

New completion rate estimation method A proposal for SDG 4 reporting

Technical Cooperation Group

Mexico City, 15 November 2018

Manos Antoninis Global Education Monitoring Report



Target and indicator

Target 4.1

By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes

Thematic indicator 4.1.4

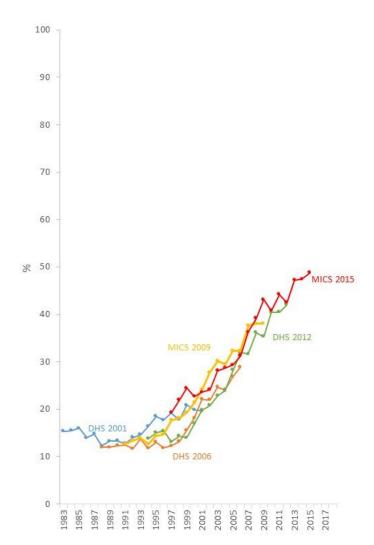
Completion rate (primary education, lower secondary education, upper secondary education)





Multiple sources provide data

GEM Report proposes a new model to estimate completion rates:



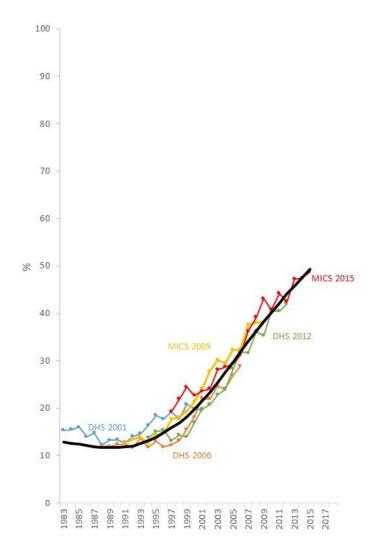


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GEM Report proposes a new model

to estimate completion rates:

to use survey data efficiently

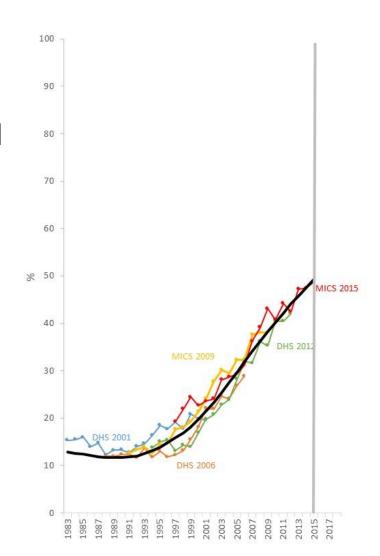




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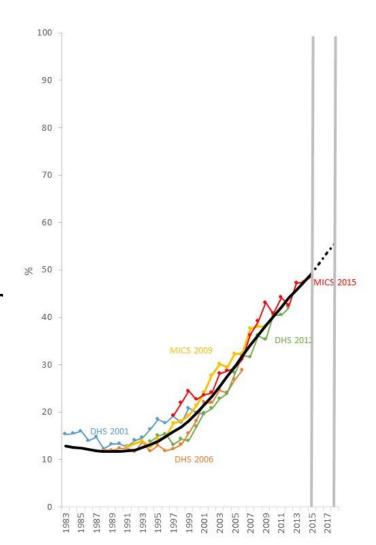




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- project rates to most recent year



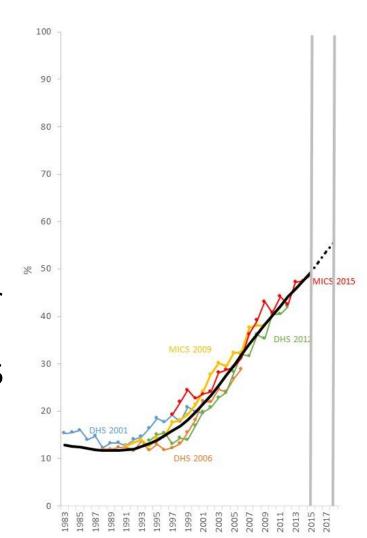


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In Mali, the last survey is from 2015 but the model projects the primary completion rate to 56% in 2018

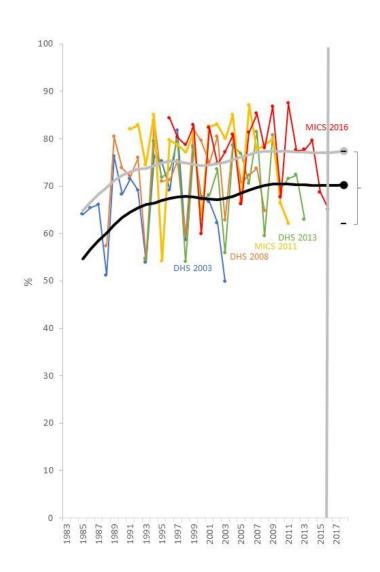




Challenges

In many countries:

► Late completion



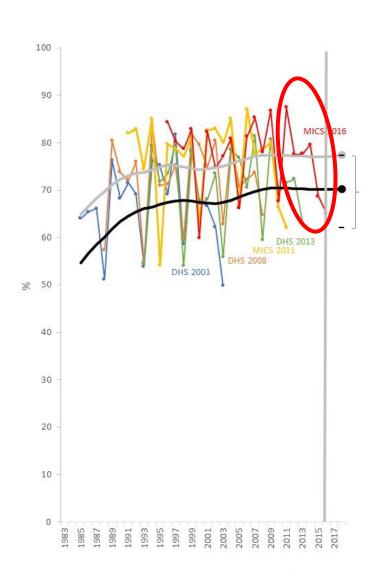


Challenges

In many countries:

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In Nigeria, there is a 7 percentage point gap in completion rates between 14-16 year olds and the full cohort





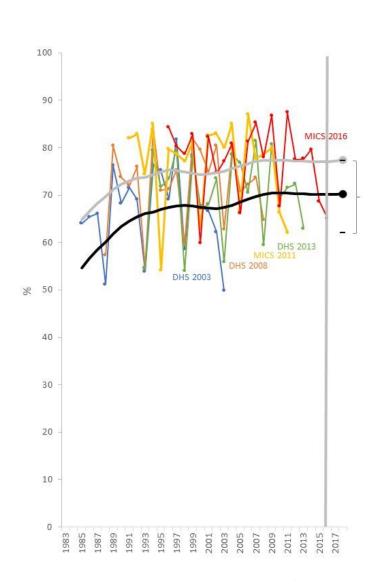
Challenges

In many countries

▶ Late completion

In Nigeria, there is a 7 percentage point gap in completion rates between 14-16 year olds and the full cohort

- Age lumping
- Survey bias



Faced with similar challenges, health developed similar models



Levels & Trends in Child Mortality

Report 2018

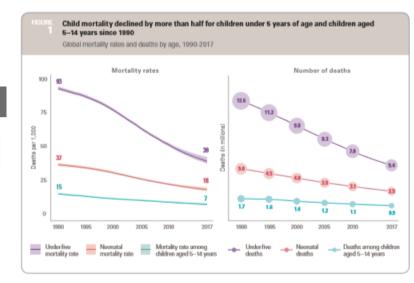
Estimates developed by the UN Inter-agency Group for Child Mortality Estimation

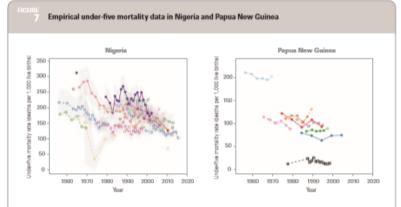


unicef W World Health W WORLD BANK GROUP W United

Country, regional and global estimates of mortality among children under age 5 and children aged 5-14

	Und	Under-five mortality rate (USMR) with 50 per cent uncertainty interval (deaths per 1,000 live births)									Number of under-five deaths with 90 per cent uncertainty interval (thousands) ^a					
	1999			2017			Assual rate of reduction (ARR) (per cent) 1996-2017			1959			2017			
Country	IIKMR	Lower	Upper	IIKMR	Lower	Upper	ARR	Lower	Upper	Under- five deaths	Lower	Upper	Under- five deaths	Lower	Upper	
Alghanistan	175	160	197	68	52	BS	3.5	7.6	4.5	107	98	116	77	59	96	
Albania	40	36	45	,	8	9	5.6	51	61	3	30	4		0	0	
Algeria	50	46	53	24	73	25	2.7	2.4	3.0	41	38	44	22	21	23	
Andorra		5	14	3	73	5	3.5	0.9	6.1	0	0	0	0	0	0	
Angola	224	139	251	81	39	146	3.8	1.6	6.5	137	122	154	96	47	1/2	
Antigua and Barbuda	26	19	37	7	6	10	4.7	3.0	6.3	0	0	0		0	0	
Argentina	29	28	29	10	10	11	3.8	35	4.1	20	20	21		7		
Armenia	50	45	55	13	10	17	5.1	4.0	6.1	4	3	4			1	
Australia	,	9	,	4	3	4	3.6	33	3.8	,	2	2	,	1	,	
Austria	10		10	4	3	4	3.6	33	3.9	1	1	1			0	
Azerbaijas	95	16	105	23	16	33	5.3	3.9	6.7	19	10	21	4	3	6	
Bahamas	24	72	25	7		9	4.4	35	5.3		0	0		0	0	
Bahrain	23	77	24	,	- 1	,	43	36	4.9		0	0		0	0	
Rangladosh	144	140	140	32	79	36	5.5	5.1	5.9	532	517	540	100	90	110	
Barbados	18	17	19	12	10	16	1.4	0.3	2.4		0	0		0	0	
Belarus	15	15	16	4	4	4	5.2	5.0	5.4	2	2	2		0	0	
Belgium	10	10	10	4	3	4	3.6	33	4.0	1	1	1		0	1	
Belize	39	34	44	14	13	16	3.7	3.0	4.3		0	0		0	0	
Renia	178	167	190	- 11	76	138	2.2	1.0	37	39	36	42	39	29	56	
Dhetan	128	113	147	31	21	44	5.3	3.8	6.8	3	7	3	0	0	1	
Bolivia (Plurisational State of)	124	117	131	35	73	54	4.7	3.3	6.2	29	211	31	,	6	13	
Bosnia and Herzegovina	18	18	19	6	5	7	4.3	3.8	4.8	1	1	1	0	0	0	
Botswana	51	45	59	38	17	73	1.2	-14	4.2	2	2	3	2	1	4	
Brazil	63	59	68	15	13	17	5.4	4.9	5.8	235	220	252	43	39	48	
Brenei Daressalam	13	13	14	11	,	17	0.9	0.3	1.5		0	0		0	0	
Bulgaria	18	18	19		7		3.3	3.1	3.6	2	2	2	0	0	- 1	
Burkina Faso	200	188	213	81	61	107	3.3	2.3	4.4	80	75	85	58	44	77	
Burundi	175	158	191	61	42	87	3.9	2.5	5.3	46	42	50	27	19	38	
Cabo Verde	63	61	65	17	15	20	4.7	4.3	5.2	1	1	1	0	0	0	
Cambodia	116	108	125	29	17	50	5.1	3.1	7.1	44	41	47	11	6	18	
Cameroon	139	130	149	84	62	112	1.9	0.8	3.0	70	65	75	71	50	94	
Conndo		8	8	5	5	6	1.8	1.5	2.0	3	3	3	2	2	7	
Central African Republic	176	158	195	122	77	194	1.4	-0.4	3.1	21	19	23	20	13	32	
Chad	213	198	729	123	100	150	2.0	1.3	2.8	60	56	65	76	61	92	
Chile	19	19	20	7	7		3.5	3.0	4.0	6	5	6	2	2	2	
China	54	50	59	9	8	11	6.5	5.9	7.1	1,358	1,291	1,526	156	136	179	
Colombia	35	33	38	15	11	20	3.2	2.2	4.3	32	30	34	11	8	14	
Comoros	125	111	139	69	36	138	2.2	-0.5	4.6	2	2	2	2	- 1	- 4	
Congo	90	79	102	48	31	73	2.4	0.7	4.0	8	7	9	8	5	13	
Cook Islands	25	22	28		5	12	4.4	2.6	6.2	0	0	0	0	0	0	
Costa Rica	17	16	17	9	7	12	2.3	1.4	3.2	1	1	1	1	0	1	
Côte d'Ivoire	152	142	162	89	70	113	2.0	1.1	2.9	77	72	83	77	60	97	
Croatia	13	13	13	5	4	5	3.8	3.3	4.1	1	- 1	- 1		0	0	

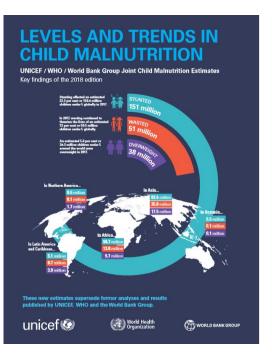


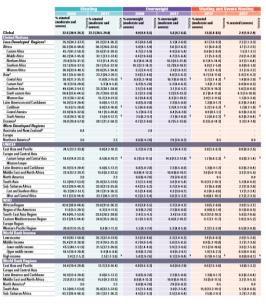


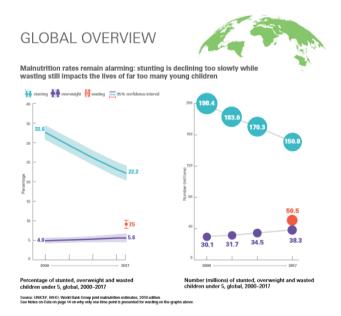
Note: All data available for the overtry are shown as coloured points, with observations from the same data series joined by fines, and coch colour identifying different data sources. Grey bands in the left jet represent the standard errors of the observations where available or applicable. Soins considered but not included in the statistical model due to solutional row assigning errors or encourse appear with dischlor large.



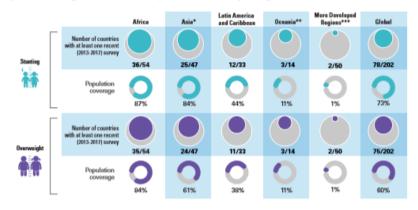
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Population coverage for the most recent period (2013-2017), by UN regions





Next steps and recommendations

In terms of development

- Further refine methodology
- Analyse data from more countries and more data sets
- Expand analysis to lower and upper secondary education
- Produce regional and global averages

In terms of use

- Consider endorsing the idea of using projections
- Propose it as second global indicator for target 4.1
- Combine it with global indicator 4.1.1

