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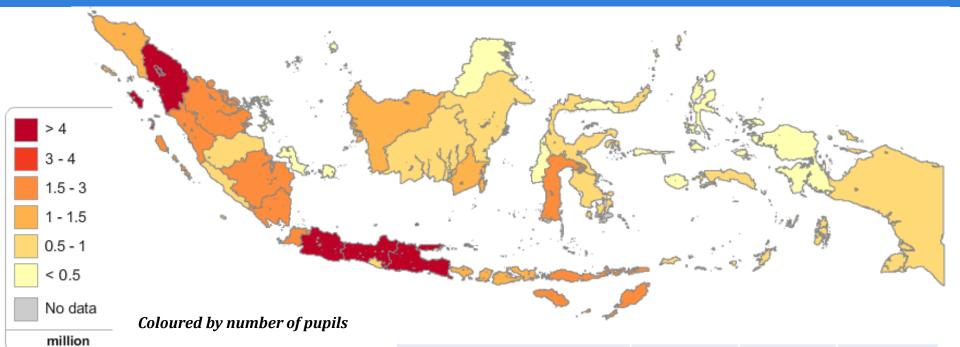
Measuring learning progress in Indonesia: Ways to answer the challenges

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Indonesia Education in Number



34 provinces 514 districts 17,504 islands 652 local language 300 ethnic groups

	schools	pupils	teachers
kindegarten	88,381	4,605,809	329,102
special school	2,070	121,244	24,657
primary school	147,503	25,618,078	1,586,127
junior secondary school	37,763	10,145,416	622,781
senior secondary school	13,144	4,659,542	294,872
vocational school	13,236	4,682,913	276,099
islamic kindegarten	27,865	7,791,691	79,475
islamic primary school	24,765	1,956,722	235,024
islamic junior secondary school	17,201	3,279,584	239,372
islamic senior secondary school	8,038	3,933,545	118,049
TOTAL	379,966	66,794,544	3,805,558



Challenges

 Assessing million students, with diverse geographic situation.

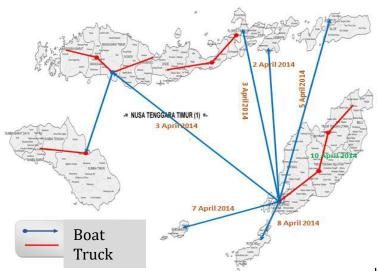
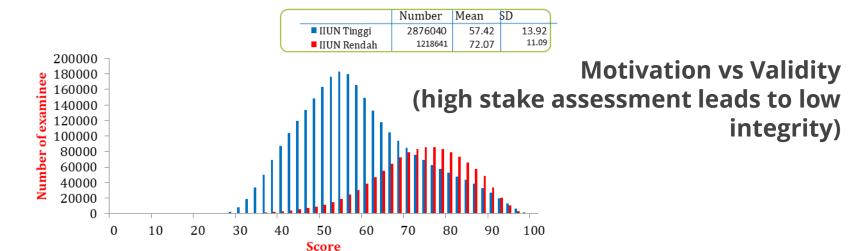
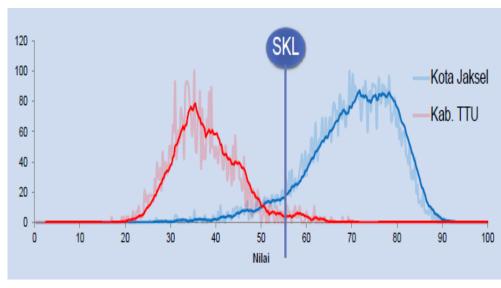


Illustration of exam paper distribution in one province

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Large Disparities on Abilities (needs broader range of measurement)



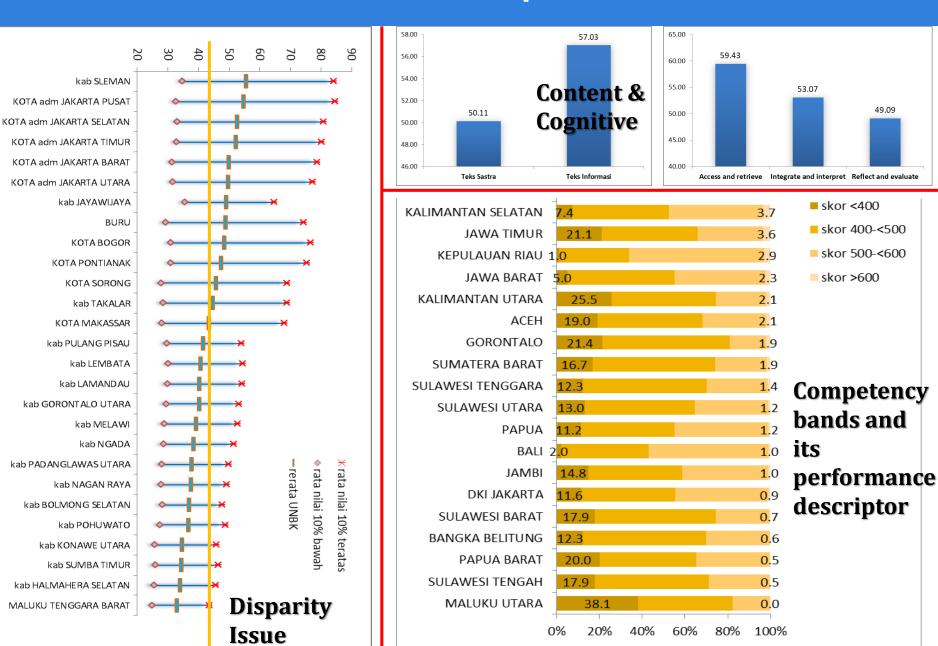


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Assessment Systems

Grade 12	National exam and National standardized school exam (census, annually)	Bahasa Indonesia, Math, English plus 1 subject of program study (15 choices for high school and 198 choices for vocational school-100 % from national center). Civic, religion (75% district)
Grade 10	AKSI (survey, 2020, piloting 2018)	Reading, writing, math, physics, biology, chemistry, background questionnaire
Grade 9	National exam and National standardized school exam (census, annually)	Bahasa Indonesia, mathematics, science, English (100% from national center) civics, social science, religion (75% district)
Grade 8	AKSI (survey, 2019- piloting 2017)	Reading, mathematics, science (computerized test, multi formats), background questionnaire
Grade 6	National exam and National standardized school exam (census, annually)	Bahasa Indonesia, mathematics, science (multiple choice + essay). 25% items from national center, 75% from district
Grade 4	AKSI (survey, 2016)	Reading, mathematics, science, background questionnaires
Grade 1-3	Literacy and Numeracy (project based survey)	Reading, writing, basic math (individualized test)

Example of assessment Results



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National Examination

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Since 2015 the test blueprint explicitly stated cognitive level for all subjects. Since 2018, 10% of the items turn in to constructed response format. Since 2015, gradually the test administration has been switching to computerized based test.

AKSI

Since 2017, AKSI grade 8 and 10 moved to computerized based assessment. Test blueprint also changed by introducing technology enhanced items format. This format influences the performance descriptor (for example in reading: students are able to navigate)

Final school exam Since 2017, final school exam based on standardized test blue print. 75% items developed by district, while 25% anchor from national center. The item format is no longer multiple choice only, but 10% of the items are constructed response.



80

60

40

Example of Performance Descriptor 2015

Students can interpret implicit meaning of literary passages by integrating information within passage. Kutipan puisi berikut untuk mengerjakan soal nomor <u>22 s.d. 24</u>. Bacalah dengan saksama!

Mamma, Burung dara jantan yang nakal yang sejak dulu kau piara kini terbang dan telah menemu jodohnya Ia telah meninggalkan *kandang* yang kau buatkan dan tiada akan pulang buat selama-lamanya

(Surat kepada Bunda tentang Calon Menantunya, Rendra)

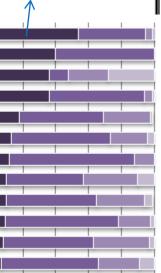
Makna lambang pada kata yang bercetak miring (kandang) dalam penggalan puisi tersebut adalah

- A. sangkar dengan hiasannya
- B. rumah dengan perabotannya
- C. rumah dengan aturannya
- D. kurungan dan hewannya
- E. penjara dan aturannya

In 2015, national exam majority done by paper and pencil. However, in 2015, we were starting to determine minimal number of higher order thinking skills items

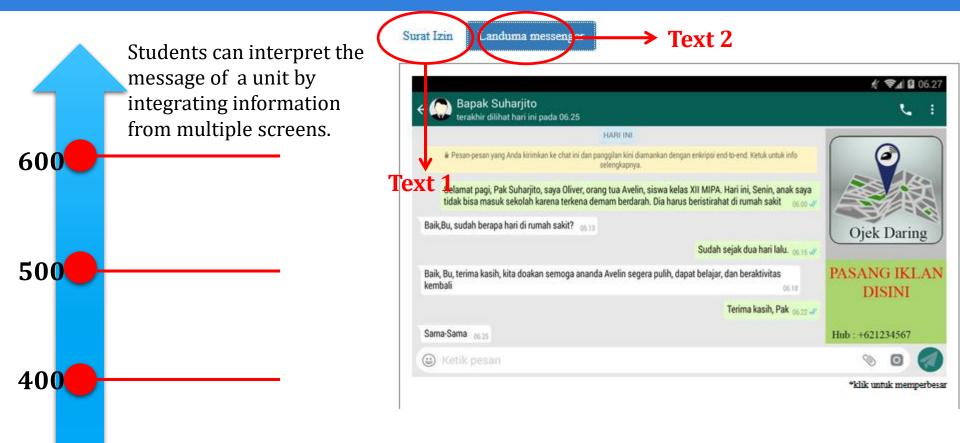
% students score> 80

KABUPATEN YAHUKIMO KABUPATEN MAMBERAMO... KABUPATEN PEGUNUNGAN... KABUPATEN PEGUNUNGAN... KABUPATEN MIMIKA KABUPATEN JAYAWIJAYA KABUPATEN TOLIKARA KABUPATEN TOLIKARA KABUPATEN MERAUKE KABUPATEN MERAUKE KABUPATEN KEPULAUAN YAPEN KABUPATEN PUNCAK JAYA KABUPATEN MAPPI





Example of Performance Descriptor 2018



In 2018, AKSI introduced reading unit with hyperlink, multiple screen and interactive screen. These kind of stimulus make the performance descriptor elaborate the navigation skills within the descriptor.

A lot more to come

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2018, developing automatic item generation to reduce item writers' workload. The aim is to get more critical thinking items

2017- recent, developing automatic essay scoring to be able to assess essay items in large scale assessment. Encourage students on critical thinking **2019**, developing digital reading assessment for primary school students

2018, capacity building on developing collaborative problems solving assessment **2019,** elaborate financial, civics and moral domain into AKSI grade 10



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Thank you!

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