

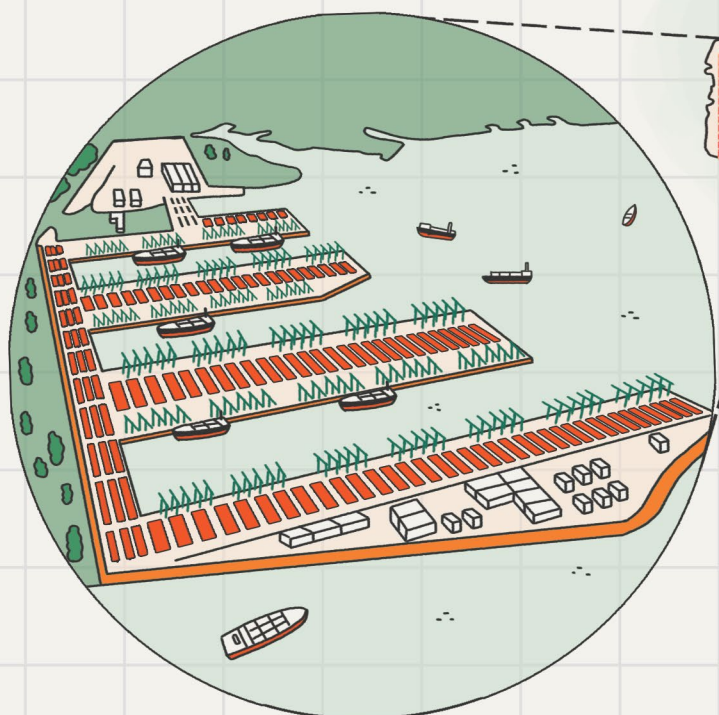
# THE NEXT GENERATION PORT AT TUAS

**You will learn:**  
How the Next Generation Port at Tuas is being developed into a sustainable and green port

## A LET'S LEARN ABOUT MARITIME SINGAPORE

### HOW WILL THE FUTURE PORT OF SINGAPORE LOOK LIKE?

Come 2040s, all existing container port terminals in Singapore will be relocated to one single location in Tuas at the southwestern end. Built on a space that is two times the size of Ang Mo Kio, the Next Generation Port (NGP) in Tuas represents the future of Maritime Singapore in its scale and capability.



Physically, the NGP is expected to be the world's largest fully automated terminal in a single location, with the ability to handle 65 million TEUs (twenty-foot equivalent units, or containers), providing services that can serve a high number of large ships. This is especially important to keep Singapore competitive and at an advantage.

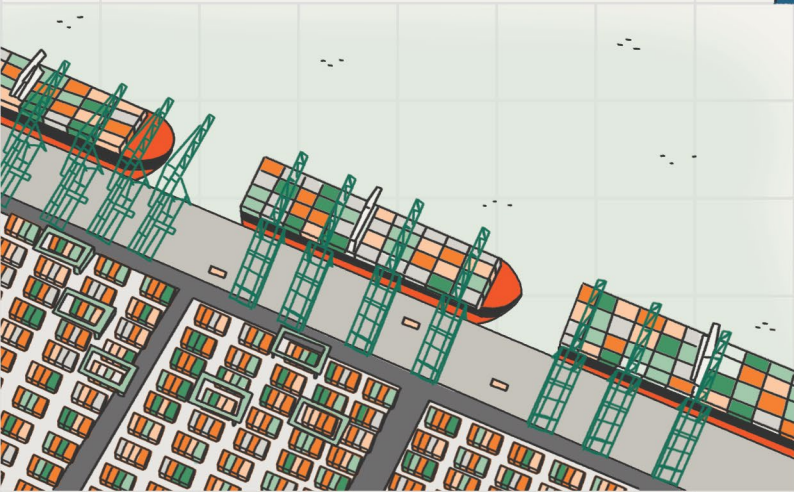
The NGP is also planned to be an **intelligent, sustainable and green port**. Besides the reuse of excavated and dredged materials to reclaim land for the building of the port, the port will also feature smart technology such as automation and digitalisation to make it more efficient, productive and sustainable.

For example, when container ships berth at the NGP, **automated guided vehicles that are electric and driverless** will be picking up the containers and transporting them between the wharf and the yard. These vehicles have a carbon footprint that is 25 percent smaller than regular vehicles, making the port greener and more sustainable.



**Data and technology** will also be used at the NGP to help predict arrival times for ships, to allow faster turnaround times and to help them with just-in-time port calls. Intelligent control systems will also be used to help predict traffic hotspots for ships, letting the ship master plan the best route to take, and preventing possible collisions in busy waterways.

With so many exciting features to look forward to, the NGP looks set to become the next new chapter in Singapore's maritime story!



## THINK ABOUT THIS:

Why do you think is it important for the future Next Generation Port at Tuas to be as sustainable and green as possible?

## B FIND OUT MORE

### INTERESTING VIDEOS YOU CAN CHECK OUT ON THE INTERNET:

- [Tuas Next-Generation Port - The Next Frontier](#)
- [Tuas Port 2030: The intelligent port of the future](#)
- [Last Caisson Installation for Tuas Terminal Phase 1](#)
- [High-tech Tuas port to sail sector into new waters | Singapore Works | The Straits Times](#)
- [Tuas mega port an opportunity to integrate innovations and upscale operations: PM Lee](#)
- [Building Singapore's Tuas Mega Port | Looking Ahead | CNA Insider](#)
- [Tuas Mega Port: A Centrepiece of Singapore's Next Generation Port Vision](#)

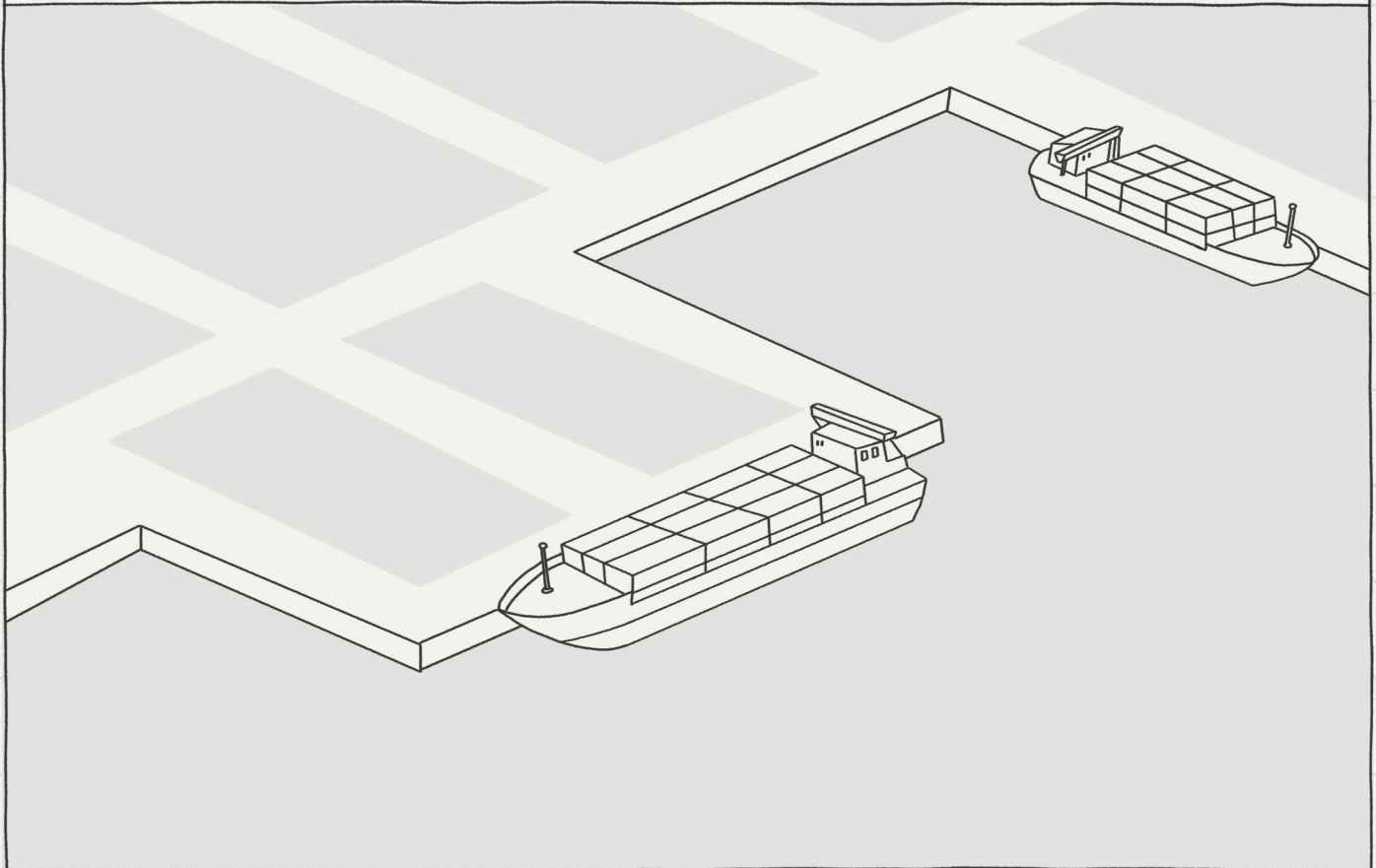
# C TRY THIS ACTIVITY!

## BUILD YOUR OWN GREEN PORT

Read up on the latest green technology that ports and ships use, or use your own imagination to sketch out a draft plan of how your green port will look like in the space below:

What features would you like to see in your very own green port?

Name of your port: \_\_\_\_\_



Special features: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Technology used: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### CHAT ABOUT THIS:

In your opinion, what are some important features that a green port should have, and why is that so?