

THANKS TO ALL THE PARTICIPANTS | LÚCIA JORGE, SANDRA LOBO CUNHA AND 10º CT1 AND 10º CT2 (2015/2016) ESCOLA SECUNDÁRIA DE GAMA BARROS STUDENTS: ALEXANDRE RAFAEL, ANA FUENTES, ANA MUYYA, ANDRÉ DANTAS, ANDREIA ASSUNÇÃO, ARTEMÍZIA SANTOS, CAROLINA MARTINS, CASSANDRA GOUVEIA, DÉBORA GASPAR, DIOGO CABRAL, DIOGO MONTEIRO, DIOGO NOGUEIRA, DIOGO PINTO, DIOGO VALENTE, FÁBIO MARTINS, FABIOLA FIGUEIREDO, GABRIEL LOURENÇO, GISELA LOPES, GONÇALO LUCAS, GONÇALO MERÊNCIO, IARA ALVES, INÉS MARQUES, JOÃO FÉLIX, JOÃO MORAIS, JOELCE TARELHO, MAFALDA ALVES, MARCELO LOPES, MARIA RITA PIRES, MARIANA DUARTE, MARIANA GOMES, MIGUEL RODRIGUES, NUNO AMARAL, OLÍVIA CARVALHO, PATRÍCIA LOPES, RAQUEL BERNARDINO, RICARDO CLEMENTE, RITA ELIAS, RITA FLORINDO, RITA MÁXIMO, RÚBEN RIBEIRO, RÚBEN RITO, TIAGO SOUSA, TIAGO OLIVEIRA, TOMÁS BRANDÃO, VASCO FONSECA, YÚRIA VAZ AND TOMÁS PEREIRA (LITTLE BOY), MAYA GABEIRA AND CARLOS BURLE (BIG WAVE SURFERS). RUI PEREIRA [SCIENTIFIC ANIMATIONS DESIGN] THE CONTRIBUTION OF JOSÉ PAULO PINTO AND JOÃO DUARTE FROM INSTITUTO HIDROGRÁFICO IS GRATEFULLY ACKNOWLEDGE. A SPECIAL THANKS TO GARRET MACNAMARA FOR MAKING THE STUDENTS BELIEVE IN THEIR DREAMS. PRODUCTION COMPANY [STORY:] THANK YOU. THANKS TO ALL THE PARTICIPANTS | LÚCIA JORGE, SANDRA LOBO CUNHA AND 10º CT1 AND 10º CT2 (2015/2016) ESCOLA SECUNDÁRIA DE GAMA BARROS STUDENTS: ALEXANDRE RAFAEL, ANA FUENTES, ANA MUYYA, ANDRÉ DANTAS, ANDREIA ASSUNÇÃO, ARTEMÍZIA SANTOS, CAROLINA MARTINS, CASSANDRA GOUVEIA, DÉBORA GASPAR, DIOGO CABRAL, DIOGO MONTEIRO, DIOGO NOGUEIRA, DIOGO PINTO, DIOGO VALENTE, FÁBIO MARTINS, FABIOLA FIGUEIREDO, GABRIEL LOURENÇO, GISELA LOPES, GONÇALO LUCAS, GONÇALO MERÊNCIO, IARA ALVES, INÉS MARQUES, JOÃO FÉLIX, JOÃO MORAIS, JOELCE TARELHO, MAFALDA ALVES, MARCELO LOPES, MARIA RITA PIRES, MARIANA DUARTE, MARIANA GOMES, MIGUEL RODRIGUES, NUNO AMARAL, OLÍVIA CARVALHO, PATRÍCIA LOPES, RAQUEL BERNARDINO, RICARDO CLEMENTE, RITA ELIAS, RITA FLORINDO, RITA MÁXIMO, RÚBEN RIBEIRO, RÚBEN RITO, TIAGO SOUSA, TIAGO OLIVEIRA, TOMÁS BRANDÃO, VASCO FONSECA, YÚRIA VAZ AND TOMÁS PEREIRA (LITTLE BOY), MAYA GABEIRA AND CARLOS BURLE (BIG WAVE SURFERS). RUI PEREIRA [SCIENTIFIC ANIMATIONS DESIGN] THE CONTRIBUTION OF JOSÉ PAULO PINTO AND JOÃO DUARTE FROM INSTITUTO HIDROGRÁFICO IS GRATEFULLY ACKNOWLEDGE. A SPECIAL THANKS TO GARRET MACNAMARA FOR MAKING THE STUDENTS BELIEVE IN THEIR DREAMS. PRODUCTION COMPANY [STORY:] THANK YOU. THANKS TO ALL THE PARTICIPANTS | LÚCIA JORGE, SANDRA LOBO CUNHA AND 10º CT1 AND 10º CT2 (2015/2016) ESCOLA SECUNDÁRIA DE GAMA BARROS STUDENTS: ALEXANDRE RAFAEL, ANA FUENTES, ANA MUYYA, ANDRÉ DANTAS, ANDREIA ASSUNÇÃO, ARTEMÍZIA SANTOS, CAROLINA MARTINS, CASSANDRA GOUVEIA, DÉBORA GASPAR, DIOGO CABRAL, DIOGO MONTEIRO, DIOGO NOGUEIRA, DIOGO PINTO, DIOGO VALENTE, FÁBIO MARTINS, FABIOLA FIGUEIREDO, GABRIEL LOURENÇO, GISELA LOPES, GONÇALO LUCAS, GONÇALO MERÊNCIO, IARA ALVES, INÉS MARQUES, JOÃO FÉLIX, JOÃO MORAIS, JOELCE TARELHO, MAFALDA ALVES, MARCELO LOPES, MARIA RITA PIRES, MARIANA DUARTE, MARIANA GOMES, MIGUEL RODRIGUES, NUNO AMARAL, OLÍVIA CARVALHO, PATRÍCIA LOPES, RAQUEL BERNARDINO, RICARDO CLEMENTE, RITA ELIAS, RITA FLORINDO, RITA MÁXIMO, RÚBEN RIBEIRO, RÚBEN RITO, TIAGO SOUSA, TIAGO OLIVEIRA, TOMÁS BRANDÃO, VASCO FONSECA, YÚRIA VAZ AND TOMÁS PEREIRA (LITTLE BOY), MAYA GABEIRA AND CARLOS BURLE (BIG WAVE SURFERS). RUI PEREIRA [SCIENTIFIC ANIMATIONS DESIGN] THE CONTRIBUTION OF JOSÉ PAULO PINTO AND JOÃO DUARTE FROM INSTITUTO HIDROGRÁFICO IS GRATEFULLY ACKNOWLEDGE. A SPECIAL THANKS TO GARRET MACNAMARA FOR MAKING THE STUDENTS BELIEVE IN THEIR DREAMS. PRODUCTION COMPANY [STORY:] THANK YOU. THANKS TO ALL THE PARTICIPANTS | LÚCIA JORGE, SANDRA LOBO CUNHA AND 10º CT1 AND 10º CT2 (2015/2016) ESCOLA SECUNDÁRIA DE GAMA BARROS STUDENTS: ALEXANDRE RAFAEL, ANA FUENTES, ANA MUYYA, ANDRÉ DANTAS, ANDREIA ASSUNÇÃO, ARTEMÍZIA SANTOS, CAROLINA MARTINS, CASSANDRA GOUVEIA, DÉBORA GASPAR, DIOGO CABRAL, DIOGO MONTEIRO, DIOGO NOGUEIRA, DIOGO PINTO, DIOGO VALENTE, FÁBIO MARTINS, FABIOLA FIGUEIREDO, GABRIEL LOURENÇO, GISELA LOPES, GONÇALO LUCAS, GONÇALO MERÊNCIO, IARA ALVES, INÉS MARQUES, JOÃO FÉLIX, JOÃO MORAIS, JOELCE TARELHO, MAFALDA ALVES, MARCELO LOPES, MARIA RITA PIRES, MARIANA DUARTE, MARIANA GOMES, MIGUEL RODRIGUES, NUNO AMARAL, OLÍVIA CARVALHO, PATRÍCIA LOPES, RAQUEL BERNARDINO, RICARDO CLEMENTE, RITA ELIAS, RITA FLORINDO, RITA MÁXIMO, RÚBEN RIBEIRO, RÚBEN RITO, TIAGO SOUSA, TIAGO OLIVEIRA, TOMÁS BRANDÃO, VASCO FONSECA, YÚRIA VAZ AND TOMÁS PEREIRA (LITTLE BOY), MAYA GABEIRA AND CARLOS BURLE (BIG WAVE SURFERS). RUI PEREIRA [SCIENTIFIC ANIMATIONS DESIGN] THE CONTRIBUTION OF JOSÉ PAULO PINTO AND JOÃO DUARTE FROM INSTITUTO HIDROGRÁFICO IS GRATEFULLY ACKNOWLEDGE. A SPECIAL THANKS TO GARRET MACNAMARA FOR MAKING THE STUDENTS BELIEVE IN THEIR DREAMS. PRODUCTION COMPANY [STORY:] THANK YOU. THANKS TO ALL THE PARTICIPANTS | LÚCIA JORGE, SANDRA LOBO CUNHA AND 10º CT1 AND 10º CT2 (2015/2016) ESCOLA SECUNDÁRIA DE GAMA BARROS STUDENTS: ALEXANDRE RAFAEL, ANA FUENTES, ANA MUYYA, ANDRÉ DANTAS, ANDREIA ASSUNÇÃO, ARTEMÍZIA SANTOS, CAROLINA MARTINS, CASSANDRA GOUVEIA, DÉBORA GASPAR, DIOGO CABRAL, DIOGO MONTEIRO, DIOGO NOGUEIRA, DIOGO PINTO, DIOGO VALENTE, FÁBIO MARTINS, FABIOLA FIGUEIREDO, GABRIEL LOURENÇO, GISELA LOPES, GONÇALO LUCAS, GONÇALO MERÊNCIO, IARA ALVES, INÉS MARQUES, JOÃO FÉLIX, JOÃO MORAIS, JOELCE TARELHO, MAFALDA ALVES, MARCELO LOPES, MARIA RITA PIRES, MARIANA DUARTE, MARIANA GOMES, MIGUEL RODRIGUES, NUNO AMARAL, OLÍVIA CARVALHO, PATRÍCIA LOPES, RAQUEL BERNARDINO, RICARDO CLEMENTE, RITA ELIAS, RITA FLORINDO, RITA MÁXIMO, RÚBEN RIBEIRO, RÚBEN RITO, TIAGO SOUSA, TIAGO OLIVEIRA, TOMÁS BRANDÃO, VASCO FONSECA, YÚRIA VAZ AND TOMÁS PEREIRA (LITTLE BOY), MAYA GABEIRA AND CARLOS BURLE (BIG WAVE SURFERS). RUI PEREIRA [SCIENTIFIC ANIMATIONS DESIGN] THE CONTRIBUTION OF JOSÉ PAULO PINTO AND JOÃO DUARTE FROM INSTITUTO HIDROGRÁFICO IS GRATEFULLY ACKNOWLEDGE. A SPECIAL THANKS TO GARRET MACNAMARA FOR MAKING THE STUDENTS BELIEVE IN THEIR DREAMS. PRODUCTION COMPANY [STORY:] THANK YOU.

WATCH THE MAKING OF  
HERE!



2016  
OCEAN  
SCIENCES  
MEETING

# THE NAZARÉ WAVE | A TRIGGER FOR LEARNING

## THE IMPORTANCE OF SCIENTIFIC KNOWLEDGE INTEGRATION IN OCEAN MANAGEMENT

IT IS CONSENSUAL THAT OCEAN MANAGEMENT FACES RELEVANT SUSTAINABILITY CHALLENGES AND THAT A WISER GOVERNANCE OF THE OCEANS CAN ONLY BE ACHIEVED BY THE INVOLVEMENT OF ALL KEY-PLAYERS. IN THIS SCOPE SCIENTISTS, AS KNOWLEDGE GENERATORS, HAVE A VITAL ROLE IN OCEAN GOVERNANCE. SCIENTISTS ARE THEREFORE CALLED TO SHARE THEIR KNOWLEDGE OUTSIDE THE SCIENTIFIC COMMUNITY. THIS EFFORT WILL CONTRIBUTE TO A MORE INFORMED SOCIETY, WHICH IN TURN WILL BE ABLE TO MAKE BETTER DECISIONS.

## THE ROLE OF COMMUNICATION TRIGGERS IN SCIENTIFIC KNOWLEDGE TRANSFER:

COMMUNICATING SCIENCE CAN BE A VERY CHALLENGING TASK FOR SCIENTIST AS IS OFTEN NECESSARY TO INSPIRE THE AUDIENCES AND ASSURE THEIR RECEPTIVITY, WHICH MAY NOT BE TUNED TO SCIENTIFIC CONTENTS. "THE NAZARÉ WAVE: A TRIGGER FOR LEARNING" PROJECT FOCUSES ON THE IMPORTANCE OF THE USE OF COMMUNICATION TRIGGERS IN SCIENTIFIC KNOWLEDGE TRANSFER IN OCEAN SCIENCES. IN THIS PROJECT, THE NAZARÉ WAVE - THE HIGHEST WAVE EVER SURFED - WAS USED AS THE COMMUNICATION TRIGGER AIMING TO CAPTURE THE ATTENTION OF HIGH - SCHOOL STUDENTS AS IT IS A VERY POPULAR SUBJECT WITH THE MEDIA AND IS GIVEN GREAT MEDIA COVERAGE.

## GETTING THE SCIENTIFIC MESSAGE ACROSS TRIGGERS IN COMMUNICATION AND FRAMING AS KEY ENABLERS FOR SUCCESS

THE NAZARÉ WAVE REVEALED TO BE AN EXCELLENT TRIGGER FOR THE TRANSFER OF SCIENTIFIC KNOWLEDGE ON BASIC WAVE DYNAMICS TO THE STUDENTS. HOWEVER, ADDITIONALLY TO THE THEME ITSELF, IT WAS FOUND THAT SHORT SCIENTIFIC ANIMATION VIDEOS VOICED-OVER BY STUDENTS PERFORMED VERY WELL AS THE COMMUNICATION CHANNEL. THE SCRIPTS USED WERE WRITTEN BY SCIENTISTS AND COMMENTED BY THE STUDENTS, PREVIOUSLY TO RECORDING, ASSURING THAT THE ADEQUATE LANGUAGE WAS USED AND THAT THE ESSENTIAL PRINCIPLES AND FUNDAMENTAL CONCEPTS OF WAVES REACH THE AUDIENCE. RESULTS OF USING THE NAZARÉ WAVE AS A COMMUNICATION TRIGGER AND FRAMING THE MESSAGE TO BE CONVEYED USING SCIENTIFIC ANIMATION VIDEOS HAVE BEEN EXTREMELY POSITIVE AND RESULTED IN A WELL-SUCCEEDED ENGAGEMENT PLATFORM.



THE NAZARÉ WAVE: A TRIGGER FOR LEARNING PROJECT IS FUNDED BY THE EUROPEAN ECONOMIC AREA FINANCIAL MECHANISM IN THE FRAMEWORK OF THE PROGRAMME PT02 - INTEGRATED MARINE AND COASTAL WATER MANAGEMENT (#PT02\_2°RPS\_0008). MAFALDA M. CARAPUÇO IS SUPPORTED BY PHD GRANTS SFRH/BD/82223/ FUNDED BY THE PORTUGUESE FUNDAÇÃO PARA A CIÊNCIA E TECNOLOGIA - FCT AND INSTITUTO DOM LUIZ - IDL (UID/GEO/50019/2013). RUI PEREIRA [GRAPHIC DESIGN COMPOSITION].

MOVIE AVAILABLE  
HERE!



LOOK!



FOLLOW US IN FACEBOOK:  
[HTTPS://WWW.FACEBOOK.COM/NAZAREWAVEPROJECT/](https://www.facebook.com/nazarewaveproject/)  
WEBSITE: [HTTP://NAZAREWAVE.FC.U.L.PT](http://nazarewave.fc.ul.pt)



THANKS TO ALL THE PARTICIPANTS | LÚCIA JORGE, SANDRA LOBO CUNHA AND 10º CT1 AND 10º CT2 (2015/2016) ESCOLA SECUNDÁRIA DE GAMA BARROS STUDENTS: ALEXANDRE RAFAEL, ANA FUENTES, ANA MUYYA, ANDRÉ DANTAS, ANDREIA ASSUNÇÃO, ARTEMÍZIA SANTOS, CAROLINA MARTINS, CASSANDRA GOUVEIA, DÉBORA GASPAR, DIOGO CABRAL, DIOGO MONTEIRO, DIOGO NOGUEIRA, DIOGO PINTO, DIOGO VALENTE, FÁBIO MARTINS, FABIOLA FIGUEIREDO, GABRIEL LOURENÇO, GISELA LOPES, GONÇALO LUCAS, GONÇALO MERÊNCIO, IARA ALVES, INÉS MARQUES, JOÃO FÉLIX, JOÃO MORAIS, JOELCE TARELHO, MAFALDA ALVES, MARCELO LOPES, MARIA RITA PIRES, MARIANA DUARTE, MARIANA GOMES, MIGUEL RODRIGUES, NUNO AMARAL, OLÍVIA CARVALHO, PATRÍCIA LOPES, RAQUEL BERNARDINO, RICARDO CLEMENTE, RITA ELIAS, RITA FLORINDO, RITA MÁXIMO, RÚBEN RIBEIRO, RÚBEN RITO, TIAGO SOUSA, TIAGO OLIVEIRA, TOMÁS BRANDÃO, VASCO FONSECA, YÚRIA VAZ AND TOMÁS PEREIRA (LITTLE BOY), MAYA GABEIRA AND CARLOS BURLE (BIG WAVE SURFERS). RUI PEREIRA [SCIENTIFIC ANIMATIONS DESIGN] THE CONTRIBUTION OF JOSÉ PAULO PINTO AND JOÃO DUARTE FROM INSTITUTO HIDROGRÁFICO IS GRATEFULLY ACKNOWLEDGE. A SPECIAL THANKS TO GARRET MACNAMARA FOR MAKING THE STUDENTS BELIEVE IN THEIR DREAMS. PRODUCTION COMPANY [STORY:] THANK YOU.