

COVID-19 Crisis and The prospect of SDG-1 in ASEAN5-countries: *The extent of disruption*

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Background

- Kuala Lumpur declaration on **Complementarity between UN SDGs 2030 and ASEAN community Vision 2025** (Nov-2015)
- Common values and principles: People-centred, inclusive, sustainable, resilient, dynamic and innovative, built around peace, and **partnerships based**.
- Five priorities: poverty eradication, infrastructure, and connectivity, sustainable management of natural resources, sustainable production and consumption, and resilience.

- **As COVID-19 crisis affect naturally development progress of ASEAN countries, including SDGs (Particularly SDG-1), what is the extent of disruption?**



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This presentation is about:

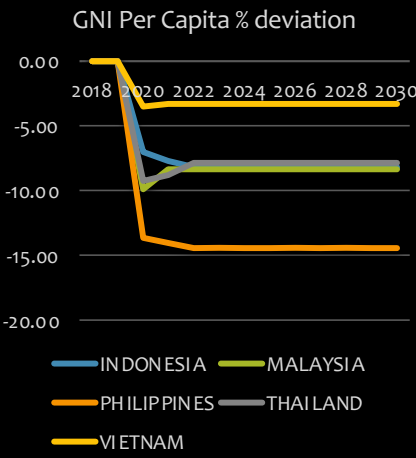
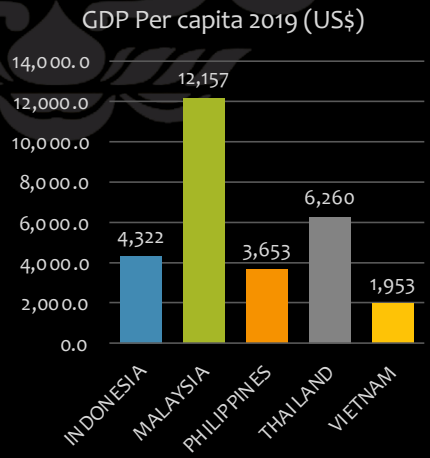
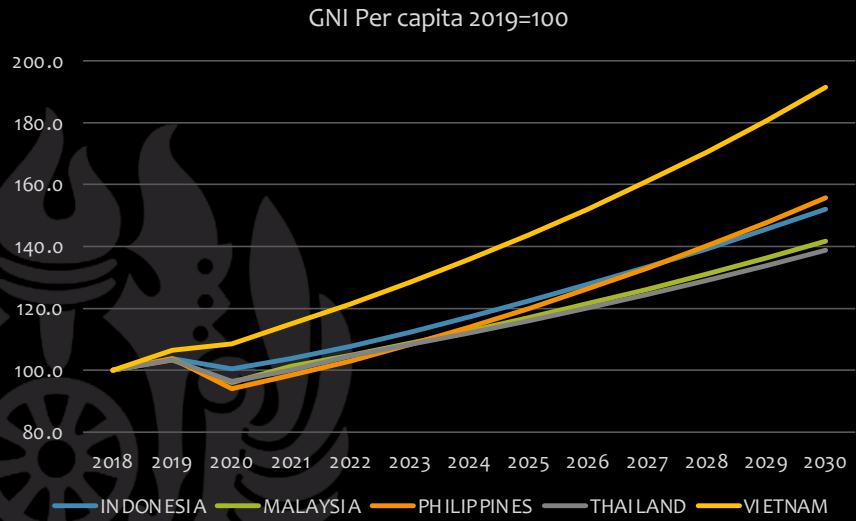
To find to what extent COVID-19 will interrupt the progress of SDGs achievement, particularly SDG-1 (No Poverty) of ASEAN5 countries?



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Source: World Bank 2020

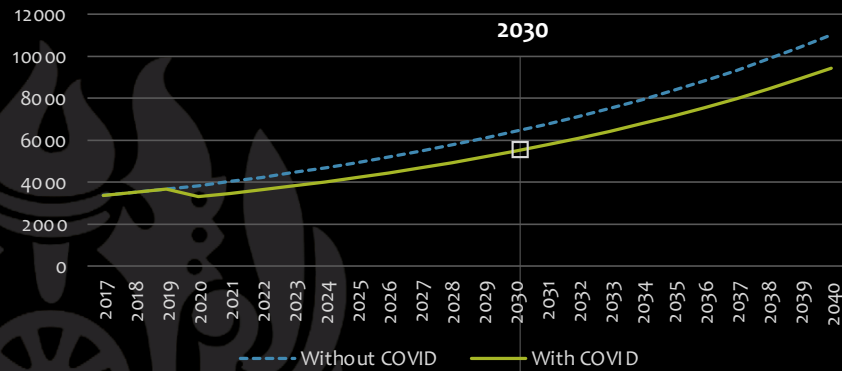


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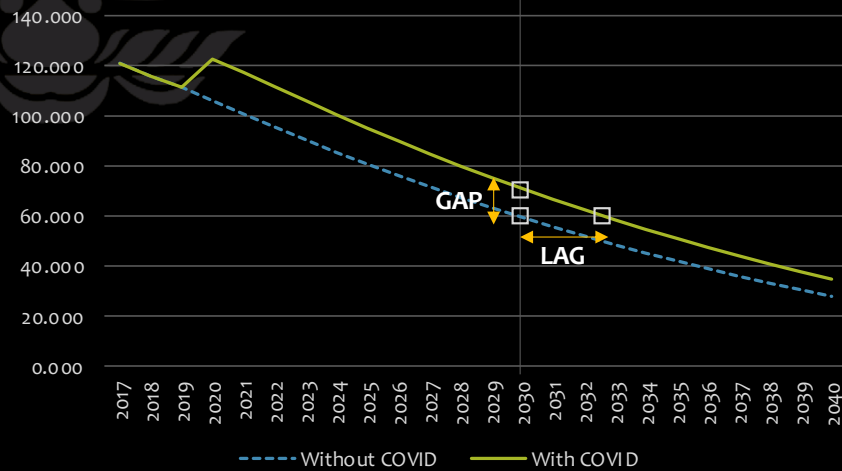
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We link income per capita with SDG indicator and calculate **GAP** and **LAG**.
 GNI Per capita (US\$) – THE PHILIPPINES



$$y_{c,i,t} = y_{c,i,t-1} + \epsilon_{i,t-1} (GNI_{c,t-1}) (GNI_{c,t} - GNI_{c,t-1})$$

Maternal Mortality Rate – THE PHILIPPINES



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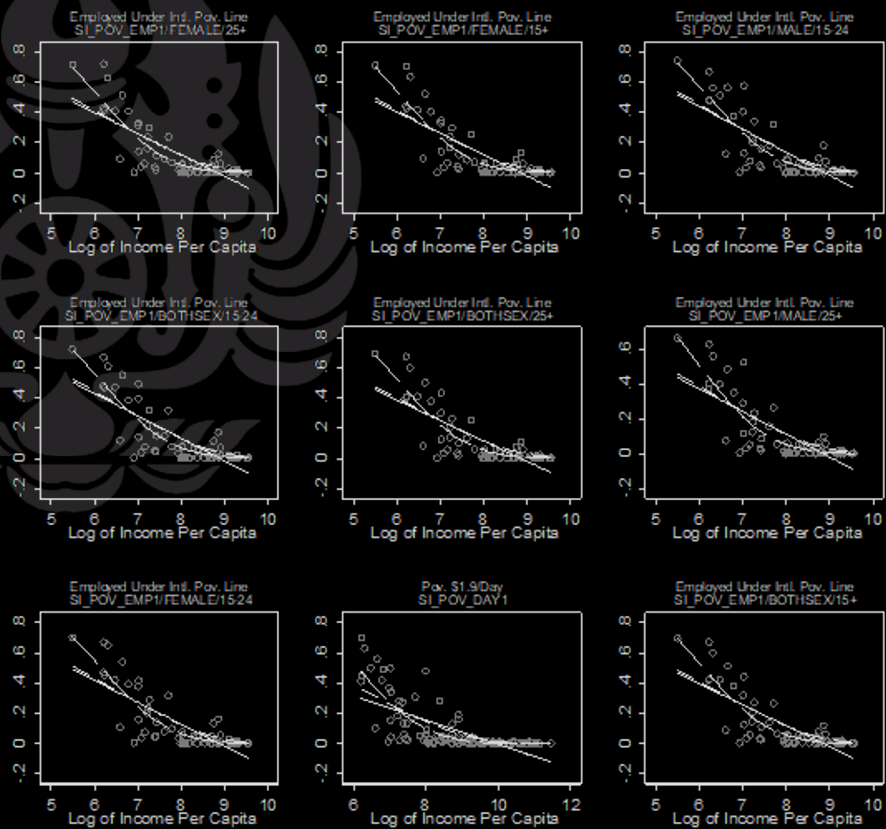


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$$y_{c,i,t} = y_{c,i,t-1} + \varepsilon_{i,t-1} (GNI_{c,t-1})(GNI_{c,t} - GNI_{c,t-1})$$

How do we find $\varepsilon_{i,t-1}$?

Cross-country regression analysis

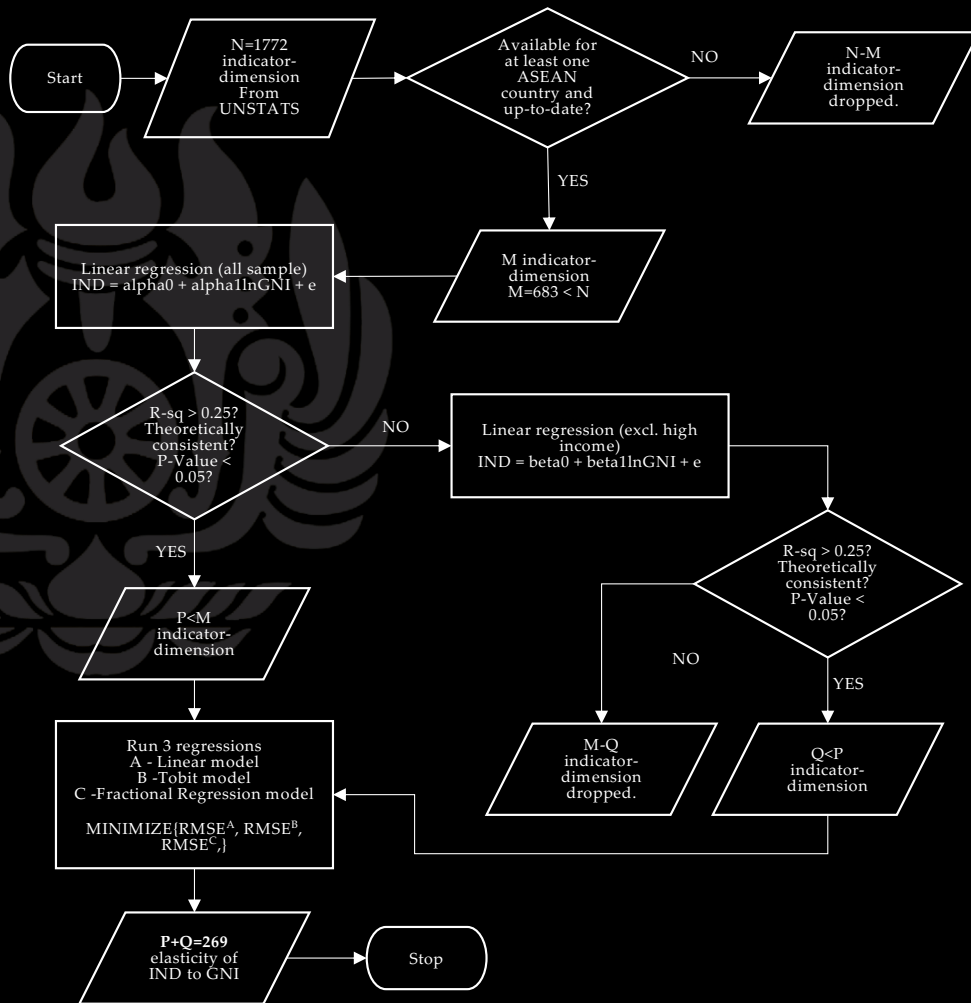


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Transparent and replicable indicator selections for good $\varepsilon_{i,t-1}$



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COVID-19 pandemic interrupted not all but majority of SDGs indicators.

Number & percentage of series dimension by Gap value: All series-dimension

	Indonesia		Malaysia		Philippines		Thailand		Vietnam		Total	
	n	%	n	%	n	%	n	%	n	%	n	%
Gap=0	41	18.1	40	25.6	17	8.7	54	24.2	81	38.9	13	4.8
Gap>0	186	81.9	116	74.4	178	91.3	169	75.8	127	61.1	256	95.2
Total	227	100.0	156	100.0	195	100.0	223	100.0	208	100.0	269	100.0

Number & percentage of series dimension by Gap value: Series-dimension available at 5-Asean Countries

	Indonesia		Malaysia		Philippines		Thailand		Vietnam		Total	
	n	%	n	%	n	%	n	%	n	%	n	%
Gap=0	14	14.9	31	33.0	11	11.7	31	33.0	34	36.2	7	7.4
Gap>0	80	85.1	63	67.0	83	88.3	63	67.0	60	63.8	87	92.6
Total	94	100.0	94	100.0	94	100.0	94	100.0	94	100.0	94	100.0



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Average Gap (% from baseline) by Goals: ALL Series-dimension

Goal	Indonesia	Malaysia	Philippines	Thailand	Vietnam	Total
1 No Poverty	2.18	2.50	5.56	1.03	0.77	2.49
2 Zero hunger	0.86	0.59	2.37	0.49	0.14	0.96
3 Health	1.47	0.90	2.28	0.90	0.34	1.18
4 Education	2.10	1.67	3.59	3.12	0.79	2.33
5 Gender	1.43	0.66	0.00	0.98	0.00	1.02
6 Water/sani.	0.96	0.96	3.52	0.00	0.26	1.55
7 Clean energy	0.56	0.00	1.76	0.47	0.30	0.62
8 Decent work	5.32	2.59	4.74	3.94	1.56	3.47
9 Industry	5.09	2.49	9.85	2.53	1.20	4.23
11 Cities	1.49	0.00	3.17	1.33	0.47	1.61
12 Consumption	2.61	3.51	4.37	3.62	1.34	3.09
16 Institutions	1.08	0.00	1.52	1.65	0.46	1.19
17 Partnershp	5.52	4.14	6.89	2.36	0.60	3.64
Total	2.36	1.75	3.92	2.48	0.79	2.27
Number of series-dimension	227	155	195	222	208	269



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Average Lag (Years) by Goals: ALL Series-dimension

Goal	Indonesia	Malaysia	Philippines	Thailand	Vietnam	Total
1 No Poverty	1.74	0.77	2.66	0.83	0.25	1.29
2 Zero hunger	1.68	2.13	2.87	2.20	0.22	1.75
3 Health	1.78	1.82	2.40	1.97	0.50	1.70
4 Education	1.48	1.77	2.72	1.78	0.31	1.59
5 Gender	1.92	2.15	0.00	2.20	0.00	2.09
6 Water/sani.	1.91	1.29	2.88	0.00	0.19	1.58
7 Clean energy	0.48	0.00	1.62	0.54	0.14	0.56
8 Decent work	1.83	1.99	2.65	2.13	0.55	1.63
9 Industry	1.29	2.18	2.93	1.51	0.38	1.66
11 Cities	1.92	0.00	2.93	2.23	0.58	1.92
12 Consumption	1.54	1.77	2.37	1.81	0.46	1.59
16 Institutions	1.91	0.00	2.88	1.12	0.29	1.50
17 Partnershp	1.91	2.01	2.83	2.15	0.58	1.81
Total	1.59	1.62	2.65	1.69	0.36	1.57
Number of series-dimension	227	155	195	222	208	269



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Indicator of SDG-1 covered

- 1.1.1 Proportion of population below international poverty line (%)
- 1.1.1 Employed population below international poverty line, by sex and age (%)
- 1.2.1 Proportion of population living below the national poverty line (%)
- 1.2.2 Average proportion of deprivations for people multidimensionally poor (%)
- 1.2.2 Proportion of population living in multidimensional poverty (%)
- 1.2.2 Proportion of households living in multidimensional poverty (%)
- 1.3.1 [ILO] Proportion of population covered by at least one social protection benefit, by sex (%)
- 1.3.1 [ILO] Proportion of children/households receiving child/family cash benefit, by sex (%)
- 1.3.1 [ILO] Proportion of population with severe disabilities receiving disability cash benefit, by sex (%)
- 1.3.1 [ILO] Proportion of mothers with newborns receiving maternity cash benefit (%)
- 1.3.1 [ILO] Proportion of population above statutory pensionable age receiving a pension, by sex (%)
- 1.3.1 [ILO] Proportion of poor population receiving social assistance cash benefit, by sex (%)
- 1.3.1 [World Bank] Proportion of population covered by social assistance programs (%)
- 1.3.1 [World Bank] Proportion of population covered by social insurance programs (%)
- 1.3.1 [ILO] Proportion of vulnerable population receiving social assistance cash benefit, by sex (%)
- 1.3.1 [ILO] Proportion of employed population covered in the event of work injury, by sex (%)
- 1.4.1 Proportion of population using basic drinking water services, by location (%)
- 1.4.1 Proportion of population using basic sanitation services, by location (%)



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Gap & Lag of Indicator of SDG-1

IND	Series Description	Dimension	Indonesia	Malaysia	Philippines	Thailand	Vietnam	Average
1.1.1	Extreme poverty	ALL	0.44 (1.88)	0.00 (0.00)	0.51 (2.00)	0.00 (0.00)	0.00 (0.00)	0.19 (0.78)
1.1.1	Extreme poverty (Employed)	BOTHSEX/15+	0.24 (1.84)	0.00 (0.00)	0.46 (2.44)	0.00 (0.00)	0.00 (0.00)	0.14 (0.85)
1.1.1	Extreme poverty (Employed)	BOTHSEX/15-24	0.30 (1.85)	0.00 (0.00)	0.59 (2.50)	0.00 (0.00)	0.00 (0.00)	0.18 (0.87)
1.1.1	Extreme poverty (Employed)	BOTHSEX/25+	0.22 (1.84)	0.00 (0.00)	0.44 (2.42)	0.00 (0.00)	0.00 (0.00)	0.13 (0.85)
1.1.1	Extreme poverty (Employed)	FEMALE/15+	0.24 (1.84)	0.00 (0.00)	0.47 (2.44)	0.00 (0.00)	0.00 (0.00)	0.14 (0.85)
1.1.1	Extreme poverty (Employed)	FEMALE/15-24	0.28 (1.85)	0.00 (0.00)	0.55 (2.49)	0.00 (0.00)	0.00 (0.00)	0.17 (0.87)
1.1.1	Extreme poverty (Employed)	FEMALE/25+	0.24 (1.84)	0.00 (0.00)	0.46 (2.42)	0.00 (0.00)	0.00 (0.00)	0.14 (0.85)
1.1.1	Extreme poverty (Employed)	MALE/15+	0.23 (1.84)	0.00 (0.00)	0.45 (2.44)	0.00 (0.00)	0.00 (0.00)	0.14 (0.86)
1.1.1	Extreme poverty (Employed)	MALE/15-24	0.31 (1.85)	0.00 (0.00)	0.62 (2.50)	0.00 (0.00)	0.00 (0.00)	0.19 (0.87)
1.1.1	Extreme poverty (Employed)	MALE/25+	0.21 (1.84)	0.00 (0.00)	0.42 (2.43)	0.00 (0.00)	0.00 (0.00)	0.13 (0.85)
1.2.1	National Poverty	ALLAREA	0.66 (1.92)	0.00 (0.00)	1.35 (2.90)	0.58 (2.21)	0.28 (0.58)	0.57 (1.52)
1.3.1	Covered by at least 1 prot.	BOTHSEX	2.85 (1.93)	9.83 (2.18)	5.98 (2.95)	2.05 (2.23)	1.38 (0.58)	4.42 (1.97)
1.3.1	Children /w cash benefits	BOTHSEX	0.00 (0.00)	17.41 (2.17)	13.69 (2.95)	8.11 (2.23)	5.48 (0.57)	8.94 (1.59)
1.3.1	Disabled /w cash benefits	BOTHSEX	17.82 (1.93)	11.77 (2.18)	21.02 (2.97)	2.51 (2.24)	3.19 (0.57)	11.26 (1.98)
1.3.1	Receiving pensions	BOTHSEX	7.21 (1.92)	4.34 (2.14)	4.26 (2.92)	1.68 (2.20)	1.38 (0.58)	3.77 (1.95)
1.3.1	Vulnerable w/ assistance	BOTHSEX	2.84 (1.93)	15.48 (2.21)	15.35 (2.97)	2.11 (2.26)	2.32 (0.57)	7.62 (1.99)
1.3.1	Injury covered	BOTHSEX	6.17 (1.93)	2.94 (2.19)	8.07 (2.95)	4.25 (2.24)	1.77 (0.57)	4.64 (1.98)
1.4.1	Drinking water	ALLAREA	0.57 (1.90)	0.21 (2.02)	1.05 (2.79)	0.00 (0.00)	0.00 (0.00)	0.36 (1.34)
1.4.1	Drinking water	RURAL	0.92 (1.91)	0.41 (2.07)	1.59 (2.84)	0.00 (0.00)	0.00 (0.00)	0.58 (1.36)
1.4.1	Drinking water	URBAN	0.23 (1.90)	0.10 (2.07)	0.42 (2.80)	0.00 (0.00)	0.00 (0.00)	0.15 (1.35)
1.4.1	Sanitation	ALLAREA	1.57 (1.90)	0.00 (0.00)	2.85 (2.84)	0.00 (0.00)	0.00 (0.00)	0.88 (0.95)
1.4.1	Sanitation	RURAL	2.14 (1.91)	0.00 (0.00)	3.50 (2.88)	0.00 (0.00)	0.86 (0.58)	1.30 (1.07)
1.4.1	Sanitation	URBAN	1.09 (1.90)	0.00 (0.00)	2.11 (2.82)	0.00 (0.00)	0.00 (0.00)	0.64 (0.95)

Source: Authors' calculation.

Note: Excluding indicators with at least one country missing. In brackets are lags (year)



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Highlights

- Extreme poverty setback 0-2 years. Larger gap Among employed population,
- National poverty setback is (slightly) longer
- Impact on Non-head count indicator is much worse.
- Social protection coverage gap range 0-18%. Lag range 0-3 years.
- Drinking water/sanitation coverage gap 0-3.5%. Lag range 0-3 years.
- Philippines is the worst affected (most-disrupted), Vietnam is the least.



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THAILAND

Good initial condition, large economic impact (small pandemic impact, economically vulnerable)

VIETNAM

Moderate initial condition, lowest economic impact (good pandemic respons)

PHILIPPINES

Low initial condition, worst economic impact (high stringency)

MALAYSIA

Good initial condition, large economic impact (high stringency)

INDONESIA

Moderate initial condition, moderate economic impact (less stringency)



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Conclusion

- COVID-19 Crisis interrupted almost all SDGs indicator of ASEAN countries particularly SDG-1.
- On average, SDGs indicator in 2030 will be around 2.3% lower (gap) [**SDG-1 2.5%**], or 1.6 years lag, [**SDG-1 1.3 years lag**].
- Vary by indicators. Extreme poverty setback by 0-2 years, non-head count indicators (access to assistance and services) is longer.
- It also varies across countries. Philippines is the worst affected. Vietnam is the least.
- Several factors count: Initial condition (both SDGs and vulnerability to COVID-19), impact of COVID-19 on growth, projected recoveries.
- **Recovery policies and assistance should be proportional to impact.**



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Thank You

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