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NUS undergrads (from left) Jirapat Jirasevijinda, 20, Lin Jiayong, 22, and Davidson Chua, 23, were born around or after the millennium, when Singapore doubled down on

# S'pore is world's 12th top tech city, has room to grow

#### With tech-savvy generation entering the job market, there is every reason for optimism

Senior Business Correspondent

They are all aged just over 20, studying computing, and hoping to land a meaty career in a technol-

ogy firm – a multinational, preferably – when they graduate. University students Lin Jiayong, Davidson Chua and Jirapat Jirasevijinda belong to the generation born around or after the millennium, when Singapore doubled down on quantum physics, data science, blockchain and plenty of cool tech-nology as it pushed towards its vision to become a wired, high-tech

and intelligent city.

Now, 42 years after it launched its first national computerisation plan in 1980, Singapore – placed 64th among cities for its popula-tion size – has come up as the world's 12th top tech city.

The standing, compiled from 14 metrics – including tech talent, real estate and business environment puts the country behind three Chinese cities, six Indian ones, Hong Kong and Melbourne, but ahead of Sydney and Tokyo.

The inaugural Tech Cities 2022 report was compiled by real estate services Cushman & Wakefield (C&W) using data taken mostly from January to March 2022.

C&W managing director for India and South-east Asia Anshul

Jain said the ranking reflects the

country's draw as a tech hub: Eighty of the world's top 100 tech companies operate in Singapore and more than half have headquar-

ters here, he said. When the computerisation plan was launched, "we had fewer than 1,000 comput-

er professionals", he added.
"Today, we have over 100,000."
There are now more than 4,000

start-ups here, translating into one

young hustling venture for about every 1,000 Singaporeans.

opportunity, with a "once-in-a-lifetime chance" to become a glob-al powerhouse in two sectors, said Mr Wong Wai Meng, chairman of

SGTech, the Singapore trade voice for more than 1,000 tech compa-

He added: "We believe sustaina-

bility and digital trust are two key emerging areas for Singapore to be

the front runner and create value

last Thursday projecting that the industry could become a \$4.8 bil-

lion market supporting almost 45,000 jobs in Singapore by 2027. "The White Paper will include

existing areas like cyber security and data protection, and there will

be a whole new ecosystem that

needs to be formed from profes-

sional and consulting services, standards and audit services, to le-gal and arbitration services," Mr

SGTech released a White Paper

Singapore is at a crossroads of

Wong said. Digital and green technologies will be the other frontier, alongside Singapore's Green Plan to become a hub in carbon services, green finance and energy.

The information and communications sector was the seventh-largest contributor to Singapore's economy in 2021, at 5.6 per cent.

That was only 63 per cent of what could be its full potential, with US\$17 billion (S\$24 billion) worth of domestic digital output and the same amount in digital trade activities, said the Digital Prosperity for Asia coalition, a grouping of local digital compa-

Mr Benson Koh, the coalition's secretariat, said: "The Asia-Pacific digital economy pie can grow a lot

ngger." Mr Jefrey Joe of Alpha JWC Ventures, one of more than 100 tech investment firms recognised by the Economic Development Board, said that while Singapore has a smaller market compared with neighbouring cities, it has strengths that complement its

Mr Koh said a study it undertook shows that, combined, the 11 largest Asia-Pacific economies captured only 30 per cent of their digital economy potential in 2021 – a US\$2 trillion potential, to be exact, the

study reported.

Mr Joe, the co-founder of the Jakarta-based venture capital firm, said: "Indonesia, with the largest number of digital consumers in South-east Asia, has massive talent "Singapore, with its business-friendly environment and future-ready digital infrastructure, serves as the hub that catalyses the for mation of innovative start-ups and supports their growth.

Netizens have lampooned Singa pore's efforts as giving the house away, with tax breaks and incentives to woo foreign firms. Singapore still has no home-grown star like Taiwan's Taiwan Semiconduc-tor Manufacturing Company or South Korea's Samsung Electron-

ics, they say.

Professor Boh Wai Fong of Nanyang Technological University said Singapore has taken a "sub-av-erage game" approach.

"It's trying to make everybody better off, rather than what some countries are doing – being very protectionist so that they can grow some of their home-grown compa-nies. Singapore can't afford to do that because we are just too small." Instead, the Government tries to

develop an "innovation ecosys-tem", where it helps to grow start-ups with support and funding, she

Mr Huang Yaoquan, the chief ex-ecutive of building and warehouse solutions firm Qbasis, said the lure of big pay cheques at foreign tech firms puts tech talents out of reach of some local enterprises, but he rejects suggestions that they eat the local boys' lunches. Today, one could come up with a

blockchain algorithm and find partners anywhere in the world with a laptop, he said.
"We also frequently work with

talent overseas. There are talents

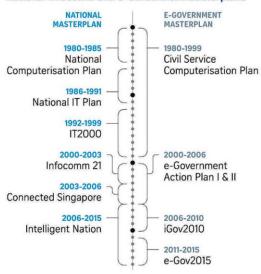
#### The masterplans of Singapore's tech development from 1980 to 2015

Singapore's rise as a tech city began with the National Computerisation Plan in 1980. Forty-two years later, Singapore is ranked the world's 12th top tech city.

#### World's ton tech cities

1	Beijing	5	Hong Kong	9	Pune
2	Bengaluru	6	Hyderabad	10	Shanghai
3	Chennai	7	Melbourne	11	Shenzhen
4	Delhi	8	Mumbai	12	Singapore

#### National infocomm and e-Government masterplans



Sources: CUSHMAN & WAKEFIELD, CENTRE FOR LIVEABLE CITIES STRAITS TIMES GRAPHICS

overseas that could be had for a better price, or a higher price than what we have here. How you want to use these resources is up to you as an entrepreneur.

"Because Singapore is being

pushed as a global hub, we also got interesting opportunities," added Mr Huang, pointing to a memorandum of understanding between his company and an aerospace multi-national after being shortlisted in the Open Innovation Challenge

initiative led by the Government. Mr Sam Liew, president of Singa-pore Computer Society, named three challenges Singapore has to overcome: Keeping up with chang-ing technology; procrastination over change; and spotting not just the next emerging skill but when to

adopt it. He noted: "In some cases, we want to be leading the way in the tech frontier, but in many situa-tions, it might be much better that we take on the role as 'fast follow-

In the next five to 10 years, "I be-lieve that the biggest risk to Singa-pore in staying at the top is the shortage of local talent", Mr Liew added.

"Adopting a DIY (do-it-yourself) approach with just local talent will help Singapore innovate and

scale fast enough. "However, we need to be

thoughtful in selecting foreign tech talent. Skills, domain and markets are key considerations. There is a need to ensure that their skills and experience, over time, benefit and grow the knowledge base in Singapore."

base in Singapore.

For the students, who are somewhat lured by rosy prospects to study computing, the future is both hopeful and daunting.

Mr Jirasevijinda, who left Thailand to study in Singapore because of its IT and finance bub status.

of its IT and finance hub status. said: "I realised that my motiva-tions are driven partially by the global trend of digitalisation and the growing number of high-pay-ing jobs.
"The competition does scare me,

so I would say one of my fears is not being able to catch up with others in the fast-paced environment. I'm also worried about the state of the economy and its impact on the tech industry," he said. Mr Lin said: "I do not fear there

being no job for me, but I fear not being a right fit for the job, or real-ity not matching my expectations. "All I can do now is equip myself

with skills like programming, com-munications and stakeholder management, alongside applying for internships at various tech compa-

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## Amid fierce competition for tech talent, does Singapore have what it takes to compete globally?



Mr Wong Wai Meng, chair of SGTech, says competition for tech talent keeps the entire tech industry awake at night, PHOTO: LIANHE ZAOBAO

Singapore has come up as the world's 12th top tech city in a report by real estate services Cushman &

The inaugural Tech Cities 2022 report, topped by Beijing, was compiled from 14 metrics such as tech talent, real estate and business environment. The Straits Times speaks to four people on Singapore's progress and competi-



Mr Huang Yanguan CFO of Obasis School of Computing than business school, ST PHOTO: JASON QUAH

MR WONG WAI MENG.

Where do I see Singapore's tech industry in five years? It is increas-

ingly difficult to predict.
Almost every major economy is rolling out incentives and foreign visa programmes to attract the most promising tech companies and individuals. Our regional neighbours are also having aggres-

sive growth. There are two possible out-



Mr Davidson Chua is glad that firms setting up HQ here give students like him confidence that there are opportunities, ST PHOTO: JASON QUAH

comes: First, the tech sector thrives and grows. This can only be achieved if we continue to be progressive in our policies and programmes, coupled with strong

grammes, coupled with strong public-private partnerships. The second is where the sector shrinks and hollows out. This would be the result of being re-strictive with over-regulation and limitations on the private sector, leading to global companies diver-ting investments to other loca-



more cost-effective space outside the CBD. PHOTO: CUSHMANWAKEFIELD.COM

Three things we need to do: Double down on what has worked for Singapore and take our trustedhub reputation to the digital space rally the tech sector around sustainability; and ensure we have ad-equate talent and embrace a hybrid working model so we can leverage talent across the globe.

Competition for tech talent is

fierce and a global phenomenon. It keeps the entire tech industry awake at night.

### MR HUANG YAOQUAN. CEO OF QBASIS, GRADUATED FROM COMPUTING SCHOOL IN 2009

During my student years, computing was a dumping ground. Those that could not go to business or engineering came here. I was inter-ested in technology but I was studying just for grades. My lecturer changed me. She got me to see education as gaining knowledge. With knowledge, you can do any-

My father was a hawker - char kway teow, actually quite a famous one, in Hill Street. He had ALS (amyotrophic lateral sclerosis). It is a motor neuron disease; you lose vour muscle control. Because I know programming, I had this eyetracking device. I programmed an interface for him to communicate, controlling the mouse with his eyes. I feel lucky that I could do it. You know what it is happening to NUS School of Computing? It's

tougher to get in than business

#### MR DAVIDSON CHUA. BUSINESS ANALYTICS STUDENT

I am worried about the employment rate when I graduate in four years, especially with the low bar-rier to entry to learn data science and analytics. Many of my friends jumped from a different field of study to work in tech after graduation, as tech roles offer more flexibility and attractive compensa-

Companies setting up their headquarters here give students like myself confidence that there are opportunities. But it also means competition not only means competition not only among locals, but people from oth-er regions. This affects us. We might not have focused on tech from a young age, and national service widens our age differential.

But I remain confident. We ge resources and opportunities and programmes that teach us techni-

#### MR ANSHUL JAIN, MANAGING DIRECTOR **CUSHMAN & WAKEFIELD**

Tech companies were among the first to focus on "amenity" to retain and attract talent. As the profiles of their employees are different, not only in demographics but work culture, this gave rise to more food and beverage and lifestyle options

in the urban landscape.

Tech companies have also grown their footprint in the Central Business District (CBD). One major transaction this year was Amazon's 369,000 sq ft lease at the upcom-ing IOI Central Boulevard Towers. As vacancies in the CBD remain

tight, this creates a win-win situa-tion as they move to precincts such as HarbourFront and one-north. where there is more space, and the space is more cost-effective. This aligns with the Government's intent to decentralise commercial activities away from the CBD.

Krist Boo