



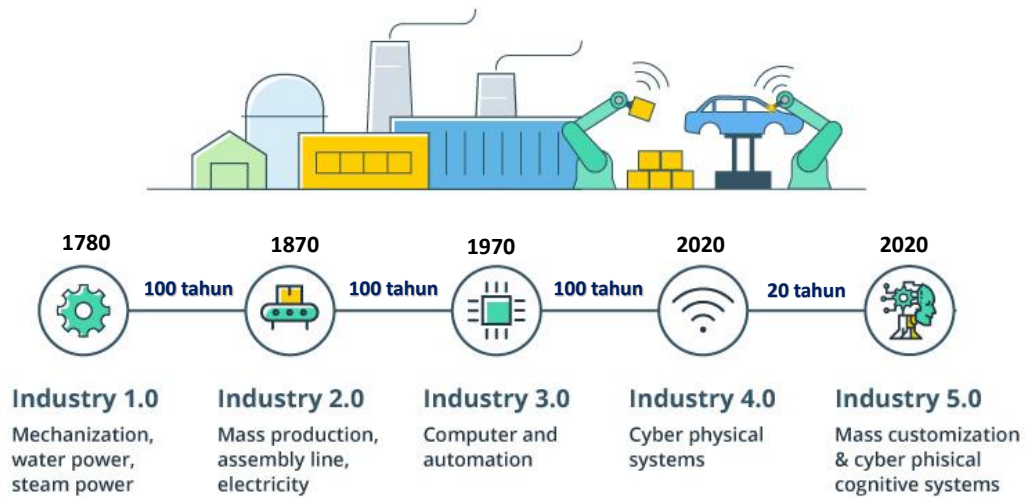
PENDIDIKAN ERA 5.0

humanis, eksploratif, sarat inisiasi, membekali dan mengarahkan

Vita Wardhana

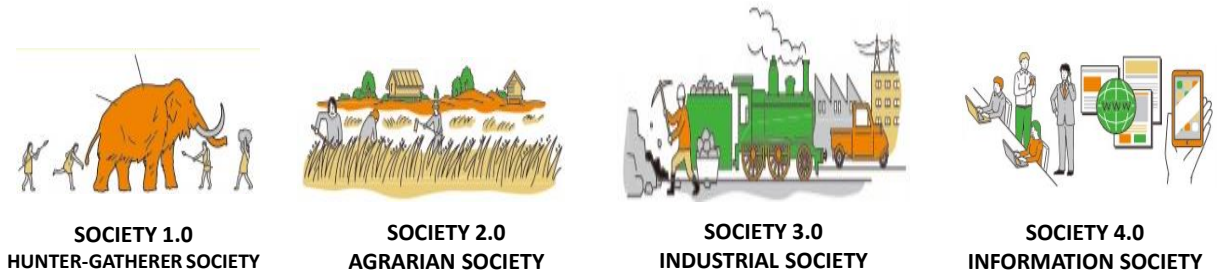
- Vita Wardhana Bhakti Widodo
- Email : vita.wardhana@gmail.com
- 0812-1740596
- Pendidikan:
 - *Pasca Sarjana Teknologi Pendidikan 2016*
 - *Sarjana Sastra lulus tahun 2000*
- Aktivitas
 - Program Pendampingan Sekolah di Kinabalu-Sabah Malaysia, Surabaya-Jawa Timur, Blora-Jawa Tengah, Aceh Barat Daya
 - Tim Konsultan Pendidikan Next Edu Indonesia
 - Ketua Yayasan Mutiara Ilmu Unggul Pasuruan.





<https://intellias.com/industry-5-0-announcing-the-era-of-intelligent-automation/>

JAPAN'S VISION OF SOCIETAL PROGRESSION



Source: The Government of Japan

<https://medium.com/@kathleenhamilton/the-future-of-education-preparing-for-society-5-0-a9d81ad64d9f>



SOCIETY 5.0
SUPER-SMART SOCIETY

<https://medium.com/@kathleenhamilton/the-future-of-education-preparing-for-society-5-0-a9d81ad64d9f>

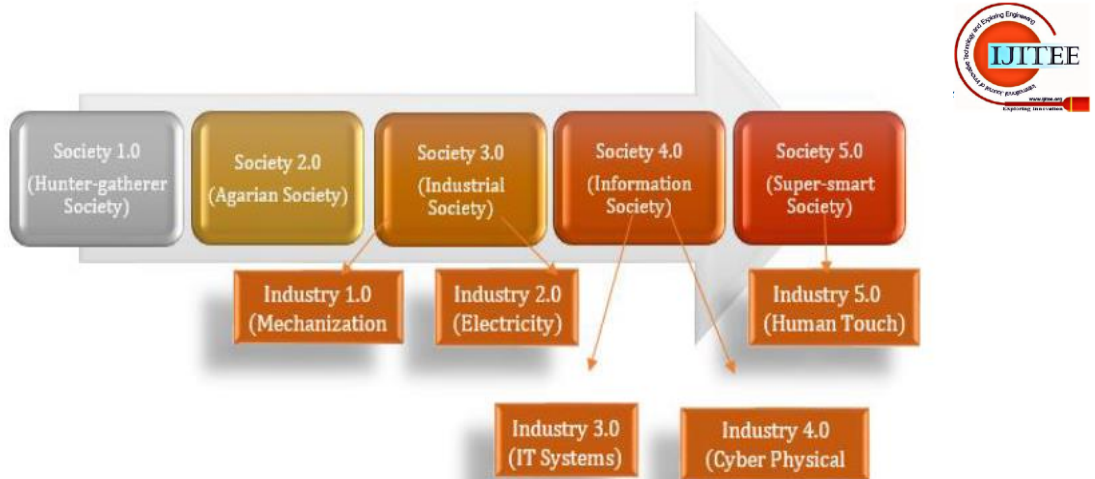


Figure 2. Industrial Revolution in the context of Societal Revolution

International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-12, October 2020

“Ajarilah anakmu sesuai dengan
jamannya karena mereka akan hidup
di jamannya dan bukan di jamanmu.

Sesungguhnya mereka dicipta untuk
jamannya sedang kalian dicipta
untuk jaman kalian”
Rasulullah SAW



Undang-Undang NO. 20 Tahun 2003
Tentang Sistem Pendidikan Nasional mengatakan

“Pendidikan harus berakar pada ***nilai-nilai agama, kebudayaan nasional indonesia dan tanggap terhadap tuntutan perubahan zaman.***”

MENGAPA HARUS BERKEMBANG?

The Future of Education: Preparing for Society 5.0

 Kathleen Hamilton · Mar 1, 2020 · 5 min read



The world needs entrepreneurs, not employees.



<https://medium.com/@kathleenhamilton/the-future-of-education-preparing-for-society-5-0-a9d81ad64d9f>

Education 5.0 - Why We Need to Adjust the Education System



Mattia Rüfenacht

Interested in the hard problem (Qualia) and kind of fascinated by humans, plants & technologies.

Published Dec 5, 2017

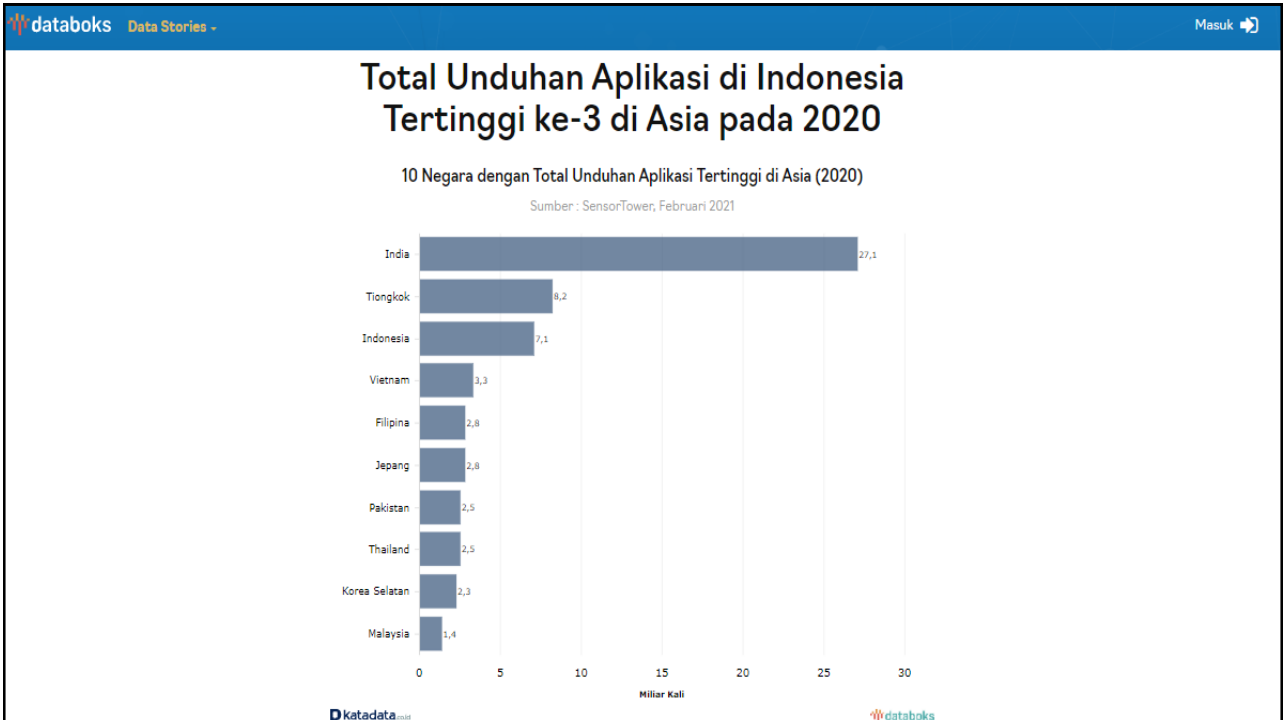


MATTIA RUFENATCH – AUTHOR OF PARASHIFT

CYBER SPACE

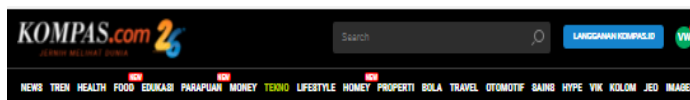
- Bebas dan terbuka
- Saved and re-accessible
- Akses cepat.
- Interaktif
- Update
- Jangkauannya luas





JUMLAH PENGGUNA INTERNET INDONESIA 2021 TEMBUS 202 JUTA

Kompas.com - 23/02/2021, 16:10 WIB



Home / Tekno / Internet

Jumlah Pengguna Internet Indonesia 2021 Tembus 202 Juta

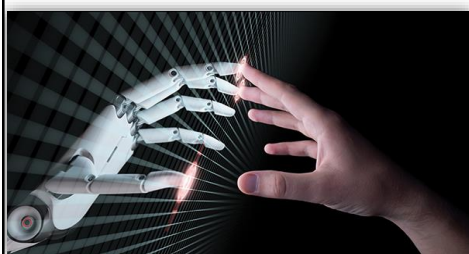
Kompas.com - 23/02/2021, 16:10 WIB

BAGIKAN:    



TAHUN 2021:

- JUMLAH PENDUDUK INDONESIA = 275 JUTA JIWA
- JUMLAH PENGGUNA INTERNET = 202 JUTA.
- PENETRASI = 74%



AI HELPS HUMANS

**AI WORKS TOGETHER
WITH HUMAN**



AI REPLACES HUMANS

McKinsey
& Company

Otomasi dan masa depan pekerjaan di Indonesia

Pekerjaan yang hilang, muncul dan berubah

September 2019

Otomasi dan masa depan pekerjaan di Indonesia

Masa depan pekerjaan cukup positif untuk Indonesia: lebih banyak pekerjaan baru yang akan tercipta pada tahun 2030 daripada pekerjaan yang akan hilang dikarenakan otomasi

23 juta

pekerjaan dapat digantikan oleh proses otomasi

27 juta hingga 46 juta

lapangan kerja baru dapat diciptakan dalam periode tersebut

10 juta

dari lapangan kerja tersebut merupakan jenis pekerjaan baru yang tidak ada sebelumnya

Layanan kesehatan, konstruksi, manufaktur dan ritel

akan memperoleh manfaat dari meningkatnya kebutuhan tenaga kerja



**TANGGUNG
JAWAB
SEKOLAH**

TANTANGAN BERAT MENJADI GURU 2000 – 2030

LOMPATAN TIPIKAL GENERASI YANG TINGGI KARENA LOMPATAN TEKNOLOGI



Gen Alpha

Born Between
2016 - 2030



Gen Z

Born Between
1995 - 2015



Millennial

Born Between
1980 - 1994



Gen X

Born Between
1965 - 1979



Baby Boomer

Born Between
1944 - 1964

DIGITAL NATIVE
Lahir setelah 1980
Saat lahir dunia digital

DIGITAL IMIGRANT
Lahir sebelum 1980
Saat lahir dunia manual
Adaptasi ke dunia digital

Pasif

Serius

Teratur

Fokus

Individu

Proses lama



Aktif

Santai

Acak

Multitasking

Networking

Instan

DAMPAK NYATA ERA 4.0 BAGI GENERASI MUDA

V

Volatility

Perubahan yang semakin cepat



BERUBAH-UBAH

U

Uncertainty

Masa depan yang tidak pasti



TIDAK PASTI

C

Complexity

Banyak faktor tak terlihat dalam pengambilan keputusan



RUMIT

A

Ambiguity

Ketidakjelasan pengaruh satu peristiwa terhadap peristiwa lain



BINGUNG

MASALAH ANAK KITA SEKARANG

MASALAH AKADEMIS

20%



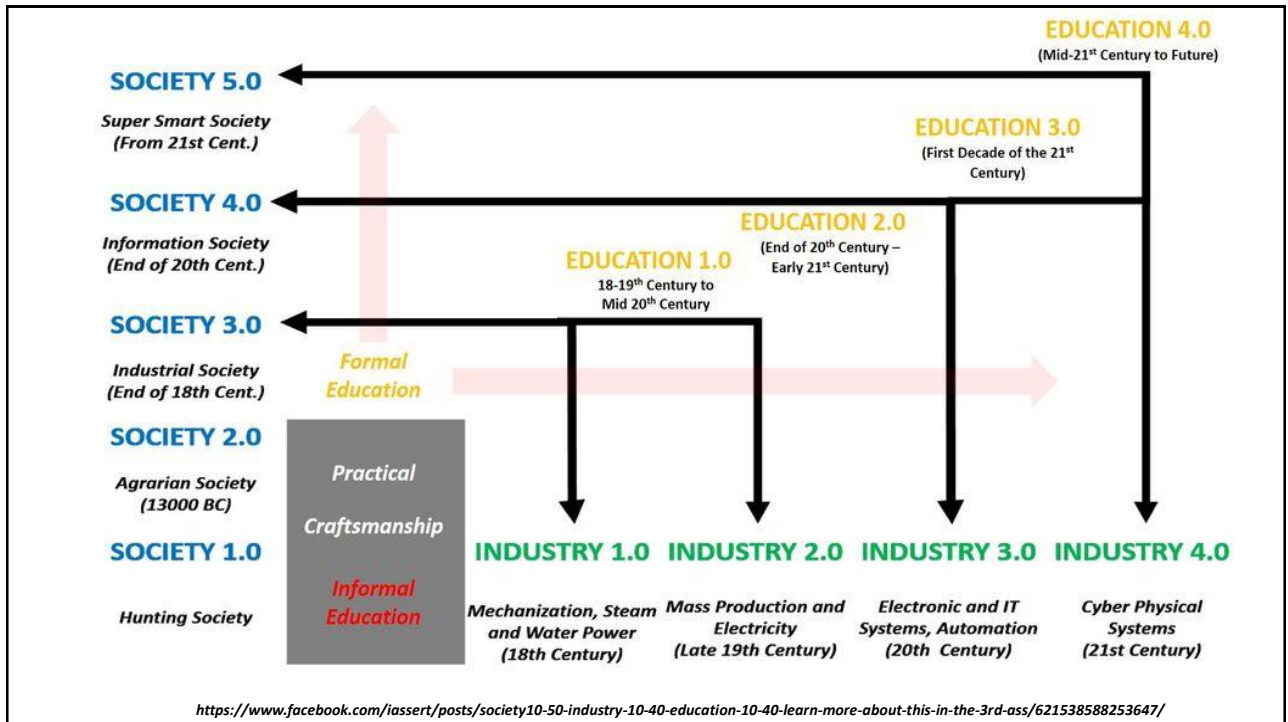
80%

MASALAH NON AKADEMIS

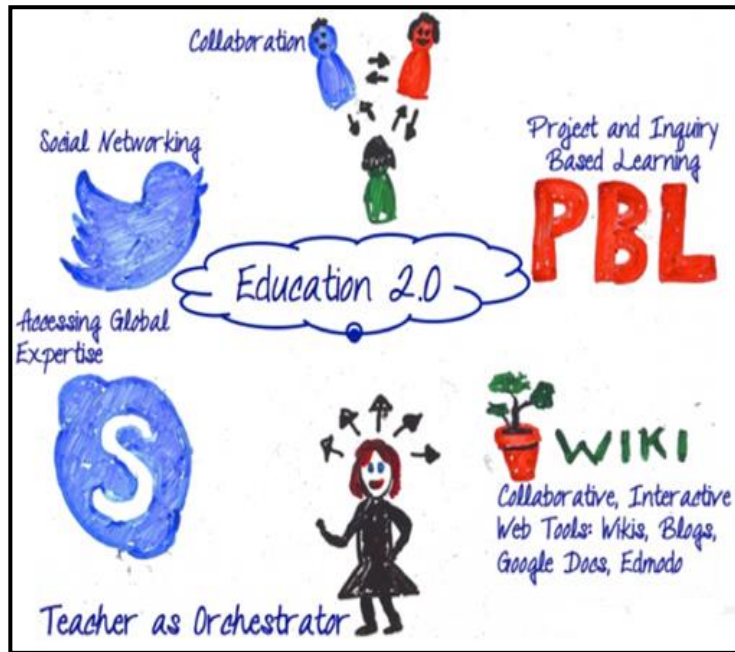
- Adiktif Gawai
- Adiktif Pornografi
- Abuse
- Anti Sosial
- Masalah Keluarga

A group of six students, three boys and three girls, are sitting at a dark wooden desk in a classroom. They are all wearing white school uniforms. The students are looking towards the camera with expressions of excitement and joy. Their right hands are raised high in the air, some holding pens or pencils. The background is a plain, light-colored wall.

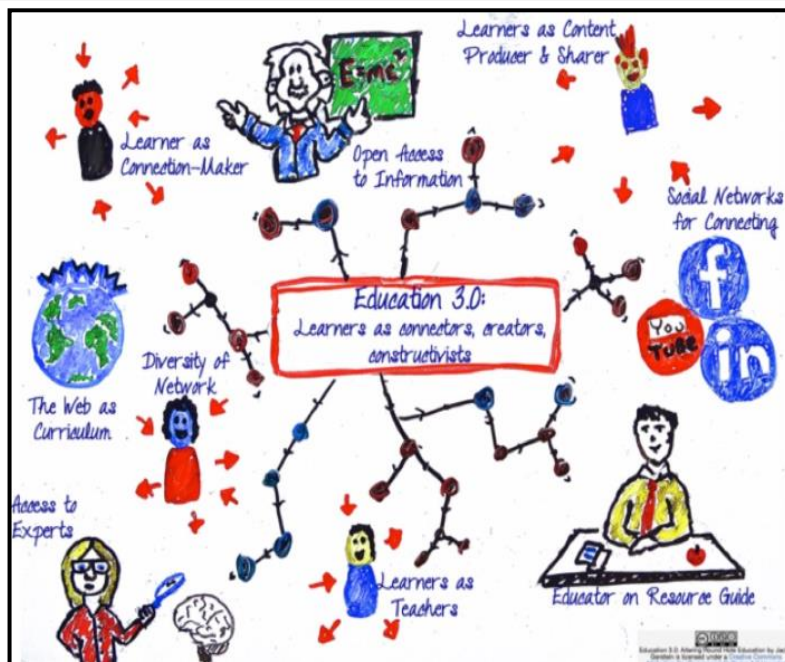
- 12



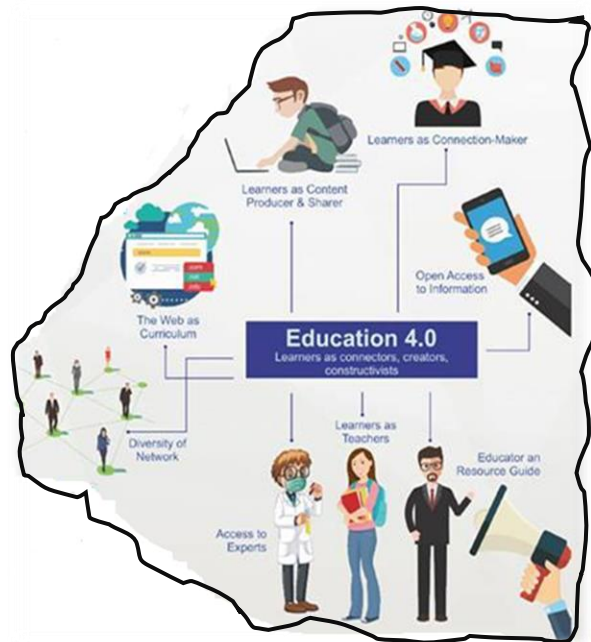
<https://usergeneratededucation.files.wordpress.com/2013/03/education-1-0.jpg?w=700&h=525>



<https://usergeneratededucation.files.wordpress.com/2013/03/education-1-0.jpg?w=700&h=525>



<https://usergeneratededucation.files.wordpress.com/2013/03/education-1-0.jpg?w=700&h=525>



Source: Abdul Rahim Hashim, (2017). Preparing graduates for the 4th Industrial Revolution. Plenary forum presented at the 7th World Engineering Education Forum 2017, Kuala Lumpur, Malaysia.

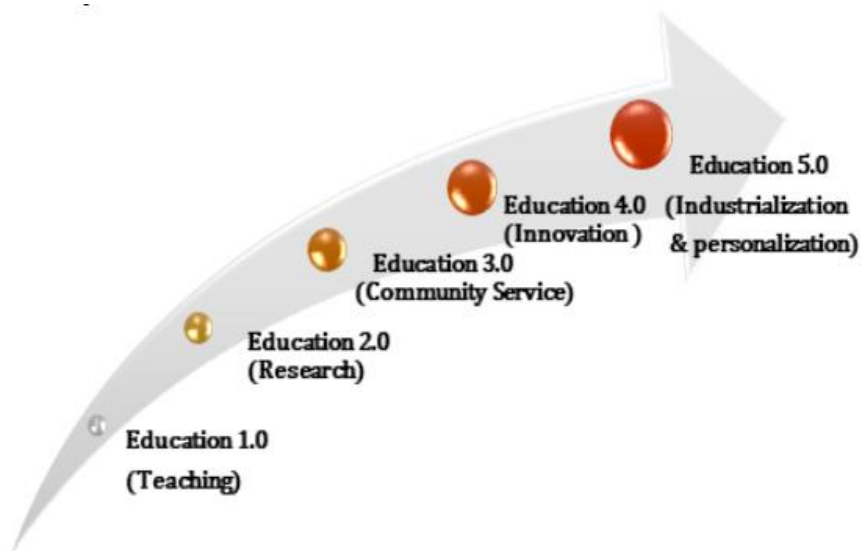


Figure 4. The Evolution in the Education System

International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-12, October 2020



EDUCATION 5.0



The education model of the future based on:

- *personalized education,*
- *learning flexibility,*
- *continuous improvement,*
- *critical thinking and problem solving,*
- *data interpretation,*
- *student-participatory curriculum,*
- *project-based learning and*
- *most importantly, technology and education partnership dynamics that form the basis of creating the future society.*

<https://www.leventuysal.com/2021/03/28/education-5-0/>

KONTEKS #1 – INCLUSIVE SCHOOL

- Education For All
- Anti Segregasi
- Multiple Intelligences

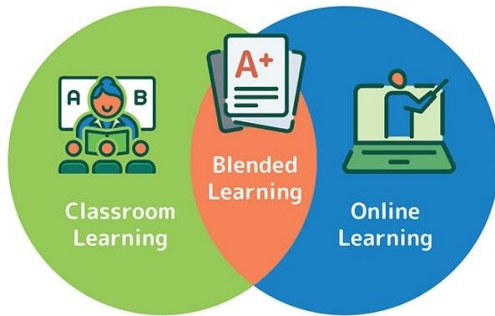


KONTEKS #2 – AGENT OF CHANGE



- Negatif menjadi positif
- Mereduksi hambatan

KONTEKS #3 – E-LEARNING



Blended Learning



Distance Learning

KONTEKS #4

LEARNING MANAGEMENT SYSTEM

- Sistem Aplikasi
- Sistem Manajemen Sekolah
- Sistem Pembelajaran



KONTEKS #5

DIGITAL MARKETING FOR SCHOOL

- Sistem Aplikasi
- Sistem Promosi Sekolah
- Sistem Marketing Sekolah
- Sistem Customer Maintenance



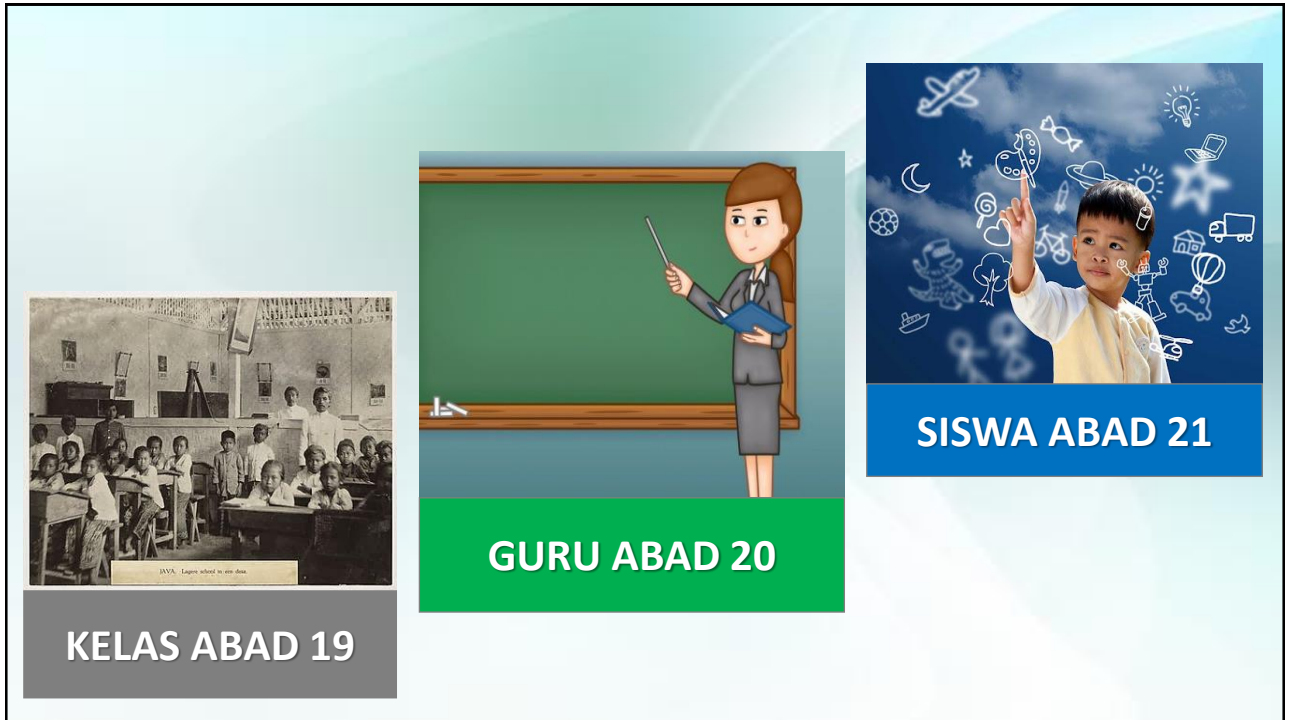
KONTEKS #6 – QUALITY CONTROL

• PENILAIAN KINERJA



• TOTAL QUALITY MANAGEMENT IN ACADEMIC





KONTEN #1

DESAIN KURIKULUM

-Humanism Learning Theory -

PAUD

• Variasi

SD

• Tematik

SMP

• Project-based Learning

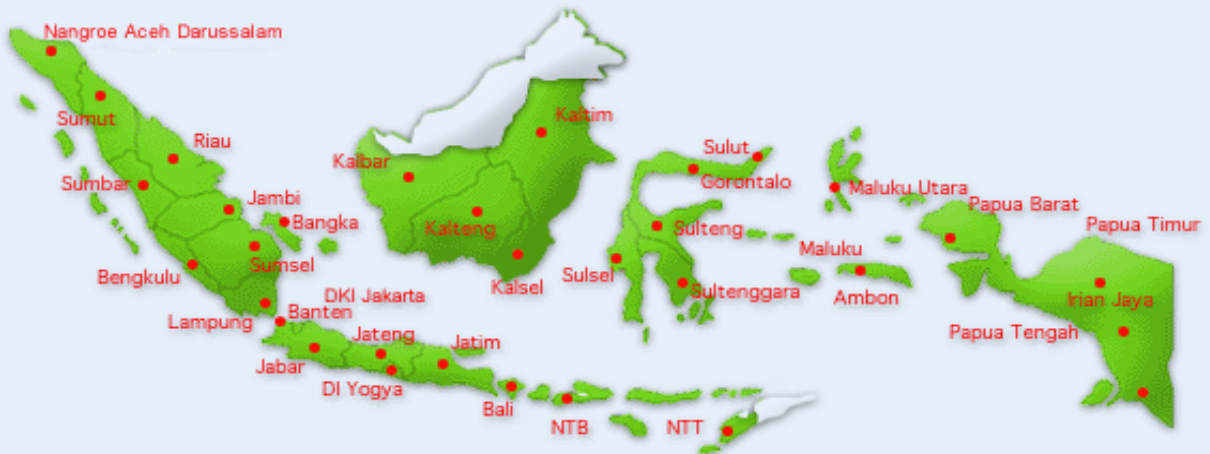
SMA

• Passion-based Learning

KONTEN #1

DESAIN KURIKULUM

- Potensi SDA dan Kearifan local -



INDONESIAIAKU

NEGERI SURGA YANG "TER" DI MUKA BUMI ...



NEGERI "TER": HASIL ALAM

Negeri “Ter”: Hasil Alam

- Penghasil bahan tambang terbesar:

- Timah : No. 1 di dunia
- Batu bara : No. 3 di dunia
- Tembaga : No. 4 di dunia
- Nikel : No. 5 di dunia
- Emas : No. 7 di dunia
- Uranium : No 2 di dunia
- Titanium : No 1 di dunia
- Penghasil 80% minyak di Asia Tenggara
- Penghasil 35 % gas alam cair di dunia

(Sumber: PriceWaterhouseCoopers)

Negeri “Ter”: Hayati



Negeri “Ter”: Hayati



Salah satu yang terkaya dalam luas hutan dan keanekaragaman hayati:

- Memiliki **515 jenis mamalia** (urutan kedua, hanya kalah tipis dari Brazil);
- **397 jenis burung** hanya dapat ditemukan di Indonesia;
- Memiliki **1.400 jenis ikan air tawar** (hanya dapat disaingi oleh Brazil);
- memiliki jenis terumbu karang dan ikan laut yang luar biasa, termasuk 97 jenis ikan karang yang hanya hidup di perairan laut Indonesia;
- Memiliki **477 jenis palem** (terbanyak di dunia).

(Sinar Harapan, 2003)



Negeri “Ter”: Pulau

NEGERI “TER”: PULAU

- Pada tahun 1987 Pusat Survei dan Pemetaan ABRI (Pussurta ABRI) menyatakan bahwa jumlah pulau di Indonesia adalah sebanyak **17.503**
- Pada tahun 2002 berdasarkan hasil kajian citra satelit menyatakan bahwa jumlah pulau di Indonesia adalah sebanyak **18.306** buah
(https://id.wikipedia.org/wiki/Daftar_pulau_di_Indonesia_menurut_provinsi)
- Pemerintah Indonesia telah melaporkan 16.056 pulau bernama di Indonesia ke Perserikatan Bangsa-Bangsa (PBB).
- Jumlah pulau yang ada di Indonesia saat ini adalah **17.504**, sedangkan jumlah **pulau bernama 16065** dan **belum bernama sejumlah 9.634** buah. (*Kompas*, 4 April 2018)

Negeri “Ter”: Penduduk

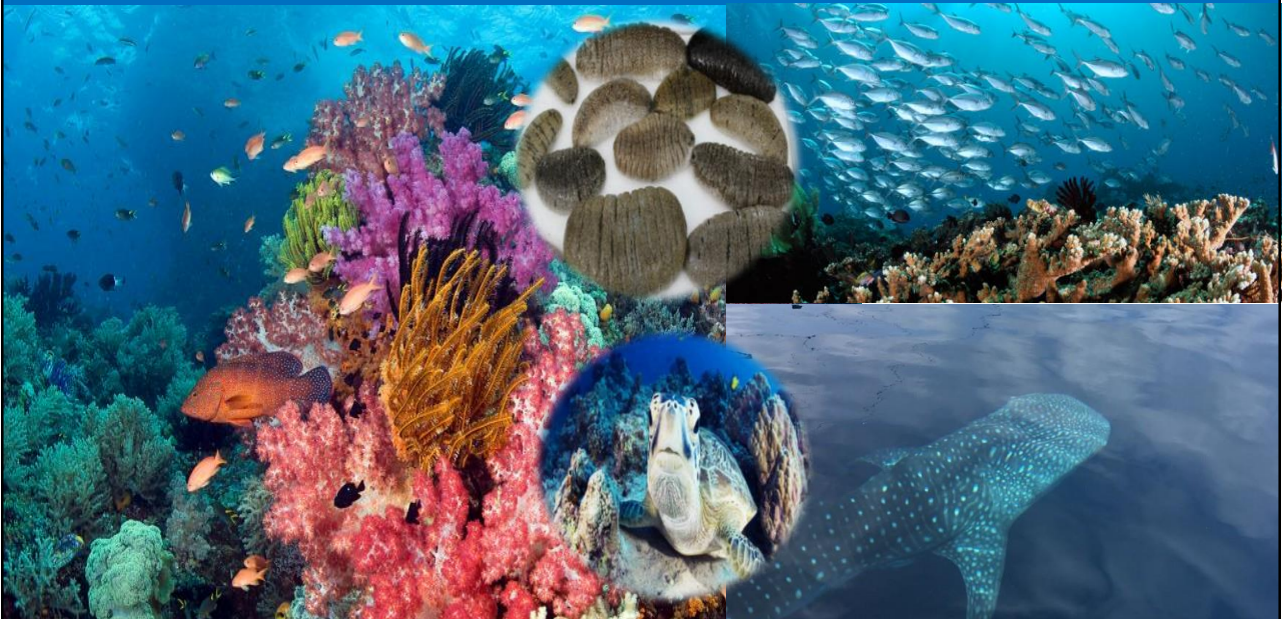


Negeri “Ter”: Penduduk

- Salah satu negara berpenduduk terbanyak. No. 4 setelah China, India, dan Amerika Serikat;
- Tahun 2000 sebanyak 203,4 juta jiwa. Pada tahun 2025 diperkirakan akan mencapai 273,65 juta jiwa. Dengan tingkat pertumbuhan 1,35% per tahun, diperkirakan akan menjadi 500 juta jiwa pada tahun 2050.

(Badan Kependudukan Nasional, 2002)

Kekayaan Bawah laut Indonesia yang belum terjamah ...



KONTEN #1

DESAIN KURIKULUM

- Kebutuhan dan Inovasi Masa depan -



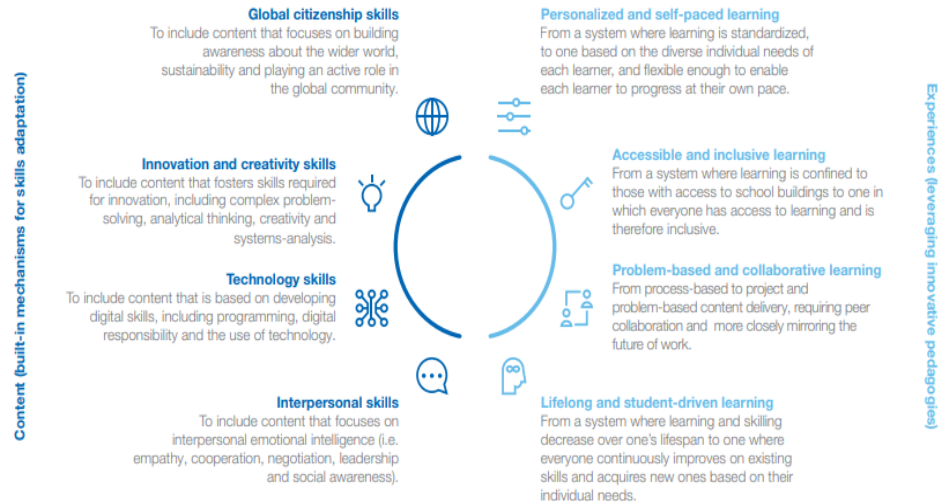
4 TAHUN LAGI, 10 PEKERJAAN INI MENJANJIKAN MASA DEPAN CERAH

1. 10 pekerjaan yang menjanjikan Pada tahun 2025, ada 10 profesi yang diprediksi akan menjadi paling bersinar. Kompas.com merangkumnya dari laporan panjang Future of Jobs Survey 2020 oleh World Economic Forum:
 1. Data analyst dan data scientist
 2. Artificial intelligence (AI) and machine learning specialist
 3. Big Data Specialist
 4. Digital marketing and strategy specialist
 5. Process automation specialist
 6. Business development professionals
 7. Digital transformation specialist
 8. Information security analyst
 9. Software and application developer
 10. Internet of things specialist

Daftar pekerjaan yang diprediksi bermasa depan cerah ini menunjukkan pentingnya interaksi manusia yang berkelanjutan dalam sektor jasa. Misalnya dalam marketing (pemasaran), sales (penjualan), dan content production (produksi konten).

KOMPAS.COM 24/07/2021, 17:00 WIB

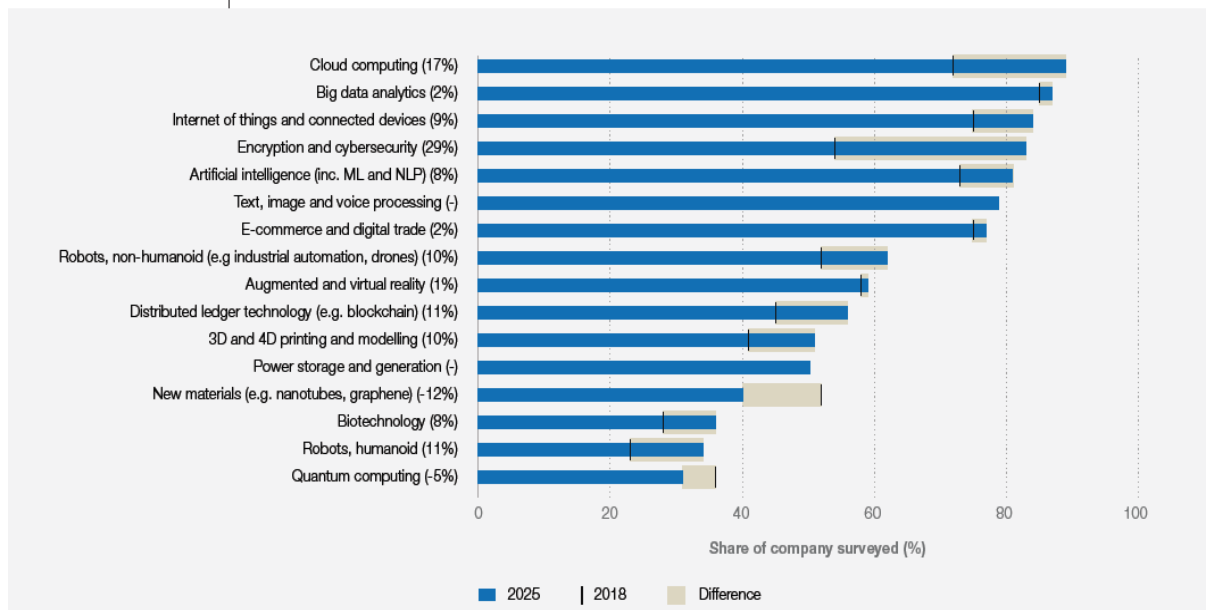
Figure 2: The World Economic Forum Education 4.0 Framework



<https://medium.com/@kathleenhamilton/the-future-of-education-preparing-for-society-5-0-a9d81ad64d9f>

FIGURE 18

Technologies likely to be adopted by 2025 (by share of companies surveyed)



WEF THE FUTURE OF JOB REPORT 2020

FIGURE 22

Top 20 job roles in increasing and decreasing demand across industries

➤ Increasing demand

1	Data Analysts and Scientists
2	AI and Machine Learning Specialists
3	Big Data Specialists
4	Digital Marketing and Strategy Specialists
5	Process Automation Specialists
6	Business Development Professionals
7	Digital Transformation Specialists
8	Information Security Analysts
9	Software and Applications Developers
10	Internet of Things Specialists
11	Project Managers
12	Business Services and Administration Managers
13	Database and Network Professionals
14	Robotics Engineers
15	Strategic Advisors
16	Management and Organization Analysts
17	FinTech Engineers
18	Mechanics and Machinery Repairers
19	Organizational Development Specialists
20	Risk Management Specialists

➤ Decreasing demand

1	Data Entry Clerks
2	Administrative and Executive Secretaries
3	Accounting, Bookkeeping and Payroll Clerks
4	Accountants and Auditors
5	Assembly and Factory Workers
6	Business Services and Administration Managers
7	Client Information and Customer Service Workers
8	General and Operations Managers
9	Mechanics and Machinery Repairers
10	Material-Recording and Stock-Keeping Clerks
11	Financial Analysts
12	Postal Service Clerks
13	Sales Rep., Wholesale and Manuf., Tech. and Sci.Products
14	Relationship Managers
15	Bank Tellers and Related Clerks
16	Door-To-Door Sales, News and Street Vendors
17	Electronics and Telecoms Installers and Repairers
18	Human Resources Specialists
19	Training and Development Specialists
20	Construction Laborers

Source

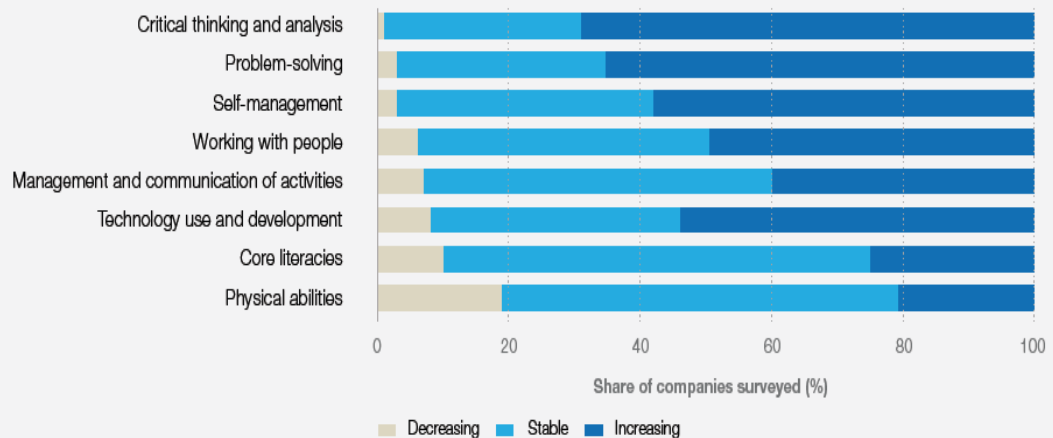
Future of Jobs Survey 2020, World Economic Forum.

WEF THE FUTURE OF JOB REPORT 2020

FIGURE 27

Perceived skills and skills groups with growing demand by 2025, by share of companies surveyed

A. Relative importance of different skill groups



WEF THE FUTURE OF JOB REPORT 2020

B. Top 15 skills for 2025

1	Analytical thinking and innovation	9	Resilience, stress tolerance and flexibility
2	Active learning and learning strategies	10	Reasoning, problem-solving and ideation
3	Complex problem-solving	11	Emotional intelligence
4	Critical thinking and analysis	12	Troubleshooting and user experience
5	Creativity, originality and initiative	13	Service orientation
6	Leadership and social influence	14	Systems analysis and evaluation
7	Technology use, monitoring and control	15	Persuasion and negotiation
8	Technology design and programming		

Source

Future of Jobs Survey 2020, World Economic Forum.

WEF THE FUTURE OF JOB REPORT 2020

FIGURE 28

Top cross-cutting, specialized skills of the future

Specialized skill	Emerging job clusters
1. Product Marketing	Data and AI, People and Culture, Marketing, Product Development, Sales (5)
2. Digital Marketing	Content, Data and AI, Marketing, Product Development, Sales (5)
3. Software Development Life Cycle (SDLC)	Cloud Computing, Data and AI, Engineering, Marketing, Product Development (5)
4. Business Management	People and Culture, Marketing, Product Development, Sales (4)
5. Advertising	Content, Data and AI, Marketing, Sales (4)
6. Human Computer Interaction	Content, Engineering, Marketing, Product Development (4)
7. Development Tools	Cloud Computing, Data and AI, Engineering, Product Development (4)
8. Data Storage Technologies	Cloud Computing, Data and AI, Engineering, Product Development (4)
9. Computer Networking	Cloud Computing, Data and AI, Engineering, Sales (4)
10. Web Development	Cloud Computing, Content, Engineering, Marketing (4)
11. Management Consulting	Data and AI, People and Culture, Product Development (3)
12. Entrepreneurship	People and Culture, Marketing, Sales (3)
13. Artificial Intelligence	Cloud Computing, Data and AI, Engineering (3)
14. Data Science	Data and AI, Marketing, Product Development (3)
15. Retail Sales	People and Culture, Marketing, Sales (3)
16. Technical Support	Cloud Computing, Product Development, Sales (3)
17. Social Media	Content, Marketing, Sales (3)
18. Graphic Design	Content, Engineering, Marketing (3)
19. Information Management	Content, Data and AI, Marketing (3)

Source

LinkedIn Economic Graph.

Note

Cross-cutting skills are those skills that are applicable and easily transferable across many occupations and roles.

WEF THE FUTURE OF JOB REPORT 2020

KONTEN #2 - PORTOFOLIO

• Penilaian Otentik



• Portofolio



Portofolio

Pada semester ini, saya sudah :

- ✓ Melakukan 10 unjuk kerja.
- ✓ Membuat 6 karya.
- ✓ Mencoba 5 proyek.
- ✓ Mendapatkan 4 penghargaan
- ✓ Mengikuti 2 organisasi.

Terima kasih guruku





1. DISKUSI

MAPEL: Bahasa Indonesia

Kemampuan membuat tulisan imajinatif.

- **HARI,TANGGAL,TEMPAT** : Rabu, 19 Agustus 2015, di kelas 10 SMA SOH.
- **NAMA UNJUK KERJA** : DISKUSI KELOMPOK tentang Tulisan Imajinatif.
- **HASIL NILAI** = 76, PREDIKAT = C
- **NARASI**: Cukup. ***Pada Ketepatan membedakan tulisan imajinatif***, siswa mampu membedakan semua tulisan imajinatif dengan tepat. ***Pada Kualitas presentasi***, alur presentasi atau kualitas materi hanya sebagian sesuai dengan target. ***Pada Kerjasama kelompok***, sebagian besar siswa memberikan pendapatnya
- **FASILITATOR** : Munif Chatib



RUBRIK DISKUSI MENULIS IMAJINATIF



RUBRIK PENILAIAN					
STRATEGI DISKUSI MENULIS IMAJINATIF					
MUNIF CHATIB					
NO	KRITERIA	BOBOT	POIN NILAI		
			5	3	1
1	Ketepatan membedakan tulisan imajinatif,	40%	siswa mampu membedakan semua tulisan imajinatif dengan tepat.	siswa mampu membedakan sebagian tulisan imajinatif dengan tepat.	siswa belum mampu membedakan semua tulisan imajinatif dengan tepat.
2	Kualitas presentasi,	40%	alur presentasi dan kualitas materi sesuai dengan target.	alur presentasi atau kualitas materi hanya sebagian sesuai dengan target.	alur presentasi dan kualitas materi belum sesuai dengan target.
3	Kerjasama kelompok,	20%	setiap siswa memberikan pendapatnya.	sebagian besar siswa memberikan pendapatnya	sebagian kecil siswa memberikan pendapatnya.
		100%			

