

E-FORUM: MANAGING PANDEMIC CHALLENGES AND OPPORTUNITIES OF TVET IN THE ERA OF DIGITALISATION

IN CONJUNCTION WITH THE 32ND SEAMEO VECTECH GOVERNING BOARD MEETING



28 OCT
THURSDAY



9.00AM - 5.00PM
BRUNEI TIME (GMT +8)



VIRTUAL
VIA ZOOM & YOUTUBE



SEAMEO VECTECH

"Preparing TVET for Industry 4.0"



TVET IN THE ERA OF DIGITALISATION

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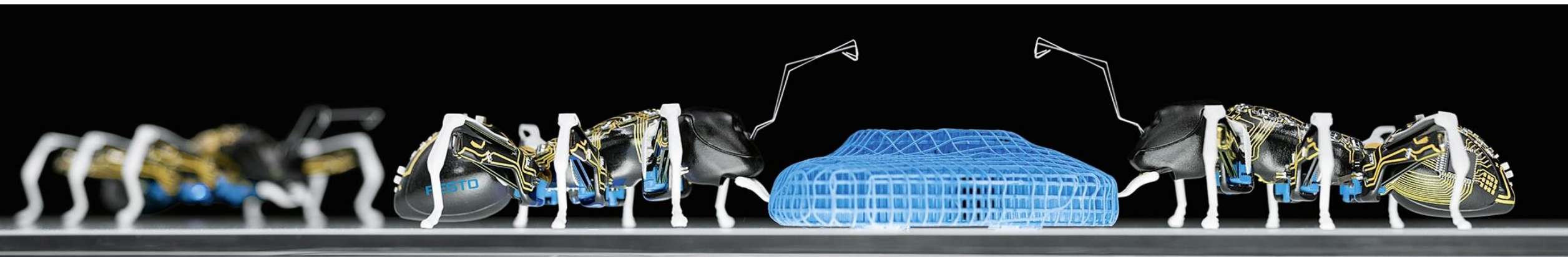
TVET IN THE ERA OF DIGITALISATION

MANAGING PANDEMIC CHALLENGES AND OPPORTUNITIES

FESTO

Guiding Questions

- *What can private sectors do to ensure a resilient TVET system that continues to produce a skilled workforce for the post-pandemic labor market?*
- *How can industry players contribute tools and resources to ease pandemic changes and transitions in TVET?*
- *What are some trends in digital TVET that are suitable to implement in Southeast Asia?*
- *Considering the disparity of technology infrastructures in the region, how far can the acceleration of digitalization ensure expansive access to TVET while reducing the digital divide?*



Guiding Question

What can private sectors do to ensure a resilient TVET system that continues to produce a skilled workforce for the post-pandemic labor market?

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Companies need to invest more into TVET, respectively in internships

Companies need to develop professional mentors who can guide and coach trainees, in particular on the shop-floor level

Companies need to consider to join a professional dualistic apprenticeship model, or initiate accordingly, in particular local companies

Companies may need to consider to hire apprentices during their education period

Companies need to define their current and future skill requirements more precise, allowing institutes, respectively curricula to adopt

Companies need to provide an improved career path, in order to attract more potentials from the VET level

Companies need to improve their internal workforce development, also closing skills and knowledge gaps

Companies need to define their digital journey, in order to be future-ready for new developments

Guiding Question

How can industry players contribute tools and resources to ease pandemic changes and transitions in TVET?

Industries may provide digital models or digital twins in order to be used for training purposes

Industries may offer webinars and online classes to the TVET level

Industries may share some of their internal knowledge base or digital contents with institutions

Industries can support a global environment of trust among assessment, accreditation and certification

Industries will support online platforms that create a new environment and networking among partners

Industries may offer meeting rooms with computers to students not having any digital device

Industries may offer exhibition models to institutions for teaching purposes as long as not needed elsewhere

Industries to consider to partner with institutions for research and development, or at least for testing reasons, e.g. Steinbeis Transfer Centers in Germany

Guiding Question

What are some trends in digital TVET that are suitable to implement in Southeast Asia?

Implementation of so-called Learning Experience Platforms, instead of simple e-learning contents

Digital Certification and Micro-Certification can easily be implemented

Institutions need to join hands with Digital Certification platforms, in order to adopt local and global skill requirements

Companies will also join Digital Certification platforms, in order to perform remote assessment and hiring

Subscription models in education will replace a lot of capex investments in the near future

Using software to mimic hardware such as digital twin, simulations, etc... to compensate for the actual hands-on part

Using digital TVET to push for life-long learning culture

Shorter courses and more topic focused offerings, maybe even just learning nuggets, paired with digital contents instead of days-long trainings

Guiding Question

Considering the disparity of technology infrastructures in the region, how far can the acceleration of digitalization ensure expansive access to TVET while reducing the digital divide?

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Multiple access options to the virtual learning with intuitive software eg. virtual mechatronics

Offline virtual learning without internet access – individual learning with own computer or other devices at own place and pace

Online virtual learning with direct access to software and connection to the physical system remotely

Dedicated mobile resources bundled with digital technologies, eg. AR/VR, for immersive learning without the need of hardware and connection to the internet

Using mobile learning apps on learners mobile devices; no need for computers

Providing unlimited data usage for teachers and learners, or at least offering a low-rate bundle

Potentially providing tablets or other digital media to students during their education

Roaming hardware or digital classroom solutions for remote locations

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Product and Service Range

Pneumatics / Hydraulics



Electronics/PLC



Mobile Robotics



Electrical / Electronics



Renewable Energies



Telecommunications and Radar



Industrial Maintenance



Festo Learning Experience Platform

<https://lx.festo.com/>



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Mechatronics



Industry 4.0 Basic and Advance



Industry 4.0 Expert Level



Digital Learning Tools

Make learning modern, fast and effective – anywhere, anytime

Virtual Reality / Simulation / Augmented Reality



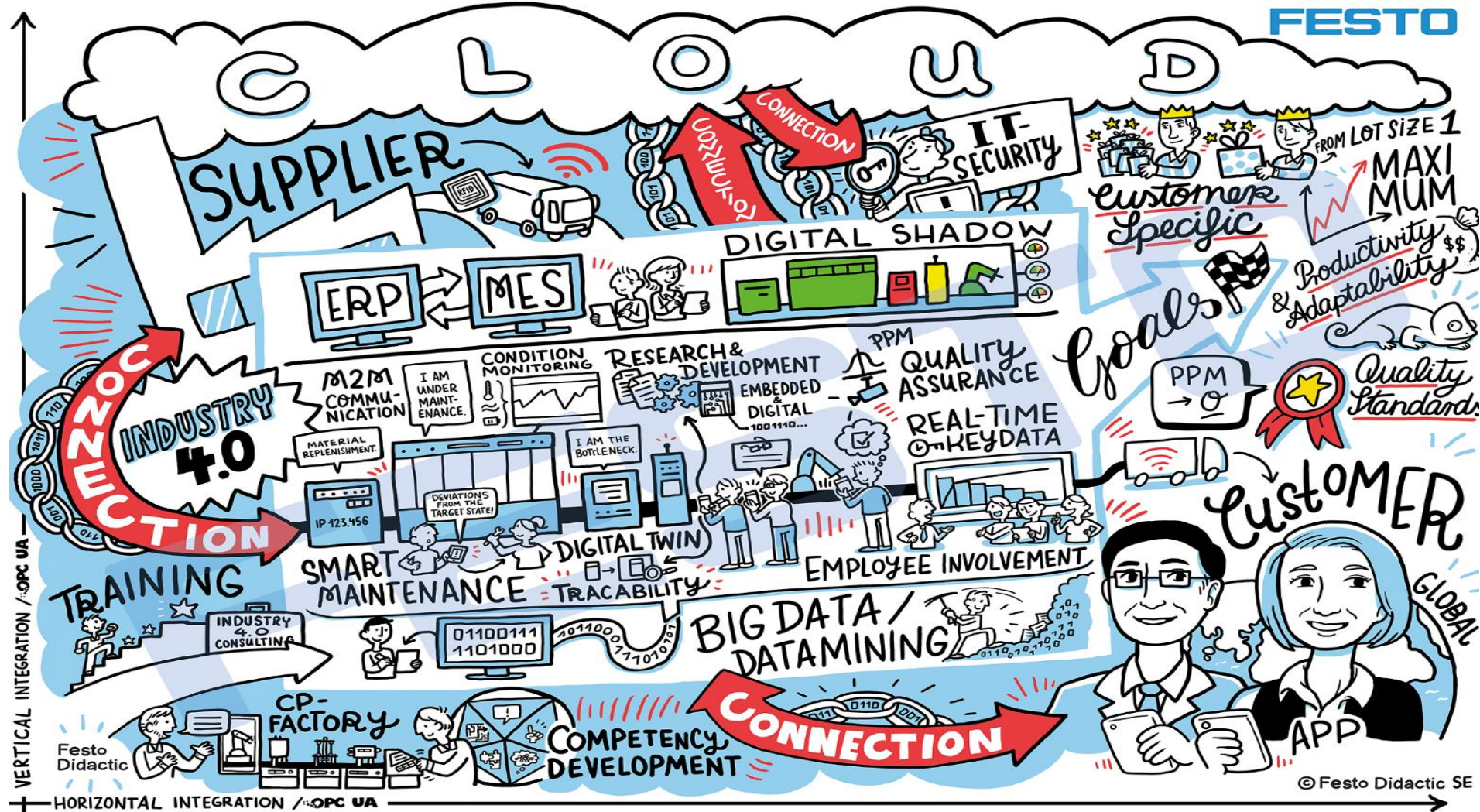
Connected Learning



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Our Goal and Expertise in TVET: Managing the Complexity of Industry 4.0 and New Technologies

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Thank you...



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