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Kiki Yulianti

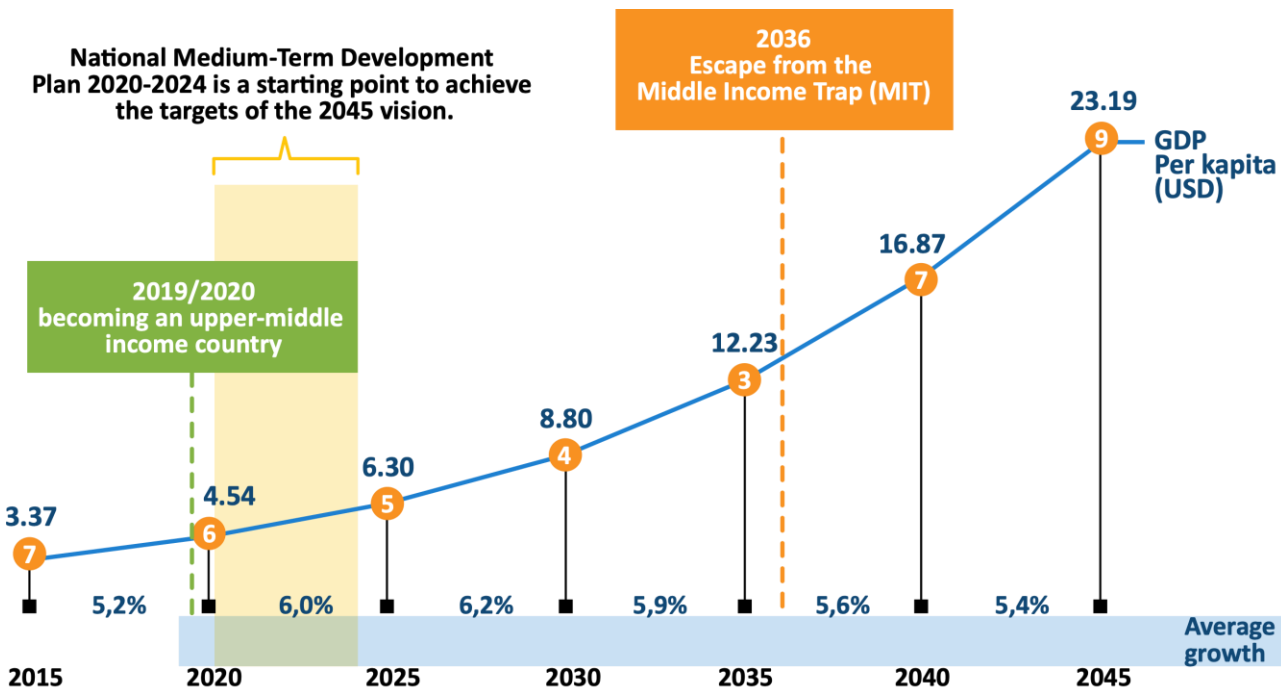
Director General of Vocational Education

**Education Sector Support in Preparing Competent
Human Resources to Embrace the Industrial Era 4.0:**
Focus on TVET and Emancipated Learning Policy in Indonesia

Indonesia's expansive growth post pandemic

Transformation of Indonesia

Indonesia is transforming from dependence on natural resources into manufacturing competitiveness and modern services that have high added value for the nation's prosperity



2010		2045
238.5 million	 Total Population	318.7 million
2.5	 Total Fertility Rate	1.9
69,8 y	 life expectancy	72.8 y
11.9 million	 Number of Elderly	42.8 million
51.1%	 Dependency ratio	50.2%
49.9%	 Urban area population	69.1%

Average growth rate
2015-2045:

Real GDP

↑5,7%

Year 2045:

No-5

(USD 7,4 trillion)

The Opportunities Ahead with Growing Demographic Dividend



JOB AVAILABILITY CHALLENGES

- 3.7 million students graduate from SHS.
- 1.65 million college graduates
- 1.9 million students can enter college
- 1.8 million enter the labor market.
- **3.45 million new job seekers yearly**

* Source: Statistics Indonesia, 2022



NATIONAL HR PRODUCTIVITY CHALLENGE

Dominated by junior high school graduates and high school. **13% have higher education diploma out of 72.72%** of the productive age population. National productivity can be far behind compared to developed countries (Statistics Indonesia, 2022)



EMBRACING THE OPPORTUNITY OF DEMOGRAPHIC DIVIDEND

- Indonesia will have the peak of its demographic dividend by 2030 and enjoy the results by 2045.
- Strengthening the Entrepreneurship aspect in education needs to be supported as a trigger and solution to the availability of employment opportunities and the nation's economic development, as well as the result of labor-intensive industries.
- Need to increase the Gross Enrollment Rate (APK) of Higher Education.
- **The revitalization of vocational education and training needs serious attention.**



FOOD SOVEREIGNTY CHALLENGES

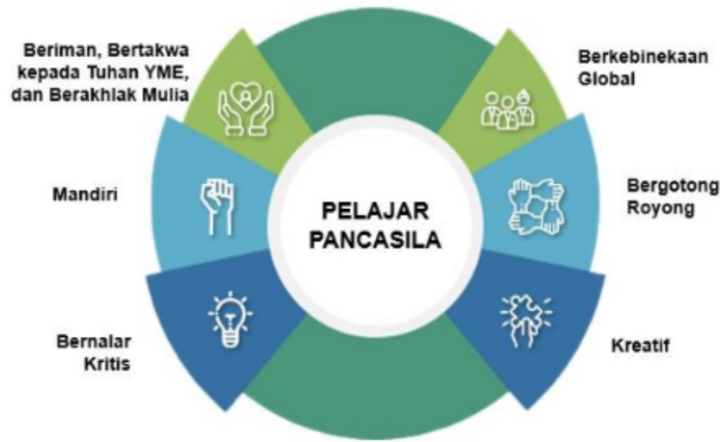
With a population growth rate of 1.25 % per year, Indonesia's population will reach 318 million in 2045. This will also increase the need for food. **The low interest of the millennial generation in the agricultural sector and the massive conversion of agricultural land will make Indonesia dependent on imports.**



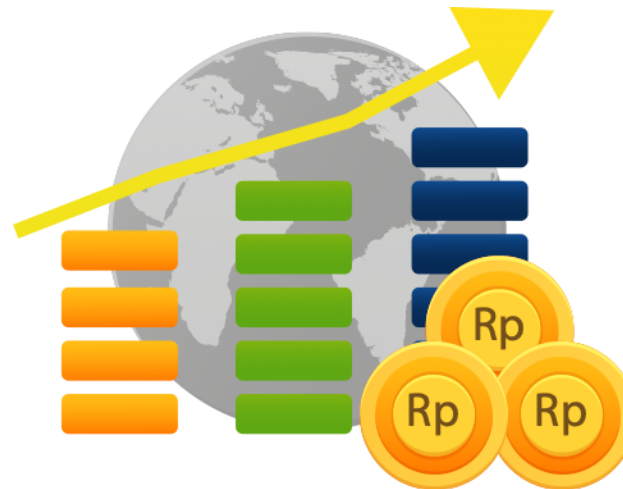
THE FUTURE JOB REVOLUTION CHALLENGES

There are 8.4 million unemployed (BPS, February 2022). On the other hand, digitalization and the industrial revolution 4.0 have resulted **Indonesia's digital economy grew by 22% from 2021 to reach a value of 77 billion USD**, making it a significant player in the ASEAN digital economy. (Google, 2022. E-Economy SEA 2022)

Principle Values in Vocational Education Transformation



The Value of Education:
to educate the life of the nation



Economic Value:
relevant to the direction
of the nation's economic
development



Social Value:
to promote
the general welfare

Emancipated Learning: Transformation in Education

Category	Current Situation	Transformation Context
Ecosystem 	Learning is a mandatory Closed system (stakeholders work with their system)	Learning becomes a fun experience Opened system (a collaboration between stakeholders)
Teacher 	The teacher is just delivering an information/knowledge Teacher training based on a theory	Teachers as facilitators in learning activities Practice-based teacher training
Pedagogy 	Content-based pedagogy , curriculum and assessment One-Size fits all approach	Competency and values-based pedagogy , curriculum, and assessment Individual needs-based and student-centered approach
Curriculum 	The content-based curriculum is mandatory Just focus on academic activities	Competency-based curriculum and just as a framework/menu (flexible content) Focus on soft skills and character development
Evaluation System 	Assessment is summative/punitive Standardized assessment	Assessment is formative/supportive Assessment based on portfolio

SMK Center of Excellence (CoE), 2022



1.401
SMK CoEs



824
Industry and the consortium
proposed for matching scheme



373
SMK Center of Excellence (CoE)
with Matched Fund From Industries



349
Industries (331 companies, 9 consortiums
consisting of 9 industries) involved in
matching fund



294.12 thousand USD
Total industry investment commitment

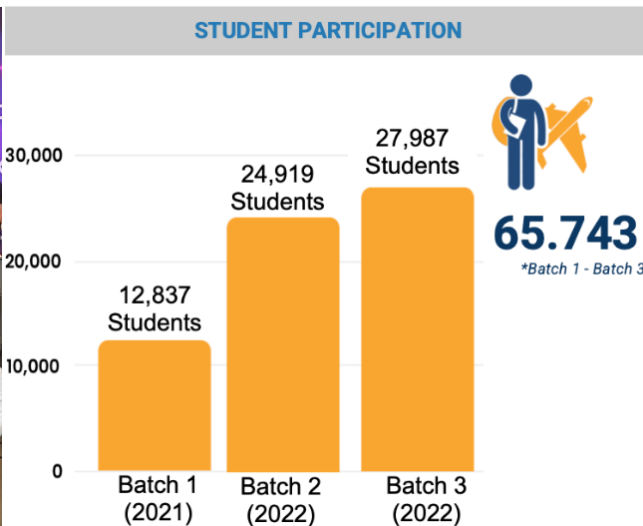


- Transforming learning in vocational high schools to improve alignment with world of work and prepare graduates with relevant skills for future of work.
- Improving partnership, and giving opportunities for industry partners to co-create learning processes in schools.
- Increasing capacity of teachers and human resources in vocational high schools.



Certified Internship and Independent Studies

The program aims to provide students with the opportunity to do internships or courses with a final project in world-class companies. Through the guidance of professional mentors, students are encouraged to solve real problems and hone job skills. MSIB facilitates direct experience in the industry for students as well as providing prospective talents who are ready to enter the world of work.



Indonesian International Student Mobility Awards

Scholarship program by the Indonesian government to provide opportunities for Indonesian students to take part in international mobility programs to the world's best universities as well as with their prominent industry. Students can take part in lecture activities at partner universities and its prominent industry abroad for one semester (4-6 months).



117

Universities



37

Countries



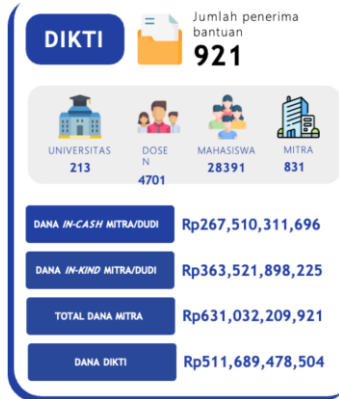
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Contingents



Transformation in Research Ecosystem with Industries

KEDAIREKA MATCHING FUND PROGRAM AND LPDP FUNDED APPLIED SCIENCE RESEARCH PROGRAM



Kedaireka is a program that stimulates transformation in research ecosystem by allowing university personnel to work with business entities/world of industry to solve real life challenges in joint projects funded by industry and MOECRT



Applied Science Research Program is integrative, collaborative and multidisciplinary demand-driven/oriented research funded by The Indonesia Endowment Funds for Education (LPDP).

- Improving the quality of vocational human resources (lecturers, students, and staff) and industrial partner who have innovative, creative abilities, and production capabilities.
- Development, improvement, products and or services, which have an impact on socio-economic value.
- Improving partnership, and giving opportunities for industry partners in developing technology such as the application of AI in production line (the use of artificial intelligence technology in brake pad testing machines)

Critical Roles of TVET and Emancipated Learning Policy in preparing competent and competitive human resources for Industry 4.0 era

Human Capital as one of the Drivers for Indonesia's Future Development

- TVET and Emancipated Learning Policy are crucial in preparing competent human resources for the Industry 4.0 era.
- They provide learners with the necessary skills and competencies to succeed in the workforce and contribute to economic growth.
- By investing in TVET and promoting Emancipated Learning Policy, Indonesia can develop a skilled workforce that is ready to embrace the challenges and opportunities of the Industry 4.0 era.

MoECRT of Indonesia welcomes

- Fruitful and sustainable partnerships with prospective countries working in an educational transformation.
- Wider, stronger and long-lasting partnerships between vocational education and global industries.



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Thank You