



SEA SHEPHERD CASE STUDY: APEX HARMONY TIMOR LESTE

CASE STUDY GUIDE: SECONDARY SCHOOL (Age 11 – 16)

Case Study Summary

This Case Study connects with our Lesson Plans: Illegal, Unreported and Unregulated (IUU) Fishing 1 - 3. It focuses on our campaign Operation Apex Harmony – Timor Leste targeting a fleet of illegal fishing vessels.

This Case Study takes 15 minutes to complete.



Subjects relevant to

English, Geography, History, Math, Science and Social Science.

Learning objectives

- Learn about the extent of shark poaching.
- Experience the process of boarding and inspecting illegal vessels.
- Understand the causes of overfishing.

Preparation

- This case study has been designed to supplement our main lessons. It can be stopped at any time should you wish to include your own discussion/questions or incorporate the lesson activities.
- Depending on whether students are working in a classroom or remotely, you can choose to discuss questions in the class or use the online learning app.
- This digital lesson has an interactive option called student devices. If you choose this option ask the students to bring their mobile phones or tablets to the lesson.
- Should you choose the interactive option, it will run a quiz during the lesson. Recommendation: only use this interactive option in classes of up to 30 students.
- Students can sign up on their mobile device to the www.LessonUp.app. They will be asked for a PIN code (this will appear automatically on slide 3 and will also show at the bottom of the screen). Students who sign up under a false name may be removed by the teacher.
- Students who do not have a mobile device can join the quiz with another student.
- If student devices is turned ON, you can opt to turn the sound and the share screen ON or OFF. Further on you can choose if you want to 'show ranking after each quiz' question. Doing so will create a competitive element, but it can be distracting. Recommendation: turn the 'show ranking after each quiz' OFF.
- The abovementioned options will also show if you click on the PIN code at the bottom of the screen.



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Lesson plan

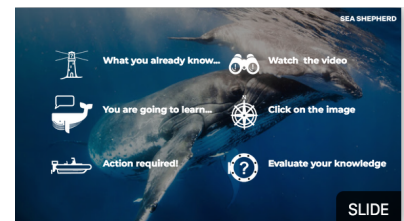
Slide 1 Introduction

This lesson is provided by Sea Shepherd. Sea Shepherd was founded in 1977 and is a marine conservation organisation working to protect the oceans and marine wildlife. Sea Shepherd works globally on a range of issues impacting the oceans, running numerous direct action campaigns each year. IUU is one area Sea Shepherd is working on to help stop illegal fishing.



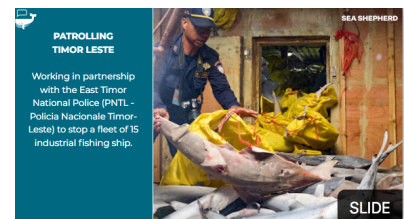
Slide 2 Lesson action icons

During the lesson we will use these icons to identify the learning actions.



Slide 3 Operation Apex Harmony – Timor Leste

In the fall of 2017, crew on the Ocean Warrior patrol vessel began working in partnership with the East Timor National Police (PNTL - Policia Nacional Timor-Leste) to stop a fleet of 15 industrial fishing ships suspected of targeting sharks in East Timor and possibly the neighbouring waters of Indonesia and Australia.



Slide 4 Timor Leste

The map shows the location of Timor Leste.



Slide 5 Detecting illegal vessels

Sea Shepherd's fast patrol ship, the Ocean Warrior, arrived in East Timor (Timor Leste, Southeast Asia) to investigate reports of an industrial fishing fleet of fifteen vessels targeting large quantities of sharks. After just two weeks on site, the crew were able to find, observe and document the fleet's activities, gathering evidence to present to the East Timor National Police.



Slide 6 Shark

It's estimated that somewhere between 100-200 million sharks are killed annually, sometimes as unintended by-catch in fishing nets. But most of them are intentionally hunted for their meat, liver oil, cartilage, skin, or most of all their fins, which are in high demand for the shark fin soup widely consumed in Southeast Asian countries.



Although it's illegal to kill sharks in East Timor's waters, in February 2017 a fleet of 15 industrial fishing vessels carrying permits to fish for tuna were discovered transferring dead sharks to a refrigerated cargo "mother ship", the Fu Yuan Yu Leng 999, just off the coast of Vermasse, East Timor. The ships were inspected and released without fines or penalties, despite public outcry.

Slide 7 Fu Yuan Yu Leng 999

The Fu Yuan Yu Leng 999 made international headlines when it was detained inside the Galapagos National Park with 300 tons of sharks, which it had received from four longliners belonging to Hong Long Fisheries and Pingtan Marine Enterprises. The crew of the Fu Yuan Yu Leng 999 were detained in an Ecuadorian jail and the ship impounded, scheduled to be sold off.



Slide 8 Illegal vessels

Sea Shepherd also found a second fleet of three vessels owned by Hong Dong Pelagic Fisheries, fishing illegally in East Timor waters.

Although they had a license to fish, they were found deploying more than 20km of driftnet from each vessel, blatantly violating the 2.5km maximum allowance set by international law. Sea Shepherd filed a full report of its findings to the flag state of these vessels as well as Interpol, CITES, IOTC and other relevant authorities.





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Slide 9 Illegal fleet

Show the video (6.25 min) which shows the detained fleet and their activities, as well as what it is like for Sea Shepherd crew to confront these issues.

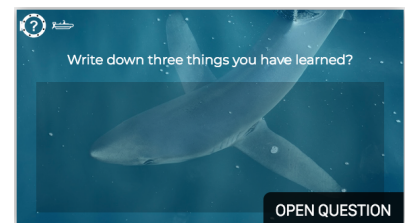
<https://www.youtube.com/watch?v=oxEeG39tN8A&t=264s>



Slide 10 What did you learn?

Ask students to answer the following question using www.LessonUp.app or discuss in the classroom.

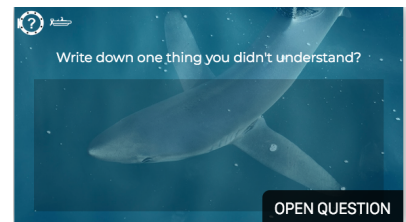
“Write down three things you have learned?”



Slide 11 What don't you understand?

Ask students to answer the following question using www.LessonUp.app or discuss in the classroom.

“Write down one thing you didn't understand?”



Slide 12 Close



YOUR FEEDBACK

We value your feedback and would be pleased to hear your thoughts about this lesson and activities. Any comments, suggestions or requests for further information can be sent to education@seashepherdglobal.org.