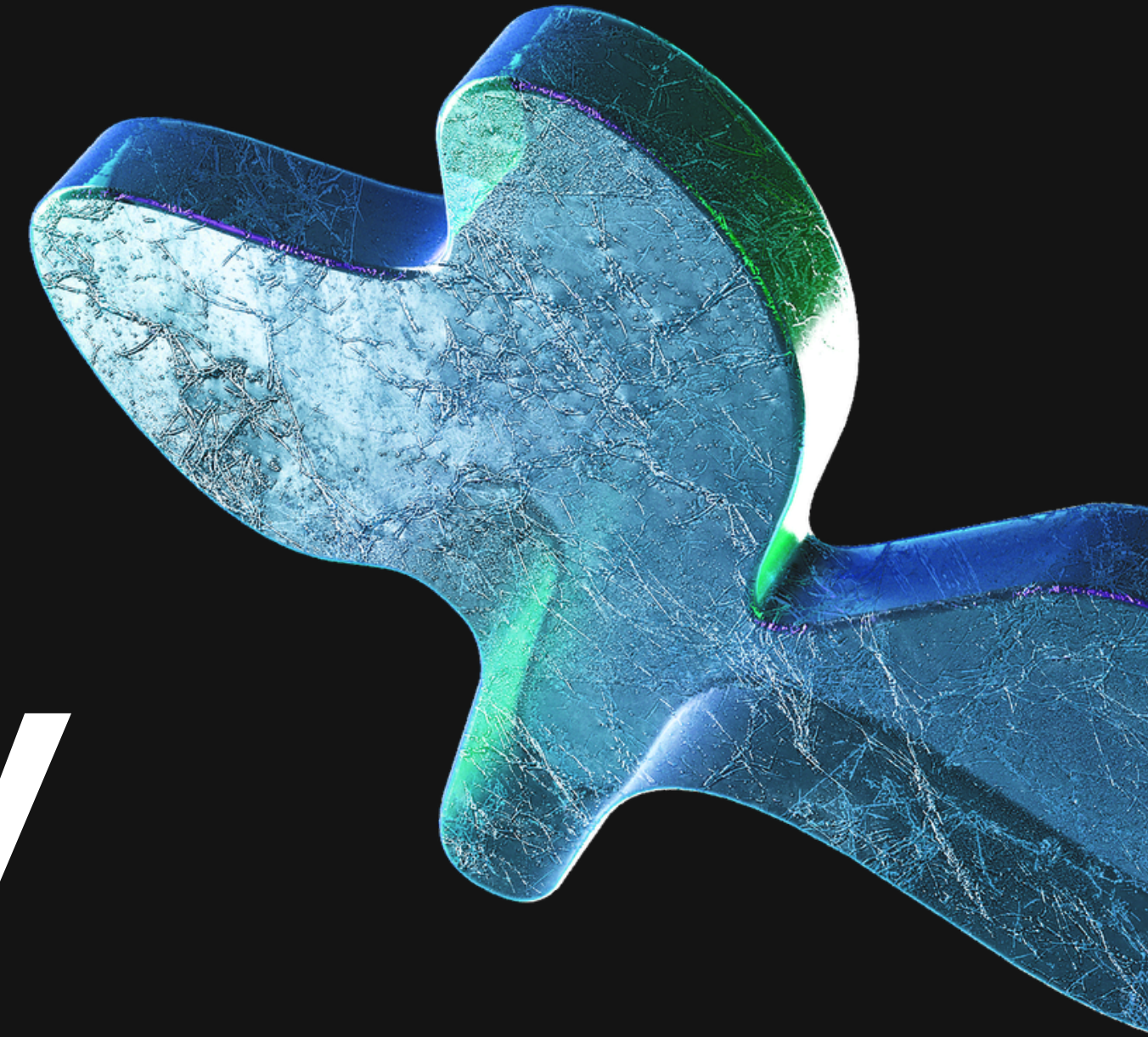




Aryaf Al-shreef - 44004749

5G Technology



What it is and why it's important

Dr . Salwa Ismael - 3465

5G

Explained

What you need to know



What is 5G Technology?

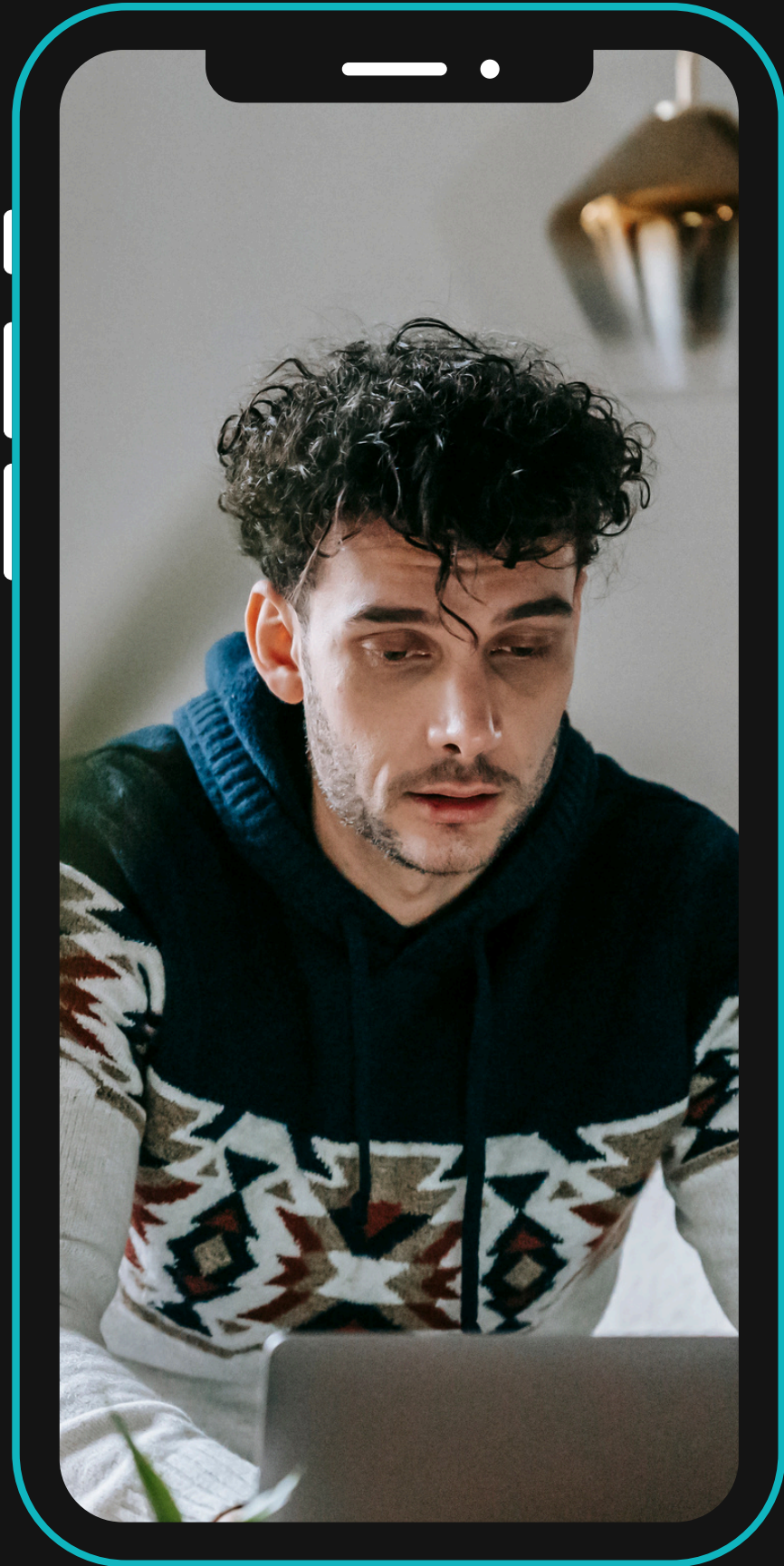
What can we expect from 5G?

Is 5G faster than LTE?

What are the benefits of 5G?

What are the risks?

Trends in telecommunications



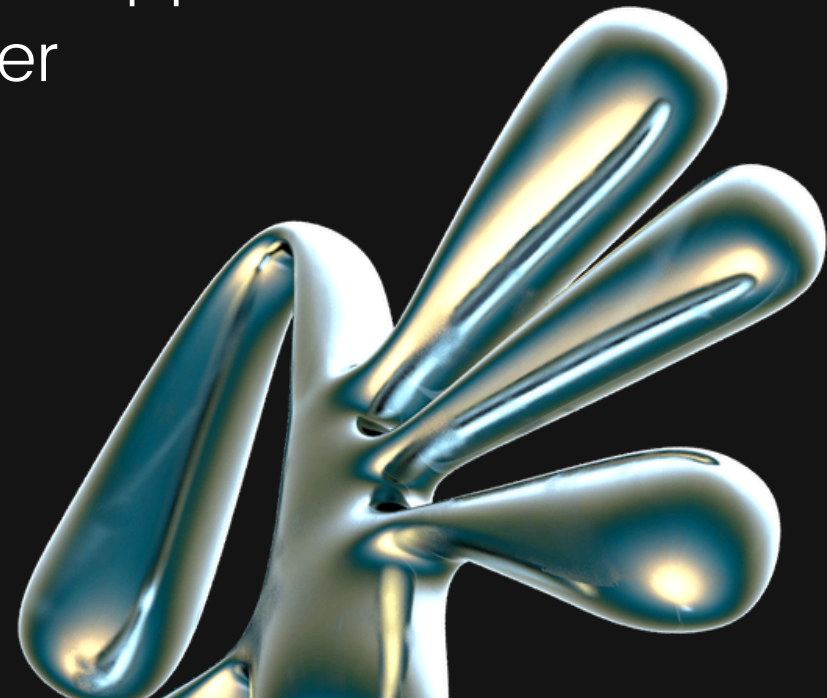
What is 5G Technology?



5G is the fifth generation of wireless network technology. It offers faster download and upload speeds and allows for more connected devices at the same time.

Before 5G Technology

- Superb connectivity for mobile devices
- Relatively fast internet speed of up to 100 Mbps
- Up to 4,000 devices supported per square kilometer



With 5G Technology

- Superior connectivity designed for more types of devices aside from smartphones
- Expected download speeds of over 10gbs (100 to 1,000 times faster than the preceding generation)
- Up to 1 million devices supported per square kilometer

Mobile Networks and 5G Technology

1G

1980s

Analog cell phones allow people to talk to each other

2G

1990s

Addition of new features like SMS and voicemail

3G

2000s

Mobile data let users browse the internet

4G

2010s

LTE offers faster speed and more functionality to mobile devices

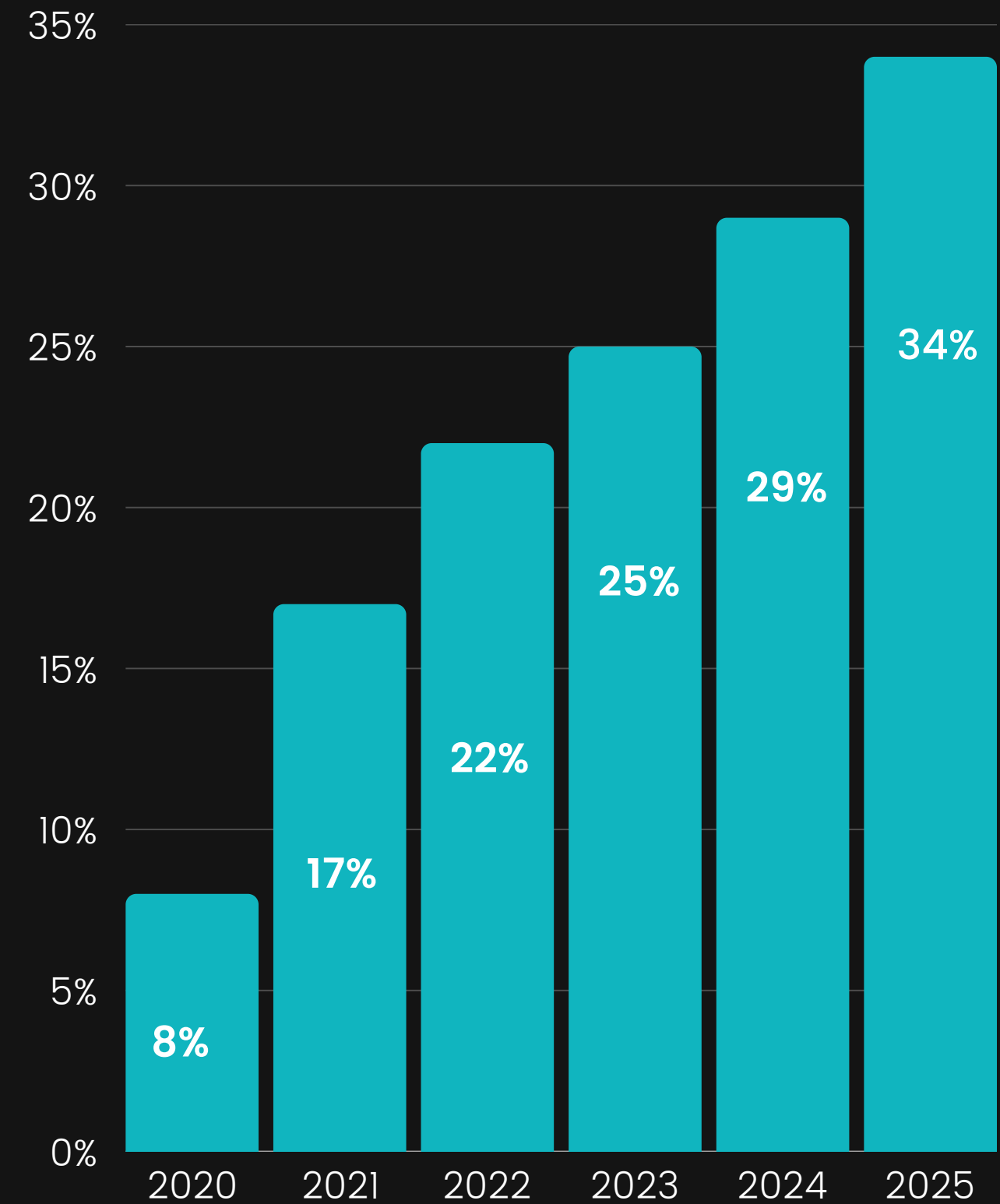
5G

Current

5th generation tech allows more connectivity and faster speeds

Global 5G coverage and adoption

5G technology adoption continues to rise in more countries and cities.

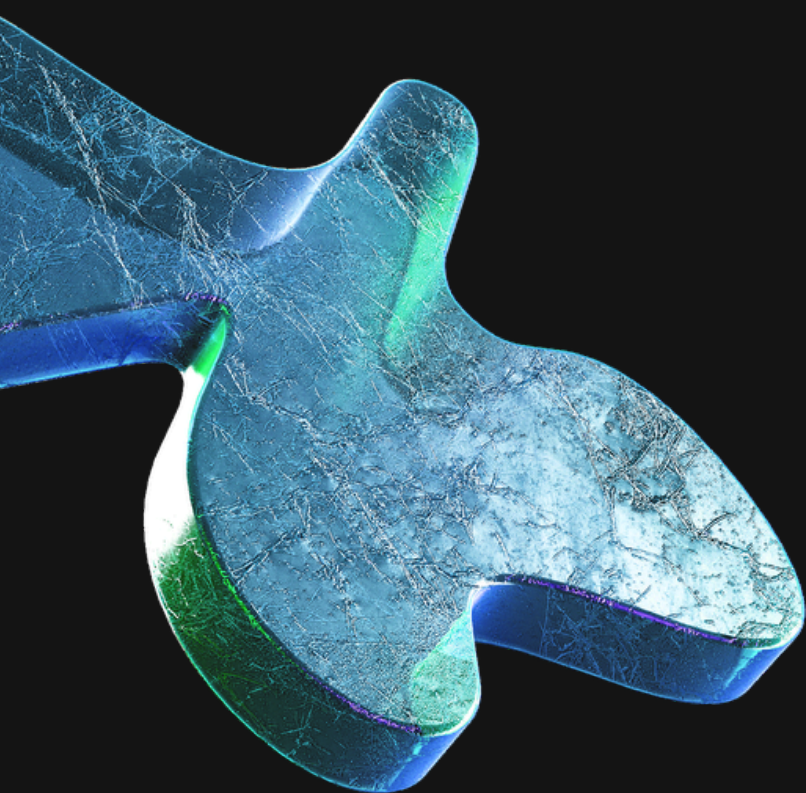


Is 5G better than LTE?

How 5G is different from 4G LTE

5G is a lot faster than the previous Gs, has a lower latency rate, and allows more devices or users to connect to the internet at the same time.

The Benefits of 5G Technology



How 5G Benefits Businesses

5G can change how businesses work and flourish

INCREASED PRODUCTIVITY

Businesses can move large amounts of data without worrying about network issues that can potentially affect the business.

SUPPORTED GROWTH

Businesses won't have to worry about adding more connected devices that move essential data to their network.

FUTURE OF WORK

Superior connectivity can further open up businesses to the advantages of remote workers or dispersed teams.

How 5G Benefits Individuals' Daily Lives

5G can improve people's lives

IMPROVED SERVICES

Users can have better experiences with tech and systems, including cloud services, augmented reality, gaming, and more.

EFFICIENT ENERGY CONSUMPTION

5G equipment is energy-efficient, so using 5G tech can significantly reduce energy consumption.

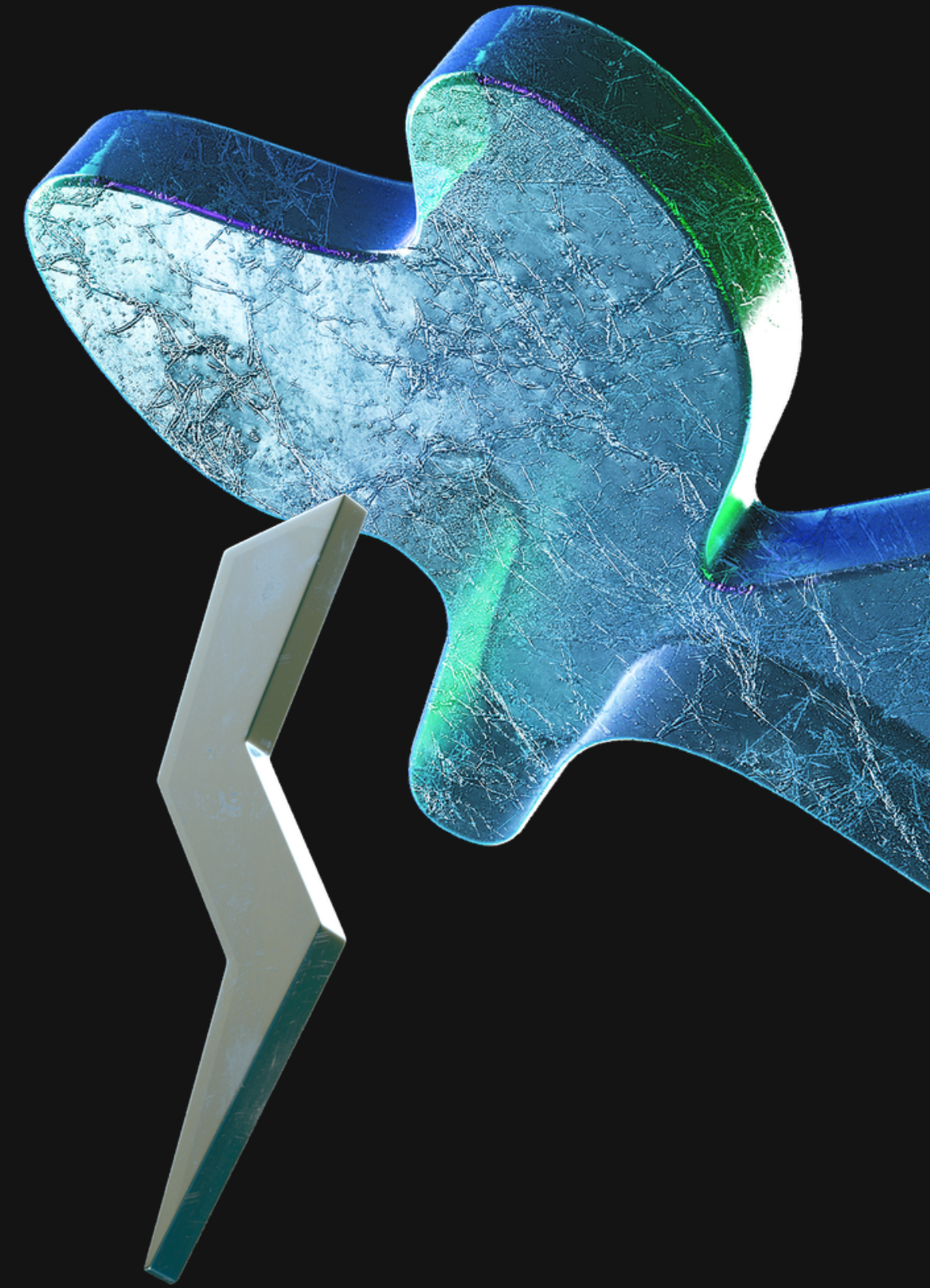
REMOTE HEALTH CARE

Health care providers can access patients' vitals and health data in real-time or perform remote surgery when necessary.

Does 5G technology pose health risks?

Concerns about the risks of 5G are unfounded

Experts have expressed that there are no factual bases for claims that say 5G poses risks to people's health though more studies on 5G can be valuable. Consumers also need to be educated more on how 5G works.



**5G can change everything,
but there needs to be a
comprehensive information
campaign for businesses
and consumers.**

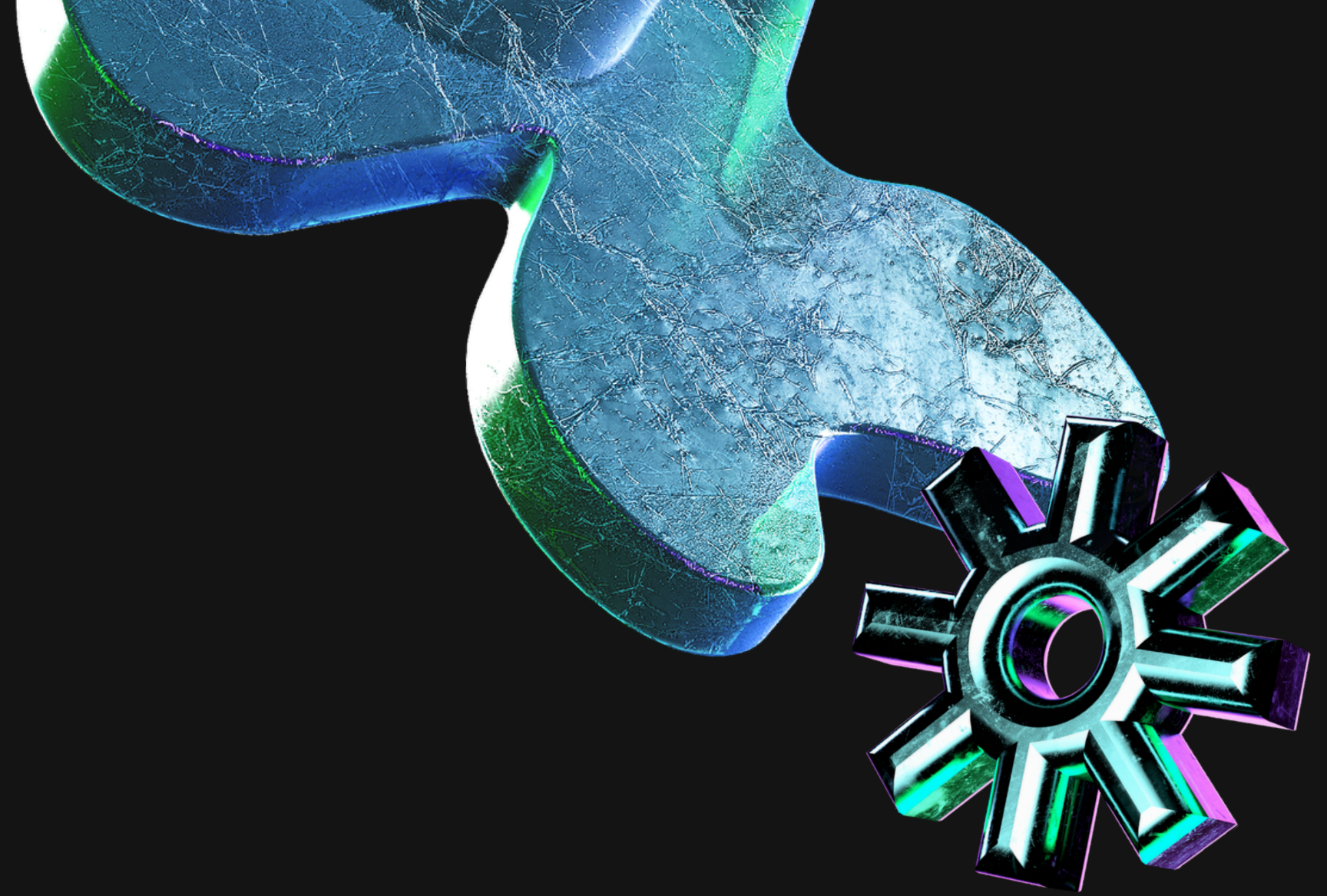


Trends and the Future of Telecommunications

- Internet of Things will explode as connectivity becomes more extensive
- Artificial Intelligence and Machine Learning technology will also flourish
- Intelligent Automation will help simplify operations
- Edge Computing will also gain more interest as businesses adjust to new ways of operating
- DevOps will be necessary in getting everything to work together efficiently

**The advance of technology
is based on making it fit in so
that you don't really even notice
it, so it's part of everyday life.**

BILL GATES



**Do you have
any questions?**

We hope you learned something new.