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2024 CONFERENCE ON EDUCATION DATA AND STATISTICS

Using Data and Technology to Improve Education: Insights from Indonesia's *Merdeka Belajar* Reform

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In 2019, Indonesia launched *Merdeka Belajar*, a systemic reform aimed to improve learning quality for all students.

Student learning outcomes: foundational competencies in *Profil Pelajar Pancasila*

School transformation: instructional leadership, teacher reflection and collaboration, and student-oriented teaching practices

Teacher training:

improve competencies and teaching quality through collaborative reflection on practice School principal and supervisor recruitment and training: emphasis on instructional leadership and change management

Teaching and learning:

national curriculum framework and teaching resources which focus on foundational competencies Evaluation and
accountability: provide
feedback on and
incentives for teaching
and learning quality in
each school and district

This reform is implemented in a system that comprises of

>3.3 million teachers,

>46 million students across

>430 thousand schools

managed by 554 local governments.

Digital **technologies** | **Partnerships** with stakeholders | Asymmetric and affirmative **provision of resources**



As part of the reform, a national assessment collects data on teaching and learning from 4.3 million teachers and principals, 6.9 million students in 510 thousand schools.

1. Communicates reform vision and goal

- Quality & equity of student learning (literacy)
- Deep and engaging teaching
- Safe and inclusive school climate
- Teacher collaborative learning and reflection

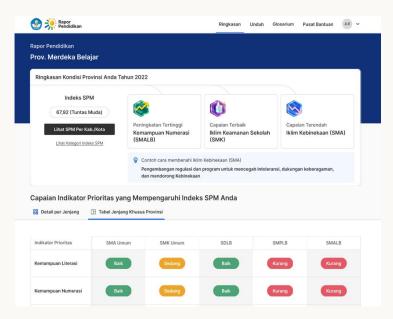
2. Evidence-based planning & evaluation

- Schools reflect on their teaching quality and climate; then make plans for improvement.
- Local governments reflects on areas of strengths and weaknesses; prioritize resources for struggling schools.
- Central gov monitors progress; evaluates and improves programs.

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3. Provide incentives for behavior change

- Financial incentive for high performing and most improving schools and districts.
- Automatic extension of school accreditation status (saves time, resource).



Key programs in the *Merdeka Belajar* reform rely on digital technology and platforms for scale, speed, and effectiveness of implementation.



1. Data collection & analysis

- The literacy tests are computer adaptive.
- Online testing, can be done with standard laptops; does not require local server.
- Automatic scoring of multiple choice and short essay responses. Analysis finalised and reported within 2-3 months.
- Collection of data on teaching practices from hundreds of thousand of teachers.

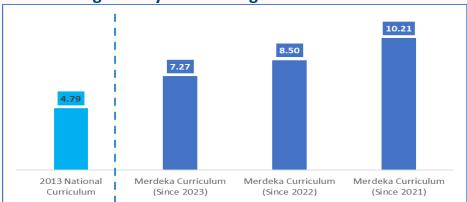
2. Personalised experiences

- With Platform Merdeka Mengajar, teachers can choose training modules and engage with online communities that fit their needs. They can also use teaching materials that are relevant to their context.
- With Platform Rapor Pendidikan, school principals and district education officials are provided with recommendations of programs based on their own data.

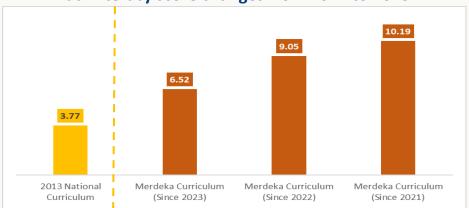


The 2023 National Assessment results indicate that the *Merdeka Belajar* reform is beginning to show positive impact on student learning.

Reading literacy score changes from 2021 to 2023



Math literacy score changes from 2021 to 2023



- Compared to schools still using the previous 2013 National Curriculum, schools implementing the new Merdeka Curriculum show better learning gains from 2021 to 2023.
- ► Learning gains are associated with period of implementation of the Merdeka Curriculum, with schools implementing the since 2021 showing the largest gains.
- This pattern is consistent across domains (reading and mathematics), levels of education (primary, lower secondary, and upper secondary), and regions (remote, rural, and urban).







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