

career talk:

MEMENANGKAN PELUANG KARIR INDUSTRI 4.0 MELALUI JALUR EDUKASI TEKNOLOGI & SAINS

RABU,
16
JUNI 2021

pukul:

15:30 - 17:00

wib

LIVE ON  zoom

Bersama pembicara praktisi industri

Tina Melinda, M.Psi

Learning & Development Manager
Sinar Mas Mining





HELLO!

I am Tina Melinda

Profession:

- Head of Learning & Development Sinar Mas Mining.

Education:

- Magister Profession - I/O Psychology, UI

Certification

- CHRP Alumni, 44 (certified) – Atmajaya University
- Certified NLP Practitioner- Metamind
- Certified Master NLP Practitioner- Metamind
- Certified Meta-Coach – International Neurosemantics
- Certified OKR's Professional – KPI Institute
- Certified Assessment Centre Assessor – PPM Management
- Strategic Talent Analytics – Ecornell University

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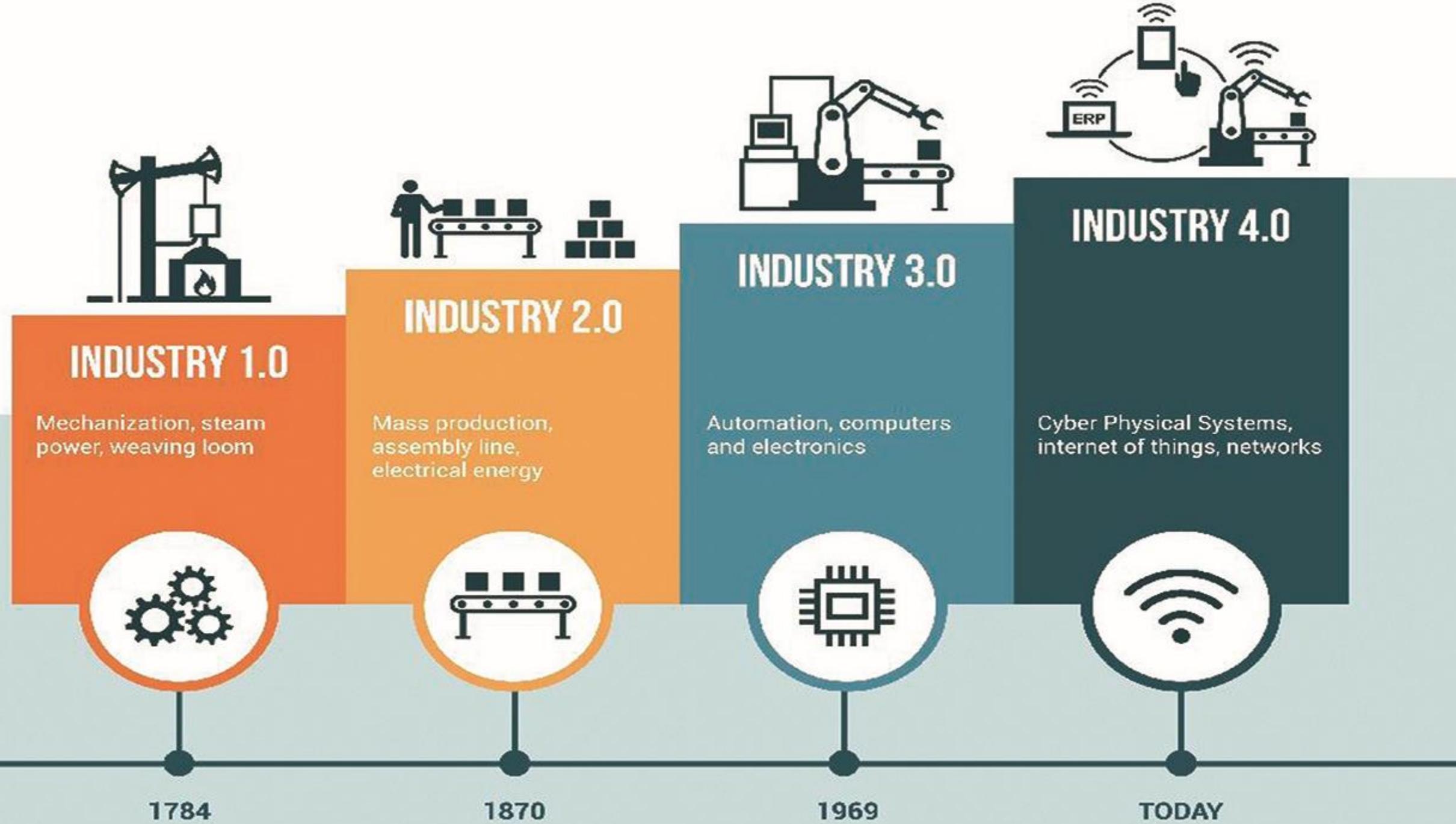




MEMAHAMI INDUSTRI 4.0



Industry 4.0



INDUSTRY 1.0

Mechanization, steam power, weaving loom



1784



INDUSTRY 2.0

Mass production, assembly line, electrical energy

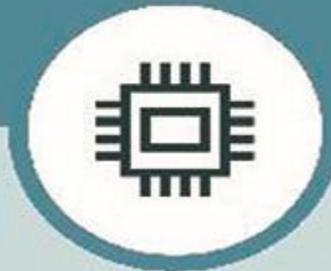


1870



INDUSTRY 3.0

Automation, computers and electronics



1969



INDUSTRY 4.0

Cyber Physical Systems, internet of things, networks



TODAY

Industry 4.0



AUTOMATION



CONNECTION



CLOUD
COMPUTING



IOT



BIG DATA



SYSTEM
INTEGRATION



Evolution of the Desk

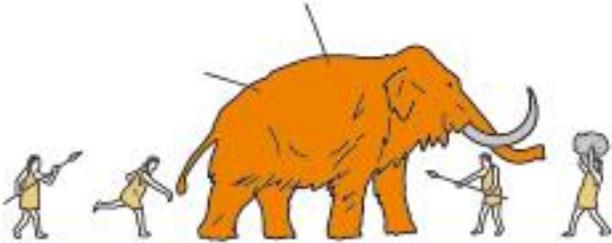
1981

MEMAHAMI SOCIETY 5.0

The Road to Society 5.0

Society 1.0

Hunter-gatherer Society



Society 2.0

Agrarian Society



Society 3.0

Industrial Society

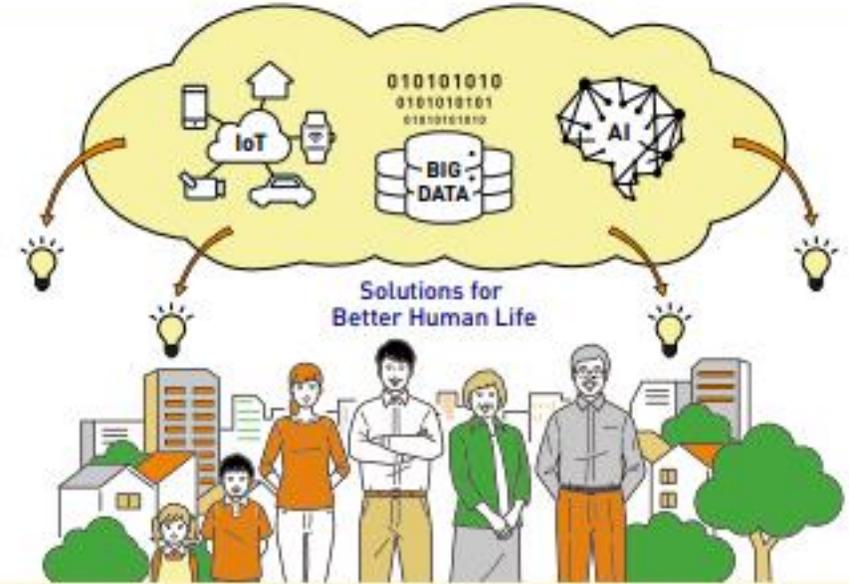


Society 4.0

Information Society

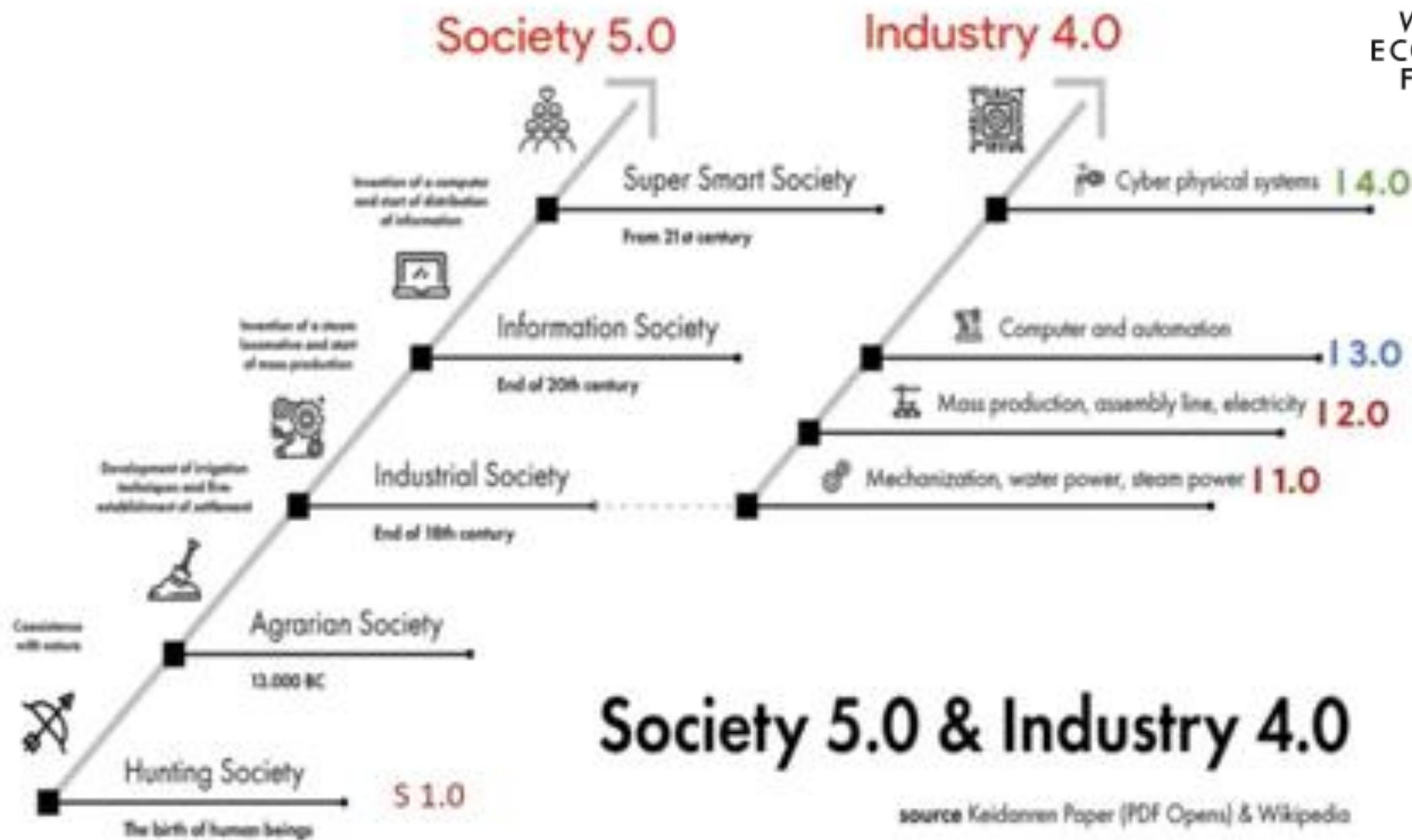


Entering Society 5.0



Big Data collected by IoT will be converted into a new type of intelligence by AI and will reach every corner of society. As we move into Society 5.0 all people's lives will be more comfortable and sustainable as people are provided with only the products and services in the amounts and at the time needed.

Japan's Prime Minister, *Shinzo Abe*
published this commercial
created by the Japanese government
about their new advanced
"Society 5.0"
controlled by AI in 2017.





"Kehadiran saya di sini untuk menyaksikan karya-karya besar bapak ibu, dan saudara-saudara sekalian yang mengubah ketidakmungkinan menjadi mungkin, kesulitan menjadi mudah. Inilah yang akan membawa Indonesia maju,"



TECH NEWS 1 tahun lalu

Robot Medis Berbasis Kecerdasan Buatan Bisa Ambil Darah

Robot medis berbasis kecerdasan buatan ini dapat mengurangi cedera dan meningkatkan efisiensi dan hasil prosedur, serta melaksanakan tugas



TECH NEWS 9 bulan lalu

Peneliti Kembangkan Kulit Buatan yang Bisa Merespons Rasa Sakit

Apa alasan ilmuwan tersebut mengembangkan kulit yang bisa 'merasakan' sakit? Cek selengkapnya di sini.



TECH NEWS 4 tahun lalu

Teknologi Getaran Magnetik untuk Pengobatan Depresi

Lewat perawatan yang disebut Neuromodulation, seseorang dapat mengatasi stres bahkan depresi dengan stimulasi saraf.

Leading into the Next Normal



CHANGE





Apa persamaan dari ketiga foto di atas?



<5

Shelf life of skills do not exceed 5 years



35%

Of core job skills have changed in 2020



65%

Of primary school children will work in jobs that don't exist today

Workers will need to learn more social and emotional skills, as well as technological skills

Automation and AI will accelerate the shift in skills that the workforce needs.

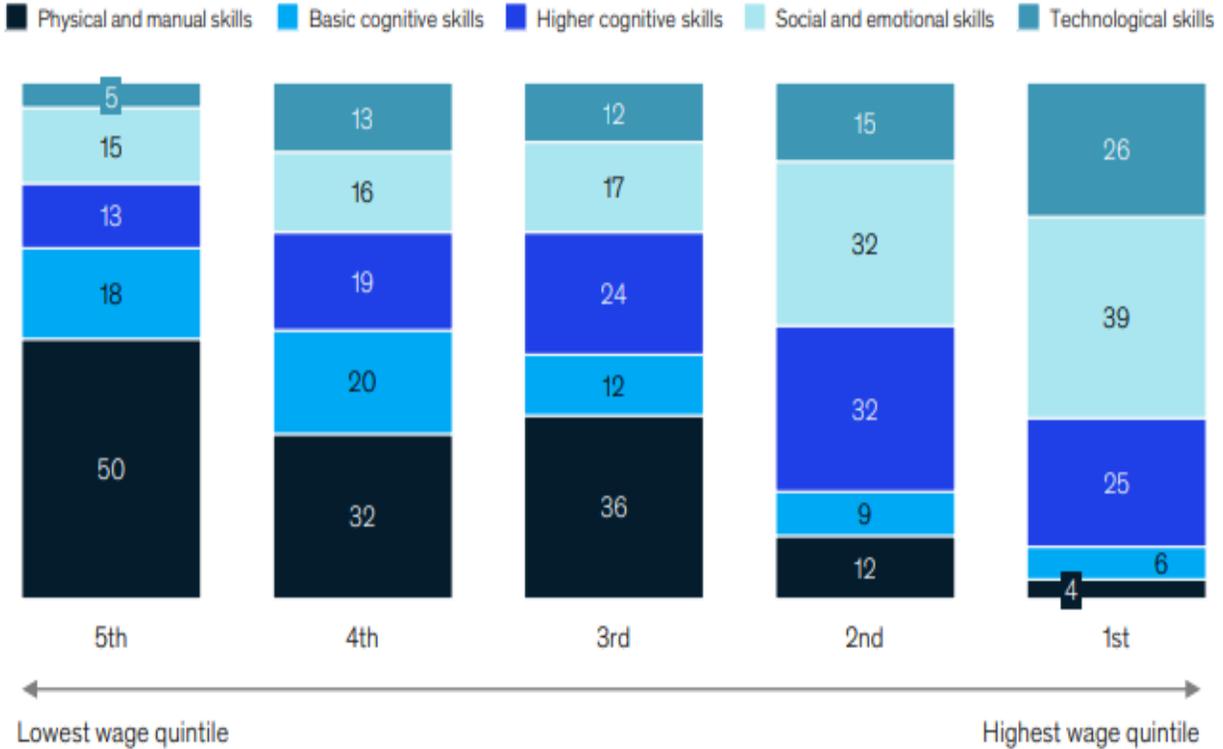
Based on McKinsey Global Institute workforce skills model

0 100

Skills	United States, all sectors		Western Europe, all sectors	
	Hours worked in 2016 Billion	Change in hours worked by 2030 %	Hours worked in 2016 Billion	Change in hours worked by 2030 %
Physical and manual skills	90	-11	113	-16
Basic cognitive skills	53	-14	62	-17
Higher cognitive skills	62	9	78	7
Social and emotional skills	52	26	67	22
Technological skills	31	60	42	52
Total	287		363	

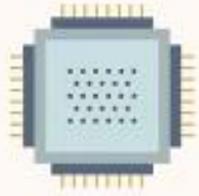
NOTE: Western Europe: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Italy, Netherlands, Norway, Spain, Sweden, Switzerland, and the United Kingdom. Numbers may not sum due to rounding.

SOURCE: McKinsey Global Institute workforce skills model; McKinsey Global Institute analysis



1. Using O*NET data, more than 2,000 work activities for more than 800 occupations were classified according to the primary skill used. Source: Employment and Training Administration, US Department of Labor; O*NET OnLine; US Bureau of Labor Statistics; McKinsey Global Institute analysis

Introducing APAC's Top 10 rising skills...



Robotic
Process Automation



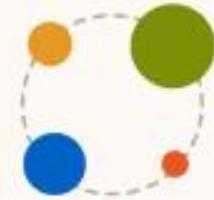
Artificial
Intelligence



Compliance



Social Media
Marketing



Continuous
Integration



Blockchain



Front-end Web
Development



Gesture Recognition
Technology



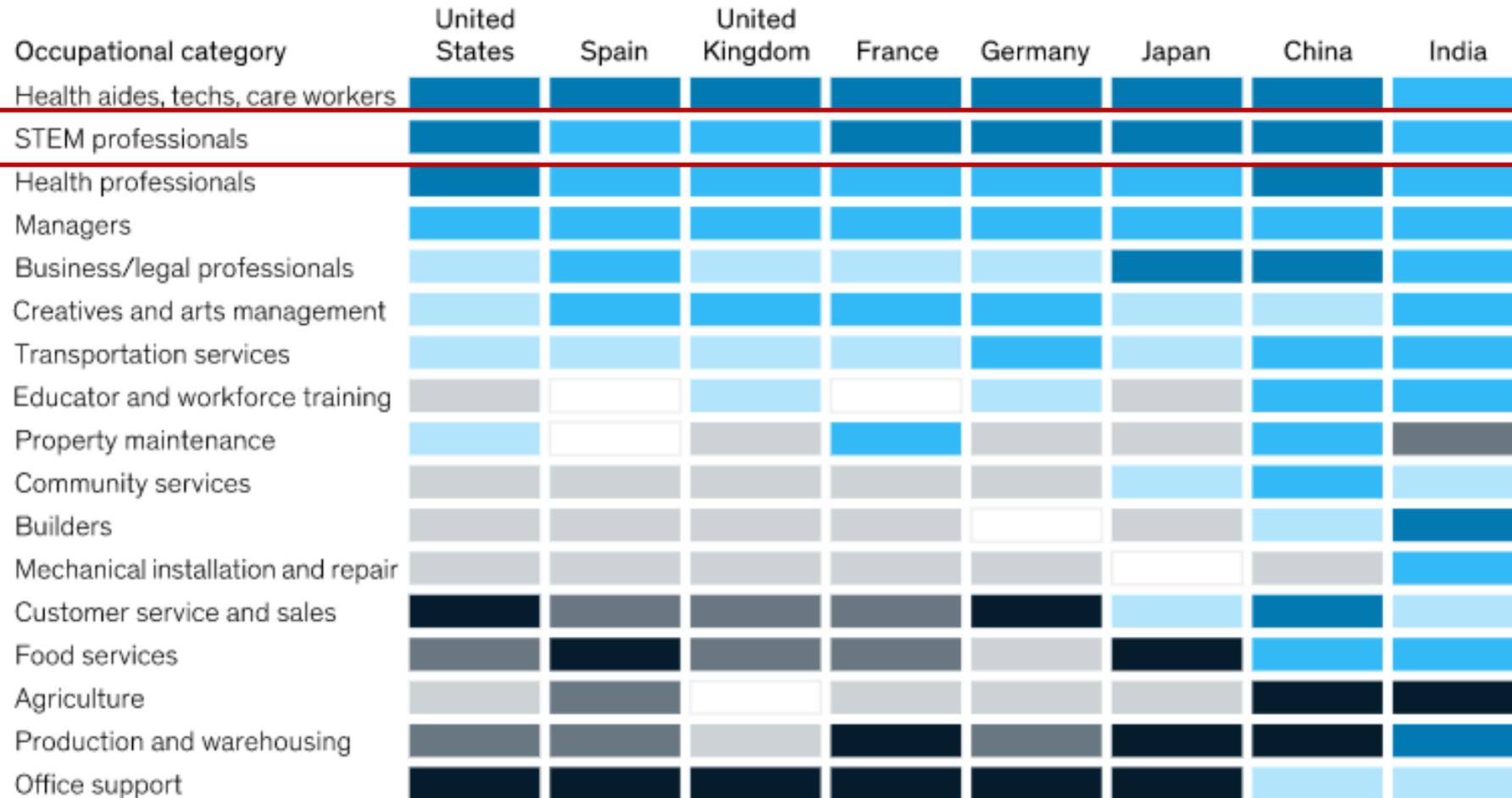
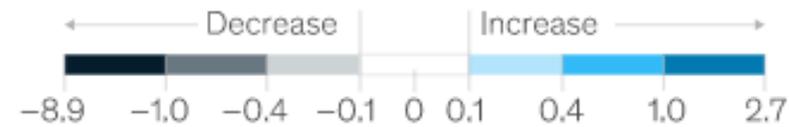
Workflow
Automation



Human-Centered
Design

The mix of occupations may shift by 2030 in the post-COVID-19 scenario.

Estimated change in share of total employment, post-COVID-19 scenario, 2018 to 2030,¹ percentage points



BAGAIMANA STRATEGI ORGANISASI?



We Build Comprehensive Learning Ecosystem

2

Exclusive Learning & Development Program

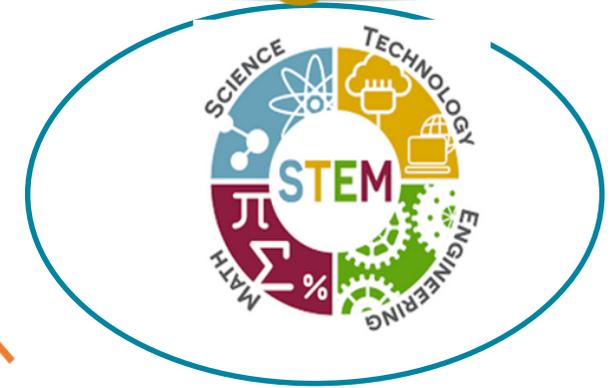


Global & Local Partnering & Business Unit Collaboration



1

Inclusive Learning & Development Program



Strengthen Learning Culture



Engaging SME



Learning Ecosystem



Leveraging Technology



ITSB CAMPUS

Jl. Ganessa Boulevard, LOT A1 CBD
Kota Deltamas, Tol Cikampek km 37,
Cikarang Pusat, Bekasi



KOLABORASI & KERJASAMA

Institut Teknologi Sains Bandung





Accreditation



Program studi	Akreditasi	No SK BAN-PT	Berlaku sampai
Teknik Sipil	Baik	2408/SK/BAN-PT/Akred/S/VIII/2018	27-Aug-23
Teknik Pertambangan	Baik	2456/SK/BAN-PT/Akred/S/VII/2019	16-Jul-24
Teknik Metalurgi	Baik	2309/SK/BAN-PT/Akred/S/VII/2019	9-Jul-24
Desain Interior	Baik	2549/SK/BAN-PT/Akred/S/IX/2018	12-Sep-23
Perancangan Wil Kota	Sangat Baik	1944/SK/BAN-PT/Akred/S/VII/2018	24-Jul-23
Teknik Perminyakan	Baik	2816/SK/BAN-PT/Akred/S/VII/2019	31-Jul-24
Desain Produk	Sangat Baik	1933/SK/BAN-PT/Akred/S/VII/2018	24-Jul-23
Arsitektur	Baik	2100/SK/BAN-PT/Akred/S/VII/2018	1-Aug-23
Teknologi Pengolahan Sawit	Sangat Baik	2508/SK/BAN-PT/Akred/Dipl-III/VII/2019	17-Jul-24
Teknologi Pengolahan Pulp dan Kertas	Baik	2952/SK/BAN-PT/Akred/Dipl-IV/VIII/2017	22-Aug-22
Teknologi Pengelasan dan Fabrikasi	Baik	6163/SK/BAN-PT/Ak-PKP/ST/X/2020	6-Oct-25

PERENCANAAN WILAYAH DAN KOTA

PRESTASI MAHASISWA

1. Mengikuti **International Summercamp School of Architecture, Planning, and Policy Development, ITB - Univ. of Sydney and Ritsumeikan University** dan karya mahasiswa **terpilih untuk dipamerkan** pada acara Exhibition di University of Sydney, Agustus 2019.
2. Mengikuti **Joint studio Univ. of Sydney and ITB**. Poster yang dibuat berhasil **terpilih untuk dipamerkan** pada acara Exhibition di University of Sydney, 14 Mei 2020.



DESAIN PRODUK

PRESTASI MAHASISWA

1. 28th International Invention, Innovation & Technology Exhibition, World Young Inventors Exhibition, Kuala Lumpur, Malaysia, 2017 - **Gold Medal**
2. Toronto International Society of Innovation & Advance Skills (TSIAS), Canada, 2017 - **Special Award, Honour of Invention**
3. Casa Design Challenge 2017 - **Juara kategori Kitchen Ware**
4. The 4th International Young Inventor Award 2017, Jakarta - **Gold Prize Medal**
5. World Invention and Technology Expo (WINTEX), Bandung, 2018 - **Silver Prize Medal**
6. 1st Indonesian International Invention Festival 2018 - **Gold Medal**
7. The 5th International Young Inventors Award (IYIA), Bali, 2018 - **Silver Prize Medal**
8. Smart Innovation Product, Suroboyo Creative Week 2019 - **Best Group I & II**
9. Product Design Student Camp 2019 - **Best Performance**
10. BIXPO 2019 Energy Transition & Digital Transformation, Korea Selatan - **Gold Medal & KEPCO Special Award**

TEKNOLOGI PENGOLAHAN SAWIT

- Sebanyak 7 angkatan alumni TPS ITSB 100% diserap oleh PT. SMART Tbk & ditempatkan di PKS di seluruh daerah Indonesia
- Setelah lulus, langsung menjalani training dari PT SMART Tbk, sehingga waktu tunggu adalah 0 bulan





BEASISWA PENDIDIKAN di ITSB

ITSB, Berau Coal dan Sinas Mas Mining membuka peluang beasiswa bagi putra-putri daerah kab. Berau Kalimantan Timur lulusan SMA/K untuk dapat melanjutkan jenjang pendidikan Strata 1 dan Diploma 3 di ITSB, Cikarang, Jawa Barat.

Jurusan yang bisa dipilih?

Strata 1

- » Perancangan Wilayah Kota
- » Desain Produk

Diploma 3

- » Teknologi Pengolahan Sawit

Pendaftaran

28 Juni 2021 – 27 Juli 2021

Daftar melalui website

www.itsb.com atau melalui

Email: recruitment@sinarmasmining.com

Subject: Beasiswa Pendidikan ITSB _ Jurusan



Seleksi

28 -31 Juli 2021: Online Assessment Tes, TPA / TKD Tes

2-3 Agustus 2021: Pemberitahuan kelulusan via Website and Media Sosial

4-7 Agustus 2021: Panel Interview

20 Agustus 2021: Pemberitahuan kelulusan via Website and Email Prib



www.sinarmasmining.com



[@sinarmas_mining](https://www.instagram.com/sinarmas_mining)



[Sinarmas Mining](https://www.facebook.com/SinarmasMining)

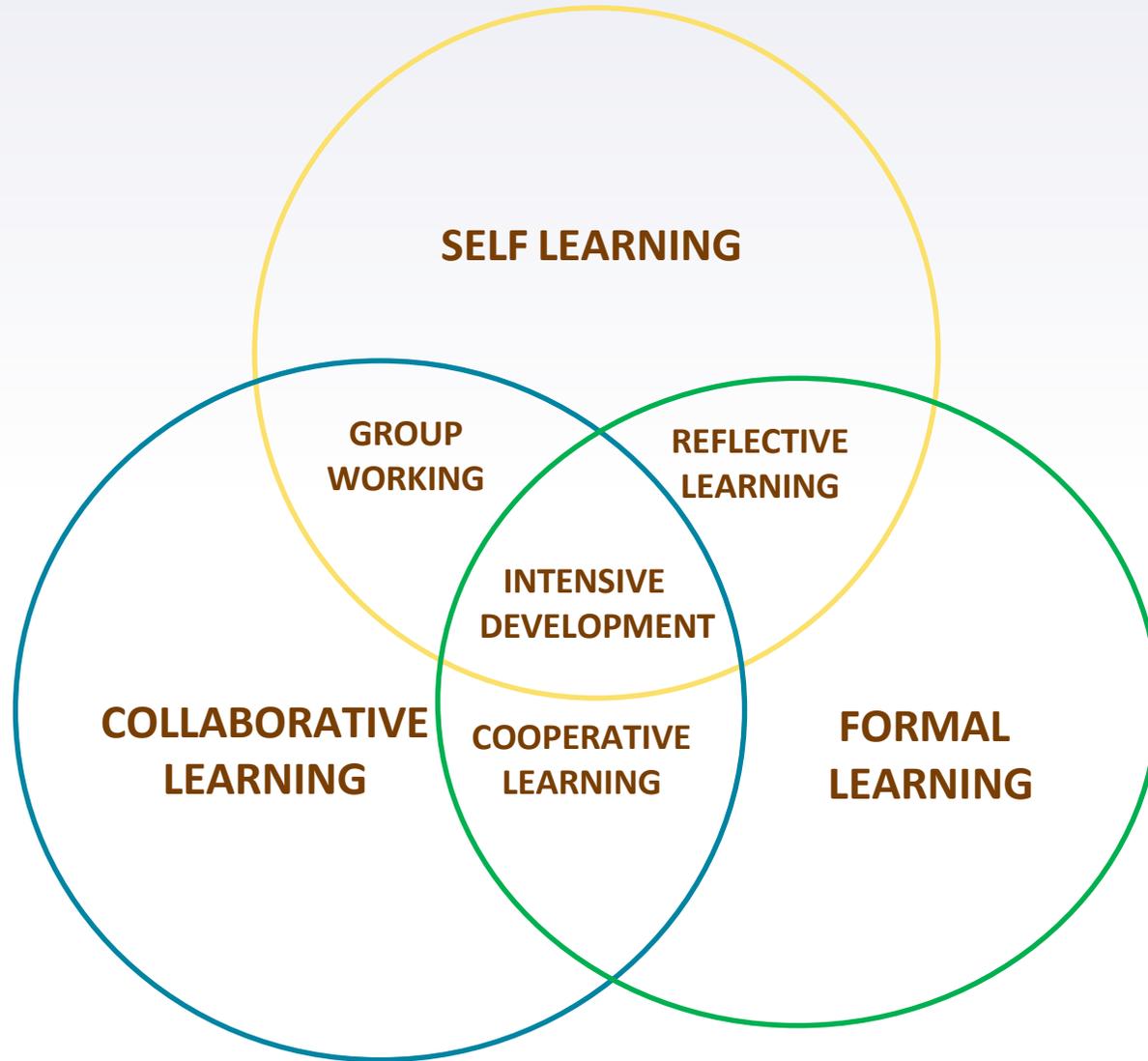


[Sinarmas Mining](https://www.linkedin.com/company/SinarmasMining)

MEMENANGKAN PELUANG KARIR INDUSTRI 4.0 ?



LEARNING



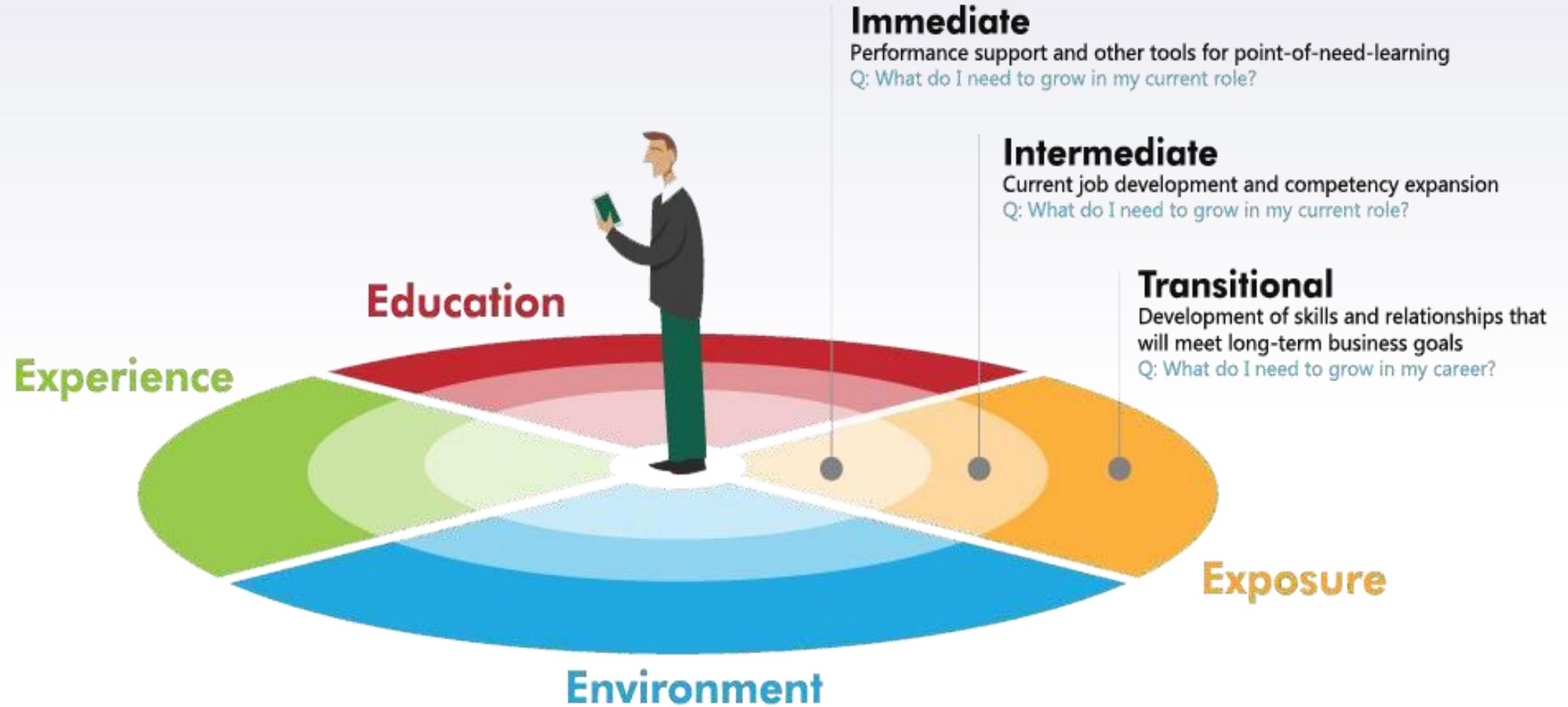
Self Regulated Learning Framework

- 70 Learn while working
- 20 Learn with others
- 10 Learn from expert

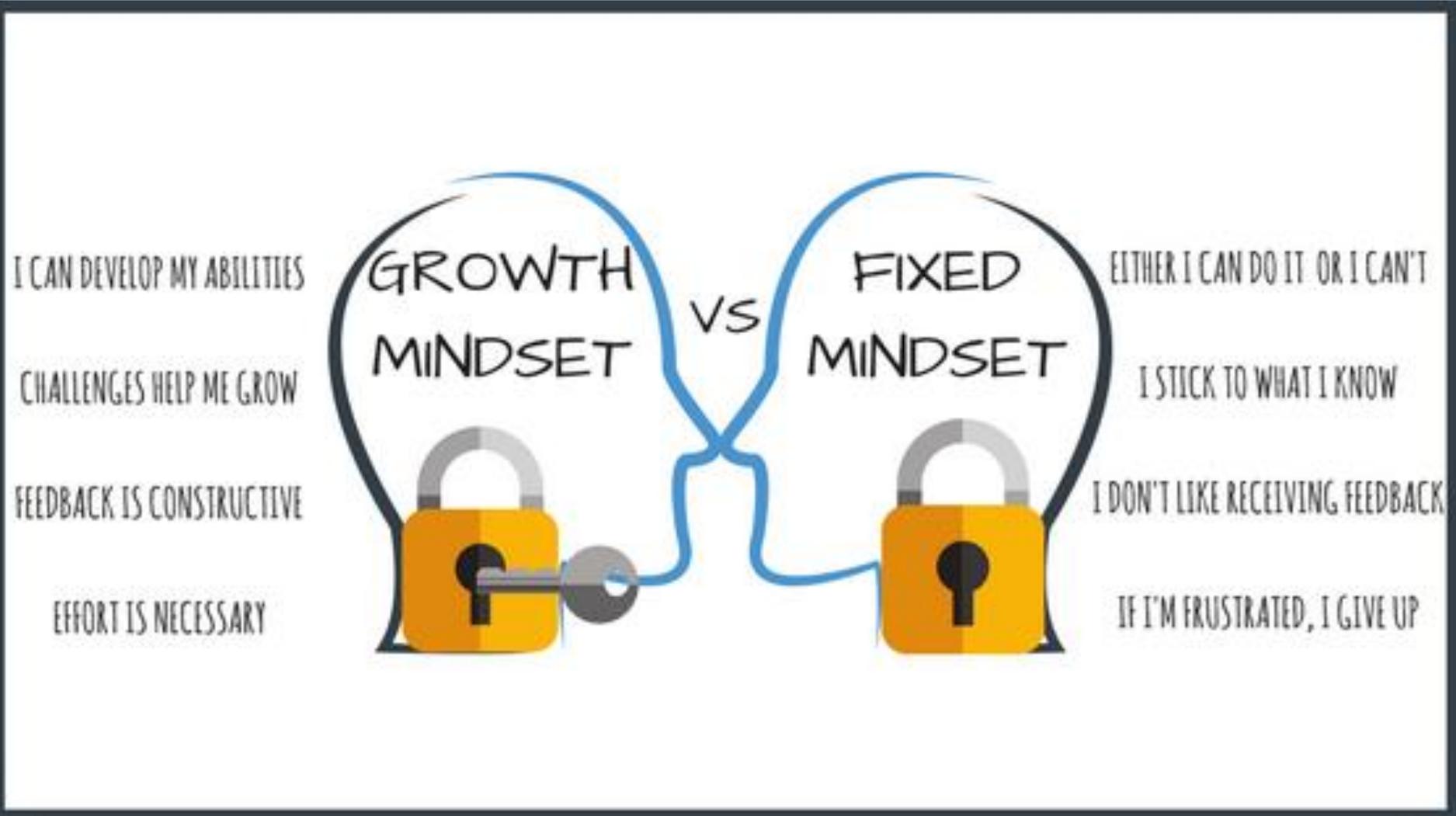


TYPE OF LEARNING

Type of Learning	Characteristic	Learning Program
Formal Learning	<ul style="list-style-type: none"> ● Classical and controlled by a facilitator ● Lecture-based teaching ● Facilitator act as trainer or speaker 	<ul style="list-style-type: none"> ● In-class training ● Short course ● Seminary
Collaborative Learning	<ul style="list-style-type: none"> ● Participants organise their efforts between themselves ● The activity is not monitored by facilitator ● Participant assess their own individual and group performance 	<ul style="list-style-type: none"> ● Professional learning community ● Share and learn
Self Learning	<ul style="list-style-type: none"> ● Learning time and content set by participant ● Multiple media used for this learning 	<ul style="list-style-type: none"> ● Self research ● Read a book, journal, article ● Online learning
Cooperative Learning	<ul style="list-style-type: none"> ● Activities are structured with each participant assigned a specific role ● Participant submit work at the end of lesson ● Facilitator supply information, observe, listen and intervene where necessary 	<ul style="list-style-type: none"> ● Workshop ● Group mentoring
Group Working	<ul style="list-style-type: none"> ● Participants work together to complete specific (new) task ● Learning "<i>on-the-fly</i>" ● Learning objectives are set during progress individually 	<ul style="list-style-type: none"> ● Special project assignment
Reflective Learning	<ul style="list-style-type: none"> ● Learning happens during the conversation ● Participants find their own learning by thinking out loud 	<ul style="list-style-type: none"> ● 1-on-1 Coaching
Intensive Development Program	<ul style="list-style-type: none"> ● Combination of all types of learning ● Conducted in a specific period ● Only given to specific kind of employees 	<ul style="list-style-type: none"> ● Foundation program ● Leadership program

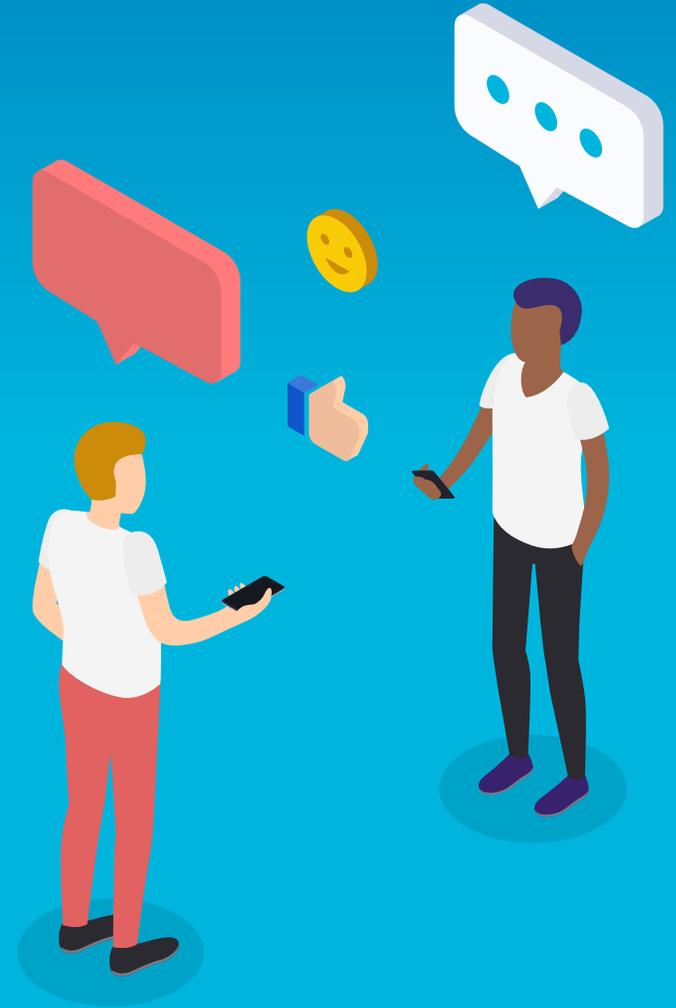


Taken from: David Mallon & Dani Johnson, *The learning architecture: Defining development and enabling continuous learning*, Bersin by Deloitte, 2014, <http://bersinone.bersin.com/resources/research/?docid=17435>





Technology has long been used to improve how we learn, but today's digital advances, particularly with social media, have taken learning in powerful new -- and for some -- entirely unexpected directions.





1/6 For deep learning: Coursera

Coursera is an American online learning platform that offers specialisations and degrees.



2/6 For academic learning: EdX

[EdX](#) hosts online university-level courses in a wide range of disciplines



3/6 For professional growth: LinkedIn Learning

Professional skill upgrades on business and technology basic classes on [impromptu speaking](#), [influencer marketing](#) and [mobile app development](#).



4/6 For creative enhancement: Skillshare

[Skillshare](#) is offering courses to nurture your creativity as well as enrich your business goals.



5/6 For learning from industry leaders: MasterClass

Star instructors take the spotlight at [MasterClass](#), quality videography and sound

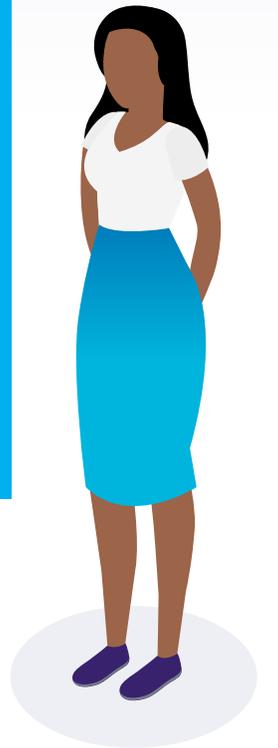


6/6 For recreational learning: Udemy

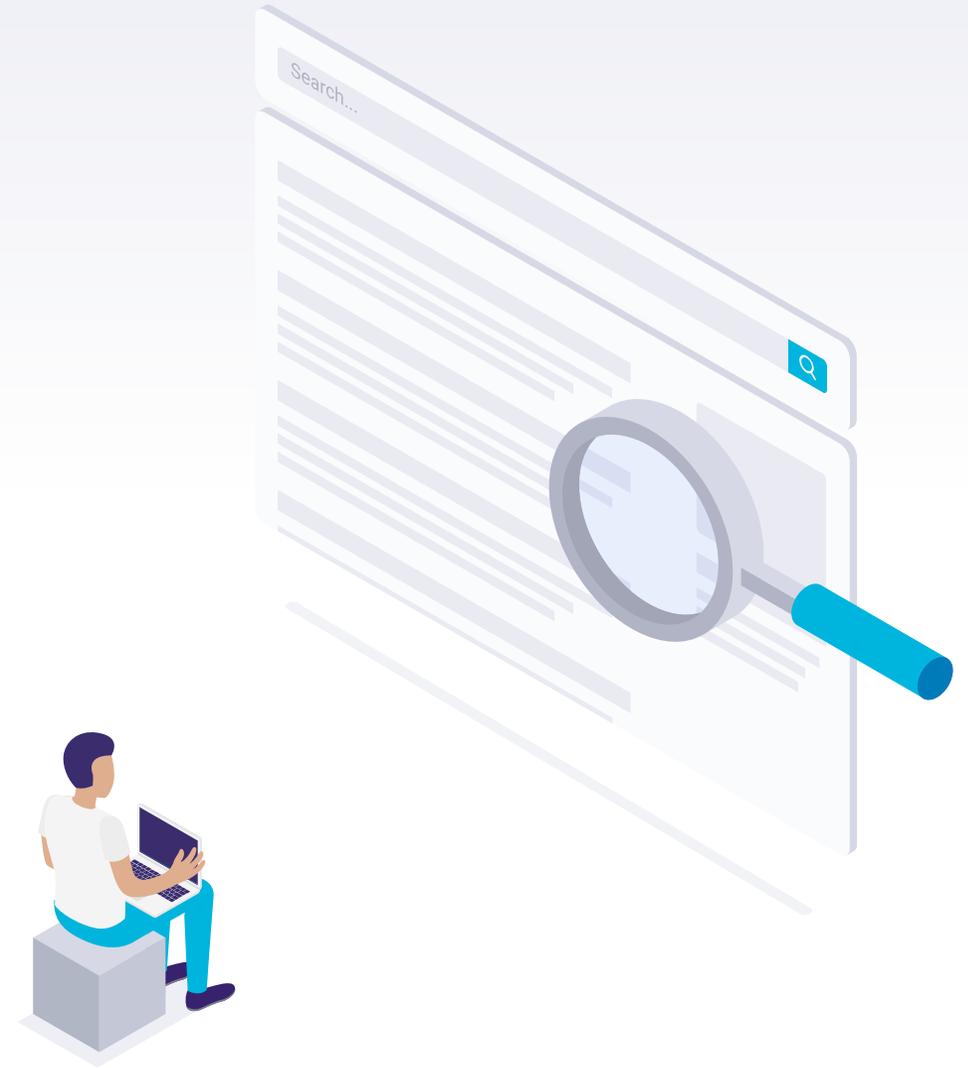
[Udemy](#) offers educational and skill learning, recreational learning such as music and language.

“Setiap orang menjadi guru, setiap rumah menjadi sekolah. Pendidikan tak berhenti di bangunan sekolah saja, tapi juga di rumah, di jalan, dan di mana-mana.”

—Ki Hadjar Dewantara



THANKS!



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The Winning List of SMM x ITSB Online Seminar Quiz:

- 1. `Della Rodiyyatul**
- 2. Caroline Sasongko**
- 3. Ardianto**
- 4. Lukman Suryani**

Quiz sponsored by:



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Terima kasih telah menghadiri seminar *online* SMM dan ITSB

MEMENANGKAN PELUANG KARIR INDUSTRI 4.0 MELALUI JALUR EDUKASI TEKNOLOGI & SAINS

Kami sangat menghargai antusiasme Anda dan berharap bisa bertemu lagi di seminar online SMM berikutnya. Jangan lupa untuk melengkapi survei kepuasan acara di kolom chat Zoom.

Follow Sinar Mas Mining di berbagai media sosial



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Sinar Mas Mining



SMM TechConnect Talk

