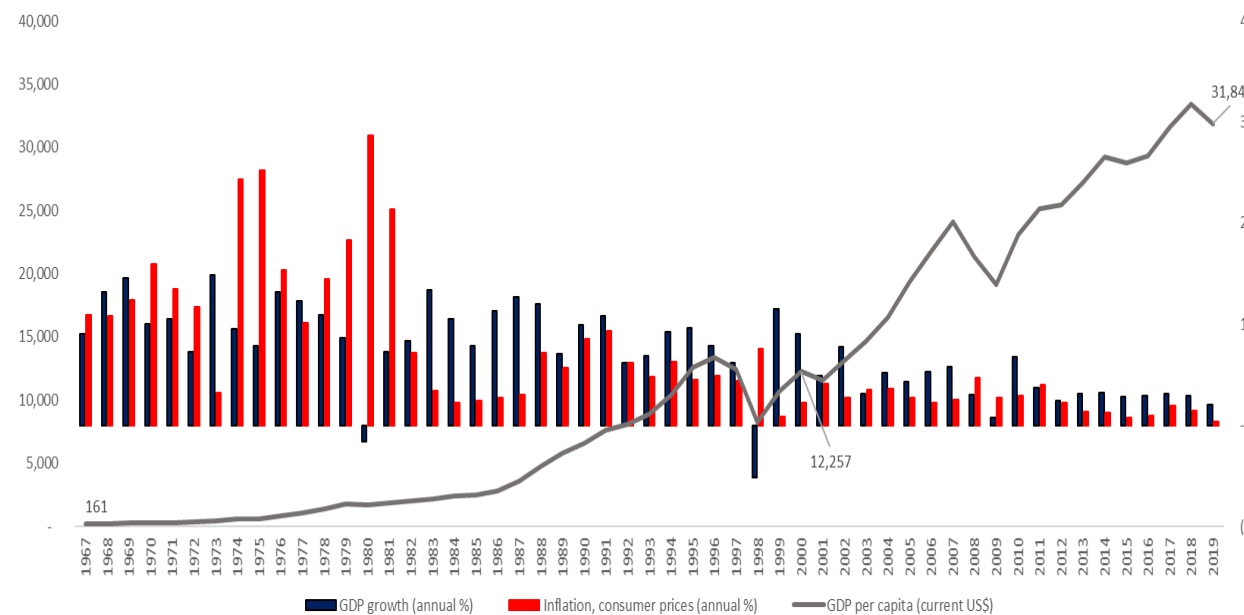
Japan 1960 - 2019



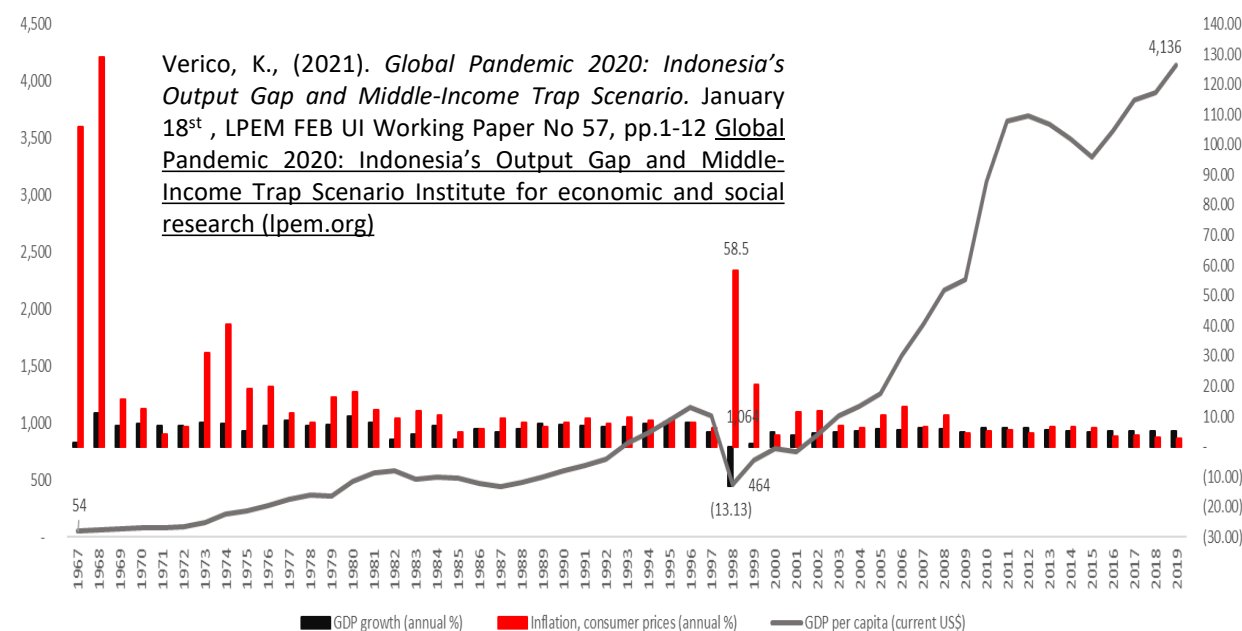
China 1960 - 2019



South Korea 1967 - 2019



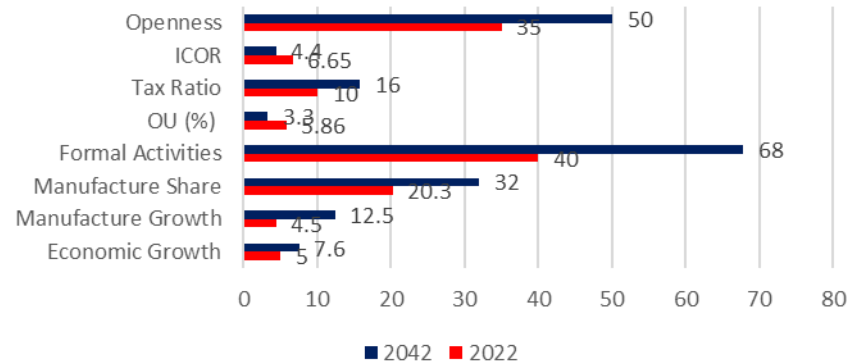
Indonesia 1967 - 2019



Pendidikan Tertinggi yang Ditamatkan	2020 Februari					
	Angkatan Kerja (AK)					
	Bekerja	Pengangguran	Jumlah AK	% Bekerja / AK	% Edukasi	%OU Edukasi
Tidak/belum pernah sekolah	3,396,863	35,761	3,432,624	98.96	2%	0.5%
Tidak/belum tamat SD	15,448,193	346,778	15,794,971	97.80	11%	5.0%
SD	33,188,745	1,006,744	34,195,489	97.06	24%	14.5%
SLTP	23,827,254	1,251,352	25,078,606	95.01	18%	18.1%
SLTA Umum/SMU	24,372,684	1,748,834	26,121,518	93.31	19%	25.3%
SLTA Kejuruan/SMK	15,690,637	1,443,522	17,134,159	91.58	12%	20.8%
Akademi/Diploma	3,732,368	267,583	3,999,951	93.31	3%	3.9%
Universitas	13,636,122	824,912	14,461,034	94.30	10%	11.9%
<b>Total</b>	<b>133,292,866</b>	<b>6,925,486</b>	<b>140,218,352</b>	<b>95.06</b>	<b>100%</b>	<b>100%</b>

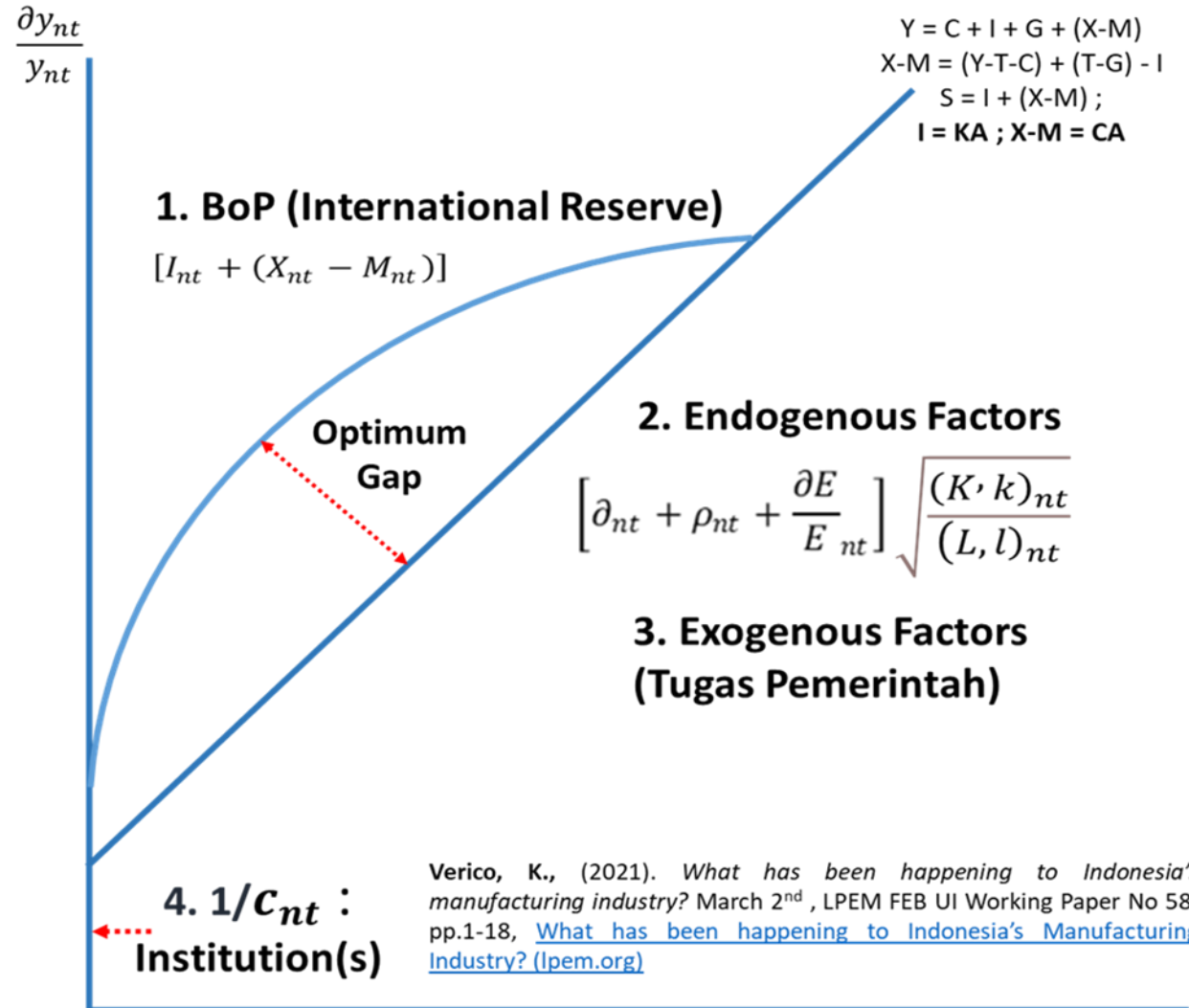
Source: BPS, 2020, Population 262 million

### Manufacture Transformation Indonesia





$$\frac{\Delta y_{it}}{y_{it}} = \frac{[i_{it} + (x_{it} - m_{it})] - \left[ (\partial_{it} + n_{it} + g_{it}) \sqrt{\frac{K_{it}}{l_{it}}} + (\partial_{it} + n_{it} + g_{it}) \sqrt{\frac{k_{it}}{l_{it}}} \right]}{icor_{it}}$$



1. Infrastruktur
2. Kualitas SDM
3. Transparansi Institusi
4. Tech-Transfer

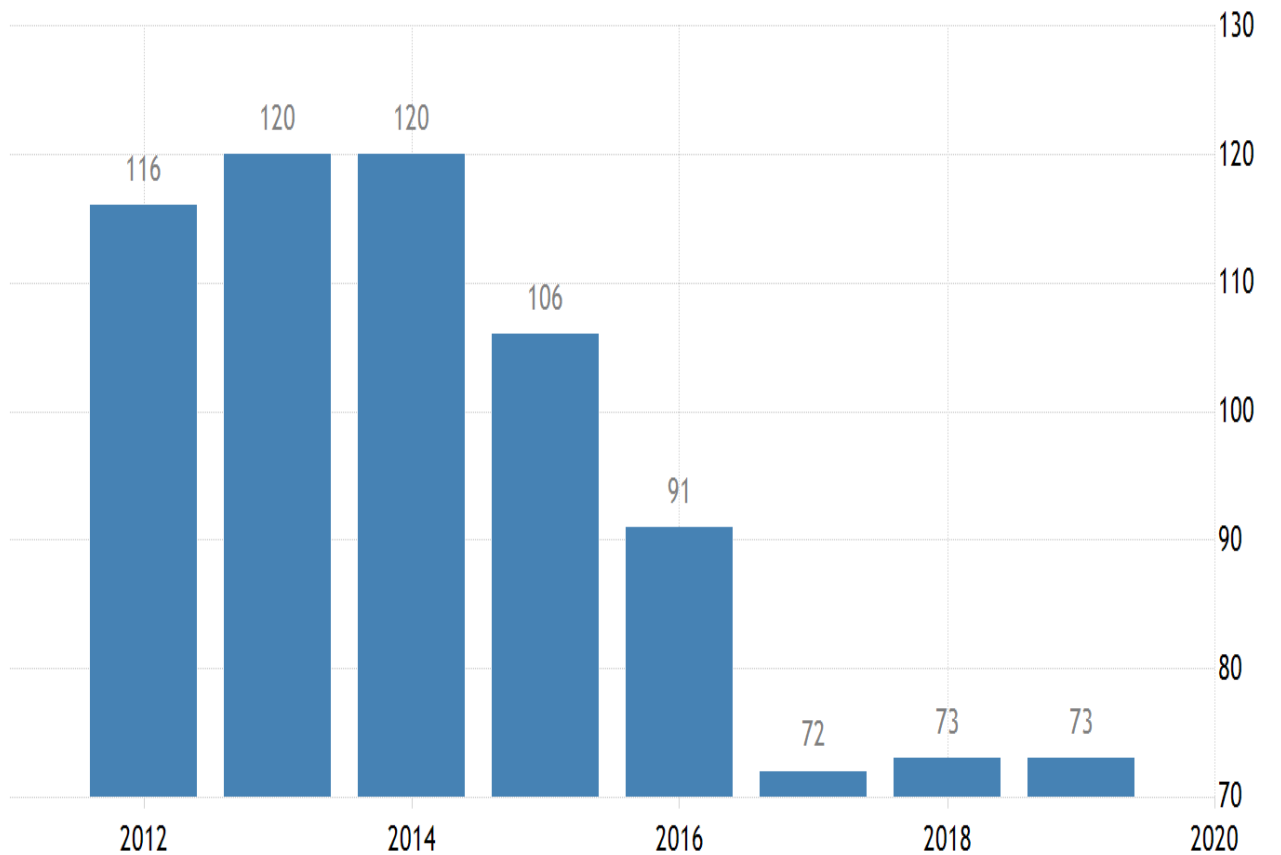
Verico, K., (2021). *What has been happening to Indonesia's manufacturing industry?* March 2<sup>nd</sup>, LPEM FEB UI Working Paper No 58, pp.1-18, [What has been happening to Indonesia's Manufacturing Industry? \(lpem.org\)](http://lpem.org)

# Infrastructure has been doing great

	2009		2013		2018	
<b>Indonesia</b>		n= 81		n= 277		n= 408
"1 <sup>st</sup> inquiry, done"	Insufficient infrastructure	75.3	Increased labor costs	82.0	Increased labor costs	71.1
	Time-consuming tax procedures	50.6	Insufficient infrastructure	73.2	Unclear policy management by local government	59.8
	Unclear policy management by local government	49.4	Unclear policy management by local government	58.5	Time-consuming tax procedures	59.3
<b>Vietnam</b>		n= 90		n= 435		n= 763
	Time-consuming administrative procedures	65.6	Underdeveloped legal systems and unclear legal system operation	67.5	Increased labor costs	60.4
	Insufficient infrastructure	63.3	Increased labor costs	66.6	Underdeveloped legal systems and unclear legal system operation	48.2
	Unclear policy management by local government	51.1	Time-consuming administrative procedures	66.1	Time-consuming tax procedures	40.2
<b>Thailand</b>		n= 383		n= 825		n= 579
	Political or social instability	64.8	Increased labor costs	68.7	Increased labor costs	61.0
	Unclear policy management by local government	33.4	Labor shortage or difficulty in recruiting	47.8	Political or social instability	43.2
	Time-consuming administrative procedures	33.2	Political or social instability	42.3	Labor shortage or difficulty in recruiting (specialists/engineers/middle-managers)	33.3
<b>Philippines</b>		n= 87		n= 150		n= 123
	Insufficient infrastructure	73.6	Insufficient infrastructure	60.0	Unclear policy management by local government	64.2
	Political or social instability	58.6	Time-consuming tax procedures	48.3	Insufficient infrastructure	61.8
	Unclear policy management by local government	55.2	Time-consuming administrative procedures	36.6	Time-consuming tax procedures	49.6

※Answers in 2009 are only from manufacturers

HDI RANK	Human Development Index (HDI)	SDG 3	SDG 4.3	SDG 4.4	SDG 8.5	GNI per capita rank minus HDI rank	HDI rank
	Value	Life expectancy at birth	Expected years of schooling	Mean years of schooling	Gross national income (GNI) per capita		
		(years)	(years)	(years)	(2017 PPP \$)		
	2021	2021	2021 <sup>a</sup>	2021 <sup>a</sup>	2021	2021 <sup>a</sup>	2020
63	Georgia	0.802	71.7	15.6	12.8	14,664	17
63	Mauritius	0.802	73.6	15.2 <sup>a</sup>	10.4 <sup>a</sup>	22,025	-1
63	Serbia	0.802	74.2	14.4	11.4	19,123	4
66	Thailand	0.800	78.7	15.9 <sup>m</sup>	8.7	17,030	6
<b>High human development</b>							
67	Albania	0.796	76.5	14.4	11.3 <sup>a</sup>	14,131	17
68	Bulgaria	0.795	71.8	13.9	11.4	23,079	-8
68	Grenada	0.795	74.9	18.7 <sup>ca</sup>	9.0 <sup>i</sup>	13,484	18
70	Barbados	0.790	77.6	15.7 <sup>a</sup>	9.9 <sup>m</sup>	12,306	26
71	Antigua and Barbuda	0.788	78.5	14.2 <sup>a</sup>	9.3 <sup>i</sup>	16,792	2
72	Seychelles	0.785	71.3	13.9	10.3	25,831	-17
73	Sri Lanka	0.782	76.4	14.1 <sup>a</sup>	10.8	12,578	21
74	Bosnia and Herzegovina	0.780	75.3	13.8 <sup>i</sup>	10.5	15,242	4
75	Saint Kitts and Nevis	0.777	71.7	15.4 <sup>a</sup>	8.7 <sup>i</sup>	23,358	-16
76	Iran (Islamic Republic of)	0.774	73.9	14.6	10.6 <sup>a</sup>	13,001	15
77	Ukraine	0.773	71.6	15.0 <sup>a</sup>	11.1 <sup>m</sup>	13,256	11
78	North Macedonia	0.770	73.8	13.6 <sup>a</sup>	10.2	15,918	-3
79	China	0.768	78.2	14.2 <sup>a</sup>	7.6 <sup>m</sup>	17,504	-8
80	Dominican Republic	0.767	72.6	14.5 <sup>a</sup>	9.3 <sup>a</sup>	17,990	-11
80	Moldova (Republic of)	0.767	68.8	14.4	11.8	14,875	-1
80	Palau	0.767	66.0	15.8 <sup>a</sup>	12.5 <sup>p</sup>	13,819	5
83	Cuba	0.764	73.7	14.4	12.5 <sup>a</sup>	7,879 <sup>a</sup>	37
84	Peru	0.762	72.4	15.4 <sup>a</sup>	9.9 <sup>a</sup>	12,246	13
85	Armenia	0.759	72.0	13.1	11.3	13,158	4
86	Mexico	0.758	70.2	14.9	9.2	17,896	-16
87	Brazil	0.754	72.8	15.6	8.1 <sup>a</sup>	14,370	-5
88	Colombia	0.752	72.8	14.4	8.9	14,384	-7
89	Saint Vincent and the Grenadines	0.751	69.6	14.7 <sup>a</sup>	10.8	11,961	11
90	Maldives	0.747	79.9	12.6	7.3	15,448	-14
91	Algeria	0.745	76.4	14.6 <sup>m</sup>	8.1 <sup>a</sup>	10,800	13
91	Azerbaijan	0.745	69.4	13.5	10.5	14,257	-8
91	Tonga	0.745	71.0	16.0	11.4 <sup>m</sup>	6,822	34
91	Turkmenistan	0.745	69.3	13.2	11.3	13,021	-1
95	Ecuador	0.740	73.7	14.6	8.8	10,312	11
96	Mongolia	0.739	71.0	15.0	9.4	10,588	9
97	Egypt	0.731	70.2	13.8 <sup>a</sup>	9.6 <sup>a</sup>	11,732	4
97	Tunisia	0.731	73.8	15.4 <sup>a</sup>	7.4 <sup>a</sup>	10,258	10
99	Fiji	0.730	67.1	14.7 <sup>a</sup>	10.9 <sup>a</sup>	9,980	9
99	Suriname	0.730	70.3	13.0 <sup>m</sup>	9.8 <sup>m</sup>	12,672	-6
101	Uzbekistan	0.727	70.9	12.5	11.9	7,917	18
102	Dominica	0.720	72.8	13.3 <sup>a</sup>	8.1 <sup>i</sup>	11,488	0
102	Jordan	0.720	74.3	10.6	10.4	9,924	8
104	Libya	0.718	71.9	12.9 <sup>i</sup>	7.6 <sup>r</sup>	15,336	-27
105	Paraguay	0.717	70.3	13.0 <sup>a</sup>	8.9	12,349	-10
106	Palestine, State of	0.715	73.5	13.4	9.9	6,583	21
106	Saint Lucia	0.715	71.1	12.9	8.5	12,048	-7
108	Guyana	0.714	65.7	12.5 <sup>a</sup>	8.6	22,465	-47
109	South Africa	0.713	62.3	13.6	11.4	12,948	-17
110	Jamaica	0.709	70.5	13.4 <sup>m</sup>	9.2 <sup>a</sup>	8,834	4
111	Samoa	0.707	72.8	12.4	11.4	5,308	24
112	Gabon	0.706	65.8	13.0 <sup>i</sup>	9.4	13,367	-25
112	Lebanon	0.706	75.0	11.3 <sup>p</sup>	8.7 <sup>i</sup>	9,526	-1
114	Indonesia	0.705	67.6	13.7 <sup>a</sup>	8.6	11,466	-11
115	Viet Nam	0.703	73.6	13.0 <sup>i</sup>	8.4	7,867	6
<b>Medium human development</b>							
116	Philippines	0.699	69.3	13.1	9.0	8,920	-3
117	Botswana	0.693	61.1	12.3 <sup>a</sup>	10.3	16,198	-43
118	Bolivia (Plurinational State of)	0.692	63.6	14.9	9.8	8,111	0
118	Kyrgyzstan	0.692	70.0	13.2	11.4 <sup>m</sup>	4,566	26
120	Venezuela (Bolivarian Republic of)	0.691	70.6	12.8 <sup>p</sup>	11.1 <sup>a</sup>	4,811 <sup>i</sup>	20
121	Iraq	0.686	70.4	12.1 <sup>i</sup>	7.9 <sup>m</sup>	9,977	-12
122	Tajikistan	0.685	71.6	11.7 <sup>a</sup>	11.3 <sup>m</sup>	4,548	23
123	Belize	0.683	70.5	13.0	8.8	6,309	6



TRADINGECONOMICS.COM | WORLD BANK



TABLE 1 / HUMAN DEVELOPMENT INDEX AND ITS COMPONENTS

Continued →

## Pioneer Industry

☐ Intermediate Goods, Capital Intensive, High-Risk, Advanced & New Technology

## FDI Inflows Motives

1. Market Seeking (FP) 
2. Raw Material Seeking (FP)
3. Intermediate Input Production Network Seeking (BP) 
4. RnDD – Machinery Production Network Seeking (BP)
5. Mixed Motives (FP & BP)

## Tech Transfer Model

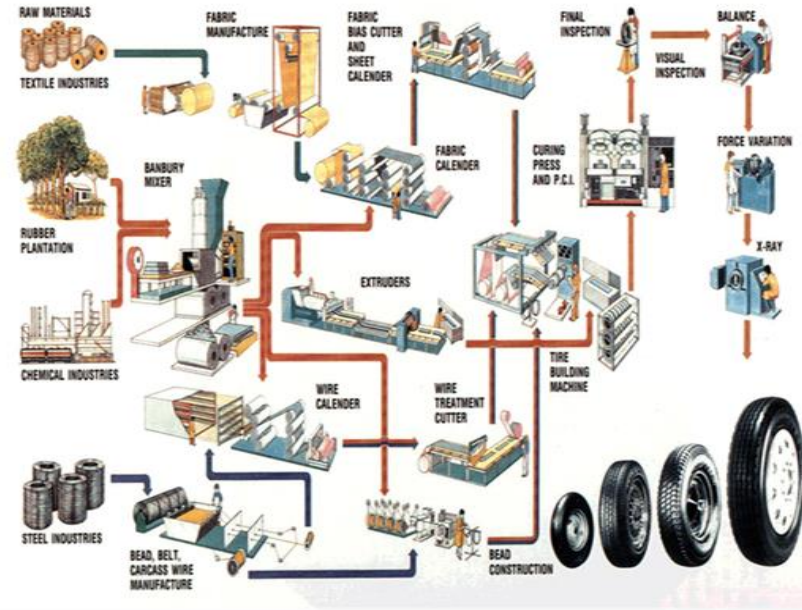
1. Catching up
2. Leading edge
3. Comparative advantage
4. Short-cycle transformation
5. Strategic industries

(Justin Yifu Lin, 2020)

# IR 2.0 (1870-1970s)



[https://scontent.cdninstagram.com/hphotos-xfa1/t51.2885-15/s306x306/e15/10986254\\_620265724773402\\_1398315305\\_n.jpg](https://scontent.cdninstagram.com/hphotos-xfa1/t51.2885-15/s306x306/e15/10986254_620265724773402_1398315305_n.jpg)

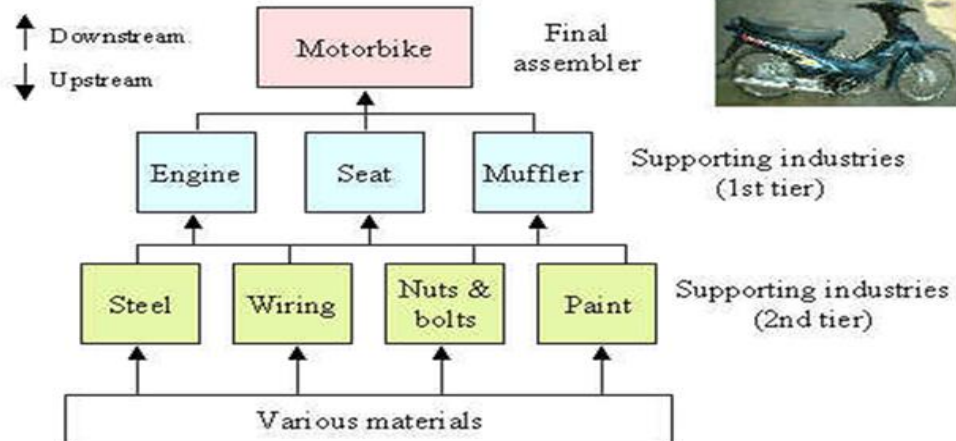


Source <http://www.emt-india.net/process/tyre/tyre.htm>

Government Led (17-19<sup>th</sup> C);  
Government – MNCs Led (19<sup>th</sup>-20<sup>th</sup>); Start Up Led - Government? (20<sup>th</sup>- ?)



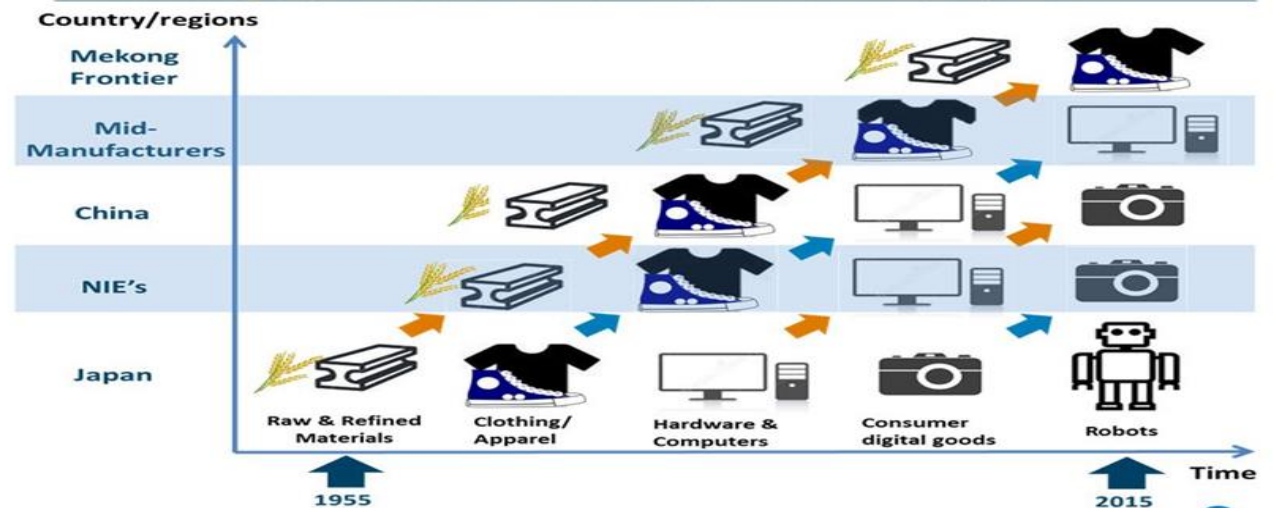
## Supporting Industries (the case of motorbike)



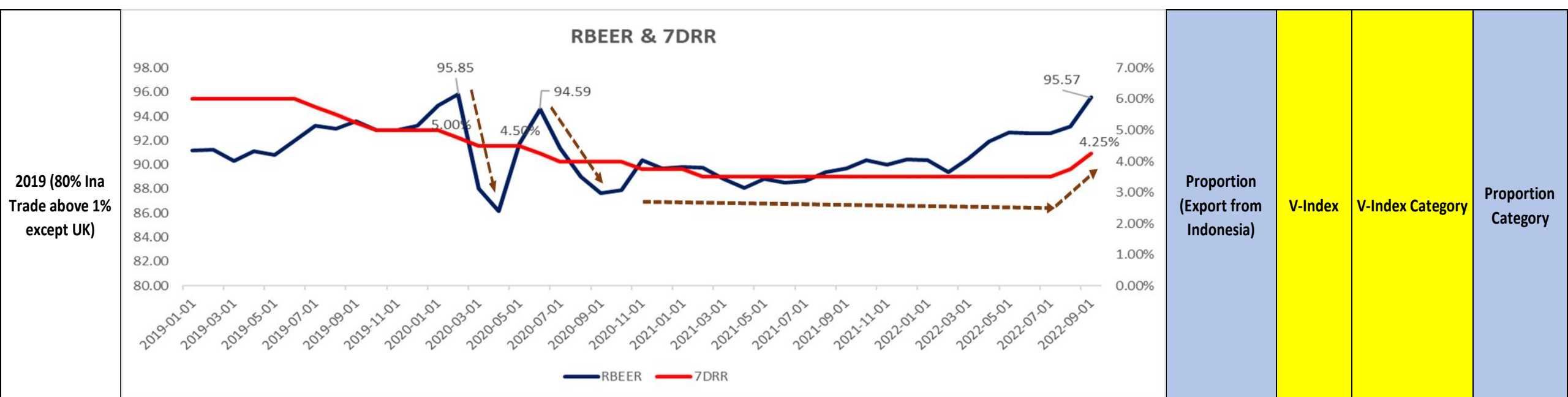
[http://www.grips.ac.jp/teacher/oono/hp/lecture\\_F/lec06.htm](http://www.grips.ac.jp/teacher/oono/hp/lecture_F/lec06.htm)

## The Last of the Flying Geese

"Cascading Up" Value chains will remain a key dynamic



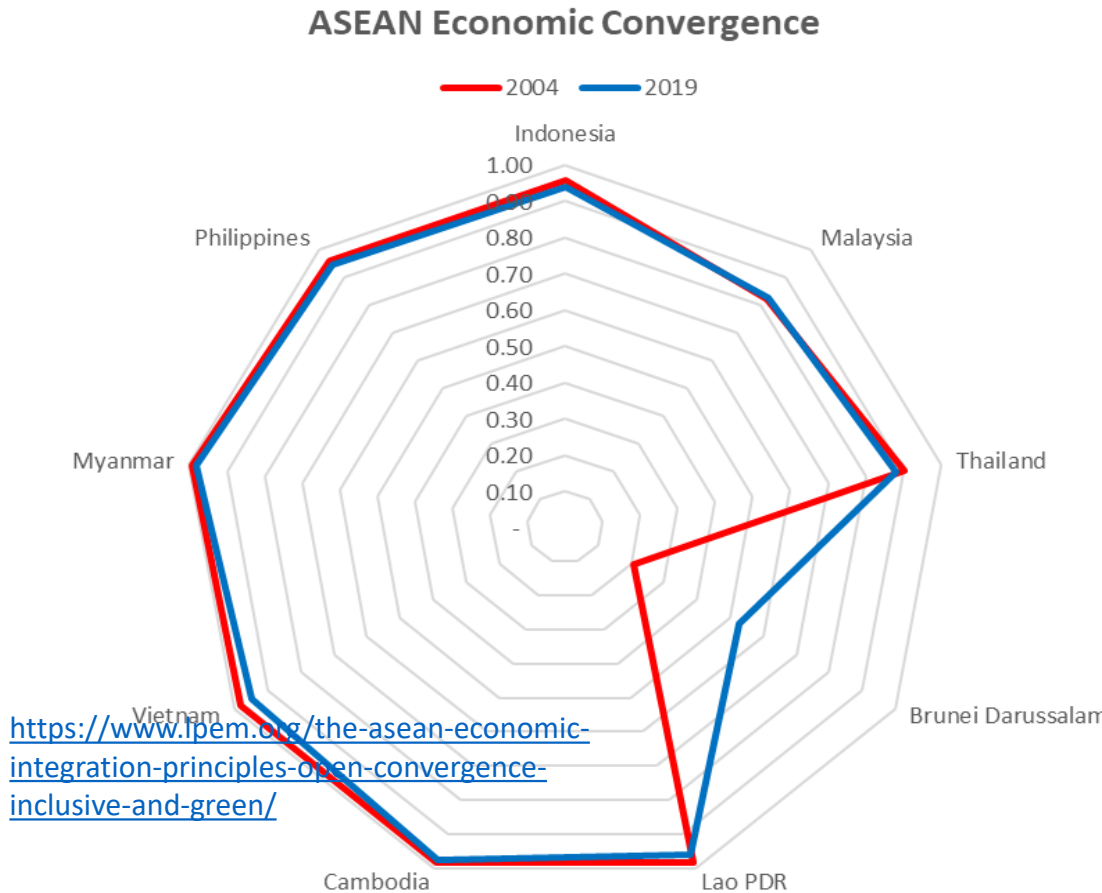
State\Momentum	Resilience	Sunrise	Sunset	Suffer																																															
Great	Chemicals, Pharmaceutical and Traditional Medicine	<p><b>Pertumbuhan dan Laju Inflasi yoy 1Q20-1Q21 (-2.01;1.68)</b></p> <table border="1"> <caption>Data for Growth and Inflation Rates (yoy)</caption> <thead> <tr> <th>Quarter</th> <th>AG</th> <th>AP</th> <th>AM</th> </tr> </thead> <tbody> <tr> <td>Q1 2020</td> <td>2.06</td> <td>2.97</td> <td>2.96</td> </tr> <tr> <td>Q2 2020</td> <td>-5.32</td> <td>1.96</td> <td>-6.19</td> </tr> <tr> <td>Q3 2020</td> <td>-3.49</td> <td>1.01</td> <td>-4.31</td> </tr> <tr> <td>Q4 2020</td> <td>-2.19</td> <td>0.79</td> <td>-3.14</td> </tr> <tr> <td>Q1 2021</td> <td>-0.74</td> <td>1.43</td> <td>-1.38</td> </tr> <tr> <td>Q2 2021</td> <td>7.07</td> <td>1.46</td> <td>6.58</td> </tr> <tr> <td>Q3 2021</td> <td>3.68</td> <td>1.57</td> <td>3.51</td> </tr> <tr> <td>Q4 2021</td> <td>5.02</td> <td>3</td> <td>4.92</td> </tr> <tr> <td>Q1 2022</td> <td>5.07</td> <td>2.29</td> <td>5.01</td> </tr> <tr> <td>Q2 2022</td> <td>5.44</td> <td>3.99</td> <td>5.44</td> </tr> <tr> <td>Q3 2022</td> <td>5.72</td> <td>4.83</td> <td>5.72</td> </tr> </tbody> </table>	Quarter	AG	AP	AM	Q1 2020	2.06	2.97	2.96	Q2 2020	-5.32	1.96	-6.19	Q3 2020	-3.49	1.01	-4.31	Q4 2020	-2.19	0.79	-3.14	Q1 2021	-0.74	1.43	-1.38	Q2 2021	7.07	1.46	6.58	Q3 2021	3.68	1.57	3.51	Q4 2021	5.02	3	4.92	Q1 2022	5.07	2.29	5.01	Q2 2022	5.44	3.99	5.44	Q3 2022	5.72	4.83	5.72	<p>Source: Verico, 2023</p>
	Quarter		AG	AP	AM																																														
	Q1 2020		2.06	2.97	2.96																																														
	Q2 2020		-5.32	1.96	-6.19																																														
	Q3 2020		-3.49	1.01	-4.31																																														
Q4 2020	-2.19		0.79	-3.14																																															
Q1 2021	-0.74		1.43	-1.38																																															
Q2 2021	7.07		1.46	6.58																																															
Q3 2021	3.68		1.57	3.51																																															
Q4 2021	5.02		3	4.92																																															
Q1 2022	5.07	2.29	5.01																																																
Q2 2022	5.44	3.99	5.44																																																
Q3 2022	5.72	4.83	5.72																																																
Furniture																																																			
Water Supply, Sewerage, Waste & Recycling Management																																																			
Accommodation & Food Beverages Activity																																																			
Information & Communication																																																			
Human Health & Social Work Activity																																																			
Inclining	Mining & Quarrying																																																		
	Manufacturing Industry																																																		
	Leather, Leather Products & Footwear																																																		
	Basic Metals																																																		
	Machinery and Equipment																																																		
	Transport Equipment																																																		
Declining	Electricity & Gas Supply																																																		
	Wholesales and Retail Trade, Repair of Motor Vehicles and Motorcycles																																																		
	Food & Beverages	Textile & Wearing Apparel	Education Services																																																
	Other Manufacturing, Repair Services and Installation of Machinery	Paper, Paper Product, Printing & Reproduction																																																	
	Construction																																																		
	Transportation & Storage																																																		
Suffer	Financial & Insurance Activity																																																		
	Real Estate																																																		
	Business Services																																																		
Suffer	Other Services																																																		
	Coal; Oil & Gas Refinery	Agriculture, Forestry and Fisheries	Rubber and Product of Rubber and Plastics																																																
	Non-Metallic Quarrying	Tobacco Processing	Public Administration, Defense & Compulsory Social Security																																																
	Metal Product, Computer, Electronic, Optic and Electricity Equipment	Wood, Articles of Wood-Cork & Woven Goods of Bamboo, Rattan and the like																																																	



	SIZE	PP	ACC	LA	PRO	POWER	SUSTAIN	DISCIPLINE	FDI	AGRI	MANUF	HIGHTCH	TS	RND	OPEN	Proportion (Export from Indonesia)	V-Index	V-Index Category	Proportion Category
Indonesia																			
China	0.67	1.00	0.90	0.14	0.57	0.16	0.88	0.48	0.08	0.28	1.00	0.49	0.05	0.45	0.11	15.05%	0.34	High	High
Japan	0.24	0.23	0.10	0.30	0.16	0.62	0.25	0.91	0.55	0.49	0.76	0.27	0.07	0.68	0.12	10.81%	0.30	Upper Middle	High
USA	1.00	0.91	0.32	0.20	0.16	1.00	0.55	0.48	0.10	0.65	0.41	0.30	0.06	0.59	0.08	10.25%	0.33	High	High
India	0.13	0.41	0.62	0.14	0.21	0.03	0.83	0.37	0.05	0.38	0.50	0.17	0.11	0.14	0.12	7.62%	0.20	Lower Middle	Upper Middle
Singapore	0.02	0.02	0.11	0.23	0.04	1.00	0.55	0.28	1.00	1.00	0.73	0.84	1.00	0.46	1.00	7.21%	0.30	Upper Middle	Upper Middle
Korea	0.08	0.10	0.30	0.19	0.33	0.49	0.68	0.93	0.24	0.32	0.93	0.52	0.13	1.00	0.24	5.29%	0.33	High	Upper Middle
Malaysia	0.02	0.04	0.64	0.22	1.00	0.17	0.95	0.81	0.24	0.71	0.79	0.83	0.21	0.27	0.39	5.24%	0.32	Upper Middle	Upper Middle
Philippines	0.02	0.04	0.89	0.32	0.24	0.05	0.62	0.60	0.10	0.39	0.68	1.00	0.17	0.02	0.21	3.79%	0.19	Lower Middle	Lower Middle
Thailand	0.03	0.06	0.35	1.00	0.47	0.12	0.69	0.27	0.21	0.26	0.93	0.38	0.24	0.21	0.35	3.78%	0.26	Upper Middle	Lower Middle
Vietnam	0.01	0.03	1.04	0.35	0.58	0.04	0.96	0.50	0.02	0.38	0.61	0.65	0.13	0.04	0.66	2.54%	0.19	Lower Middle	Lower Middle
Netherlands	0.04	0.05	0.25	0.21	0.08	0.80	0.87	0.34	0.96	0.80	0.40	0.37	0.39	0.45	0.49	2.16%	0.31	Upper Middle	Lower Middle
Australia	0.07	0.06	0.32	0.14	0.09	0.84	0.69	0.30	0.08	0.84	0.21	0.26	0.09	0.44	0.14	1.55%	0.21	Lower Middle	Lower Middle
Germany	0.18	0.20	0.08	0.23	0.04	0.71	0.99	0.50	0.39	0.60	0.70	0.35	0.17	0.64	0.28	1.50%	0.30	Upper Middle	Lower Middle
Pakistan	0.01	0.05	0.15	0.18	0.02	0.02	0.78	0.37	0.00	0.60	0.46	0.04	0.05	0.06	0.10	1.37%	0.06	Low	Lower Middle
Spain	0.07	0.09	0.29	0.05	0.21	0.45	0.63	0.21	0.21	0.66	0.41	0.11	0.16	0.26	0.21	1.25%	0.21	Lower Middle	Lower Middle
Italy	0.09	0.12	0.05	0.07	0.07	0.51	0.45	0.53	0.18	0.50	0.55	0.13	0.11	0.29	0.19	1.07%	0.19	Lower Middle	Lower Middle
UK	0.13	0.14	0.22	0.19	0.12	0.65	0.70	0.73	0.27	0.59	0.32	0.38	0.22	0.36	0.20	0.81%	0.29	Upper Middle	Low

# Bilateral Indonesia – Country: *Strategic & Important Economic Partner*

	SIZE	PP	ACC	LA	PRO	POWER	SUSTAIN	DISCIPLINE	FDI	AGRI	MANUF	HIGHTCH	TS	RND	OPEN	EXPORT	IMPORT	FDIIN	FDIOUT	TRADE	INVESTMENT	PRODUCTION NETWORK)
China	Export	Export	Import	Export	FDIOut	FDIIn	FDIOut	FDIIn	FDIIn	FDIIn	FDIOut	FDIIn	FDIOut	FDIIn	Import	3	2	6	4	Export	FDIIn	PNF
Japan	Export														Import	3	2	8	2	Export	FDIIn	PNF
USA	Export														Import	4	1	9	1	Export	FDIIn	PNF
India	Export														Export	4	1	6	4	Export	FDIIn	PNF
Singapore	Import														Export	3	2	8	2	Export	FDIIn	PNF
Korea	Export														Export	5	0	7	3	Export	FDIIn	PNF
Malaysia	Import														Export	3	2	4	6	Export	N	PNT
Philippines	Import														Export	2	3	5	5	N	N	PNT
Thailand	Import														Export	3	2	8	2	Export	FDIIn	PNF
Vietnam	Import														Export	1	4	3	7	N	N	PNT
Netherlands	Import														Export	3	2	8	2	Export	FDIIn	PNF
Australia	Export														Export	5	0	9	1	Export	FDIIn	PNF
Germany	Export														Export	4	1	7	3	Export	FDIIn	PNF
Pakistan	Import														Import	2	3	3	7	N	N	PNT
Spain	Export														Export	5	0	8	2	Export	FDIIn	PNF
Italy	Export														Export	5	0	8	2	Export	FDIIn	PNF
UK	Export	Export	Export	Export	FDIIn	FDIIn	FDIIn	FDIOut	FDIOut	FDIOut	FDIIn	FDIIn	FDIIn	FDIIn	Export	5	0	7	3	Export	FDIIn	PNF



Verico, K (2020). The Weighted Composite Index Analysis of Indonesia’s Bilateral Economic Agreements, *Journal of Asia – Pacific Studies*, 38 (Special Issue on the Retirement of Professor Shujiro Urata), pp. 121-136

Verico, K (2022). What do Macroeconomic Composite Indexes say about Indonesia’s Economic Networks? *International Journal of Trade and Global Markets*, Vol. No. pp. forthcoming

[Indonesia: A bright spot in a dark global economy - Academia - The Jakarta Post](#)



Great (RCA>1;CMSA>0)  
 Sunset (RCA>1;CMSA<0)  
 Sunrise (RCA<1;CMSA>0)  
 Suffer (RCA<1;CMSA<0)

[How Indonesia Sees the Indo-Pacific Economic Architecture - The National Bureau of Asian Research \(NBR\)](#)

[How to Measure Bilateral Economic Relations? Case of Indonesia – Australia Institute for economics and social research \(lpem.org\)](#)

Verico, K and T. Riefky (2022). Bilateral Trade and Investment Relations Analysis: Indonesia and South Korea. *International Journal of Business and Society*, Vol.23 No.2, pp. 714-750, DOI:<https://doi.org/10.33736/ijbs.4835.2022>

<b>Ina Australia</b>	<b>Suffer</b>	<b>Sunset</b>	<b>Sunrise</b>	<b>Great</b>
<b>Suffer</b>	Trade	Trade	Trade	Trade
<b>Sunset</b>	Trade	Trade	<b>FDI Inflows</b>	Trade
<b>Sunrise</b>	Trade	<b>FDI Outflows</b>	Trade	Trade
<b>Great</b>	Trade	Trade	Trade	Trade

- Notes for partners:**
1. USA & its ruling party
  2. China and India with GVCs
  3. Malaysia, Brunei & ASEAN
  4. Middle Power Countries of Indo-Pacific
  5. Future potential manufacturers

Combination		Australia				
		Poor	Sunset	Sunrise	Great	Total
Indonesia	Poor	295	27	230	32	584
	Sunset	50	3	54	4	111
	Sunrise	168	17	184	18	387
	Great	68	5	67	10	150
	Total	581	52	535	64	1,232

HS4	Product	Indonesia	Australia	Bilateral
'0104	Live sheep and goats	Sunrise	Sunset	FDI/Out
'0202	Meat of bovine animals, frozen	Sunrise	Sunset	FDI/Out
'0406	Cheese and curd	Sunrise	Sunset	FDI/Out
'0510	Ambergris, castoreum, civet and musk; cantharides; bile, whether or not dried; glands and other ...	Sunrise	Sunset	FDI/Out
'1109	Wheat gluten, whether or not dried	Sunrise	Sunset	FDI/Out
'1205	Rape or colza seeds, whether or not broken	Sunrise	Sunset	FDI/Out
'1214	Swedes, mangolds, fodder roots, hay, alfalfa, clover, sainfoin, forage kale, lupines, vetches ...	Sunrise	Sunset	FDI/Out
'1505	Wool grease and fatty substances derived therefrom, incl. lanolin	Sunrise	Sunset	FDI/Out
'2301	Flours, meals and pellets, of meat or meat offal, of fish or of crustaceans, molluscs or other ...	Sunrise	Sunset	FDI/Out
'2608	Zinc ores and concentrates	Sunrise	Sunset	FDI/Out
'3206	Inorganic or mineral colouring matter, n.e.s.; preparations based on inorganic or mineral colouring ...	Sunrise	Sunset	FDI/Out
'3504	Peptones and their derivatives; other protein substances and their derivatives, n.e.s.; hide ...	Sunrise	Sunset	FDI/Out
'4707	Recovered "waste and scrap" paper or paperboard (excluding paper wool)	Sunrise	Sunset	FDI/Out
'4804	Uncoated kraft paper and paperboard, in rolls of a width > 36 cm or in square or rectangular ...	Sunrise	Sunset	FDI/Out
'7505	Bars, rods, profiles and wire, of nickel (excluding electrically insulated products)	Sunrise	Sunset	FDI/Out
'7602	Waste and scrap, of aluminium (excluding slags, scale and the like from iron and steel production, ...)	Sunrise	Sunset	FDI/Out
'9019	Mechano-therapy appliances; massage apparatus; psychological aptitude-testing apparatus; ozone ...	Sunrise	Sunset	FDI/Out

		TOTAL	RCA19RI	RCA19Korea	CMSA3RI	CMSA3Korea	RI	South Korea	Bilateral
'0208	Meat and edible offal of rabbits, hares, pigeons and other animals, fresh, chilled or frozen ...	2.14	1.91	-5,458	3,025	Sunset	Sunrise	FDI/In	
'0306	Crustaceans, whether in shell or not, live, fresh, chilled, frozen, dried, salted or in brine, ...	5.46	1.46	-249,089	-169,588	Sunset	Sunrise	FDI/In	
'0902	Tea, whether or not flavoured	1.36	0.08	-38,588	2,215	Sunset	Sunrise	FDI/In	
'0904	Pepper of the genus Piper; dried or crushed or ground fruits of the genus Capsicum or of the ...	4.58	0.06	-254,102	1,729	Sunset	Sunrise	FDI/In	
'0906	Cinnamon and cinnamon-tree flowers	20.14	0.02	-25,409	-653	Sunset	Sunrise	FDI/In	
'1301	Lac; natural gums, resins, gum-resins, balsams and other natural oleoresins	6.28	0.10	-6,600	445	Sunset	Sunrise	FDI/In	
'1513	Coconut "copra", palm kernel or babassu oil and fractions thereof, whether or not refined, ...	44.88	0.03	-103,479	1,281	Sunset	Sunrise	FDI/In	
'1803	Cocoa paste, whether or not defatted	5.10	0.00	-130,594	-552	Sunset	Sunrise	FDI/In	
'1805	Cocoa powder, not containing added sugar or other sweetening matter	6.66	0.03	-582	-287	Sunset	Sunrise	FDI/In	
'1903	Tapioca and substitutes therefor prepared from starch, in the form of flakes, grains, pearls, ...	2.31	0.10	-6,334	-255	Sunset	Sunrise	FDI/In	
'2008	Fruits, nuts and other edible parts of plants, prepared or preserved, whether or not containing ...	1.48	0.16	-25,598	-7,188	Sunset	Sunrise	FDI/In	
'2302	Bran, sharps						Sunrise	FDI/In	
'2603	Copper ores						Sunrise	FDI/In	
'2711	Petroleum g						Sunrise	FDI/In	
'2813	Sulphides of						Sunrise	FDI/In	
'2915	Saturated ac						Sunrise	FDI/In	
'2922	Oxygen-func						Sunrise	FDI/In	
'3401	Soap; organi						Sunrise	FDI/In	
'3605	Matches (exi						Sunrise	FDI/In	
'4001	Natural rubb						Sunrise	FDI/In	
'4414	Wooden frar						Sunrise	FDI/In	
'4417	Tools; tool h						Sunrise	FDI/In	
'4820	Regi						Sunrise	FDI/In	
'4822	Bobl						Sunrise	FDI/In	
'5514	Wov						Sunrise	FDI/In	
'5515	Wov						Sunrise	FDI/In	
'5705	Carpets and other textile floor coverings, whether or not made up (excluding knotted, woven ...	1.15	0.15	-796	232	Sunset	Sunrise	FDI/In	
'5906	Rubberised textile fabrics (excluding tyre cord fabric of high-tenacity yarn of nylon or other ...	1.25	0.12	-6,330	964	Sunset	Sunrise	FDI/In	
'6101	Men's or boys' overcoats, car coats, capes, cloaks, anoraks, incl. ski jackets, windcheaters, ...	5.22	0.02	-27,407	268	Sunset	Sunrise	FDI/In	
'6112	Track-suits, ski-suits and swimwear, knitted or crocheted	2.62	0.08	-72,853	-186	Sunset	Sunrise	FDI/In	
'6305	Sacks and bags, of a kind used for the packing of goods, of all types of textile materials	1.40	0.05	-32,656	714	Sunset	Sunrise	FDI/In	
'6402	Footwear with outer soles and uppers of rubber or plastics (excluding waterproof footwear of ...	1.10	0.01	-179,983	1,193	Sunset	Sunrise	FDI/In	
'6403	Footwear with outer soles of rubber, plastics, leather or composition leather and uppers of ...	4.67	0.06	-142,699	2,898	Sunset	Sunrise	FDI/In	
'6404	Footwear with outer soles of rubber, plastics, leather or composition leather and uppers of ...	4.33	0.02	-468,799	478	Sunset	Sunrise	FDI/In	
'7201	Pig iron and spiegeleisen, in pigs, blocks or other primary forms	1.92	0.00	-136,953	-249	Sunset	Sunrise	FDI/In	
'7320	Springs and leaves for springs, of iron or steel (excluding clock and watch springs, springs ...	1.06	0.23	-709	12,153	Sunset	Sunrise	FDI/In	
7501	Nickel mattes, nickel oxide sinters and other intermediate products of nickel metallurgy :	16.76	0.03	-169,312	-126,800	Sunset	Sunrise	FDI/In	
8506	Primary cells and primary batteries, electrical; parts thereof (excluding spent)	6.18	0.15	-42,164	-232	Sunset	Sunrise	FDI/In	
8510	Electric shavers, hair clippers and hair-removing appliances, with self-contained electric ...	3.14	0.10	-1,493	7,798	Sunset	Sunrise	FDI/In	
8533	Electrical resistors, incl. rheostats and potentiometers (excluding heating resistors); parts ...	1.15	0.04	-1,164	3,640	Sunset	Sunrise	FDI/In	
9201	Pianos, incl. automatic; harpsichords and other keyboard stringed instruments	17.78	0.09	-47,653	564	Sunset	Sunrise	FDI/In	

Combination RCA CMSA3		South Korea				
		Suffer	Sunset	Sunrise	Great	Total
Indonesia	Suffer	290	45	201	73	609
	Sunset	50	9	41	11	111
	Sunrise	161	36	138	52	387
	Great	77	12	47	14	150
	Total	578	102	427	150	1257

Verico, K and T. Riefky (2022). Bilateral Trade and Investment Relations Analysis: Indonesia and South Korea. *International Journal of Business and Society*, Vol.23 No.2, pp. 714-750, DOI: <https://doi.org/10.33736/ijbs.4835.2022>

Verico, K., (2020). *How to Measure Bilateral Economic Relations: Case of Indonesia and Australia*. December 12<sup>st</sup>, LPEM FEB UI Working Paper No 56, pp.1-11 [How to Measure Bilateral Economic Relations? Case of Indonesia – Australia Institute for economic and social research \(lpem.org\)](https://www.lpem.org/)

<b>Trade Balance Million US\$ (DTBALi)</b>					Verico, K., (2020). <i>How to Measure Bilateral Economic Relations: Case of Indonesia and Australia</i> . December 12 <sup>st</sup> , LPEM FEB UI Working Paper No 56, pp.1-11 <a href="https://www.lpem.org/publications/How-to-Measure-Bilateral-Economic-Relations-Case-of-Indonesia-Australia">How to Measure Bilateral Economic Relations? Case of Indonesia – Australia Institute for economic and social research (lpem.org)</a>								
<b>MFN Indonesia from Australia declined for 8.29%</b>													
<b>DTBALi</b>	<b>Oceania</b>	<b>EastAsia</b>	<b>Australia</b>	<b>Indonesia</b>	<b>RCEP</b>	<b>SouthAsia</b>	<b>CPTPP</b>	<b>NAmerica</b>	<b>LatinAmer</b>	<b>EU_28</b>	<b>MENA</b>	<b>SSA</b>	<b>RestofWorld</b>
<b>GrainsCrops</b>	0.03	0.24	-5.05	2.08	-0.16	0.45	0.51	1.15	0.46	0.05	-0.11	0.56	0.09
<b>MeatLstk</b>	-0.01	-0.13	-0.29	7.32	0.11	-0.26	-0.38	-0.26	-0.79	-0.62	-0.2	-0.07	-0.03
<b>Extraction</b>	0	-1.34	11.32	0.27	-0.92	-0.22	-0.42	-0.51	-1.24	-0.14	-3.95	-0.6	-2.46
<b>ProcFood</b>	0.05	1.26	-11.91	0.99	1.98	0.47	0.42	1.21	3.09	1.79	0.38	0.27	0.35
<b>TextWapp</b>	0	0.95	1.19	-3.18	-0.09	-0.11	-0.03	0.23	-0.01	0.7	0.38	0.02	0.02
<b>LightMnfc</b>	0.04	-0.72	2.12	0.58	-0.06	-0.2	-0.77	-1.64	-0.49	1.54	0	0	0.23
<b>HeavyMnfc</b>	-0.13	-0.7	-1.69	1.41	1.25	-0.17	-0.75	-1.99	-1.31	-0.39	3.2	-0.12	1.8
<b>Util_Cons</b>	0.01	-0.09	0.33	-0.06	-0.05	-0.01	-0.07	-0.11	-0.04	0.06	0	-0.01	0.04
<b>TransComm</b>	0.01	-3.05	8.25	-0.85	-1.62	-0.5	-1.35	-1.3	-0.72	-3.7	-0.46	-0.14	-0.51
<b>OthServices</b>	0.02	-1.51	8.55	-0.13	-1.22	-0.57	-0.9	-1.71	-0.62	-1.46	-0.27	-0.09	-0.09

<b>HS4</b>	<b>Product</b>	<b>Indonesia</b>	<b>Australia</b>	<b>Bilateral</b>	<b>Quality</b>
'4011	New pneumatic tyres, of rubber	Sunset	Sunrise	FDIIn	Elegance
'4015	Articles of apparel and clothing accessories, incl. gloves, mittens and mitts, for all purposes, ...	Sunset	Sunrise	FDIIn	Elegance
'5705	Carpets and other textile floor coverings, whether or not made up (excluding knotted, woven ...	Sunset	Sunrise	FDIIn	Elegance
'6101	Men's or boys' overcoats, car coats, capes, cloaks, anoraks, incl. ski jackets, windcheaters, ...	Sunset	Sunrise	FDIIn	Elegance
'6105	Men's or boys' shirts, knitted or crocheted (excluding nightshirts, T-shirts, singlets and ...	Sunset	Sunrise	FDIIn	Elegance
'6109	T-shirts, singlets and other vests, knitted or crocheted	Sunset	Sunrise	FDIIn	Elegance
'6111	Babies' garments and clothing accessories, knitted or crocheted (excluding hats)	Sunset	Sunrise	FDIIn	Elegance
'6204	Women's or girls' suits, ensembles, jackets, blazers, dresses, skirts, divided skirts, trousers, ...	Sunset	Sunrise	FDIIn	Elegance
'6209	Babies' garments and clothing accessories of textile materials (excluding knitted or crocheted ...	Sunset	Sunrise	FDIIn	Elegance
'6211	Tracksuits, ski suits, swimwear and other garments, n.e.s. (excluding knitted or crocheted)	Sunset	Sunrise	FDIIn	Elegance
'6402	Footwear with outer soles and uppers of rubber or plastics (excluding waterproof footwear of ...	Sunset	Sunrise	FDIIn	Elegance
'6403	Footwear with outer soles of rubber, plastics, leather or composition leather and uppers of ...	Sunset	Sunrise	FDIIn	Elegance
'6404	Footwear with outer soles of rubber, plastics, leather or composition leather and uppers of ...	Sunset	Sunrise	FDIIn	Elegance
'6911	Tableware, kitchenware, other household articles and toilet articles, of porcelain or china ...	Sunset	Sunrise	FDIIn	Elegance
'7113	Articles of jewellery and parts thereof, of precious metal or of metal clad with precious metal ...	Sunset	Sunrise	FDIIn	Elegance
'7408	Copper wire (excluding surgical sutures, stranded wire, cables, plaited bands and the like ...	Sunset	Sunrise	FDIIn	Elegance
'8510	Electric shavers, hair clippers and hair-removing appliances, with self-contained electric ...	Sunset	Sunrise	FDIIn	Elegance
'8532	Electrical capacitors, fixed, variable or adjustable "pre-set"; parts thereof	Sunset	Sunrise	FDIIn	Elegance
'9201	Pianos, incl. automatic; harpsichords and other keyboard stringed instruments	Sunset	Sunrise	FDIIn	Elegance
'9202	String musical instruments, e.g. guitars, violins, and harps (excluding with keyboard)	Sunset	Sunrise	FDIIn	Elegance
'9403	Furniture and parts thereof, n.e.s. (excluding seats and medical, surgical, dental or veterinary ...	Sunset	Sunrise	FDIIn	Elegance
'9507	Fishing rods, fish-hooks and other line fishing tackle n.e.s.; fish landing nets, butterfly ...	Sunset	Sunrise	FDIIn	Elegance
'9609	Pencils, crayons, pencil leads, pastels, drawing charcoals, writing or drawing chalks and tailors' ...	Sunset	Sunrise	FDIIn	Elegance



ALI WARDHANA

Terima Kasih

Rabu/25 January 2023