

SPREP presents...

# MAREVA and the SEA!



Pacific  
BioScares





**The Pacific BioScapes Programme** is a European Union (EU) funded action, managed and implemented by the Secretariat of the Pacific Regional Environment Programme (SPREP). The Programme contributes to the sustainable development of Pacific Small Island Developing States through the implementation of 30 focused activities taking place across a diversity of ecosystems in 11 countries that will address critical issues concerning coastal and marine biodiversity, and ecosystem-based responses to climate change adaptation. For more information, please visit: [www.sprep.org/bioscapes](http://www.sprep.org/bioscapes)

Marine Spatial Planning (MSP) is a process to spatially organise how people use the ocean to minimise user-conflict and maintain ecosystem health. This comic book aims to assist communities to understand their role in the planning process. It has been written and illustrated by Carlo Iacovino with the support of SPREP and IUCN and features the 10-step planning process developed under the MACBIO project.

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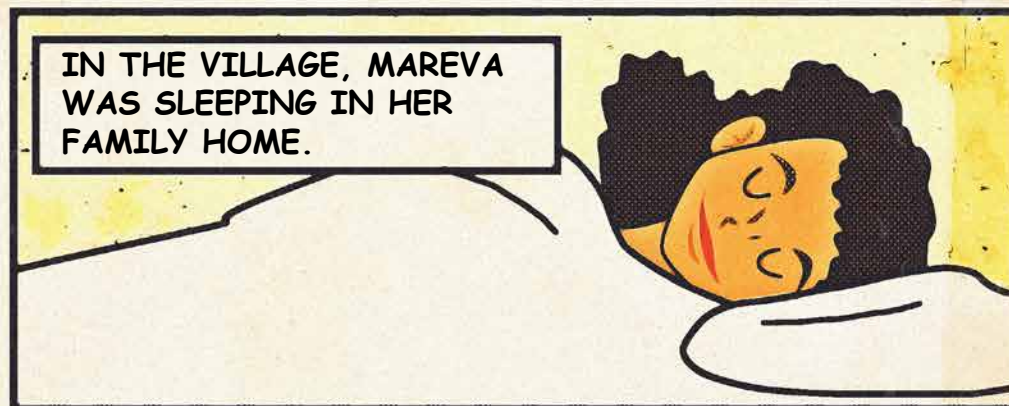
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**Our vision:** A resilient Pacific environment sustaining our livelihoods and natural heritage in harmony with our cultures.

THE VILLAGE OF MANEA WAS BUILT MANY YEARS AGO BY OUR ANCESTORS ALONG THE SHORELINE OF THE BEAUTIFUL ISLAND OF KAPUARO'A.



IN THE VILLAGE, MAREVA WAS SLEEPING IN HER FAMILY HOME.



USUALLY, PAPA'S SNORING WOULD WAKE HER IN THE NIGHT.



DESPITE THE RUMBLING COMING FROM PAPA, SHE THOUGHT SHE HEARD ANOTHER SOUND.







IT SEEMED TO COME FROM FAR AWAY AND WAS QUITE LOUD.

CCCCRRRRRUUNCHH!!

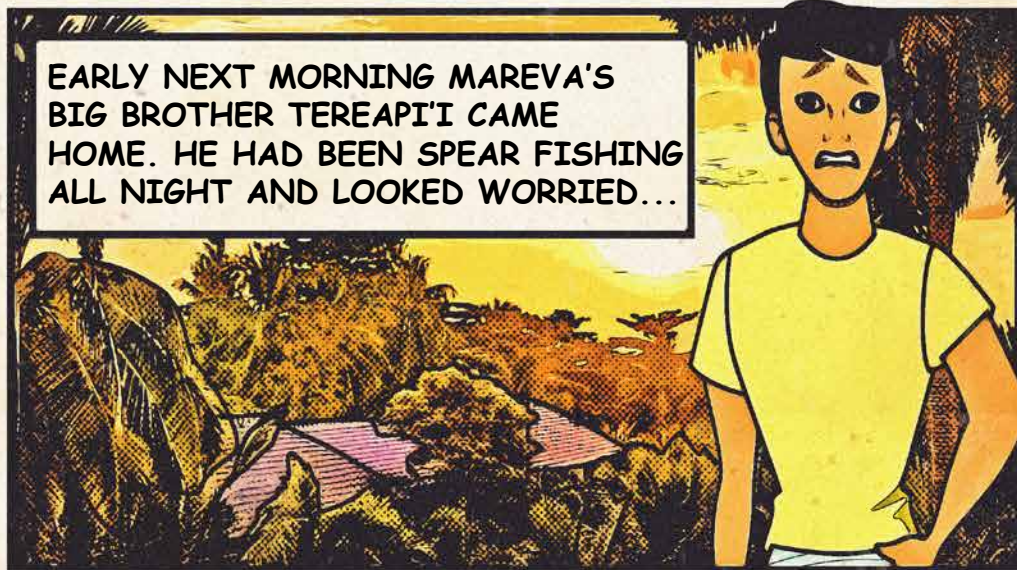


BUT THEN AFTER A WHILE IT WAS QUIET.

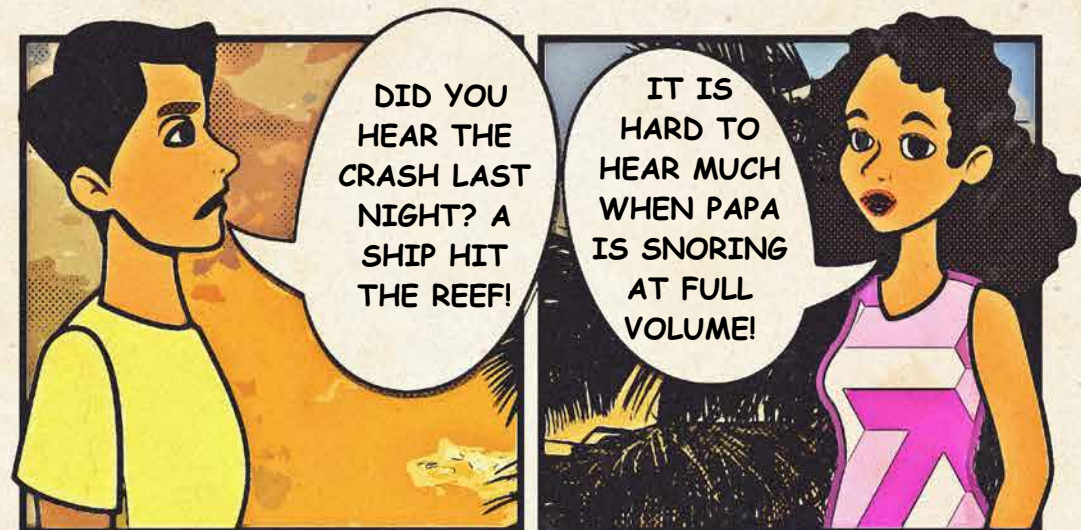


EVENTUALLY MAREVA FELL ASLEEP AGAIN.

ZZZ...

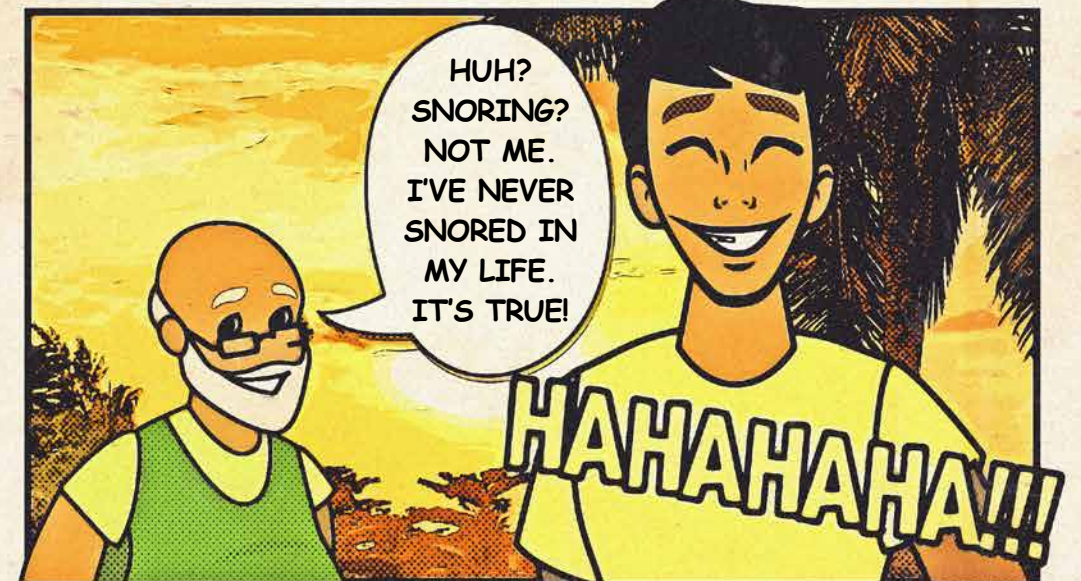


EARLY NEXT MORNING MAREVA'S BIG BROTHER TEREAPI'I CAME HOME. HE HAD BEEN SPEAR FISHING ALL NIGHT AND LOOKED WORRIED...



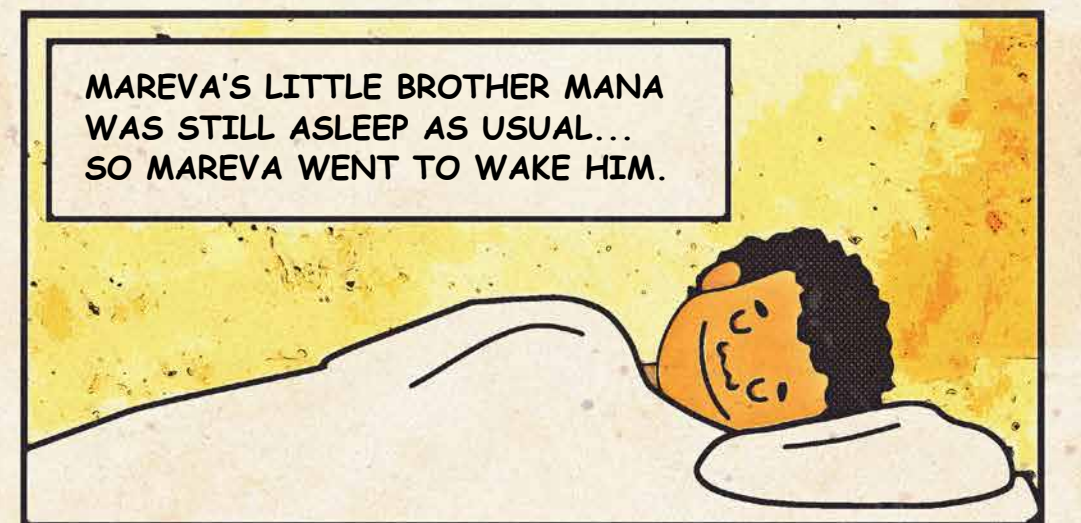
DID YOU HEAR THE CRASH LAST NIGHT? A SHIP HIT THE REEF!

IT IS HARD TO HEAR MUCH WHEN PAPA IS SNORING AT FULL VOLUME!



HUH? SNORING? NOT ME. I'VE NEVER SNORED IN MY LIFE. IT'S TRUE!

HAHAHAHA!!!

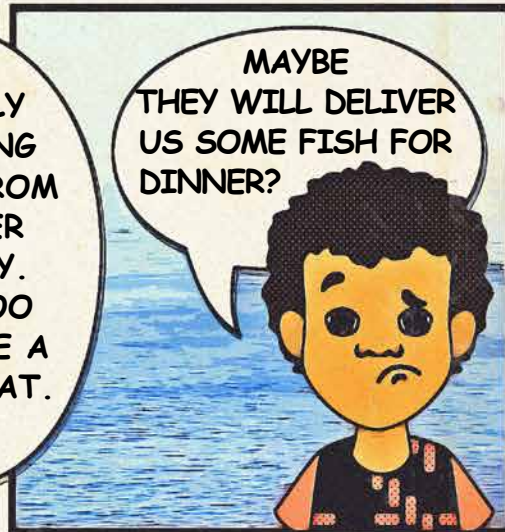
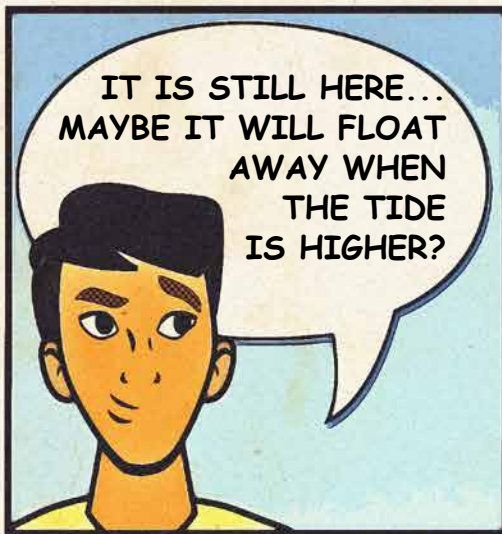


MAREVA'S LITTLE BROTHER MANA WAS STILL ASLEEP AS USUAL... SO MAREVA WENT TO WAKE HIM.

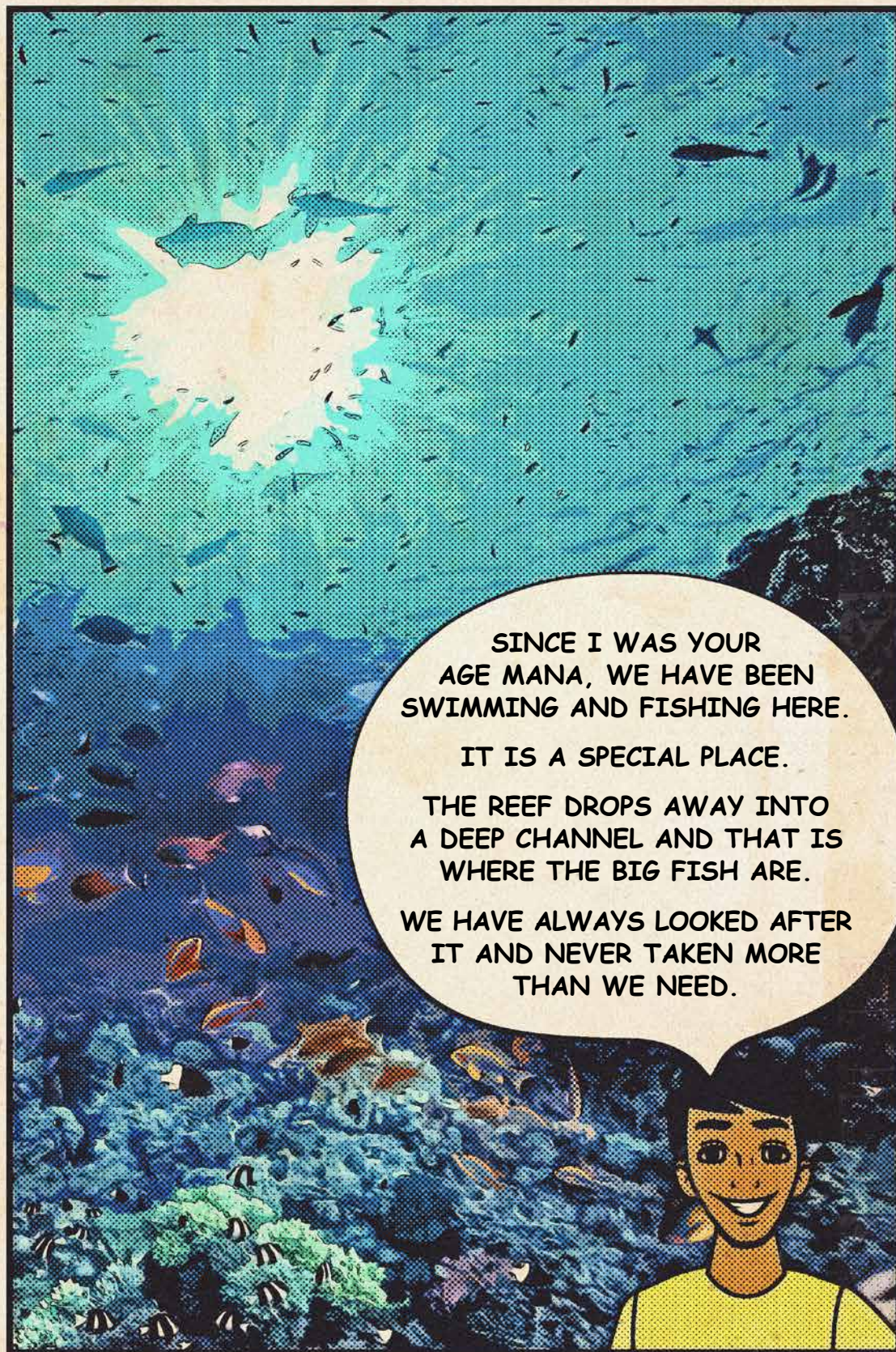










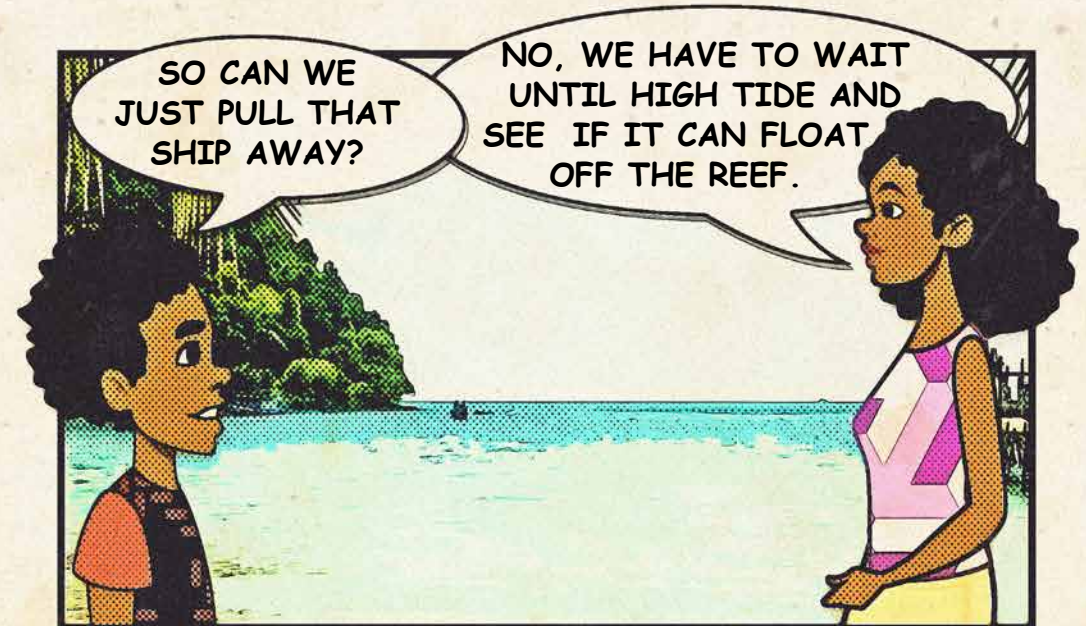


SINCE I WAS YOUR  
AGE MANA, WE HAVE BEEN  
SWIMMING AND FISHING HERE.

IT IS A SPECIAL PLACE.

THE REEF DROPS AWAY INTO  
A DEEP CHANNEL AND THAT IS  
WHERE THE BIG FISH ARE.

WE HAVE ALWAYS LOOKED AFTER  
IT AND NEVER TAKEN MORE  
THAN WE NEED.



SO CAN WE  
JUST PULL THAT  
SHIP AWAY?

NO, WE HAVE TO WAIT  
UNTIL HIGH TIDE AND  
SEE IF IT CAN FLOAT  
OFF THE REEF.



HOW  
LONG DO  
WE HAVE  
TO WAIT?  
I'M HUNGRY!

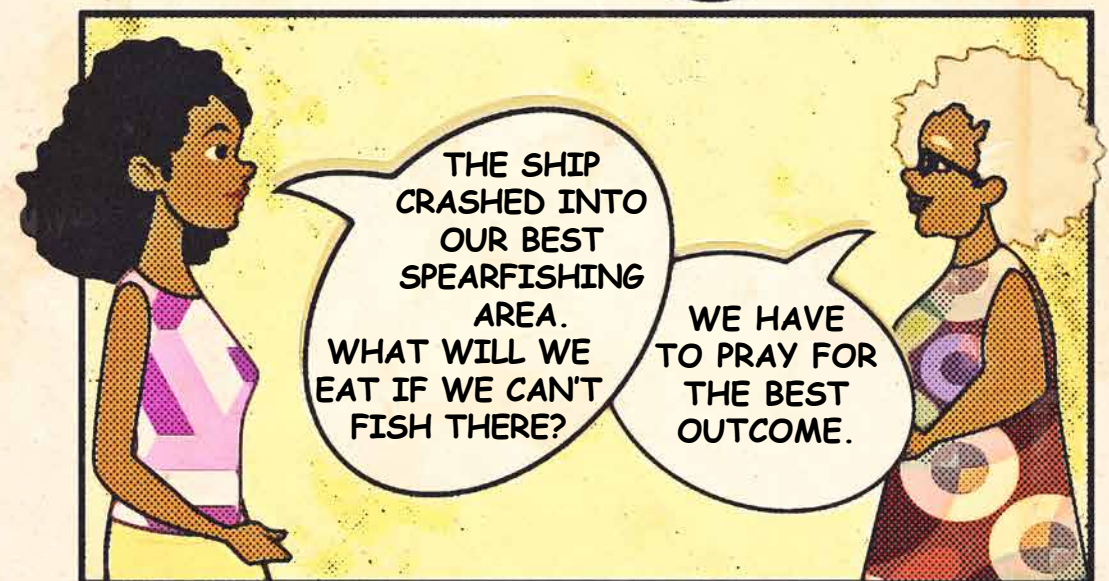
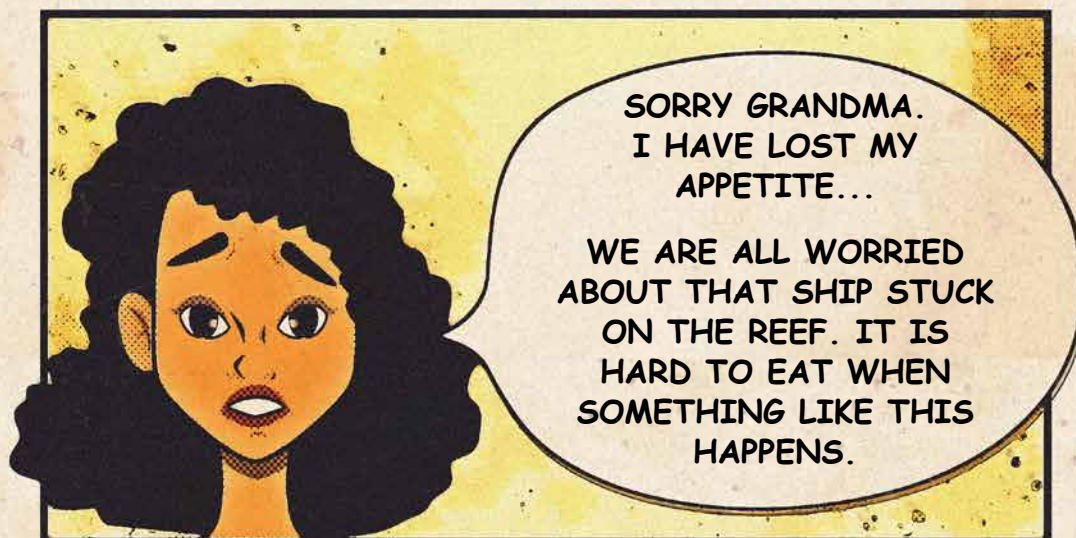
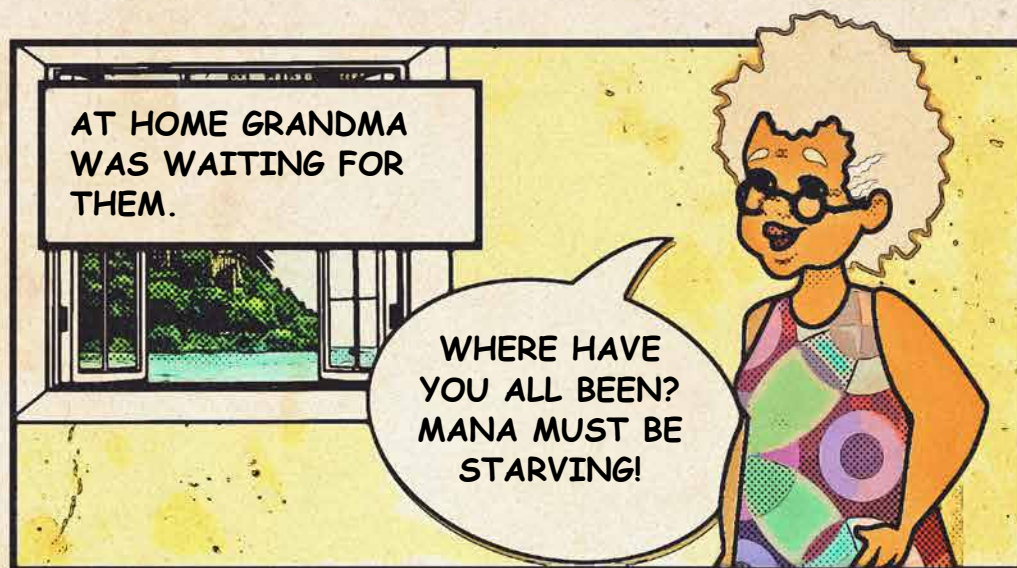


NO SURPRISES  
THERE! LET'S  
GO BACK HOME  
FOR BREAKFAST.



WITH THE THOUGHT OF  
BREAKFAST, MANA RAN HOME  
AT FULL SPEED.







IT HAD RISEN AND THE SHIP'S CAPTAIN HAD STARTED THE ENGINES.



THEY ARE NOT MOVING AT ALL... THIS IS NOT LOOKING GOOD.



I CAN'T WATCH THIS. THEY ARE DESTROYING THE REEF!



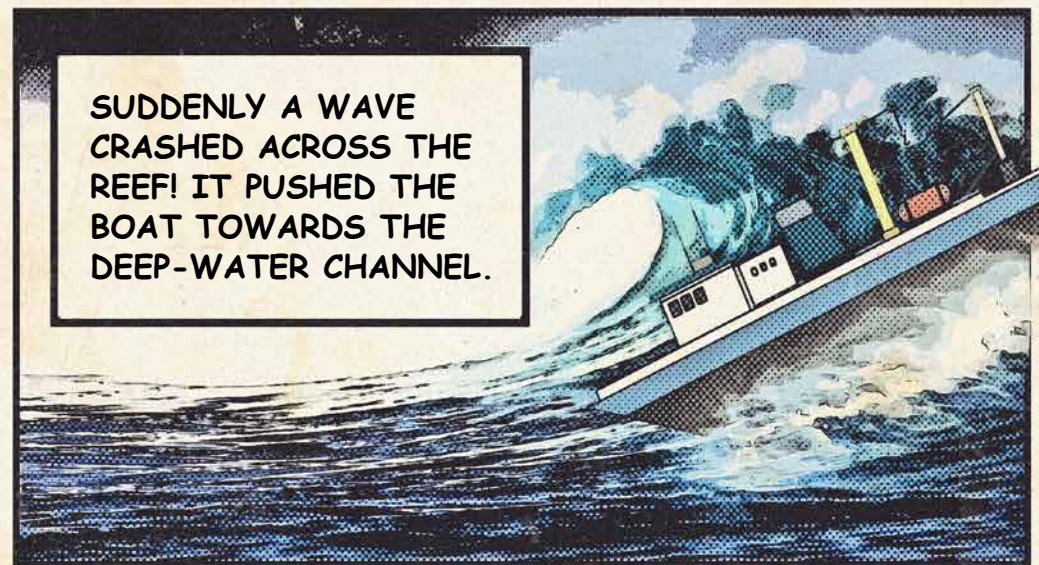
JUST WAIT, THE TIDE IS NOT FULL YET. IT IS GETTING HIGHER QUICKLY, MAYBE THEY CAN ESCAPE...



DON'T GIVE UP GUYS! REMEMBER WHAT GRANDMA SAID...



SUDDENLY A WAVE CRASHED ACROSS THE REEF! IT PUSHED THE BOAT TOWARDS THE DEEP-WATER CHANNEL.



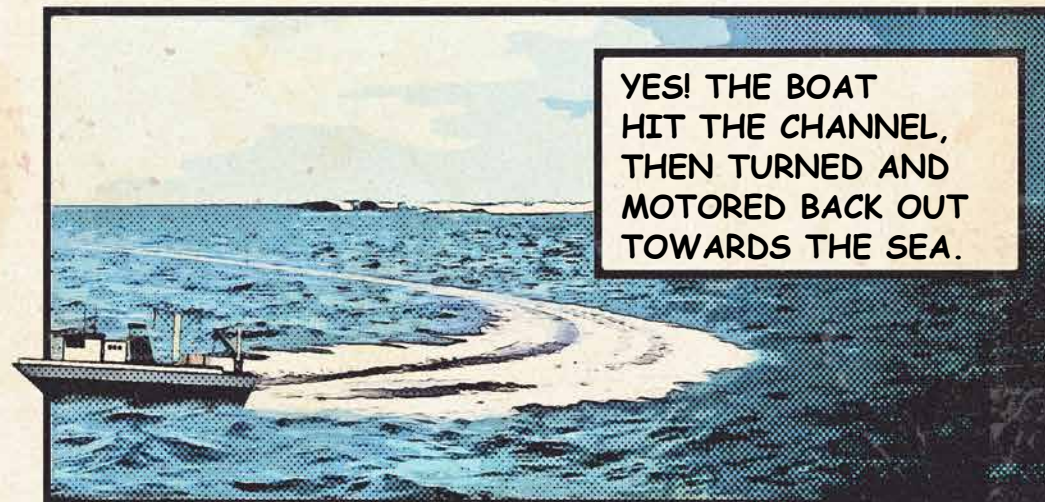
LOOK! THAT'S A BIG WAVE!



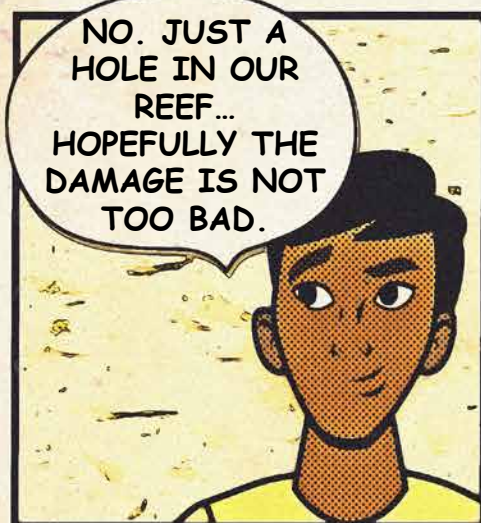
WILL IT PUSH THEM ALL THE WAY OFF THE REEF?



YES! THE BOAT HIT THE CHANNEL, THEN TURNED AND MOTORED BACK OUT TOWARDS THE SEA.









GRANDPA WAS OUT IN THE GARDENS.

HELLO!

I HEARD ALL ABOUT THE SHIP THAT RAN AGROUND. EVERYONE IS TALKING ABOUT IT!

WE JUST SWAM OUT THERE AND TOOK A LOOK.

THERE IS SOME DAMAGE TO THE REEF.

LUCKILY IT WAS NOT AS BAD AS IT COULD HAVE BEEN. THERE WAS NO OIL SPILL.

THAT IS GOOD TO KNOW.

BUT CAN I GIVE YOU SOME ADVICE?

OK. THIS IS WHAT WE WERE WAITING FOR!

NEXT WEEK, THERE WILL BE A BIG MEETING IN THE VILLAGE.

SOME PEOPLE ARE COMING TO HELP US PLAN FOR THINGS LIKE THIS.

WHICH PEOPLE DO YOU MEAN?

PROBABLY SOMEONE FROM MINISTRY OF MARINE RESOURCES. I AM SURE THEY CAN HELP!

BUT REALLY, IT IS UP TO US.

I AM MISSING THE ADVICE PART HERE...

OH YES. SO WHEN THEY COME, YOU SHOULD BOTH BE BRAVE ENOUGH TO TELL THEM WHAT YOU SAW TODAY.

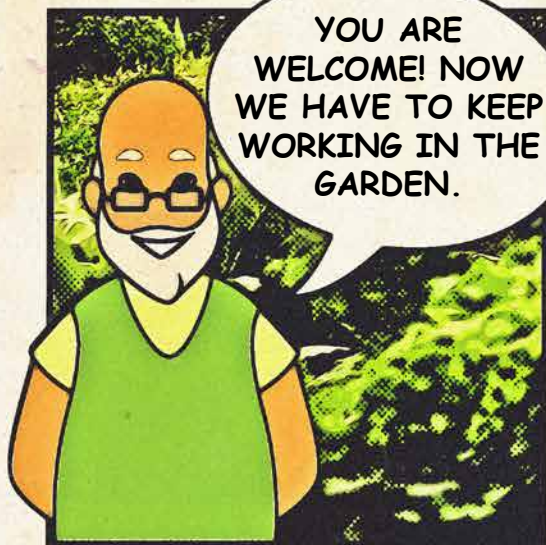
SURE! I CAN DO THAT. BUT THEN WHAT?

WELL, THEN THE WHOLE VILLAGE NEEDS TO DISCUSS THIS TOGETHER AND MAKE SOME DECISIONS ABOUT WHAT WE CAN DO. YOU BOTH NEED TO BE PART OF THAT TOO!

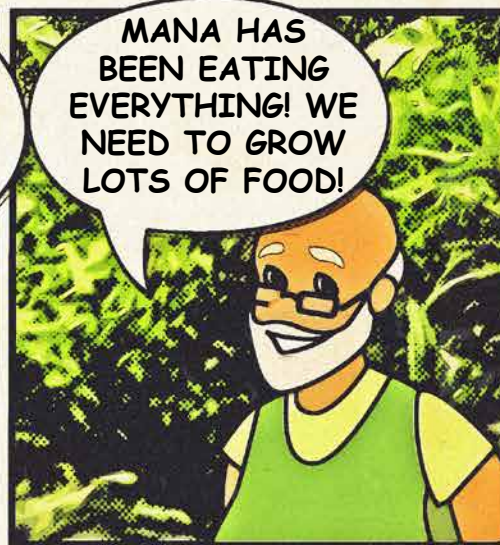




**YES!**  
WE CAN SPEAK  
TO ALL THE  
YOUNG PEOPLE IN  
THE COMMUNITY  
AND BRING THEIR  
VIEWS.  
THANKS PA!



YOU ARE  
WELCOME! NOW  
WE HAVE TO KEEP  
WORKING IN THE  
GARDEN.

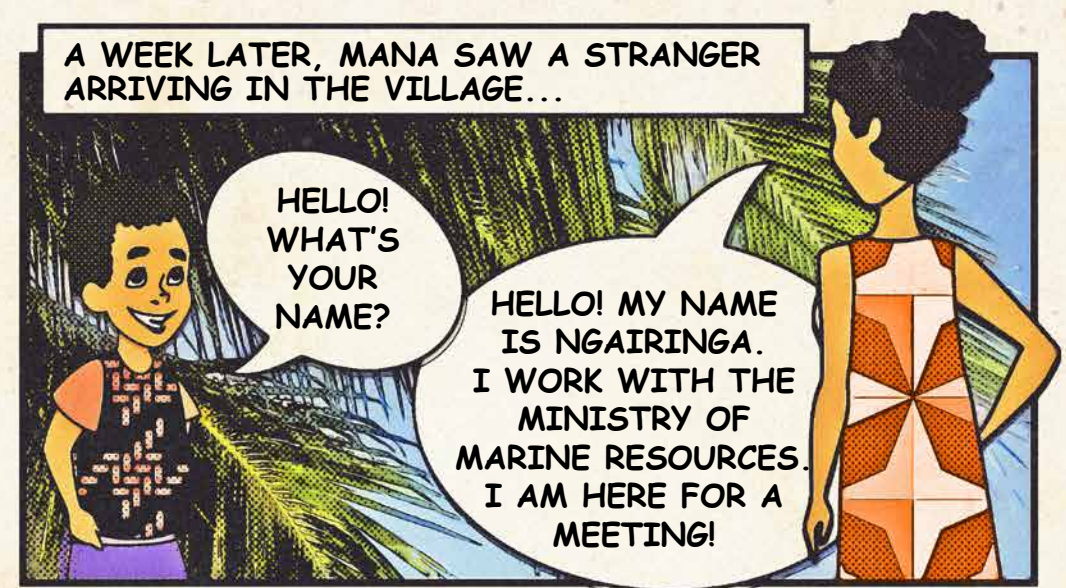


MANA HAS  
BEEN EATING  
EVERYTHING! WE  
NEED TO GROW  
LOTS OF FOOD!



AFTER MAREVA AND TEREPAI FINISHED HELPING,  
THEY MADE THEIR WAY BACK TO THE VILLAGE.

THEY HAD SO MUCH TO THINK  
ABOUT. THEY WERE QUIET THE  
WHOLE WAY HOME...



A WEEK LATER, MANA SAW A STRANGER  
ARRIVING IN THE VILLAGE...

HELLO!  
WHAT'S  
YOUR  
NAME?

HELLO! MY NAME  
IS NGAIRINGA.  
I WORK WITH THE  
MINISTRY OF  
MARINE RESOURCES.  
I AM HERE FOR A  
MEETING!



WE ARE  
GOING TO DISCUSS  
MARINE SPATIAL PLANNING,  
CLIMATE CHANGE, DEEP  
SEA MINING, ECOSYSTEMS,  
COMMUNITY GOVERNANCE  
AND THINGS LIKE THAT  
SO YOUR VILLAGE CAN  
SUSTAINABLY MANAGE  
YOUR RESOURCES!

I HAVE  
NO IDEA  
WHAT SHE IS  
SAYING...



THE AIM  
IS YOU WILL  
ALL BE SAFE AND  
ALWAYS HAVE  
ENOUGH FISH  
TO EAT.

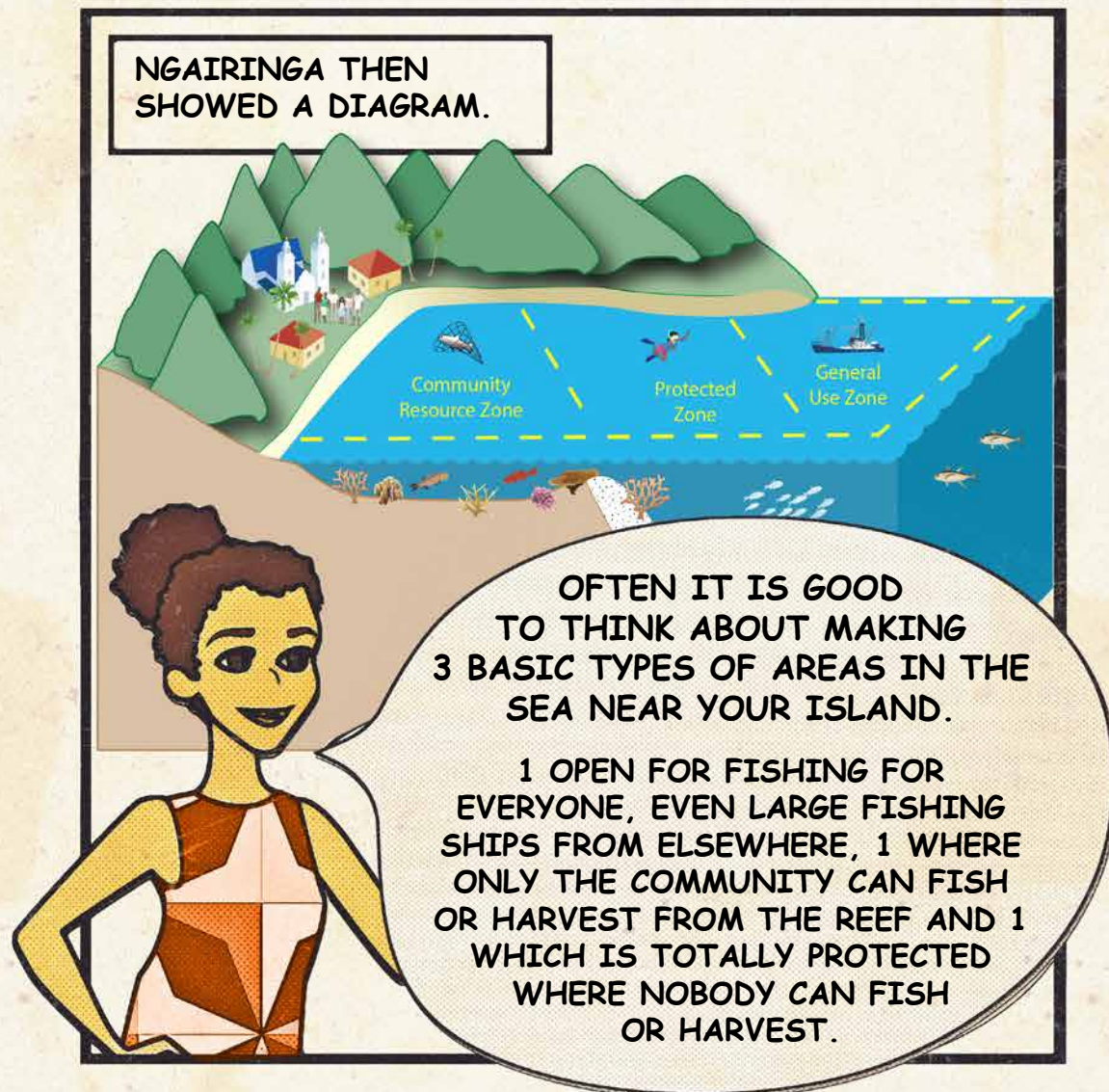
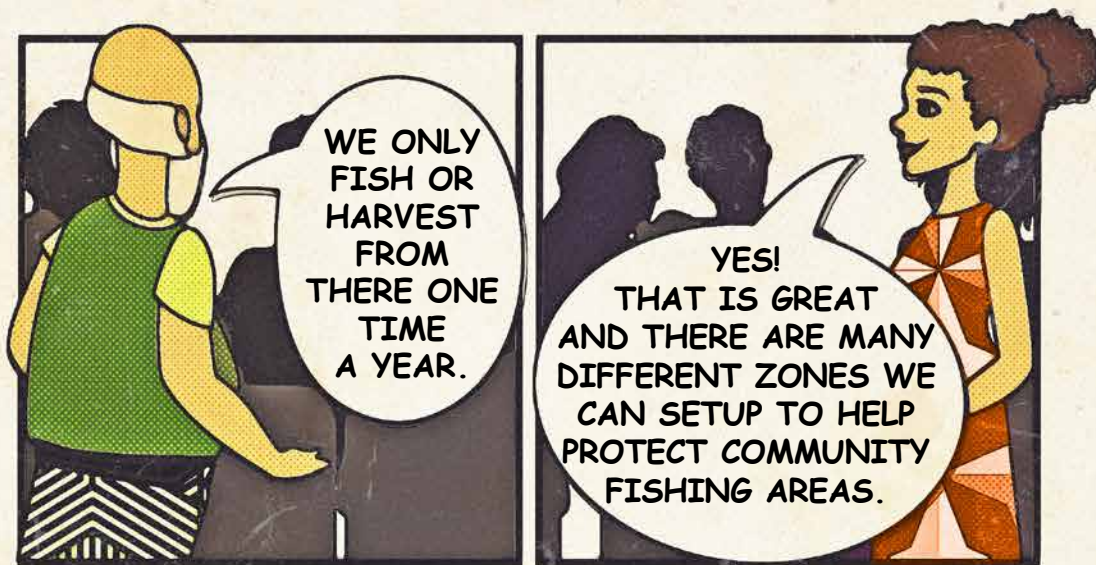


**EAT!!**  
VERY IMPORTANT!  
I AM GLAD  
YOU ARE HERE  
TO HELP!











NGAIRINGA DID NOT WANT TO MAKE MAREVA SAD, BUT SHE HAD TO EXPLAIN THAT THERE IS MUCH MORE TO IT THAN JUST OIL SPILLS...



LOOK, I WANT YOU TO BE INFORMED, BUT NOT ALARMED!

ANTI-FOULING PAINT IS ON THE BOTTOM OF MOST SHIPS. UNFORTUNATELY, WHEN IT IS SCRAPED OFF, IT CAN BE WORSE THAN AN OIL SPILL BECAUSE THIS TYPE OF PAINT IS TOXIC TO CORALS AND MOST LIVING THINGS...



SO THAT IS ON OUR REEF NOW?!

OH NO!

CAN PEOPLE PAINT SOMETHING ELSE ON THE HULLS OF SHIPS INSTEAD?



OH YES!

THERE ARE ALTERNATIVES, THEY JUST ARE NOT VERY COMMON YET.



AS USUAL, I LEAD BY EXAMPLE! I HAVE NEVER USED ANY ANTI-FOUL PAINT..



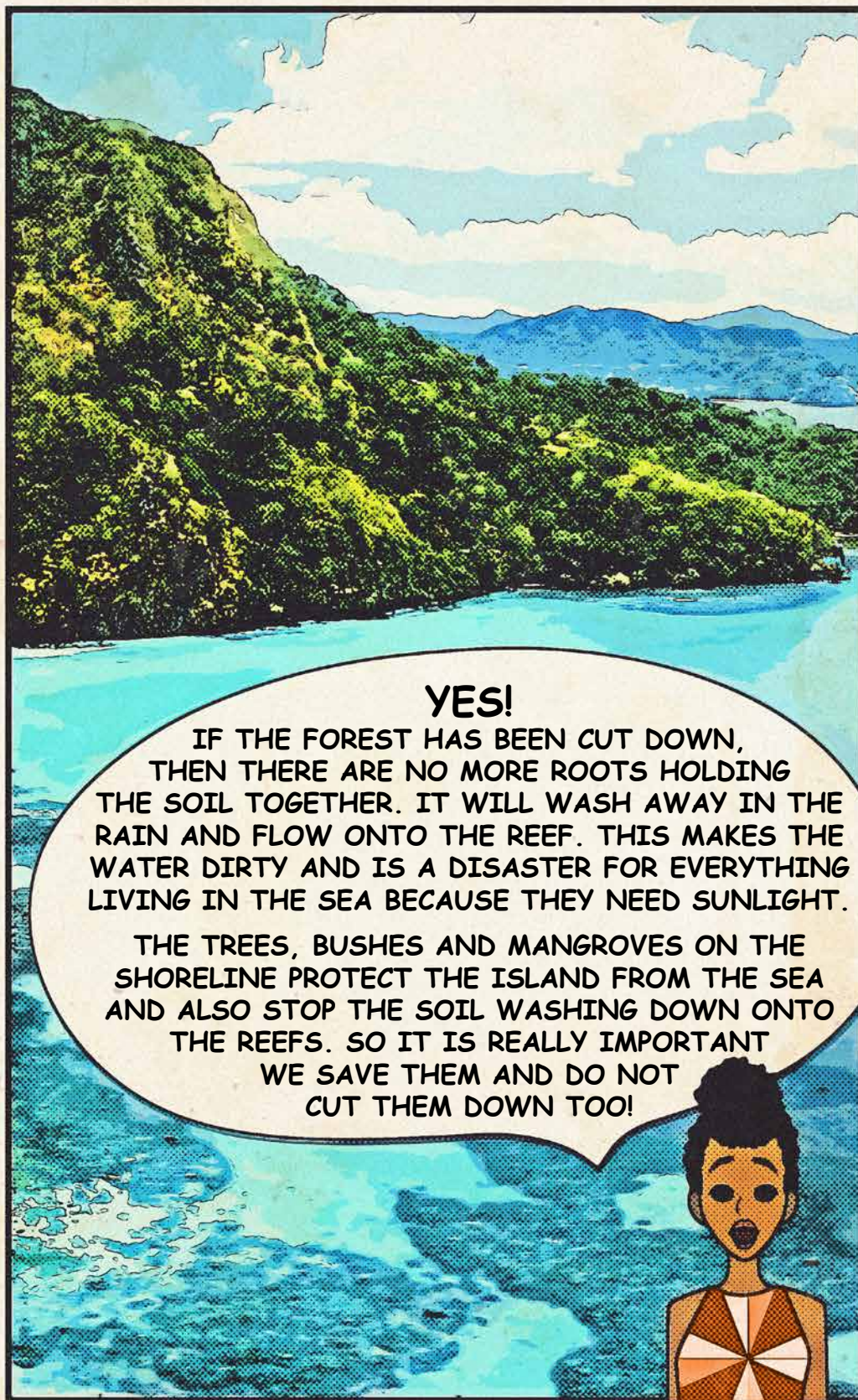
...AND THAT IS WHY MY OLD WOODEN CANOE IS MUCH BETTER!



..AND WHAT WE DO ON LAND IMPACTS OUR SEA ALSO RIGHT?







**YES!**

IF THE FOREST HAS BEEN CUT DOWN, THEN THERE ARE NO MORE ROOTS HOLDING THE SOIL TOGETHER. IT WILL WASH AWAY IN THE RAIN AND FLOW ONTO THE REEF. THIS MAKES THE WATER DIRTY AND IS A DISASTER FOR EVERYTHING LIVING IN THE SEA BECAUSE THEY NEED SUNLIGHT.

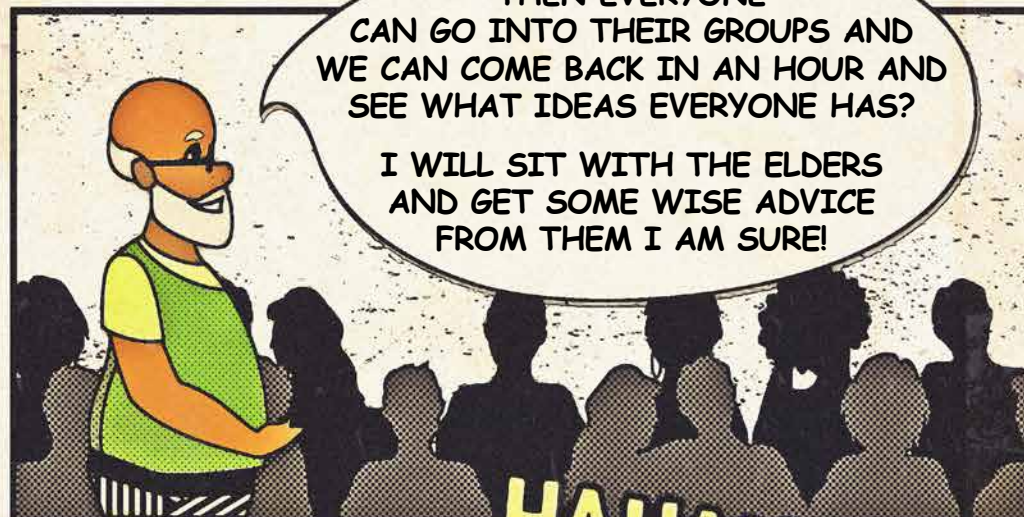
THE TREES, BUSHES AND MANGROVES ON THE SHORELINE PROTECT THE ISLAND FROM THE SEA AND ALSO STOP THE SOIL WASHING DOWN ONTO THE REEFS. SO IT IS REALLY IMPORTANT WE SAVE THEM AND DO NOT CUT THEM DOWN TOO!







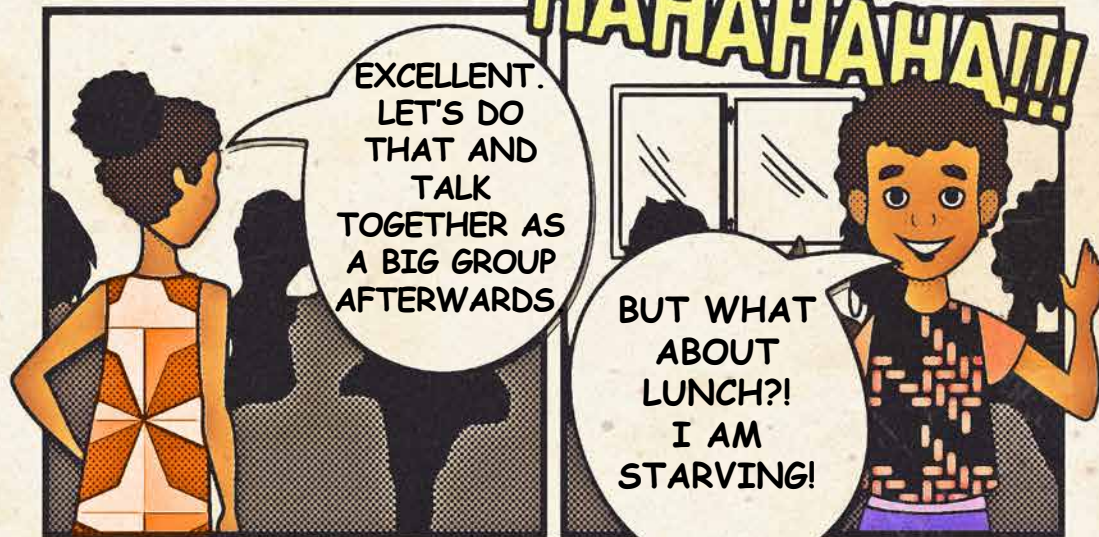
THERE ARE MANY PEOPLE WITH SPECIAL NEEDS IN OUR COMMUNITY TOO. LIKE EVERYONE ELSE HERE, WE WITH DISABILITIES RELY ON WHAT COMES FROM THE SEA AND THE ENVIRONMENT AROUND US. OF COURSE, THESE DECISIONS MATTER TO US ALL!



THEN EVERYONE CAN GO INTO THEIR GROUPS AND WE CAN COME BACK IN AN HOUR AND SEE WHAT IDEAS EVERYONE HAS?

I WILL SIT WITH THE ELDERS AND GET SOME WISE ADVICE FROM THEM I AM SURE!

**HAHAHAHA!!!**



EXCELLENT. LET'S DO THAT AND TALK TOGETHER AS A BIG GROUP AFTERWARDS

BUT WHAT ABOUT LUNCH?! I AM STARVING!



THE GROUPS DISCUSSED THE SEAS AROUND THEIR ISLAND.



AFTER A LONG SESSION, EVERYONE SAT TOGETHER AGAIN...

...AND SOMEONE FROM EACH GROUP PRESENTED THEIR GROUP'S IDEAS.



YOU ALL CERTAINLY CARE FOR YOUR REEFS AND THE SEA! IT IS GREAT TO HAVE SO MUCH KNOWLEDGE COME FROM EVERYONE HERE TODAY.

NOBODY KNOWS THIS AREA BETTER THAN THOSE WHO LIVE AND FISH HERE EVERY DAY.



NGAIRINGA THEN SHOWED A MAP.

NOW LET'S LOOK AT THE MAP OF YOUR ISLAND.

WE CAN MARK ALL YOUR IMPORTANT AREAS.

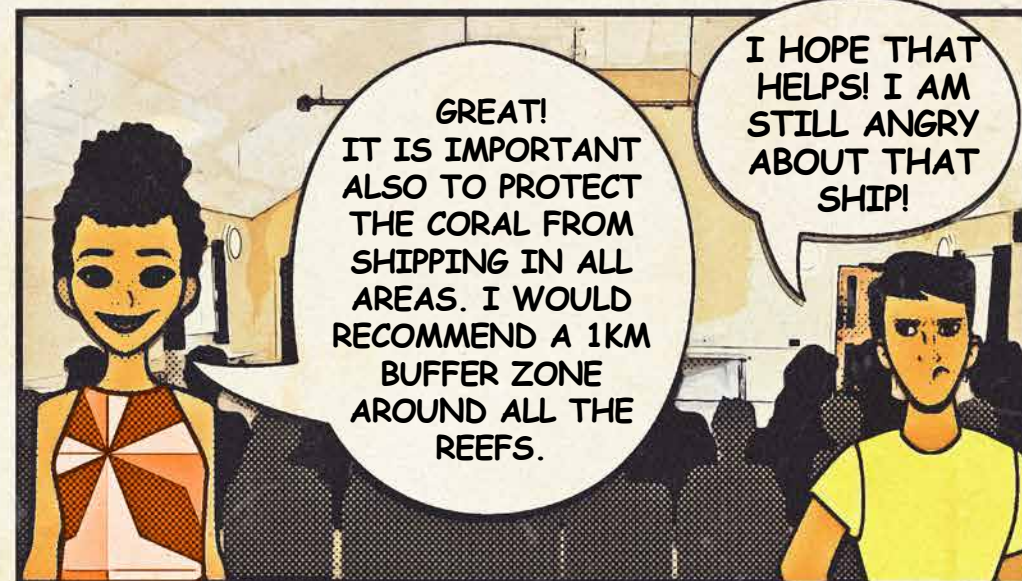
THEN THE LOCALS STARTED POINTING OUT PLACES ON THE MAP.

THESE AREAS CLOSE TO OUR VILLAGE SHOULD ONLY BE FOR COMMUNITY HARVESTING. THEY ARE VERY IMPORTANT FOR US!

COMMUNITY MEMBERS WITH DISABILITIES ARE OFTEN ONLY ABLE TO FISH FROM THE WHARF WE NEED THIS KEPT OPEN.

WE KNOW THAT IF WE SPEARFISH AT NIGHT, THE FISH NUMBERS DROP REALLY QUICKLY. CAN WE STOP THAT IN SOME AREAS?

WE ARE ALSO CONCERNED ABOUT DEEP SEA MINING... WE HOPE WE CAN PROTECT ALL OUR IMPORTANT AREAS FROM IT!



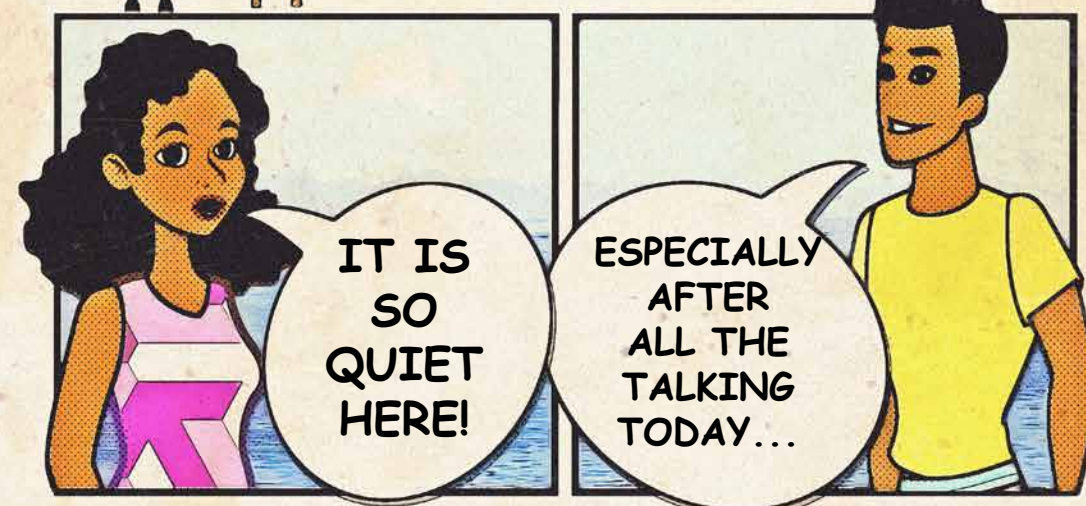
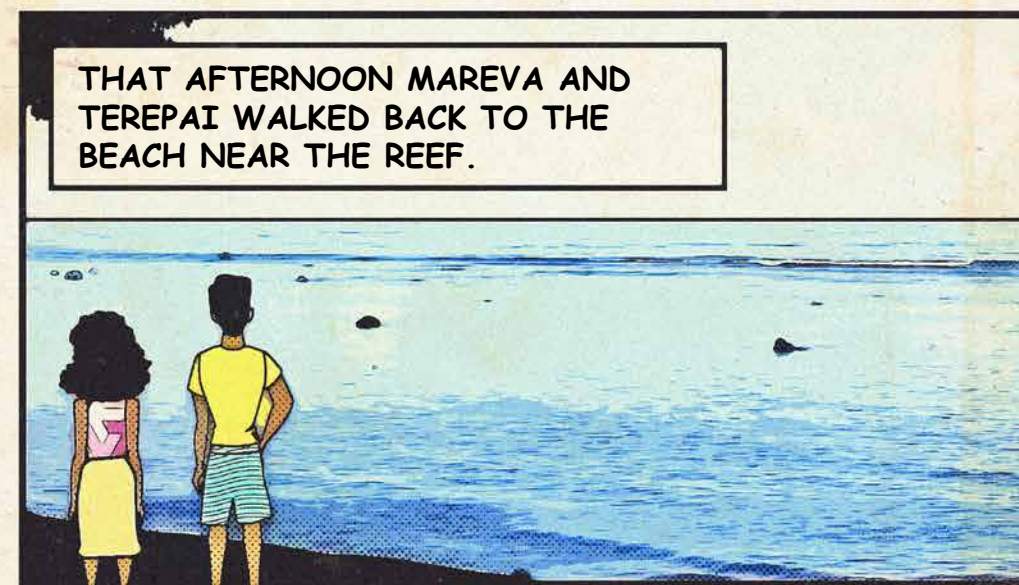
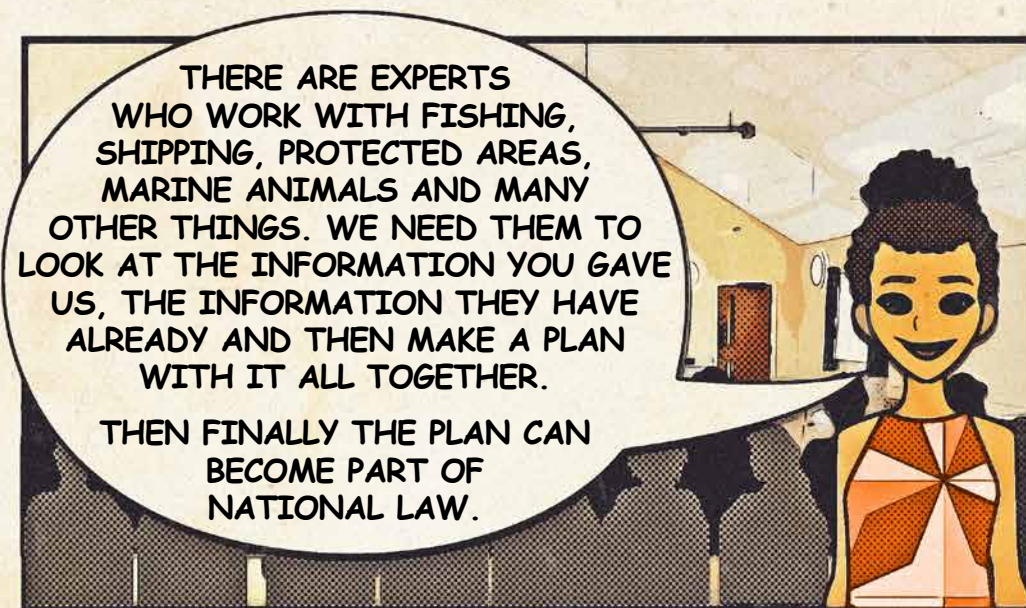
MAREVA POINTED AT THE MAP.

WE NEED LANES WHERE MIGRATING WHALES, TURTLES AND SEABIRDS CAN SAFELY FLY AND SWIM!

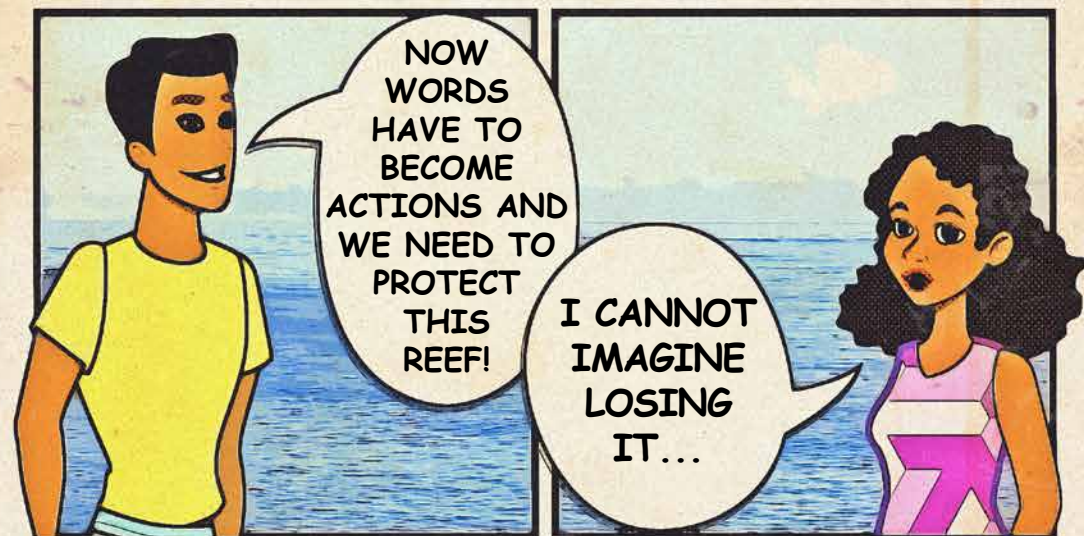
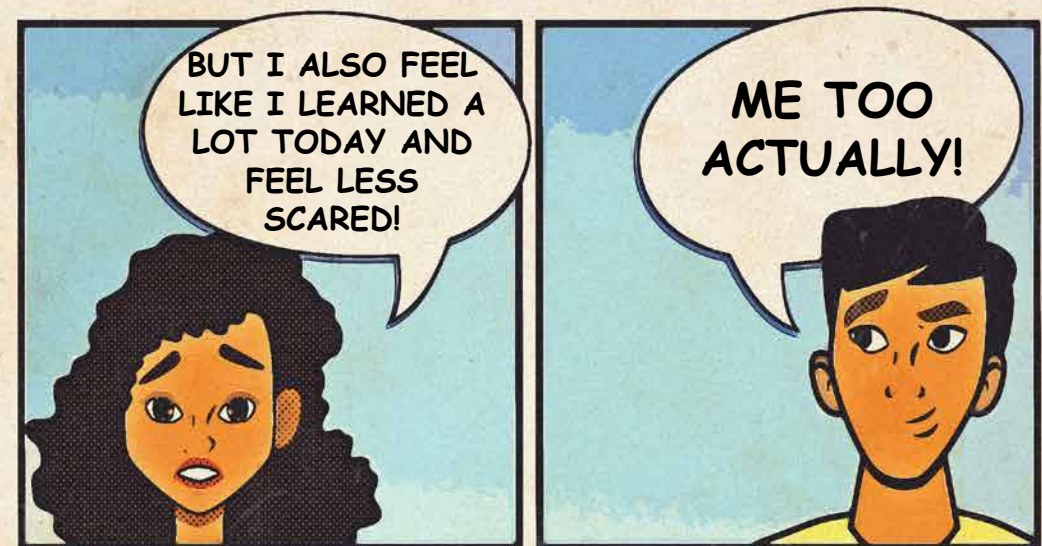
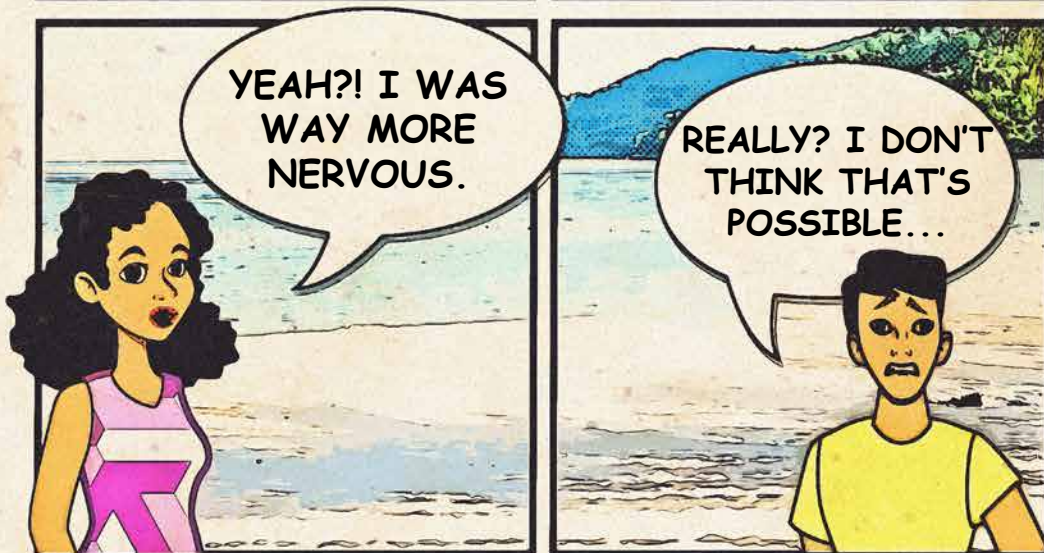
SO THEY WILL NOT BE HIT BY SHIPS OR END UP IN FISHING NETS.



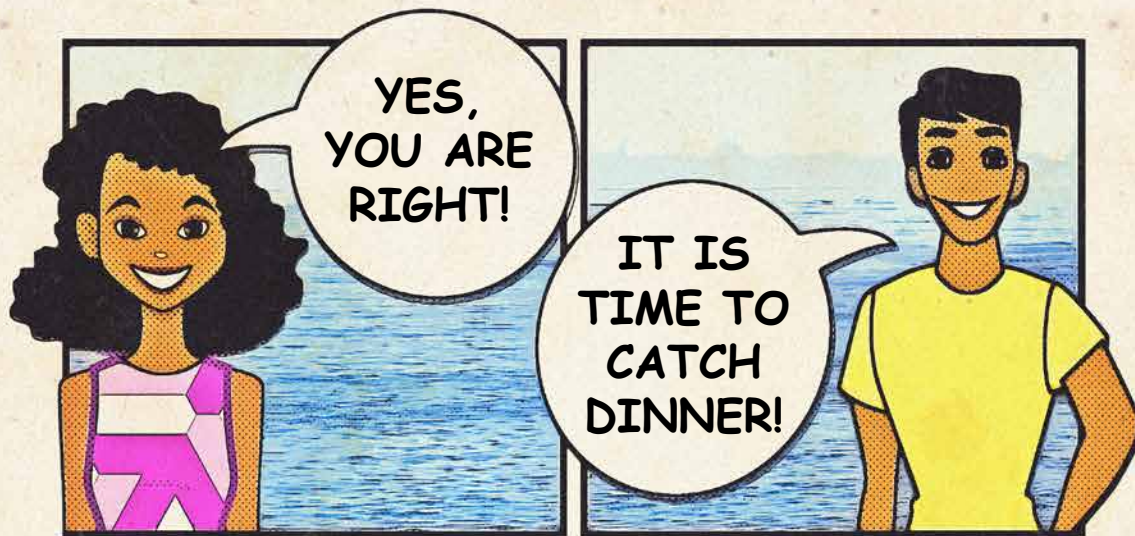




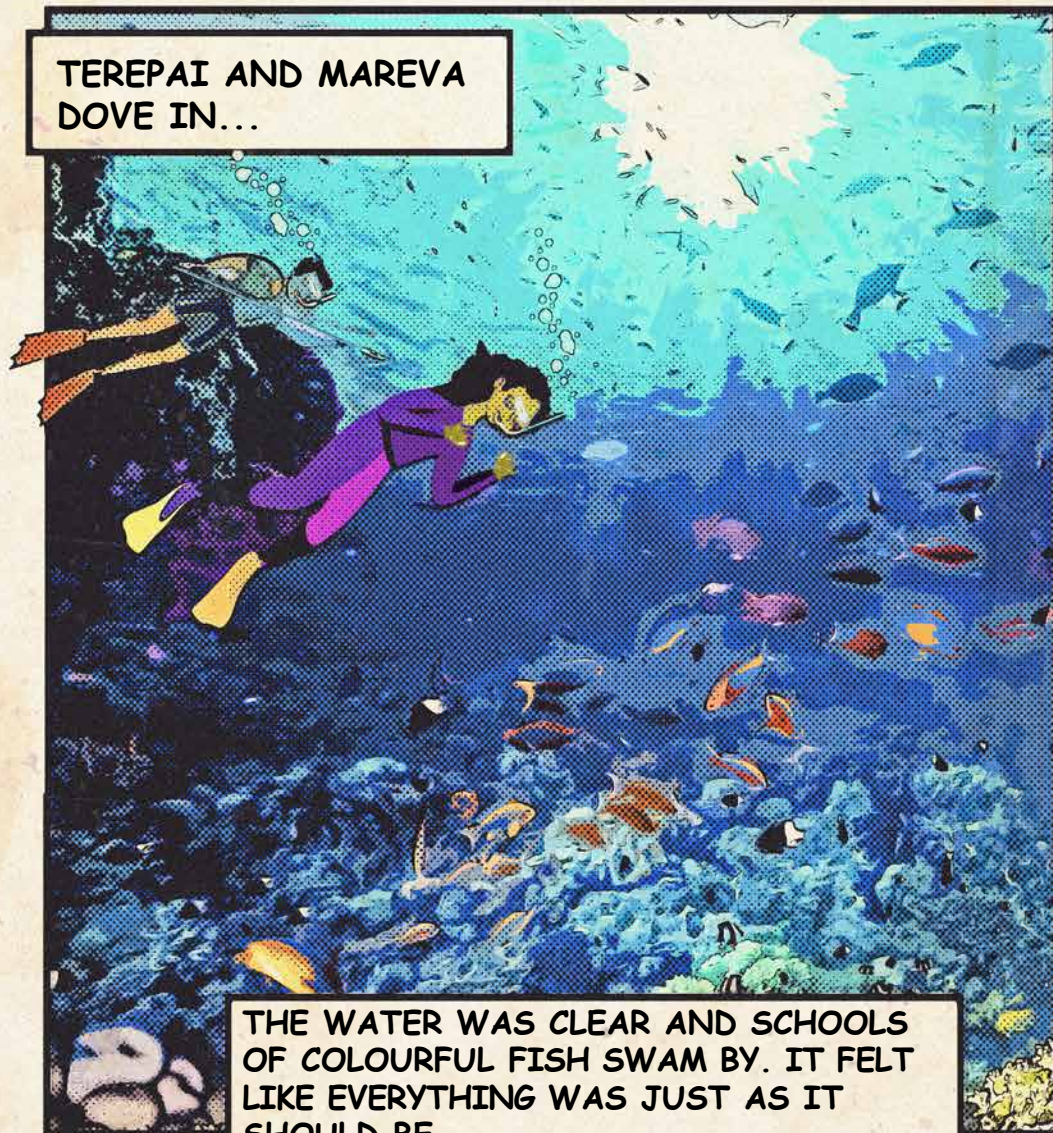








TEREPAI AND MAREVA  
DOVE IN...



## THE 10 STEP MARINE SPATIAL PLANNING PROCESS:



**STEP 1:** IDENTIFY NEED, POLITICAL WILL AND  
FINANCIAL SUPPORT



**STEP 2:** PREPARE AND IMPLEMENT A CONSULTATION  
PLAN



**STEP 3:** DEFINE VISION AND OBJECTIVES



**STEP 4:** GATHER AND MAP BASELINE DATA AND  
FUTURE CONDITIONS



**STEP 5:** IDENTIFY SPECIAL, UNIQUE MARINE AREAS



**STEP 6:** DEFINE DESIRED OCEAN ZONES



**STEP 7:** PREPARE GUIDELINES TO ASSIST ZONING  
DECISIONS



**STEP 8:** ESTABLISH THE LEGAL AND INSTITUTIONAL  
BASIS FOR MARINE SPATIAL PLANNING



**STEP 9:** PREPARE A DRAFT MARINE SPATIAL PLAN



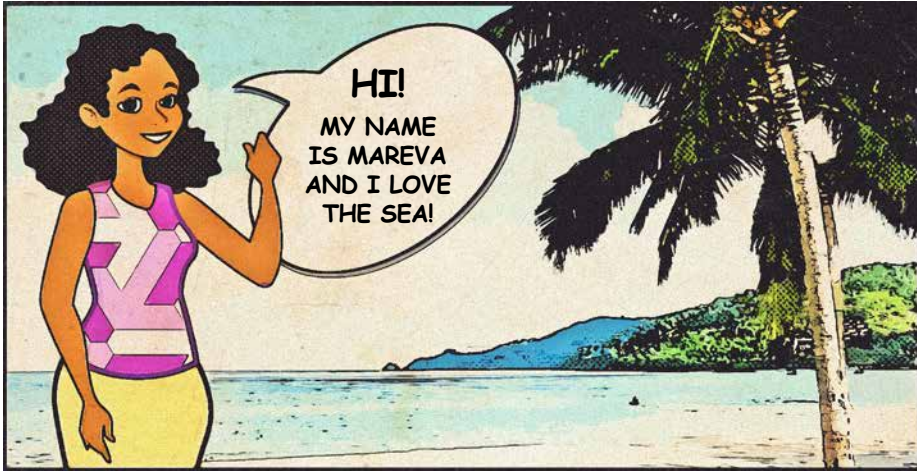
**STEP 10:** PREPARE AND IMPLEMENT THE FINAL  
MARINE SPATIAL PLAN

**DO YOU WANT MORE INFORMATION ABOUT  
THE 10-STEP PROCESS?**

THE PROCESS WAS DEVELOPED  
UNDER THE MACBIO PROJECT  
UNDERTAKEN BY GIZ, IUCN AND  
SPREP. THE DOCUMENT 'DEVELOPING  
A MARINE SPATIAL PLAN: A  
TOOLKIT FOR THE PACIFIC' CAN BE  
ACCESSED BY SCANNING THIS QR  
CODE WITH YOUR MOBILE:







**Join Mareva and her community as they learn about marine spatial planning in the Pacific.** In this story they witness a ship running aground and damaging their local reef. Then they become motivated to speak up about protecting their island and the ocean around it!

