

# Robots in Japan



## Transcript:

Japan is known as the world leader in robotics but not only are they greeting guests at hotels or serving food at restaurants, they're also transforming the medical industry. As part of our Leading Cities series Mariko Oi visits a very special operating theatre.

Is this the future of surgery? The smart cyber operating theatre connects medical devices together and consolidates the information in real time, helping surgeons make critical decisions.

" This machine gathers all the important data together. And based on the information it collects. as the surgery progresses, if the surgeon is unsure of the risks involved with a course of action, artificial intelligence can provide options which assess the chances of complications as well as the impact on a patient's life expectancy."

Japan is already a world leader in robotics. The industry is currently worth five billion dollars. At the Shintome nursing home 16 different types of robotics from nursing aids to rehabilitation devices support the residents well-being and care. Paro, a baby seal inspired by animal therapy can respond to temperature, touch and sounds. It's been introduced in countries around the world.

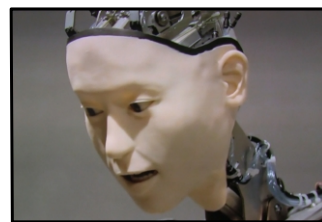
"What kind of impact can you see on the residents?"

"Playing with Paro and Aibo makes them feel calmer."

Residents seem happy to interact with Pepper a humanoid robot able to recognise some emotion. As the country faces an aging population there's a shortage of careworkers. It's hoped over time that robotics can help fill the deficit. Mariko Oi, BBC News, Tokyo.

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assess	cyber	inspired	respond
calmer	deficit	interact	risks
consolidates	emotion	progresses	shortage
critical	impact	rehabilitation	transforming



**Use the words in the box to complete the transcript. Some words appear more than once:**

Japan is known as the world leader in robotics but not only are they greeting guests at hotels or serving food at restaurants, they're also \_\_\_\_\_ the medical industry. As part of our Leading Cities series Mariko Oi visits a very special operating theatre.

Is this the future of surgery? The smart \_\_\_\_\_ operating theatre connects medical devices together and \_\_\_\_\_ the information in real time, helping surgeons make \_\_\_\_\_ decisions.

" This machine gathers all the important data together. And based on the information it collects. as the surgery \_\_\_\_\_, if the surgeon is unsure of the \_\_\_\_\_ involved with a course of action, artificial intelligence can provide options which \_\_\_\_\_ the chances of complications as well as the \_\_\_\_\_ on a patient's life expectancy."

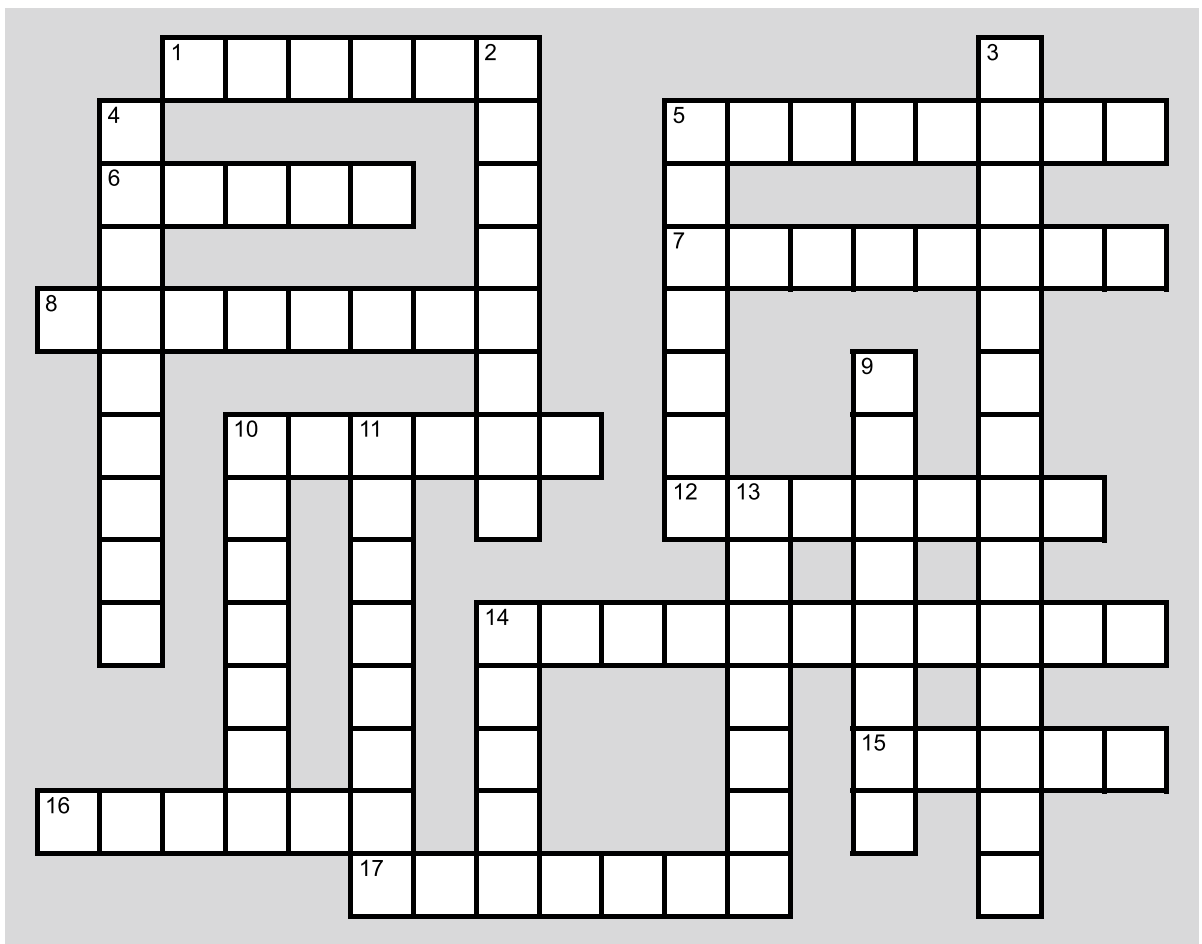
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"What kind of \_\_\_\_\_ can you see on the residents?"

"Playing with Paro and Aibo makes them feel \_\_\_\_\_."

Residents seem happy to \_\_\_\_\_ with Pepper a humanoid robot able to recognise some \_\_\_\_\_. As the country faces an aging population there's a \_\_\_\_\_ of careworkers. It's hoped over time that robotics can help fill the \_\_\_\_\_. Mariko Oi, BBC News, Tokyo.

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## Across ➡

- 1 less agitated, less angry, less worried (6)
- 5 a person who lives in a home (8)
- 6 dangers (5)
- 7 lack of something, not enough (8)
- 8 act together (8)
- 10 the effect on something (6)
- 12 the lack of something (7)
- 14 bring together (11)
- 15 getting older (5)
- 16 estimate - think about (6)
- 17 a kind of doctor (7)

## Down ↓

- 2 the name of the industry making clever and/or useful machines (8)
- 3 Restore - bring a person back to their full self (14)
- 4 Change (9)
- 5 Show a reaction (7)
- 9 very important right now (8)
- 10 Give an idea (7)
- 11 move forward (8)
- 13 feeling (7)
- 14 Something to do with the internet (5)

**What are the benefits and dangers of robotics?**

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## Word list

aging	
assess	
calmer	
complication	
consolidate	
critical	
cyber	
device	
deficit	
emotion	
industry	
impact	
inspire	
interact	
life expectancy	
progress	
rehabilitation	
resident	
respond	
risks	
robotics	
shortage	
surgeon	
therapy	
transform	

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## Word list

aging	getting older
assess	estimate - think about
calmer	less agitated, less angry, less worried
complication	something making a problem worse
consolidate	bring together
critical	very important right now
cyber	Something to do with the internet
device	a thing or machine that does something
deficit	the lack of something
emotion	feeling
industry	business: a group that makes and sells something
impact	the effect on something
inspire	give an idea
interact	act together
life expectancy	how long people should stay alive
progress	move forward
rehabilitation	restore - bring a person back to their full self
resident	a person who lives in a home
respond	show a reaction
risks	dangers
robotics	the industry making clever and/or useful machines
shortage	lack of something, not enough
surgeon	a kind of doctor
therapy	work to help someone get better
transform	change

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