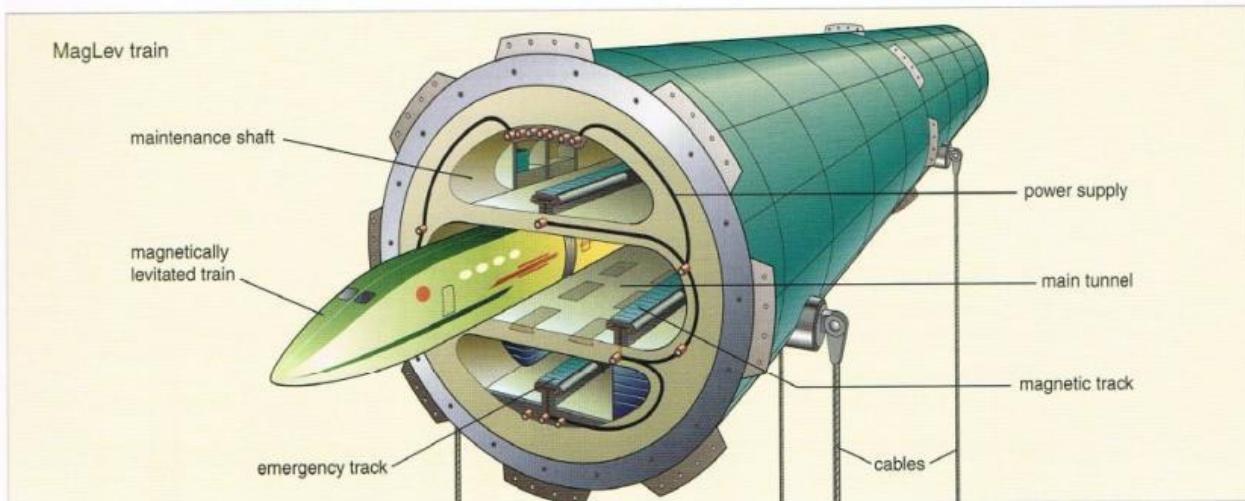


3 Future projects



Start here

- 1 Work in pairs. Look at the picture. What is it? How does the vehicle move?
- 2 42 Listen to this radio interview and complete the specification chart.

Trans-Atlantic MagLev Tube	
Location of tube	(1) <i>Under the Atlantic Ocean from Britain to the USA</i>
Possible date of completion	(2) <i>2100</i>
Length	(3) km
Depth below sea level	(4) m
Number of cables	(5)
Speed of train	(6) km/h
Source of power for train	(7)

Language Use *will* and *won't* to predict a future fact or event.

They/We My company The engineers	will 'll will not won't	build it in 2050.
When	will	build it?
Will	they/you	In 2050. build it in 2050? Yes, they will. / No, they won't.

3 Disagree with each statement.

- 1 The engineers will start the tube in 2020. (2080)
- 2 The tube will be under the Pacific Ocean. (Atlantic)
- 3 The tube will connect Britain with Europe. (the USA)
- 4 The train will use diesel. (magnetism)
- 5 The tube will contain compressed air. (a vacuum)
- 6 The trains will travel at 11,000 km/h. (8000 km/h)

Example: 1 They won't start the tube in 2020. They'll start it in 2080.

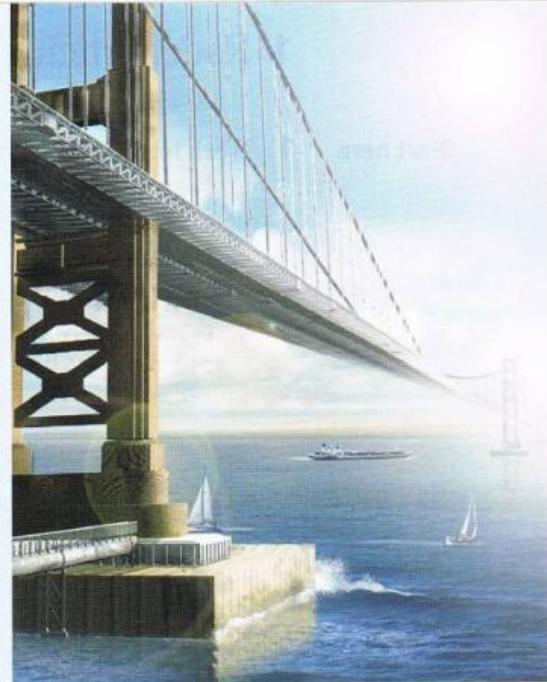
Reading 4 Read this interview and produce a specifications chart for the bridge (see 2 on page 56). Use the words in the box.

completion date deck height length materials pier pylon span

Bridge of the Future: Europe-Africa Bridge

RadioTech presenter Tom Burns interviews engineer Galal Hamdy.

Tom: What project are you working on now?
 Galal: We're designing the world's longest bridge.
 Tom: Where will it be?
 Galal: Between Morocco and Spain. It'll connect Europe with Africa.
 Tom: What are the specifications of the bridge?
 Galal: It will be almost 15 km long. In our design, the bridge will have two spans. Each span will be 4800 m long.
 Tom: That's a very long span. How will that be possible?
 Galal: The bridge will have three steel pylons, on concrete piers. The pylons will be 1000 m high. The deck will be very light and strong. It'll be made of fibreglass.
 Tom: Many engineers think you won't be able to build this bridge.
 Galal: I don't agree. I think we'll complete it around 2030.



Speaking 5 Work in pairs. Ask and answer questions about the specifications of the bridge.

A: *How long will the bridge be?* B: *It will be almost 15 km long.*

6 Here is a possible project schedule for the Europe-Africa Bridge. Roleplay an interview between a TV presenter and an engineer.

Task	2024	2025	2026	2027	2028	2029	2030	2031	2032
1 lay foundations		■							
2 build piers			■	■					
3 put pylons on piers					■	■			
4 attach cables to pylons						■	■		
5 make deck			■	■	■	■			
6 fix deck to cables							■	■	
7 build roads							■	■	■
8 open bridge									■

TV Presenter: *When will you build the piers?*

Engineer: *We'll start in 2026 and finish in 2027.*

Social English 7 How do you think the world will change in the next 20 years. Think about technology, social, political and legal changes.

Example: Computers will control more things in our homes.