

CELIA M. REYES

PIDS PRESIDENT

SEPTEMBER 2019



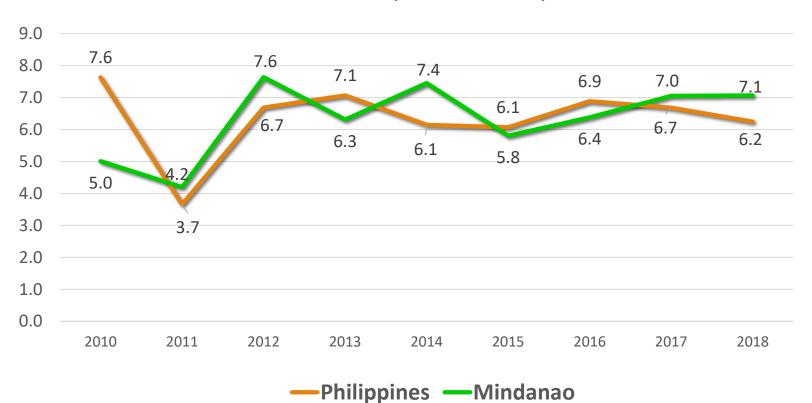
Outline

- Background
- Objectives
- Methodology
- Key Findings
- Concluding Remarks



Since 2012, GDP growth in the Philippines and Mindanao have been above 6%.

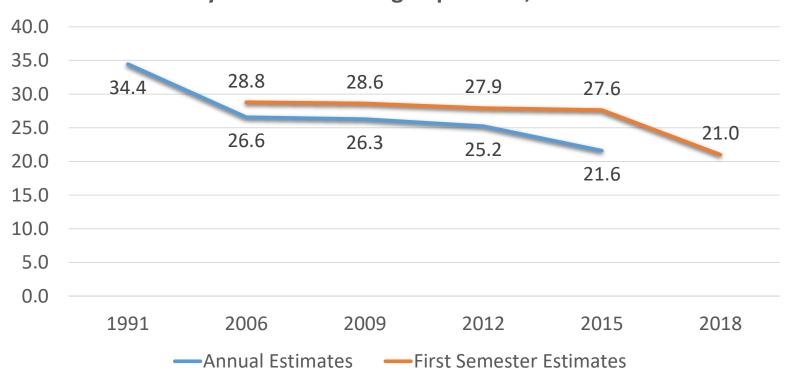
Gross Domestic Product, Growth Rates, 2010 - 2018





Poverty rate has gone down

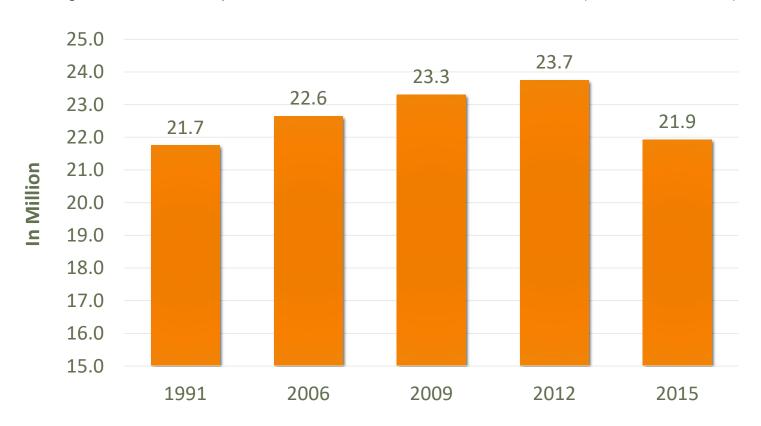
Poverty incidence among Population, 1991 - 2018





But number of poor has not changed

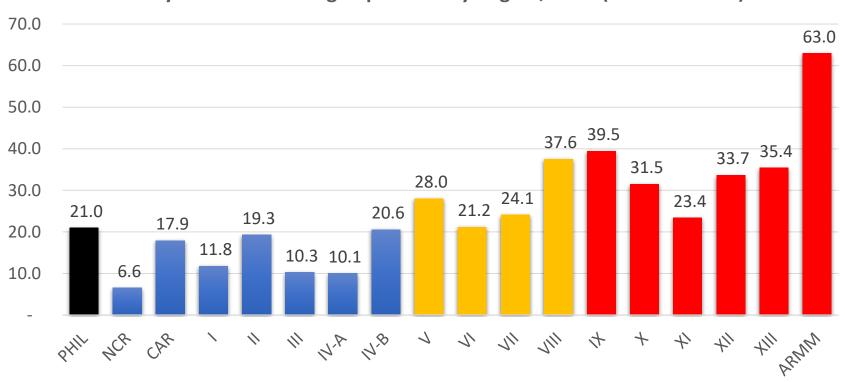
Magnitude of Poor Population: 1991, 2006, 2009, 2012 and 2015 (Annual Estimates)





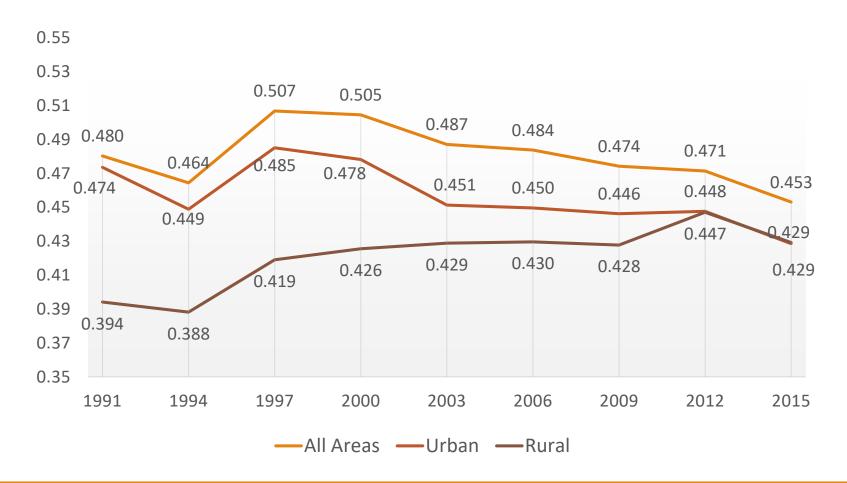
In 2018, 5 out of the 6 regions with high poverty rate (over 30%) are in Mindanao

Poverty Incidence among Population by Region, 2018 (First semester)



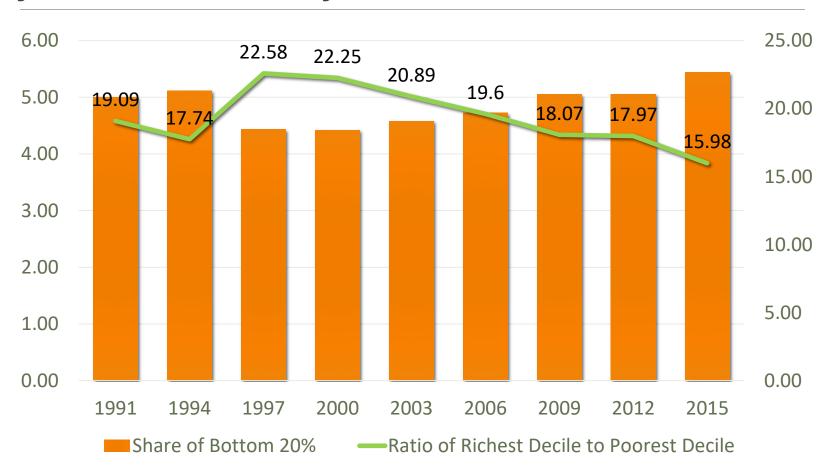


The country has not made significant progress in reducing inequality





Very slow increase in share of poorest 20 percent while ratio of richest decile to poorest decile further decreased from 1997 to 2015





Objectives

- To examine inequality of educational opportunity across regions and among ethnic groups in the Philippines
- To provide insights on how to address such inequalities

Methodology

Data

- 2000 and 2010 Censuses of Population and Housing (CPH)
- 2000 10% sample, 2010 20% sample

Variables

- Outcome: Years of schooling (aged 25 & above); Literacy rate (aged 10 & above); Access to primary education (aged 6-11) and secondary education (aged 12-18)
- Grouping: ethnicity

Inequality measures

- Gini coefficient
- Theil's index
- Human opportunity index (HOI)

Ethnicity and ethnic groups

- Ethnicity is the primary sense of belonging to an ethnolinguistic group, which is blood-related in nature in the sense that the ties are reckoned by blood and traced through family tree (Philippine Statistics Authority)
- Philippines: 182 ethnolinguistic groups;151 are indigenous people (IP) groups
- Major ethnic groups (based on classification of the National Commission on Indigenous Peoples or NCIP):
 - 1. Muslim ethnic group (IPs and non-IPs)
 - 2. Non-Muslim IPs ethnic group
 - 3. Non-Muslim, non-IPs ethnic group



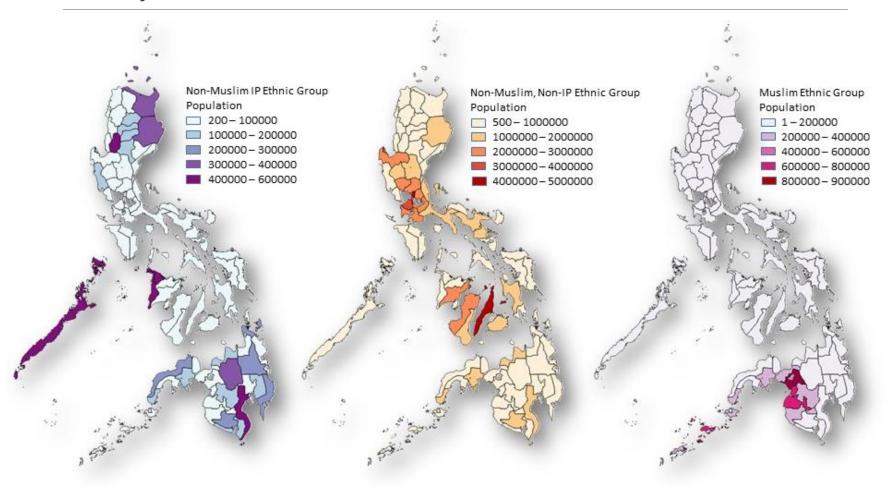
(1) Muslim ethnic group			(3) Non-Muslim/non-IPs				
Muslim IPs sub-group	Muslim Non-IPs sub- group		. ,	im IPs ethnic group		ethnic group	
1. Badjao	1. Maguindanao	1. Abelling/Abellen/Aberling/ Aborlin	37. Bontok	106. Mangguangan	109. Manobo-Dulangan	1. Bikol/Bicol	
2. Iranon/Iranun/Iraynon	2. Maranao	2. Adasen	38. Bugkalot/Ilongot	107. Manobo	110. Mansaka	2. Bisaya/Binisaya	
3. Jama Mapun	3. Palawani	3. Aeta/Ayta	39. Buhid	108. Manobo-Blit	111. Manubo-Ubo/ Manobo- Ubo	3. Boholano	
4. Kalagan	4. Sangil	4. Agta	40. Buhid (Bangon)	73. Itawis	112. Masadiit	4. Capizeño	
5. Kalibugan/Kolibugan	5. Tausug	5. Agta-Cimaron	41. Bukidnon	74. Itneg/Tingguian	113. Matigsalog/Matigsalug	5. Caviteño	
6. Sama Badjao	6. Yakan	6. Agta-Agay	42. Cagayanen	75. Ivatan	114. Molbog	6. Caviteño-Chavacano	
7. Sama Bangingi		7. Agta-Dumagat	43. Calinga	76. lwak/lowak/Owak/I-wak	115. Muyadan	7. Cebuano	
8. Sama Laut		8. Agta-Tabangnon	44. Clata/Klata	77. Kabayukan	116. Obu-Manuvu/ Ubo- Manobo	8. Chinese	
9. Sama/Samal		9. Agta-Taboy	45. Cuyonon/Cuyonen	78. Kabihug	117. Pala'wan/Palawan-o	9. Cotabateño	
		10. Agutaynen	46. Diangan	79. Kadaklan/Kachakran	118. Pan-ayanon	10. Cotabateño -Chavacano	
		11. Akeanon	47. Dibabawon	80. Kailawan/Kaylawan	119. Panay-Bukidnon	11. Davao-Chavacano	
		12. Alangan	48. Dibabeen Mulitaan	81. Kalanguya	120. Parananum	12. Davaweño	
		13. Ambala	49. Dibaben	82. Kalanguya-Ikalahan		13. Hiligaynon/Ilonggo	
		14. Applai 15. Aromanen-Manobo	50. Direrayaan 51. Dumagat	83. Kalinga 84. Kamiguin	122. Ratagnon 123. Remontado	14. Ilocano 15. Kapampangan	
		16. Ata	52. Dumagat/Alta	85. Kankanaey	124. Sibuyan Mangyan- Tagabukid	16. Masbateño/Masbatenon	
		17. Ata/Negrito	53. Dumagat/Remontad o	86. Karao	125. Subanen/Subanon/ Subanun	17. Pangasinan/Panggalato	
		18. Ata-Manobo	54. Eskaya	87. Karulano	126. T'boli/Tboli	18. Tagalog	
		19. Ati	55. Gaddang	88. Kaunana	127. Tadyawan	19. Waray	
		20. Ayangan	56. Gubang	89. Ke'ney or Ken-ey/ Tau't- Bato	128. Tagabawa		
		21. B'laan/Blaan	57. Gubatnon	90. Kirenteken	129. Tagakaulo		
		22. Bago	58. Guiangan	91. Lahitanen	130. Tagbanua		
		23. Bagobo	59. Halawodnon	92. Lambangian	131. Tagbanua (Kalamianen)		
		24. Bagobo-Tagabawa	60. Hanunuo	93. Langilan	132. Tagbanua/Calamian		
		25. Bajao/Bajau	61. Henanga	94. Livunganen	133. Talaandig		
		26. Balangao	62. Higaonon	95. Mabaka	134. Talaingod		
		27. Balatok	63. Ibaloi/Ibaloy	96. Maeng	135. Tau-buid		
Ethnic		28. Baliwon/Gaddang 29. Banao	64. Ibanag 65. Ibatan	97. Magahats 98. Mag-anti/Mag-Antsi/Mag- anchi	136. Teduray 137. Tigwahanon		
groupi by the	nas	30. Bangon	66. Ifugao	99. Magbekin/Magbukon/Magbukun	138. Tinananen		
		31. Bantoanon	67. Ilianen	100. Mag-indi	139. Tuwali		
by the	NICID	32. Banwaon	68. Illaud	101. Magkunana	140. Yapayao		
py the	NUIP	33. Batak	69. Iraya	102. Majokayong	141. Yogad		
		34. Batangan	70. Isinai	103. Malaueg	142. Zambal		
		35. Belwang	71. Isneg/Isnag/Apayao				
		36. Binongan	72. Isoroken	105. Mandaya			

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Key findings -Philippines

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Non-Muslim, non-IPs dominate the population in all regions, except ARMM & CAR; ARMM is home for most of Muslim; CAR is home for many Non-Muslim IPs





Majority of Filipinos are neither Muslims nor IPs; non-Muslim IPs – 9%; Muslims – 6%

Philippine population by major ethnic group, 2000 and 2010

	200	0	2010		
Ethnic Group	Number	Percent (%)	Number	Percent (%)	
Philippines	69,168,155	100.0	91,012,285	100.0	
Muslim	3,036,228	4.4	4,998,559	5.5	
Non-Muslim IPs	5,641,657	8.2	7,792,792	8.6	
Non-Muslim, non-IPs	60,490,270	87.5	78,220,933	86.0	

Note: The figures in the table exclude population who did not state/report their ethnicity and/or other variables used in the analysis. These samples account for around 10 percent and 2 percent of the total population of the country and of Mindanao, respectively.

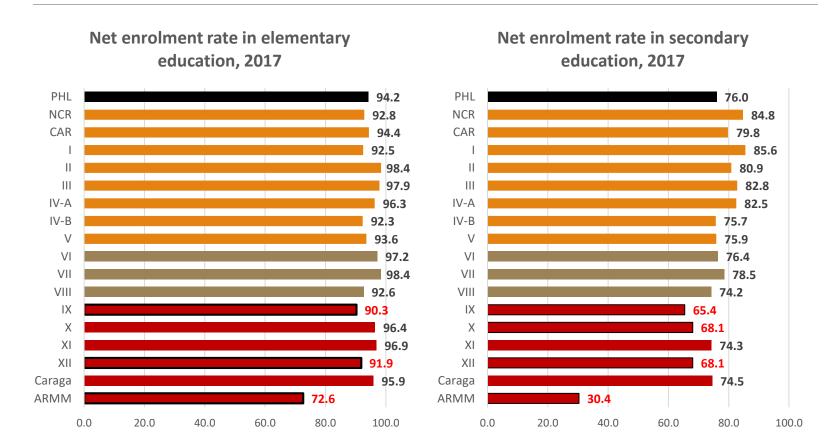


Philippine educational system

K to 12 Basic Education Curriculum

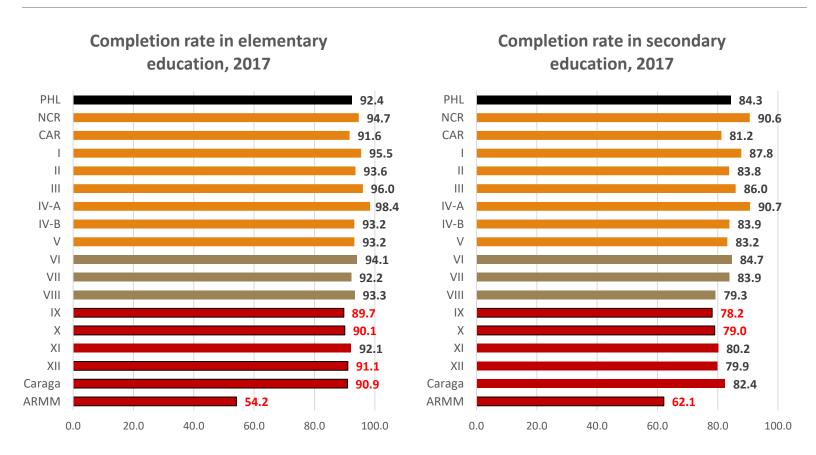


Regions 9, 12 and ARMM have the lowest net enrolment rates in elementary and secondary education in 2017



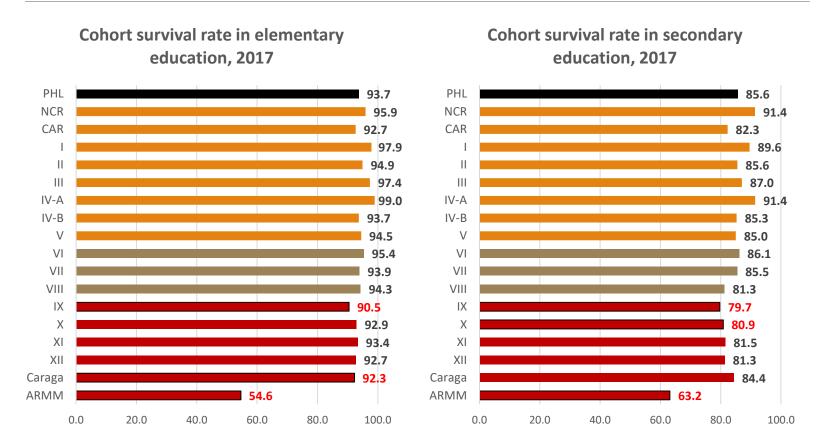


Completion rates are lower for regions in Mindanao (lowest in ARMM, Regions 9 and 10)



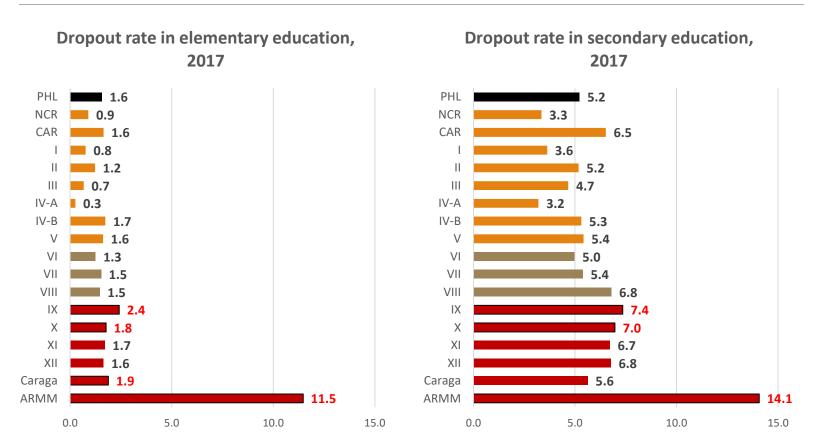


Region 9 and ARMM have the lowest cohort survival rates in elementary and secondary education in 2017



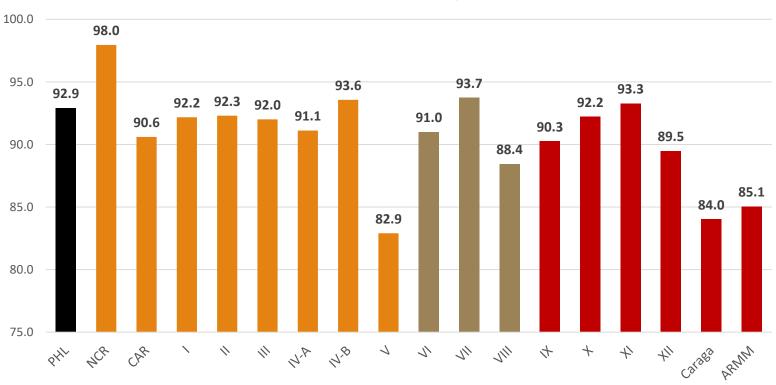


Dropout rates for regions in Mindanao are higher than the national average (highest in ARMM, Regions 9 and 10)



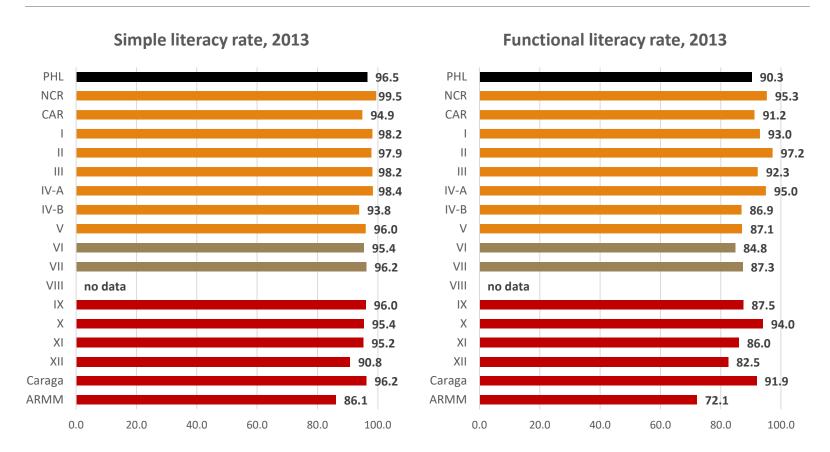
TVET certification rates in regions in Mindanao are lower than the national average (except Region 11)





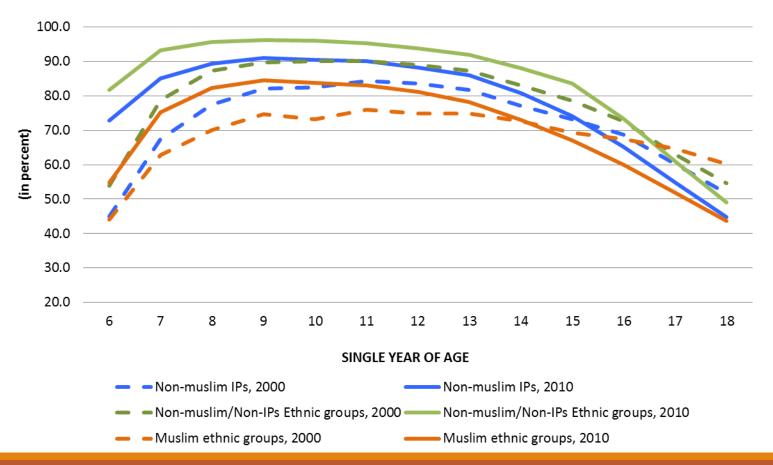
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Simple and functional literacy rates in Mindanao are generally lower than the national average



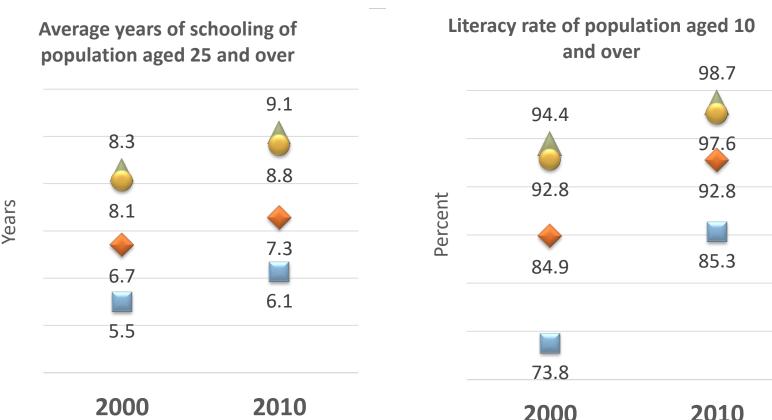
School participation among younger children increased; decreased among older cohort

Proportion of children attending school, by single year of age and by major ethnic group, 2000 & 2010





Years of schooling and literacy rate of Filipinos had generally improved







Total inequality for years of schooling and literacy went down from 2000 to 2010 (Philippines)

Inequality component	Years of	schooling	Literacy		
	2000	2000 2010		2010	
Theil's index					
Within-group	0.1346	0.1101	0.0731	0.0240	
Between-group	0.0036	0.0039	0.0014	0.0006	
Total	0.1382	0.114	0.0745	0.0245	
Gini coefficient					
Within-group	0.2100	0.183	0.045	0.0100	
Between-group	0.025	0.027	0.016	0.011	
Overlap	0.039	0.035	0.011	0.003	
Total	0.275	0.244	0.072	0.024	



Within-group component had largely contributed to total inequality (Philippines)

Inequality component	Years of	schooling	Lite	iteracy	
	2000	2010 2000		2010	
Theil's index					
Within-group	0.1346 0.1101 \$\Blacksquare\$		0.0731	0.0240	
Between-group	0.0036	0.0039	0.0014	0.0006	
Total	0.1382	0.114	0.0745	0.0245	
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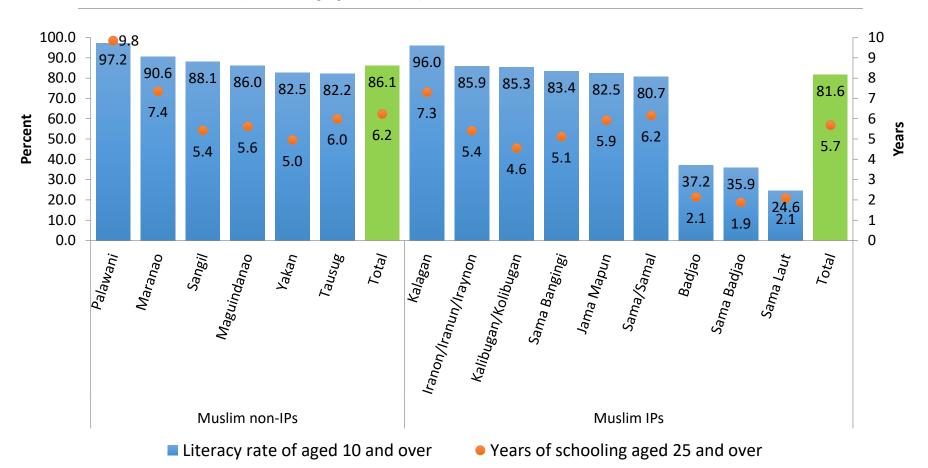


Muslim ethnic group had the highest inequality (Philippines)

	G	iini Coe	ficient			Theil's Index		
Year/Ethnic group	Year: schoo		Literacy		Years of schooling		Literacy	
	2000	2010	2000	2010	2000	2010	2000	2010
Muslim	0.4791	0.431	0.262	0.147	0.451	0.362	0.304	0.159
Non-Muslim IPs	0.3559	0.337	0.151	0.072	0.238	0.212	0.164	0.075
Non-Muslim, non-IPs	0.2584	0.226	0.056	0.013	0.119	0.095	0.057	0.013



IP groups like Sama Laut, Sama Badjao and Badjao had low educational outcomes; non-IP groups like Palawani and Maranao had high educational outcomes (Philippines)





There had been equitable distribution of primary education services; a need for a more equitable distribution of secondary education services (Philippines)

Indicator / Major ethnic group	Human opportunity index (HOI)
Primary education (aged 6-11)	
All groups	88.97
Muslim ethnic group	73.46
Non-Muslim IP ethnic group	82.12
Non-Muslim, non-IP ethnic group	91.68
Secondary education (aged 12-18)	
All groups	72.16
Muslim ethnic group	60.56
Non-Muslim IP ethnic group	65.40
Non-Muslim, non-IP ethnic group	73.99



Key findings in Mindanao

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Majority of Filipinos in Mindanao are Muslim 22% and Non-Muslim, non-IPs 63%

Mindanao population by major ethnic group, 2000 and 2010

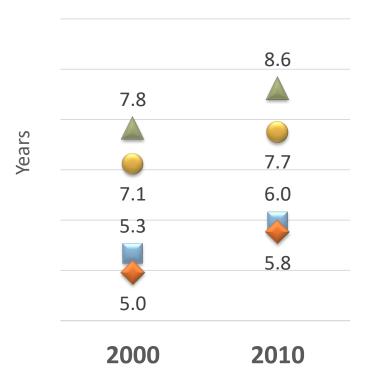
	200	0	2010		
Ethnic Group	Number	Percent (%)	Number	Percent (%)	
Mindanao	16,111,584	100.0	21,455,482	100.0	
Muslim	2,905,761	18.04	4,716,222	21.98	
Non-Muslim IPs	1,918,522	11.91	3,201,321	14.92	
Non-Muslim, non-IPs	11,287,301	70.06	13,537,939	63.10	

Note: The figures in the table exclude population who did not state/report their ethnicity and/or other variables used in the analysis. These samples account for around 10 percent and 2 percent of the total population of the country and of Mindanao, respectively.

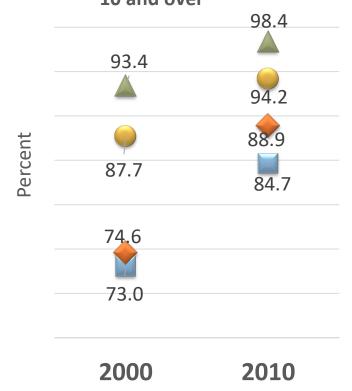


Years of schooling and literacy rate of Filipinos had generally improved in Mindanao

Average years of schooling of population aged 25 and over



Literacy rate of population aged 10 and over



■ Muslim ◆ Non-muslim IPs ▲ Non-muslim/Non-IPs ● All groups



Total inequality for years of schooling and literacy went down from 2000 to 2010 in Mindanao

Inequality component	Years of	schooling	Literacy		
	2000	2010	2000	2010	
Theil's index					
Within-group	0.189	0.167	0.125	0.058	
Between-group	0.015	0.014	0.005	0.002	
Total	0.204	0.181	0.131	0.060 \$	
Gini coefficient					
Within-group	0.174	0.146	0.045	0.015	
Between-group	0.074	0.076	0.046	0.030	
Overlap	0.081	0.085	0.031	0.012	
Total	0.329	0.307	0.123	0.057	



Within-group component had largely contributed to total inequality in Mindanao

Inequality component	Years of	schooling	Lite	Literacy	
	2000	2010	2000	2010	
Theil's index					
Within-group	0.1892	0.1667	0.1253	0.0576	
Between-group	0.0146	0.0142	0.0054	0.0020	
Total	0.2037	0.1808	0.1306	0.0595	
Gini coefficient					
Within-group	0.174	0.146	0.045	0.015	
Between-group	0.074	0.076	0.046	0.030	
Overlap	0.081	0.085	0.031	0.012	
Total	0.329	0.307	0.123	0.057	



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Concluding Remarks

- Disparities in terms of years of schooling and literacy appear to be narrowing between 2000 and 2010, as shown by various inequality measures.
- ☐ The non-Muslim, non-IPs are generally better-off in terms of years of schooling and literacy.
- Higher within-group inequalities exist. Inequality is highest within the Muslim group.
- Filipinos had higher access to and more equitable distribution of primary education services, while lower and less equal access in terms of secondary education services.
- The Philippine government has been exerting efforts to improve access of IP groups to education (e.g., IP Education of the Department of Education; IP component of the Modified Conditional Cash Transfer, or CCT, program of the Department of Social Welfare and Development).

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