

# Building a Digital Twin: Bringing Your Building to Life in the Digital World

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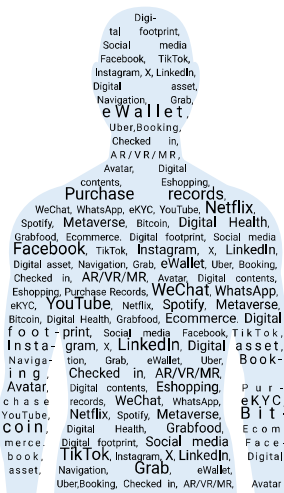
Have you ever heard of a 'digital twin'? It might sound complex, but it's essentially a fancy term for creating a digital version of a real thing—whether it's a building, a person, or a process. This digital twin helps organizations simulate different scenarios, making it easier for them to make smart decisions.

## WHAT IS DIGITAL TWIN OF A PERSON?

This is You

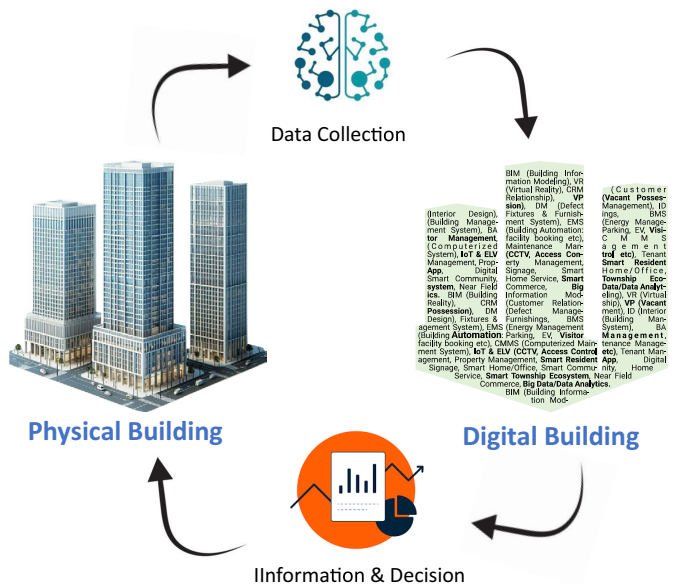


THIS IS YOUR DIGITAL TWIN



Let's focus on buildings. You might think of a digital twin as something similar to virtual reality (VR), where developers create a 3D simulation of a property to give potential buyers a cool preview. But a digital twin goes beyond just a VR show.

## WHAT IS DIGITAL TWIN OF A BUILDING?



Imagine every step of a building's life, from planning to construction and beyond, being captured in digital form. This ongoing process shapes the digital lifestyle of people living or working in those buildings.

Unlike a digital twin of a person, where data might not be directly useful to the individual, a building's digital twin is **entirely controlled by developers or property management companies**. It's like a behind-the-scenes look at the building's entire journey, from design to smart home features.

## DIGITAL JOURNEY IN SUMMARY

**DigitalT transformation** (Operational) ↔ **Data Transformation** (CreateV alue) ↔ **Business Transformation** (Renew)



So, what’s the value of having a digital twin for a building? Well, it’s not just about selling properties. It’s about transforming businesses and ensuring sustainability. Even after a physical property is sold, its digital twin can keep generating income through things like EV charging, home services, and many more.

For developers managing entire townships, digital twins offer even more benefits. They can connect multiple buildings and activities within them, creating a vibrant ecosystem. Just like how social media uses user behavior to push ads, developers or property management can monetize by promoting activities for example facility booking within the buildings or increase revenue by helping tenants to promote their products and services or improve parking income by allowing season parking for multiple buildings or enhance on-premises ads on digital signage and targeted ads on the apps.

Now, how do you build a valuable digital twin? One approach is to use an **AI-powered super app that engages users in various building activities**. This app generates a ton of data, and a built-in analytics module helps developers make informed decisions.

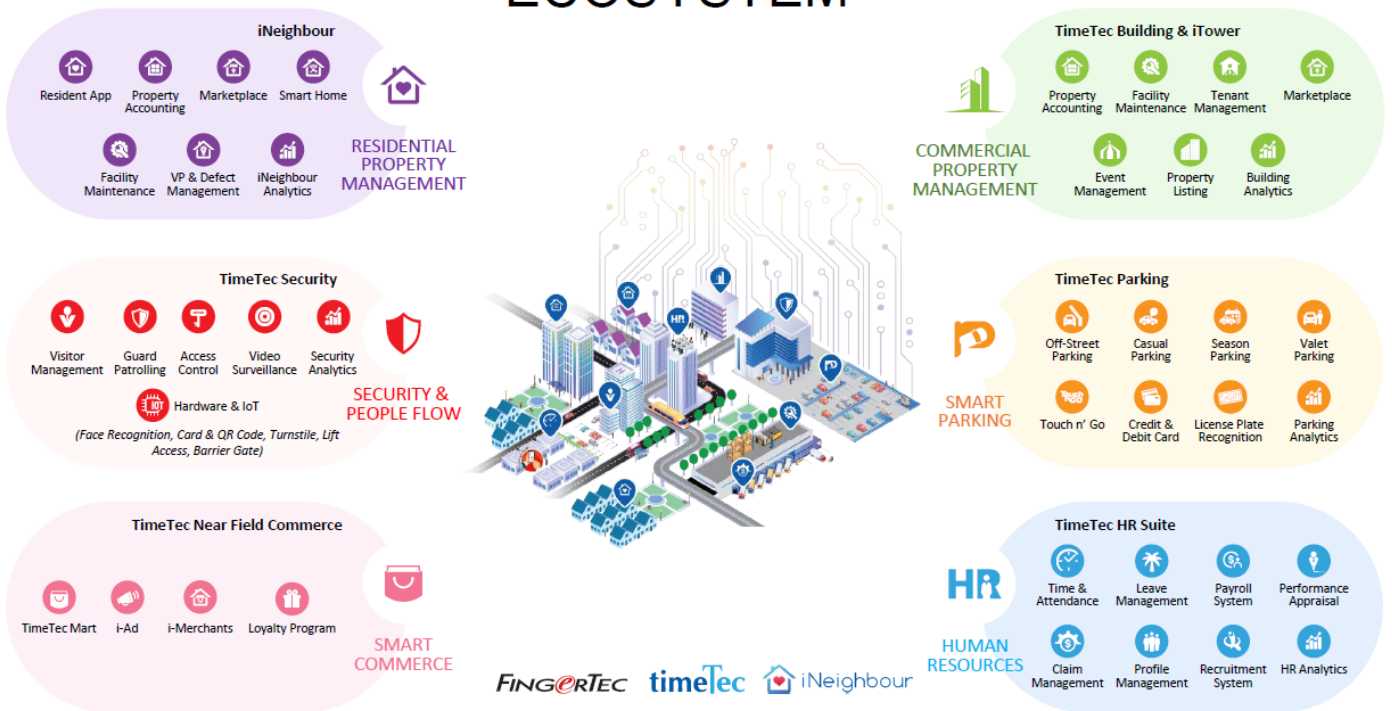
But nurturing a digital twin requires careful consideration. Where are you in your digital journey, and where do you want to go? External expertise, like TimeTec, can play a crucial role in this process.

## DEVELOPMENT TIMELINE DIGITAL JOURNEY



TimeTec’s Cloud City Ecosystem is designed to meet digital and data transformation needs. With 18 core modules, it covers everything from residential to commercial buildings, from construction to post-development. The goal is to create a complete digital lifestyle, and TimeTec even provides APIs for developers to integrate with other solutions.

# TIMETEC CLOUD CITY ECOSYSTEM



So, building a digital twin isn't just about fancy tech terms—it's about bringing your building to life in the digital world and reaping the benefits of a connected, smart, and sustainable future.



## About Author

**Teh Hon Seng, the Group CEO of TimeTec Group of Companies.** Prior to founding TimeTec, Teh led a tech start-up that was listed on the MESDAQ (ACE) market of Bursa Malaysia in 2002. In 2000, Teh initiated research and development in fingerprint technology, which later evolved into the renowned global brand for commercial fingerprint products known as FingerTec. In 2008, he foresaw the trends of cloud computing and mobile technology, strategically diversifying and transforming its biometric-focused products into a suite of cloud solutions aimed at workforce management and security industries, including smart communities and digital building systems centered around the cloud ecosystem. Teh holds more than 20 patents, and he has also been a columnist for several local newspapers and the author of several books.

## About TimeTec

TimeTec Group was established in 2000. Over the past 20 years, the Group has developed three homegrown, globally recognized IT brands: FingerTec, TimeTec, and iNeighbour. These brands specialize in workforce management, security, smart parking, smart office, smart residential, and smart township solutions, harnessing the power of biometrics, cloud and edge computing, IoT, and AI technologies. All these solutions connect and reshape the landscape of work life and home life within a larger ecosystem.

Through an extensive network, TimeTec Group distributes its biometric hardware products and 18 cloud applications, including IoT devices, to more than 150 countries worldwide. Visit our company websites at [TimeTec Cloud](#), [FingerTec](#), [iNeighbour](#), and [TimeTec Building](#).

Various renowned clients have subscribed to TimeTec's solutions, including IOI Properties, Putrajaya Holdings, Ibraco, Binastra, Thriven, Hock Seng Lee, QSR Brands, Central Sugars Refinery (CSR), Sunway Constructions, Mamee, Yakult, Nano Malaysia Berhad, and many more. The versatility and feasibility of TimeTec products also attract international customers from around the world, including Hong Kong, Dubai, Australia, South Africa, and beyond.