



SCAN ME

VIDEO COMPREHENSION

3. PREDICTING: You are going to watch a video, **What is 5G?** (<https://bit.ly/3azbnK2>). Look at the title, what type of information do you think will be included in the video? After watching, check if your prediction was correct.

4. Listen and complete the following comprehension questions. All answers should be in complete sentences.

1. In your own words, what **is referred to** as 5G?

2. According to the video, what are **the main differences** between 4G and 5G? Give examples where appropriate.

5G is faster and could offer a continuous stream of data, unlike 4G, which is required for most advanced IoT services

3. What is network slicing? What would be **the advantages of** network slicing?

4. What challenges were associated with the implementation of 5G?

5. What do you understand by the following sentence "according to some experts, 5g could cause network operators to tear up their current business models for it to make business sense"?

CRITICAL THINKING

5. With a partner, discuss the following questions, then share your views with the rest of the class.

1. Which mobile operators can be found in your country? How many operators have launched 5G?

Movistar (Telefónica), Vodafone España, Orange España, Yoigo (MásMóvil), Masmovil. Spain has seen the launch of 5G networks by several operators. Movistar, Vodafone España, Orange España, and Yoigo

2. Do you think we really need 5G? Why, why not?

Yes, 5G is necessary for facilitating faster data speeds, lower latency, supporting the Internet .

3. How do you think 5G technology would change your day to day life?

5G technology could enhance daily life by enabling faster internet speeds, seamless connectivity for IoT devices.

LANGUAGE FOCUS

6. GRAMMAR

Using Expressions for Approximations, Percentages and Fractions

We often try not to be too exact or factual in English because it can sometimes sound very direct. As a result, we add expressions to make what we say more approximate or vague. For example: **around, about, number + -odd, roughly, as many as, at least, in the region of.**

PRACTICE: Listen to the video again and fill in the missing phrases.

1. This means it will have a4G.
2. On 5G you'll be ready to watch your film..... three and a half seconds.
3. The 4G network responds to our commands 50 milliseconds.
4. With 5G, it will one millisecond - **400 times faster than** a blink of the eye.
5. 5G could become the connective tissue for the internet of things, an industry that's set to grow 2025.

7. IDIOMS AND EXPRESSIONS: Look at the following idioms found in the video. ☒ Tick the definition that is closest in meaning to these expressions.

1. Technology changes **in the blink of an eye**. For example, I barely got a new phone, and the next model is already out.

- ☐ a. to close your eyes quickly.
☒ b. within a very short period of time.
☐ c. over a long period of time.

2. Many people work years before becoming successful. It does not **happen overnight**.

- ☐ a. to occur during the night.
☐ b. to go quickly in the night.
☒ c. to occur quickly.

3. He had to **face multiple hurdles** before his company became successful. ...

- ☒ a. to have many challenges
☐ b. To have a race
☐ c. To have many steps.

4. Out of the 70 employees, only **a handful of** people came to the meeting.

- ☐ a. more than half of
☒ b. a small quantity or number of
☐ c. a large quantity or number of

5. The company implemented an aggressive advertising campaign to ensure that it did not **lag behind** competitors.

- ☒ a. To happen at a slower pace.
☐ b. To happen at a faster pace.
☐ c. to happen at a lower pace.

6. This summer, the company **will be rolling out** their new connected speakers.

- ☐ a. to move something around.
☐ b. to have something outside.
☒ c. To introduce or implement something.

8. VERBS + NOUN COLLOCATION: Choose the most suitable verb to go with the word in bold. Change the form of the verb as needed.

to surf | to send | to respond to | to deliver | to replace | to download

- a. In many countries, 4G technology will be ...replaced..... **by 5G**.
- b. Every day, the manager sends a lot of **messages to** his employees.
- c. It is essential that you deliver..... **this information** to the right people.
- d. Websites that allow you todownload..... **movies** for free are usually illegal.
- e. Your Android phone can respond toa wide variety of voice **commands**.
- f. The company has a new policy that discourages employees from surfing..... **the web** at work.

9. NOUN PHRASE COLLOCATION: Combine words to make suitable noun phrases. The first one has been done for you. Then complete the phrases in the sentences below.

NOUN + NOUN	
1. Mobile	a. users
2. Internet	b. spectrum
3. Radio	c. network
4. Smartphone	d. speed

ADJECTIVE + NOUN	
1. autonomous	a. cars
2. Self-driving	b. film
3. data-heavy	c. vehicles
4. two-hour	d. applications

- i. The mass production ofautonomous..... **vehicles** has the potential to revolutionize the transportation industry.
- ii. Due to better infrastructure, our internet **speed** is usually faster in the city than in the countryside.
- iii. Research shows that the number of smartphone **users** is increasing year after year.
- iv. Google has already created the prototype of a fully-functional, self-driving **car**.
- v. You can adjust how your phone uses data by changing your mobile..... **network** settings.

TRANSFER ACTIVITY

10. SPEAKING

TASK: You work in one of the industries listed below. Your director is holding a meeting to determine what benefits 5G could bring to the industry over 4G. With a partner, explain to them what is 4G and 5G, the differences between them and what advantages 5G could bring to the industry. Use the grammar and vocabulary previously learnt to support your response.

- Automotive
- Real estate

- Public Administration/ Defense
- Finance and Insurance

In the automotive sector, 4G enables advanced connectivity for smart vehicles, enhancing navigation and safety features. However, 5G's low latency and high speeds offer real-time communication critical for autonomous driving, albeit with infrastructure challenges.

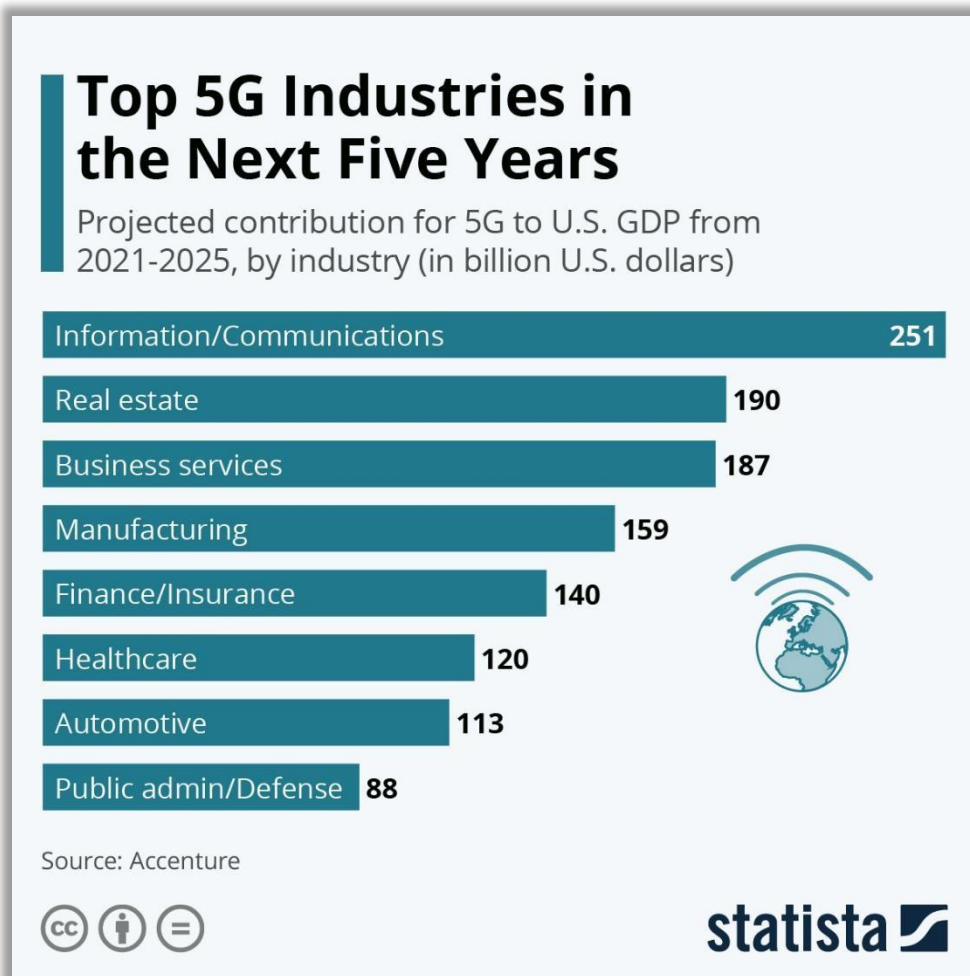
In real estate, 4G facilitates remote property viewing and transactions, improving accessibility. Yet, 5G's faster data transfer and augmented reality capabilities immersive property experiences, though coverage limitations may persist.

In public administration/defense, 4G ensures reliable communication and data transfer for emergency services and military operations. 5G's low latency response times and supports emerging technologies like drones.

CHART ANALYSIS

4. This chart shows the projected contribution for 5G to U.S. GDP from 2021-2025 by industry (in billion U.S. dollars). Answer the related questions using the information from the chart. Use the phrases in the box, if needed, to help you formulate your responses.

The chart shows, by contrast, similarly, compared to, with an estimated,
following closely are, respectively, projected to contribute



1. How do you think the increased use of 5G technology will affect the workers in the different industries?
2. What contribution, if any, do you think 5G technology could bring to the industries in your country?
3. What can we say about **the source** of the data?
4. Now, summarise the key information from the chart.