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WELCOME TO SMART CITIES & THE INTERNET OF THINGS IOT - TECHNOLOGY

ONLINE TRAINING

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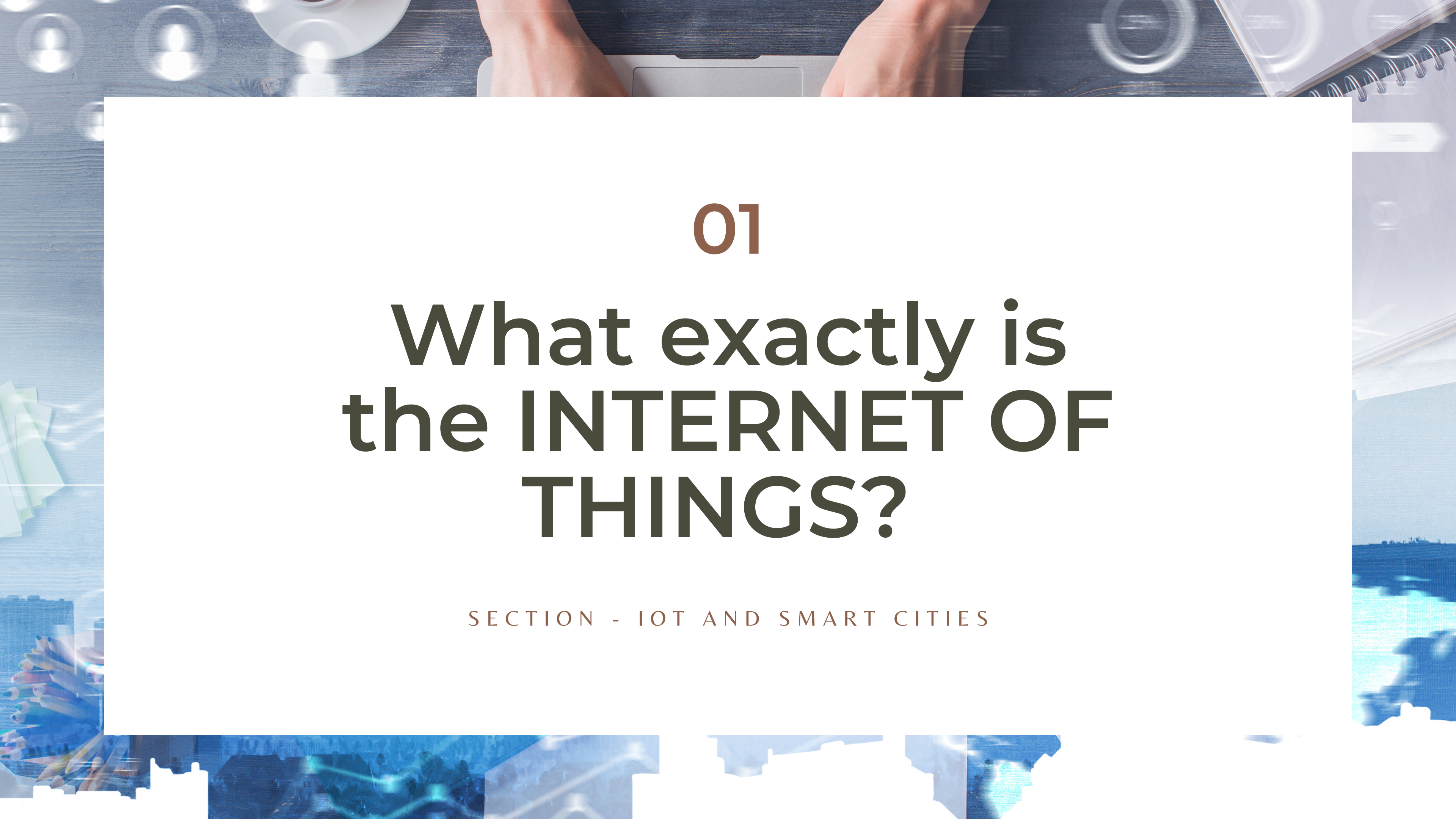


BEYOND
SMART CITIES

Online Course

BEYOND SMART CITIES & THE
INTERNET OF THINGS (IOT)
TECHNOLOGY

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The background is a collage of various images. At the top, there's a close-up of hands typing on a laptop keyboard. To the right, a spiral-bound notebook is visible. The bottom of the image features a blue-tinted city skyline at night, with glowing lights and a bridge. The central text is overlaid on a white rectangular area.

01

What exactly is the INTERNET OF THINGS?

SECTION - IOT AND SMART CITIES

Smart Cities IoT: The Rise Of Home Wellness Technology



01.

WHAT YOU WILL LEARN

By letting things work together, IOT can make us more efficient. It can also help us make better decisions by giving us more information, and it can help the environment by making it easier to save, use, and share resources.

This course goes into more detail about four things:

- 1) how IOT functional capabilities create smart cities;
- 2) ways to reduce and ease the stress of overcrowded cities;
- 3) the long-term effects of IOT; and
- 4) IOT's weaknesses and how to use sustainable frameworks.

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Introduction to IOT & Smart Cities

- Society has gradually asked for faster computers, better ways to process and analyse data, and better ways to solve problems.
- Right now, it's hard to deal with the stress of too many people and make cities less crowded.
- One study shows that "More than half of the people in the world now live in cities. The UN thinks this number will rise to 66 percent by 2050
- In another study, the World Health Organization says that cities will have more health, safety, and environmental problems as their populations grow (World Health Organisation, 2016).
- Technology like the Internet of Things (IOT) can help us think of creative ways to solve these problems. The definition of IOT technology has been rewritten and rethought by a number of experts.



Introduction to IOT & Smart Cities +

- Haller says that IOT technology is "a world in which physical objects are seamlessly integrated into information networks and physical objects can become active participants in the business process."
- On the other hand, Zhi-Kai Zhang says that IOT technology is any physical or virtual object that can connect to the internet and talk to people and other objects.
- In this course, I define IOT technology as representing real or virtual objects that are connected across a system to form a network of communication with other people or things.
- The ability of IOT to connect to other things can help people build smarter, more efficient cities. It can look at problems in architecture, farming, safety and surveillance, and sanitation, figure out how to fix them, and report on the results.
- It fixes these problems by processing information and making it easier for people to share it. Through sensors, it shares the needs and problems of each

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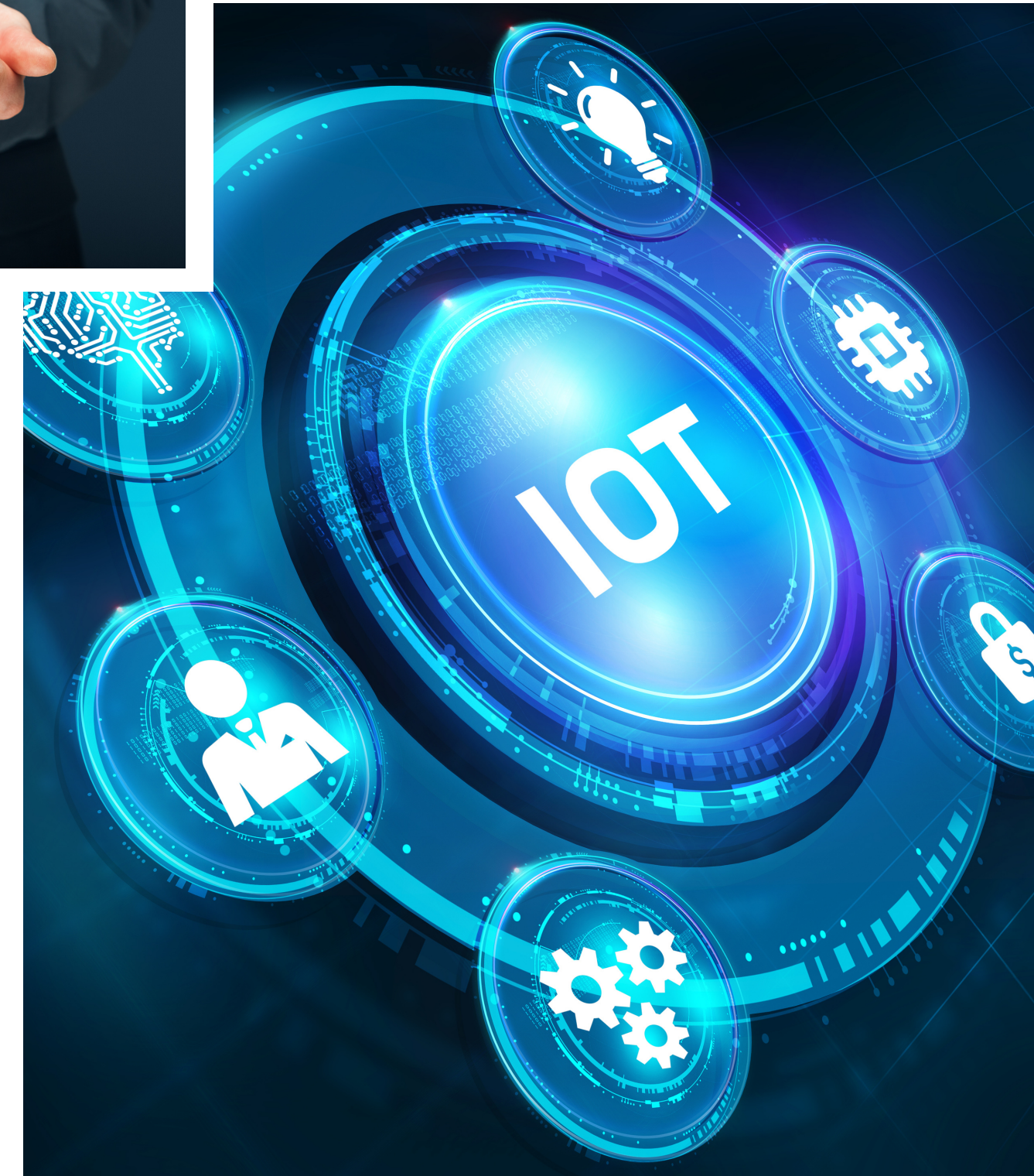
What exactly is the INTERNET OF THINGS?

- In this lecture , we talk about the Internet of Things (IOT) and how important it is for building smart cities.
- With more than 7.33 billion mobile users expected by 2023 and more than 1.105 billion connected wearable device users by 2022, the Internet of Things is expected to become one of the smartest systems for working together and sharing information.
- With so much potential and opportunity in so many areas, such as urban mobility, security, sustainability, maintenance, healthcare, and management, it's important for cities to understand the benefits and opportunities of the Internet of Things for smart cities.
- One of the most important parts of building a smart city for the next generation is making sure it is well connected.
- IoT will give smart cities a lot of great opportunities and benefits, but this level of connectivity will also bring its own problems.

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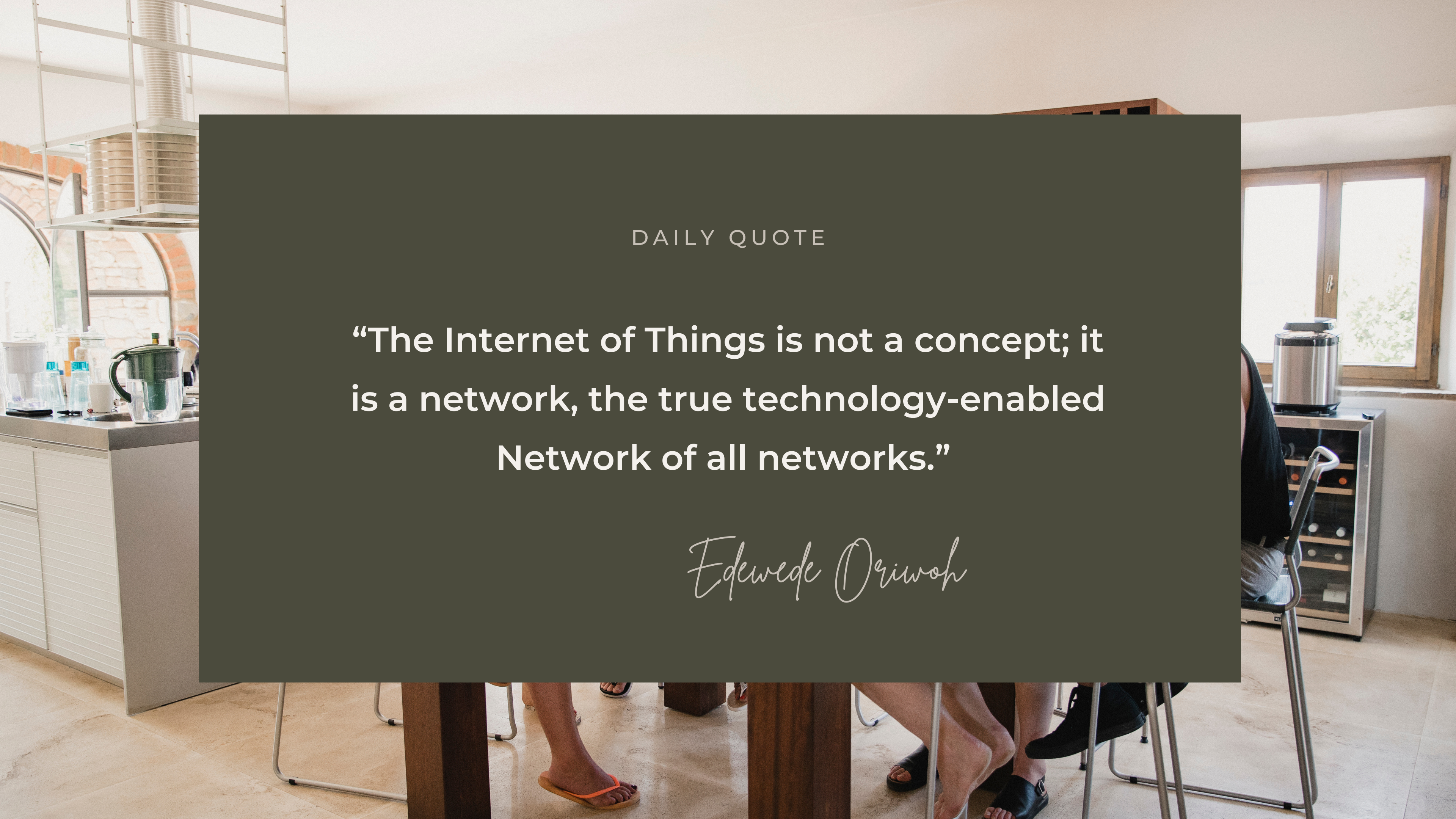


What is the Internet of Things, or IOT?

- The International Telecommunication Union (ITU) says that the term "internet of things" is a broad one that can be used to talk about any object that is connected to the internet.
- In recent years, however, the term IoT has been used more and more to describe things that can "talk" to each other.
- It references the vast network of digital devices that communicate and interact with each other and affect our daily lives.
- There is no uniform definition of what the Internet of Things is, and different organisations and individuals may suggest differences from one definition to the next.
- But they all agree that the Internet of Things is "a set of technologies for accessing the data collected by different devices through wired and wireless Internet networks."

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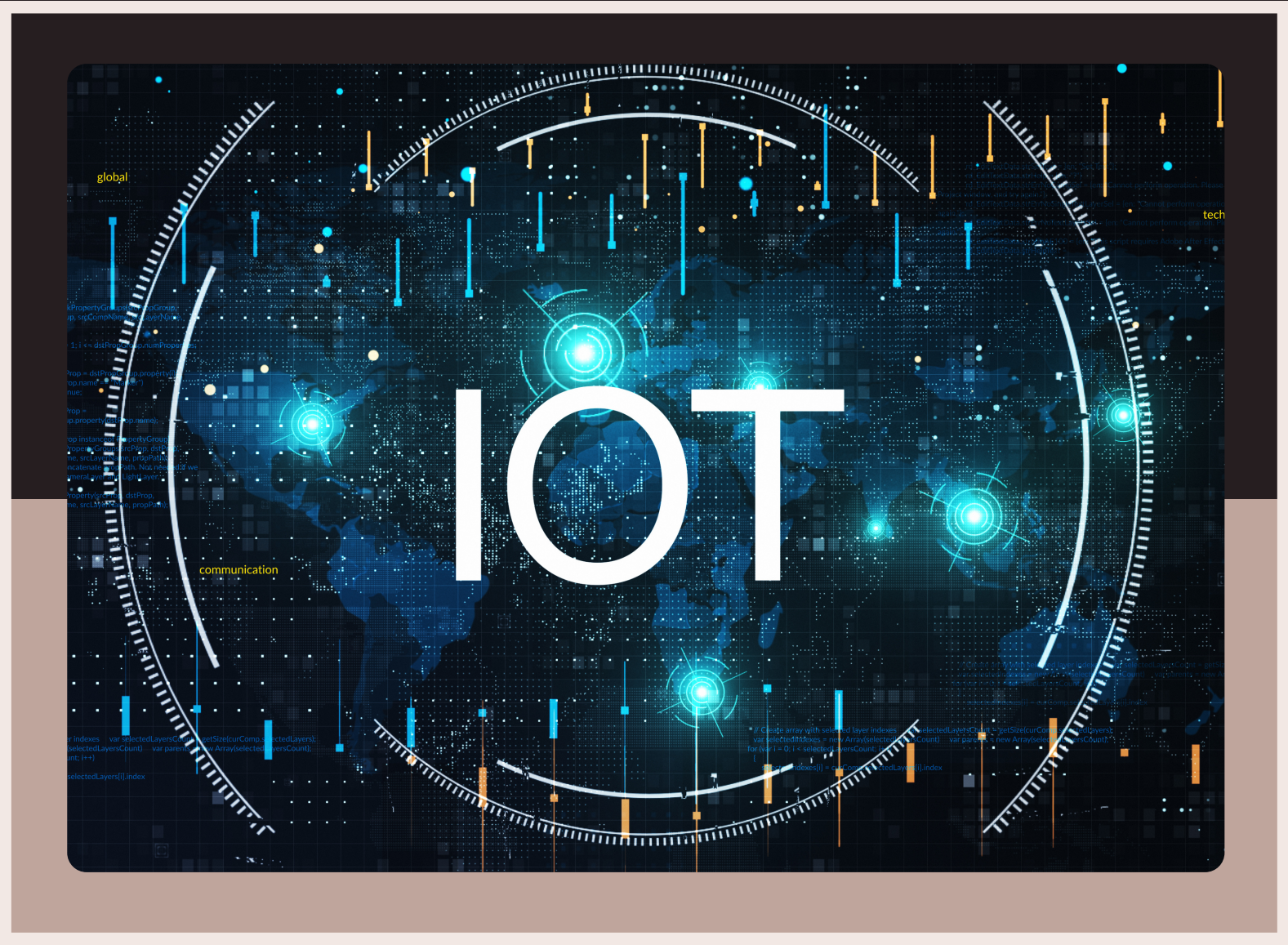


A photograph of a modern kitchen interior. On the left, a white countertop holds various items including a water filter pitcher, a coffee maker, and several bottles. In the background, there's a window with a wooden frame and a brick wall. On the right, a stainless steel refrigerator is visible. In the foreground, the lower legs and feet of several people sitting at a table are visible. A large, dark grey rectangular overlay is centered in the image, containing white text.

DAILY QUOTE

“The Internet of Things is not a concept; it
is a network, the true technology-enabled
Network of all networks.”

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THANK YOU

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