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Headline: SMU seeks to prepare students for green jobs of the future

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In this third part of the Straits

Times-Singapore Management University four-part series on building a sustainable and resilient future for Singaporeans, journalist Ng Wei Kai talks to Singapore Management University provost Timothy Clark on what universities can and must do to arm students with the skills to work in sustainability

THE STRAITS TIMES **EDUCATION FORUM 2023**



ST Education Forum

WHAT

The Straits Times Education Forum 2023, in partnership with Singapore Management University

TOPIC

Higher education's role in building a sustainable and resilient future

Saturday, March 11, 10am-12pm

WHERE

Yong Pung How School of Law. Management University

TO REGISTER

The event is free and registration March 8 at 6pm or when all places are taker

It is working closely with sector towards this aim and ramping up sustainability training

All incoming undergraduates at Singapore Management University (SMU) from 2023 will get a foundational understanding of sustaina-

bility issues.

This move will be expanded in 2024 to require all incoming undergraduates to attain an intermediate mastery of sustainability before graduation by completing at least one course in the field.

This is part of an effort to prepare students for jobs that do not yet ex-ist but could enter the growing field. This effort has become the business of higher education insti-tutions everywhere, said provost Timothy Clark in an interview with

The Straits Times in February. What these future jobs will look like or require is unclear, but SMU is not leaving the development of necessary skills to chance, said Professor Clark, outlining how universities can build a talent pipeline

versities can build a talent pipeline for the emerging "green economy". "There isn't necessarily a clear career path or job opportunities in all aspects of the green economy, which can make it quite difficult to prepare students for particular in-dustries or particular occupations," said Prof Clark

"These jobs are still developing -the role of chief sustainability officer is a very recent introduction in many companies... the career paths and job opportunities are themselves emergent." To train students for these roles,

a close relationship with the indus-try is crucial, he said. "We are a very engaged universi-

ty. Our city location enables us to be a very porous, open community with industry.

"What we're doing essentially is building relationships with key or-ganisations and industries to learn how these skill sets are emerging and then translating them into our

HOW DOES SMU FIGURE OUT WHAT SKILLS THE FUTURE WILL NEED?

The green economy is set to grow very significantly over the coming years, both in Singapore and the rest of the world, said Prof Clark. And so there will be many new

job opportunities for students as well as new skills that they need to develop in order to be able to take advantage of them, he added.

The numbers bear this out. A re-port released by SkillsFuture Sin-gapore in 2022 found that demand for workers with skills in the digital, green and caregiving spheres has surged over the past four years. Skills related to sustainability came in hot. Demand for skills in

green facilities management grew 23 times, while demand for sustainable investment management

increased by 15.5 times.

Another 2022 report by consultancy Bain & Company and investment firm Temasek found that green investment has picked up re-gionally, with South-east Asia getting US\$15 billion (S\$20 billion) in cumulative investments since 2020, with the majority going to re-

newables and the built environ-

ment. The report also found that entrepreneurial efforts are focusing on building and scaling sustainable solutions, especially in the energy and agri-food sectors.

But identifying the specific skills students will need to take advan-tage of this growth is the challenge facing educational institutions, es pecially given the rapid pace of de-velopment in the area, which can quickly render skills and knowl-

edge obsolete. Businesses can tell the university what skills they require graduates

Said Prof Clark: "We talk to them frequently to understand how they're developing, what their sense of critical skills is.

"And we work with them in terms of internships so that our students

can build understanding early on."
This understanding also feeds back into the university, where lecturers use it to design their courses appropriately and make sure that they are keeping abreast of chang-es that dictate the skills required in different industries.

Prof Clark said: "If you look at so mething like the Singapore Green Finance Centre, for example, that's about working with a range of fi-nancial institutions to understand the issues they're facing and devel-op programmes accordingly.

'And so it's through these rela tionships that we can translate in-dustry needs into our courses, and we have a whole range of relation-

ships that enable us to do that."
The Singapore Green Finance
Centre opened in 2020 as a collaboration between Imperial College Business School and SMU's Lee Kong Chian School of Business in climate science, financial econom-

ics and sustainable investing.
The centre is supported by the
Monetary Authority of Singapore and nine founding partners: Bank of China, BNP Paribas, Fullerton Fund Management, Goldman Sachs, HSBC, Schroders, Standard Chartered Bank, Sumitomo Mitsui Banking Corporation, and UBS

HOW ARE THOSE SKILLS DELIVERED TO STUDENTS?

After figuring out what skills the green economy will need, the next step is to get them to students. "Our key motivation in relation

to our education is to produce fu-ture-ready students who will be work ready," said Prof Clark. To do this, SMU in 2019 launched

Singapore's first sustainability un-dergraduate major. Offered as a second major, it aims

to develop graduates who have knowledge and skills to implement sustainable practices in business, said Prof Clark.

"Another critical initiative is hav-ing a university-wide sustainability education framework for all undergraduate students," he said. "Our aim is that from 2023, all of



sustainability issues. This move will be expanded next year to require all incoming undergraduates to attain an interm mastery of sustainability before graduation by completing at least one course in the field. ST PHOTO: KUA CHEE SIONG

About Timothy Clark

A management expert by training, Professor Timothy Clark became provost of Singapore Man-agement University in 2019. Before that, he was pro-vice-

chancellor (social sciences and health) at Durham University in Britain, where he was also executive lead for computer and information services, and estates and buildings.

He joined Durham as profes-

sor of organisational behaviour in 2002, and became chair of the board of studies (head of department) at Durham University Business School in 2007.

He was later appointed dean of graduate school and interna-tionalisation at Durham University and dean and deputy to pro-vice-chancellor (education) (2012-2015).

Before joining Durham, he served as a research fellow in in-ternational management at the Open University and a reader in management at King's College London. Prof Clark's research focuses



Professor Timothy Clark of Singapore

on understanding the role and nature of management consult-ants and management gurus in the diffusion of management knowledge.

In recent years, he has con-ducted a series of research projects into different aspects of the nanagement consultancy industry, including the factors un-derpinning the selection and purchase of consultancy, the management of the client-con-sultant relationship, the role of consultants and management gurus in the diffusion of management ideas.

Prof Clark did his undergrad-

uate degree in sociology at the University of Leicester and later attended De Montfort Universi ty, where he received his PhD.

something that all universities in Singapore are putting considerable emphasis on. "It's something we are develop-

ing. We have our academy and we offer courses to our students in the academy. But what we want essentially is to inculcate into our stu dents, while they're studying with us, the importance of continuing to learn." The university offers its full-time

students free taster courses with the academy and keeps in contact with its alumni to understand what courses they may need as they ad-vance in their careers. The academy, which offers sev-

eral thousand courses of varying lengths, is an agile organisation that is able to "move at speed", said Prof Clark.

"We have a range of postgraduate professional programmes that we offer our students and we have green skills built into those programmes - for example, sustaina-ble finance."

In other words, the academy aims to deliver courses to upskill Singaporeans through lifelong learning.

TACKLING SUSTAINABILITY WILL TAKE MORE THAN HARD SCIENCE

While SMU does not focus on the hard science behind sustainabilit its expertise in areas such as fi-nance is just as necessary to tackle complex issues like climate change

Said Prof Clark: "If you take so-mething like recycling – and Singa-pore is rolling out a very significant recycling programme right now – a lot of this requires people to change their behaviour. And this requires us to understand how people make decisions."

There are financial aspects to sustainability, as well as how com-panies build their visions, missions and strategies, make decisions, motivate their staff, compete and understand the competition in their marketplaces, he said. All of these skills are developed at a university like SMU, he added.

"So it's one thing to have the technology. It's another thing to then know how to market that technology, how to build a market

for that technology, how to build relationships and how to collabo-"So you can have the best tech-

nology. But I would argue that it's these skill sets and knowledge ar-eas that will actually determine your success.'

tional mastery of sustainability is-

All students will be equipped with an understanding of how to respond to sustainability challenges, he said, elaborating on plans to beef up the university's sustaina-bility curriculum across the board. That entails taking a freshman

module in the field.
Prof Clark added that from 2024, first-year undergraduates will be given what SMU calls an interme-diate mastery of sustainability. "We will have a system where there is a sustainability graduation

requirement and all students will have to meet the requirement. One way to do so is to read at least one course on sustainability as part of their studies."

SMU is also trying out a variety of strategies which vary from the traditional four-year degree in one or two subjects, including bespoke degrees and work-study pro-

To help students come out of uni-versity with the most up-to-date skills, SMU in 2022 set up a College of Integrative Studies, where stu-dents design their own degrees. Prof Clark said: "Fundamentally,

its purpose is to offer a very flexible approach to a major. One of the key motivating factors behind de-

lege was jobs that aren't necessarily there, that are emerging as they en-ter their studies. "(The flexibility) enables them to

veloping and launching that col-

align their skill sets to emergent ar-eas... Essentially, they curate their own courses to develop a bespoke SMU also focuses on giving stu-dents on-the-job training, he said It is compulsory for every student

to complete an internship before But on top of that, SMU also offers work-study courses, prorammes and degrees. Prof Clark said: "If they're doing

a work-study course, for example students are spending four days a week in a company, one day a week on campus... We're providing many different opportunities for stu dents to have a real-world job ex-

MOVING AT SPEED AND GETTING TO ADULT LEARNERS

Complementing SMU's undergraduate efforts is its professional and adult education arm SMU Acade-my, which the university hopes to introduce to its students while they are still studying full-time. Prof Clark said: "How to create li-



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