

# THE FUTURE OF MARITIME SINGAPORE

## You will learn:

How technology and digitalisation are shaping the future of Maritime Singapore.

## A LET'S LEARN ABOUT MARITIME SINGAPORE

### WHAT DOES THE FUTURE HOLD FOR MARITIME SINGAPORE?

We have learned that the maritime industry plays an important role in Singapore's progress and development, especially for its economy. Maritime trade, businesses and activities have always been, and will always be, crucial for Singapore's growth.

As the world moves forward in **technology and digitalisation**, so must the maritime industry in order to stay competitive. Just like how technology has improved our daily lives in the way we find information or keep in touch with friends, technology can greatly improve the way maritime activities are carried out.



Plans for **transforming the maritime industry** include using technology to make the port intelligent and efficient, having smart fleet operations and autonomous vessels, planning strategic sea space and maritime traffic management, and ensuring a sustainable maritime environment and energy use.

For example, the **future Next Generation Port at Tuas** will include features such as the use of data to analyse information and predict accurate arrival times of vessels, as well as the use of drones, unmanned vehicles and automatic yard cranes in the running of the port.

Digital platforms such as the **Maritime Single Window** can also help ships arriving and leaving Singapore find a quicker way to get approvals with the use of a single platform, where information can be shared across various agencies and ports in charge, cutting down time spent on waiting.

The **GeoSpace-Sea system** is another example where digitalisation is used to gather and combine the latest geospatial information from different sources of Singapore's marine and coastal data, into one system. With such expansive and in-depth data, port, marine and coastal planning, and environmental management can be done in a more sustainable and efficient way.

This is in addition to other initiatives such as the **Maritime Living Lab**, where innovative projects like remote pilotage, next generation vessel traffic management, and maritime data hubs are being developed. There is also the **Smart Port Challenge**, a programme that encourages Singaporean and foreign start-ups to provide innovative solutions to the maritime industry.

The Maritime and Port Authority of Singapore (MPA) recently created a **Maritime Digitalisation Playbook** to help maritime companies use digital technology in their work, a step towards developing Singapore as a Global Maritime Hub for connectivity, innovation and talent. With innovation and technology being key areas for maritime transformation, the future of Maritime Singapore looks set to be an exciting and inventive one!



## THINK ABOUT THIS:

What are some other technological and digital advancements in the maritime industry that you find interesting? Do some research and find out more!

## B FIND OUT MORE

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

- [The Future of Maritime](#)
- [Maritimus: The Future of Shipping](#)
- [MPA GeoSpace-Sea](#)
- [MPA Living Lab](#)
- [MPA looks to technology to keep seas safe](#)
- [MPA introduces new initiatives to increase digitalisation in maritime industry](#)
- [Start-ups pitch ideas to transform Singapore's maritime industry](#)

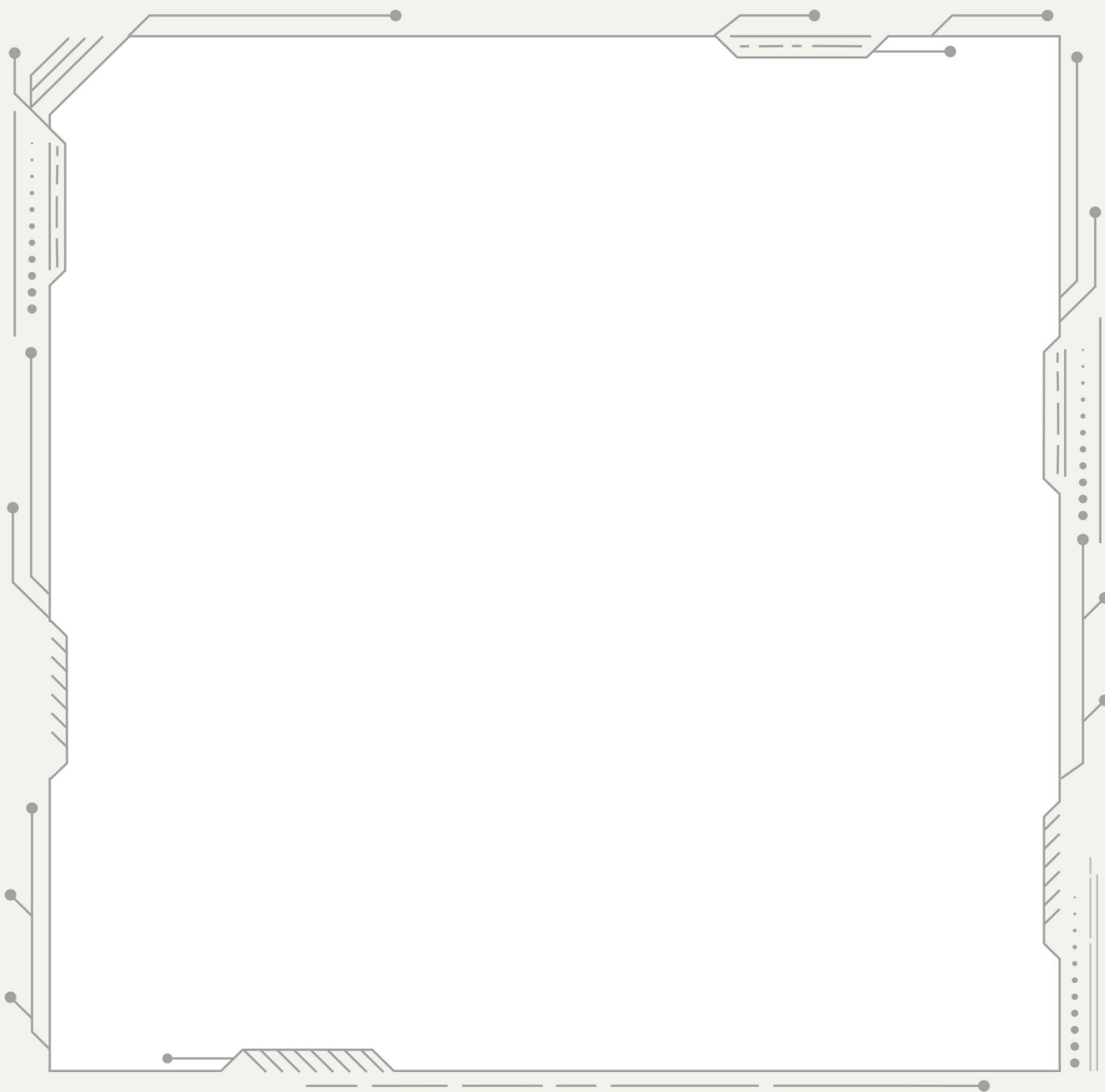
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TRY THIS ACTIVITY!

## DESIGN YOUR OWN FUTURISTIC SHIP AND PORT OF THE FUTURE

WHAT TECHNOLOGY AND DIGITAL INVENTIONS WOULD YOU USE IN YOUR SHIP AND PORT OF THE FUTURE?

USE THIS SPACE HERE TO IMAGINE THE FUTURE OF YOUR MARITIME SINGAPORE:



CHAT  
ABOUT  
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Share what you have drawn – how will technology and digital inventions help your future ships and ports?