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Singapore unicorn helps clients access IP data with snap of finger

Jeffrey Tiong's PatSnap draws global giants like NASA, Disney, Tesla with intellectual property platform

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tinker with things around the house. Once, much to the chagrin of his parents, he took apart his newly gifted vestors that believed in PatSnap. He desktop PC, the IBM 486 - only to often recounts how he had to make a build it up again.

want to be an astronaut, or a scientist. with potential clients. Once, the team So Mr Tiong never thought about be-resorted to switching the heater off to coming an entrepreneur then, much cut their electricity bills. less the chief executive of one of Singapore's rising tech companies.

But watch his space. For NASA (US National Aeronautics and Space Ad-

It could be the spirit of building things that spurred him to start his joined the unicorn club, after raising a own company straight out of univer- US\$300 million Series E funding sity. In 2007, he founded PatSnap, a round led by big-name investors such data analytics company for intellec- as Softbank Vision Fund 2 and Tentual property (IP) that aims to be the cent Investment. Several SPACs (spe-"Google Map of patents".

Mr Tiong had the idea for PatSnap while he was on a year-long NUS Over- to take it public. seas Colleges internship in the US. He told The Business Times in a video interview that he found IP could be com- will materialise in a few years, he said moditised, just like "buying or selling" that PatSnap still has "a long way to a car or a house".

Companies can buy patents to build on existing inventions, or file patents so that competitors have to peak. It is constantly an uphill battle. pay if they use the same technology. A smartphone alone might be open to fires to put out daily. Just have to find a guarter of a million patent claims.

But patent filings, wrought with technical jargon and legalese, are difficult to understand. There also wasn't the course of PatSnap's journey. immediate visibility on all the different patents filed across the world. "I could have done differently or that I thought, this data-if collated and simplified – could help people innovate feel like I had to bang my head on the better.

After returning home and completing his bachelors in bioengineering at the National University of Singapore. he founded PatSnap with incubation AS A child, Jeffrey Tiong used to support from NUS Enterprise and a S\$55,000 government grant.

Back then, it was difficult to find indecision to relocate the company to This sense of curiosity led him to
China to save costs and touch base

PatSnap went on to buy patent information from governments across the globe. It then built artificial intelligence and machine learning systems ministration) and a dozen other re- to analyse the hard-to-understand search institutions now come to him text. The last step: make it searchable and digestible.

> Fourteen years on, the startup has cial purpose acquisition companies) have approached the startup, wanting

While an initial public offering is a key milestone that Mr Tiong hopes

"If we are honest with ourselves. we'll admit to never quite reaching a he told BT. "No choice lah. There are a way.'

This last sentiment propelled Mr Tiong to shake off every setback in

"There are many things I wish I didn't make a mistake that made me

PatSnap at a glance

- Founding team: CEO Jeffrey Tiong, senior vice-president of Asia-Pacific Guan Dian, chief technology officer Markus Haense, and vice-president of new ventures Ray Chohan
- Business: Patent analytics
- HQ: Singapore
- Backers: NUS Enterprise, Accel-X, Vertex Ventures, SoftBank Vision Fund 2. Tencent Investments, CPE Industrial Fund, Seguoia Capital China, Shun Wei Capital and others

Mr Tiong admitted that the majority of his mistakes stem from not finding the right fit.

Two years ago, he went on a global hiring spree, convincing senior executives from large organisations and multinational corporations to join the company.

But 90 per cent of these hires didn't fit in, he said, "When the senior leadership team didn't work out, it really impacted the whole organisation's morale and culture.

"In a startup like ours, everyone will need to roll up their sleeves, jump in, and solve problems daily. I learnt that I needed to hire leaders not just with experience in a big organisation, but also with some entrepreneurship experience as well.'

He took these missteps in his new, you will be bound to make some mistakes. Hopefully these will not be their efforts and finetune their too big or irreversible, so you can strategy.' learn from it and press on. It helped

of my investors or seniors for advice

PatSnap currently has close to 900 employees across offices in the US, Singapore, Germany and China. Half of them are research engineers and data scientists, while the other half are spread across functions such as sales and marketing

Staff costs make up the bulk of the company's operating expense, its filings show. For the financial year ended Dec 31, 2019, the company made a loss of US\$24.2 million, on the back of US\$64.2 million in revenue. Employee benefit expenses added up to US\$67.8 million.

While the startup has over 10,000 clients in more than 40 countries, the most heavy users on its platform are large global organisations conducting research and development, institutes of higher learning and research institutes, said Mr Tiong. PatSnap earns by charging a subscription fee that is typically US\$20,000 to US\$30,000 a year. This varies based on the number of modules users subscribe to, and could go up to US\$1 million. Disney, Hershey's, Dyson, NASA, Heineken and Tesla are among its clients.

With PatSnap, they can potentially have some sort of insider insight to whatever a company (or competitor) is doing, its product roadmap or even its strategy forward. Apple, for instance, has been filing patents for its electrical vehicles systems, software operations and vehicle structures since 2017.

Innovators want to know if something similar has already been done, stride: "If you want to do something added Mr Tiong. "They need to understand the landscape so they can focus

While the company is focused on immensely that I could turn to some markets that have billion-dollar R&D

PatSnap founder Jeffrey Tiong says it will zoom in on specific verticals such as pharmaceuticals, life sciences and the automotive industry, and expand in markets such as Germany and Japan. PHOTO: PATSNAP

industries - such as the US, China, UK technology indicators such as the and Singapore – it is looking at new verticals and geographies to grow its strength of its patents - which transtopline by 50 to 60 per cent year on

Mr Tiong said PatSnap will zoom in on specific verticals such as pharmaceuticals, life sciences and the automotive industry, and expand in markets such as Germany and Japan. The startup is also rolling out a new feature focused on the financial com-

Banks and financial institutes can use this new feature to identify and assess a tech company's credit risk, he

PatSnap's algorithms will score each startup (out of 100), based on

number of patents filed, and the lates into how good it is in protecting their tech, among others. Potential users also include hedge funds, quant funds and government agencies.

In a startup economy of so-called "tech geniuses", Mr Tiong wants to be known in simpler terms. "I hope I can inspire more to take up entrepreneurship," he said. "If someone like me, who came from a local university and is just a normal dude can do it, maybe the younger generation will know

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