

EIRSAT-1

IRELAND'S FIRST STEPS INTO SPACE



BREEN

ROBINSON



STORY

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UNIVERSITY COLLEGE DUBLIN. PRESENT DAY.

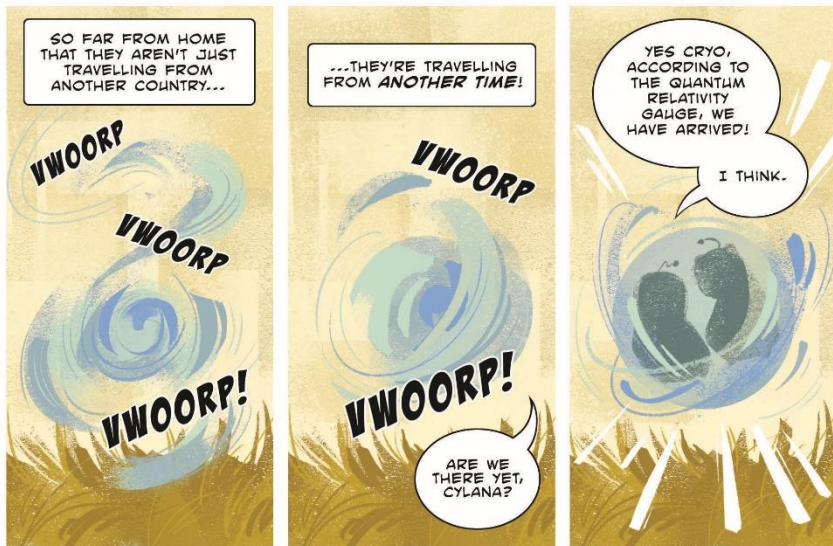
UNIVERSITY COLLEGE DUBLIN IS HOME TO
OVER **THIRTY THOUSAND** STUDENTS.

AND UCD'S STUDENTS DON'T JUST COME
FROM IRELAND, YOU KNOW. THERE ARE
ALL SORTS OF STUDENTS FROM EVERY
BACKGROUND THAT COME FROM ALL
OVER THE WORLD TO STUDY TOGETHER.



BUT TONIGHT, THE CAMPUS IS
ABOUT TO HAVE A VISIT FROM
TWO EXCHANGE STUDENTS...

...WHO ARE **VERY
FAR** FROM HOME.



SO FAR FROM HOME THAT THEY AREN'T JUST TRAVELLING FROM ANOTHER COUNTRY...

...THEY'RE TRAVELLING FROM ANOTHER TIME!

YES CRYO, ACCORDING TO THE QUANTUM RELATIVITY GAUGE, WE HAVE ARRIVED!

I THINK.

ARE WE THERE YET, CYLANA?



CYLANA AND CRYO, TWO ROBOT EXPLORERS FROM THE EUROPEAN SPACE AGENCY FROM THE YEAR 3000!

HOW HAVE YOU ENJOYED YOUR 21ST CENTURY IRELAND, CRYO?

HERE WE ARE! THE LAST STOP ON OUR CURRENT HISTORICAL TIME SURVEY!

IT'S BEEN GREAT, CYLANA!



WE'VE GOTTEN TO SEE CROKE PARK, NEWGRANGE AND SKELLIG MICHAEL!

BUT MY FAVOURITE BIT WAS WHEN WE WENT TO DAIL EIREANN. I DIDN'T REALISE POLITICS WOULD BE SO MUCH FUN!



I KEEP TELLING YOU, CRYO, THAT WASN'T THE DAIL, THAT WAS DUBLIN ZOO!

OH YEAH?

WELL WHY DID THAT GIRAFFE ASK FOR MY VOTE?

I GIVE UP.



ANYWAY, IF YOU LIKED ALL THAT STUFF, YOU ARE GOING TO LOVE THIS!

YEAH, WHY ARE WE IN UCD ANYWAY? WHAT HAPPENS THIS YEAR?

WE BETTER BE QUICK THOUGH, WE ONLY HAVE A FEW MINUTES BEFORE THE TIME PORTAL OPENS AGAIN TO TAKE US HOME.



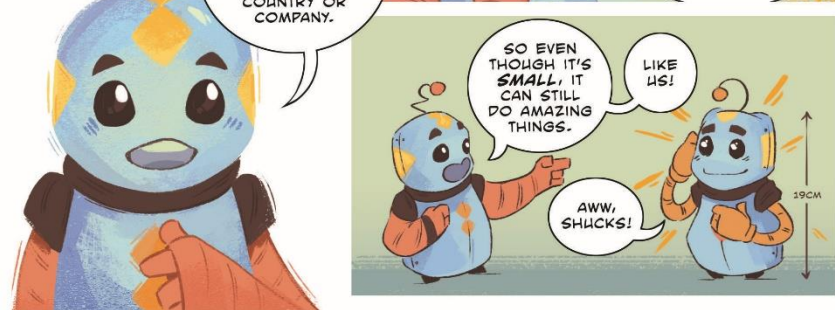
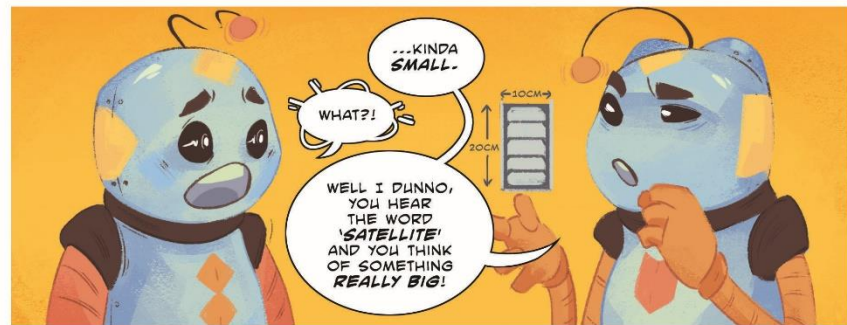
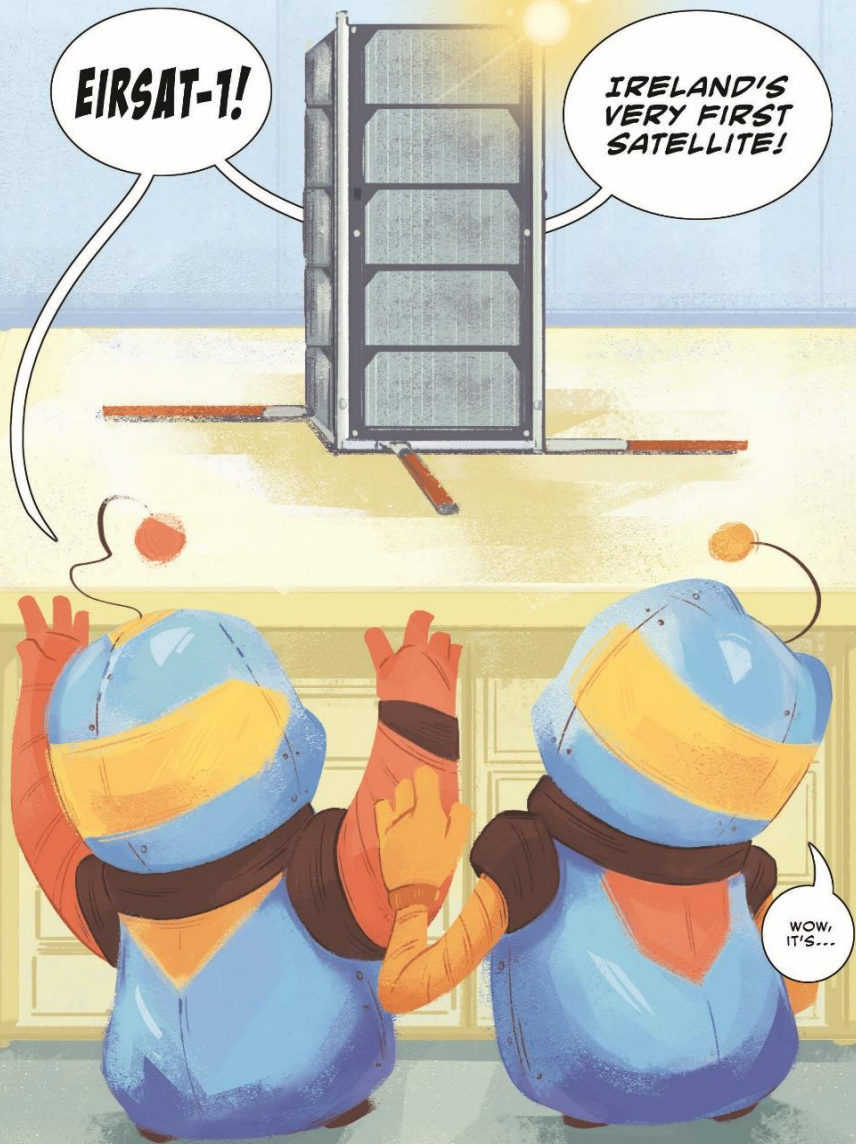
AS YOU KNOW, IT'S OUR JOB TO TRAVEL THROUGH TIME AND STUDY ALL THE IMPORTANT MOMENTS IN THE HISTORY OF SPACE EXPLORATION, CRYO.

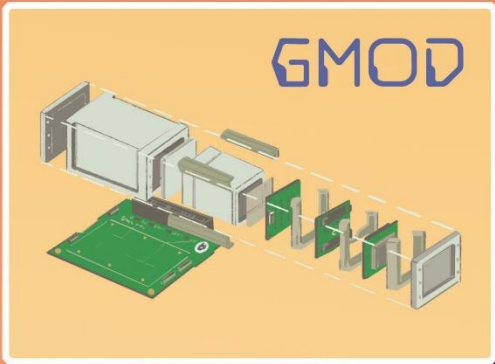
THIS IS THE YEAR IRELAND FINISHED WORK ON ITS VERY FIRST SATELLITE!



IT IS THE RESULT OF HARD WORK FROM DOZENS OF PEOPLE FROM ALL WALKS OF LIFE.

MAY I PRESENT TO YOU...





GMOD

THE FIRST MODULE OF EIRSAT-1 IS KNOWN AS THE **GMOD**. THAT STANDS FOR **GAMMA-RAY MODULE**.

THE **GMOD** WILL DETECT **GAMMA RAY BURSTS**. WHICH, AS YOU KNOW CRYO, ARE SOME OF THE MOST ENERGETIC EXPLOSIONS IN THE UNIVERSE!

STUDYING THESE BURSTS OF ENERGY FROM DEEP SPACE CAN HELP EXPLAIN THE NATURE OF STARS!

IT WILL EVEN BE ABLE TO TEACH US ABOUT DIFFERENT ENERGY BURSTS ON EARTH, LIKE **LIGHTNING!**



THE NEXT MODULE IS THE **EMOD**. EMOD STANDS FOR **ENBIO MODULE**.

IN SPACE, IT CAN BE **VERY HOT AND VERY COLD**. SO THE **EMOD** IS USED TO TEST DIFFERENT MATERIALS THAT CAN PROTECT EQUIPMENT IN DEEP SPACE FROM **EXTREME TEMPERATURES**.

THE **EMOD** IS MADE OF TWO DIFFERENT MATERIALS, **SOLARBLACK** AND **SOLARWHITE**. BOTH OF THESE VERY ADVANCED MATERIALS ARE MADE BY **ENBIO LTD.**

EMOD



A COMPANY FROM HERE IN IRELAND!



THE FINAL MODULE IS THE **WBC SYSTEM**. THAT MEANS **WAVE-BASED CONTROL SYSTEM**.

THIS ONE'S REALLY COOL!

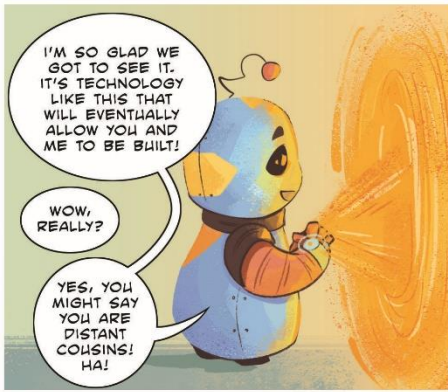
IT WILL TEST A TOTALLY NEW WAY OF GUIDING SPACECRAFTS AND SATELLITES USING THE EARTH'S OWN **MAGNETIC FIELD!**

SO WHAT DO YOU THINK OF **EIRSAT-1** NOW, CRYO?



WBC SYSTEM







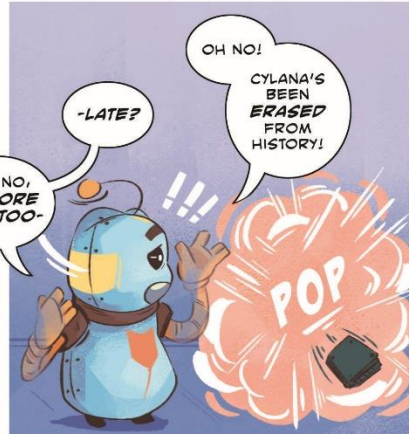
BACK IN THE SCIENCE BUILDING...



CYLANA, I THINK WE ARE IN TROUBLE!

OH NO! TIME IS BEING CHANGED! WITHOUT THE SATELLITE SOME OF THE TECHNOLOGY THAT HELPED BUILD OUR ROBOT BODIES WAS NEVER DISCOVERED!

OH NO, BEFORE IT'S TOO-



-LATE?

OH NO!

CYLANA'S BEEN ERASED FROM HISTORY!



WHAT AM I GONNA DO!?!



NO! CYLANA WOULD SAY, "EVEN THOUGH I'M SMALL, I CAN STILL MAKE A BIG DIFFERENCE!"

I GOTTA FIX THE SATELLITE!



CRYO WORKS WITH SUPER-SPEED TO FIX THE EIRSAT-1!

THAT OUTTA DO IT, JUST ONE MORE CONNECTION!!

YOU DID IT!



GREAT JOB, CRYO!

HUH?



YOU'RE BACK!!!

GOOD TO SEE YOU TOO, BUDDY.

EH, CRYO, YOU'RE SQUISHING ME.



THANKS FOR SETTING THINGS RIGHT, CRYO.

WHAT DO YOU SAY WE HEAD HOME AND LET HISTORY TAKE ITS COURSE?

DEFINITELY, I COULD DO WITH A LONG RECHARGE!

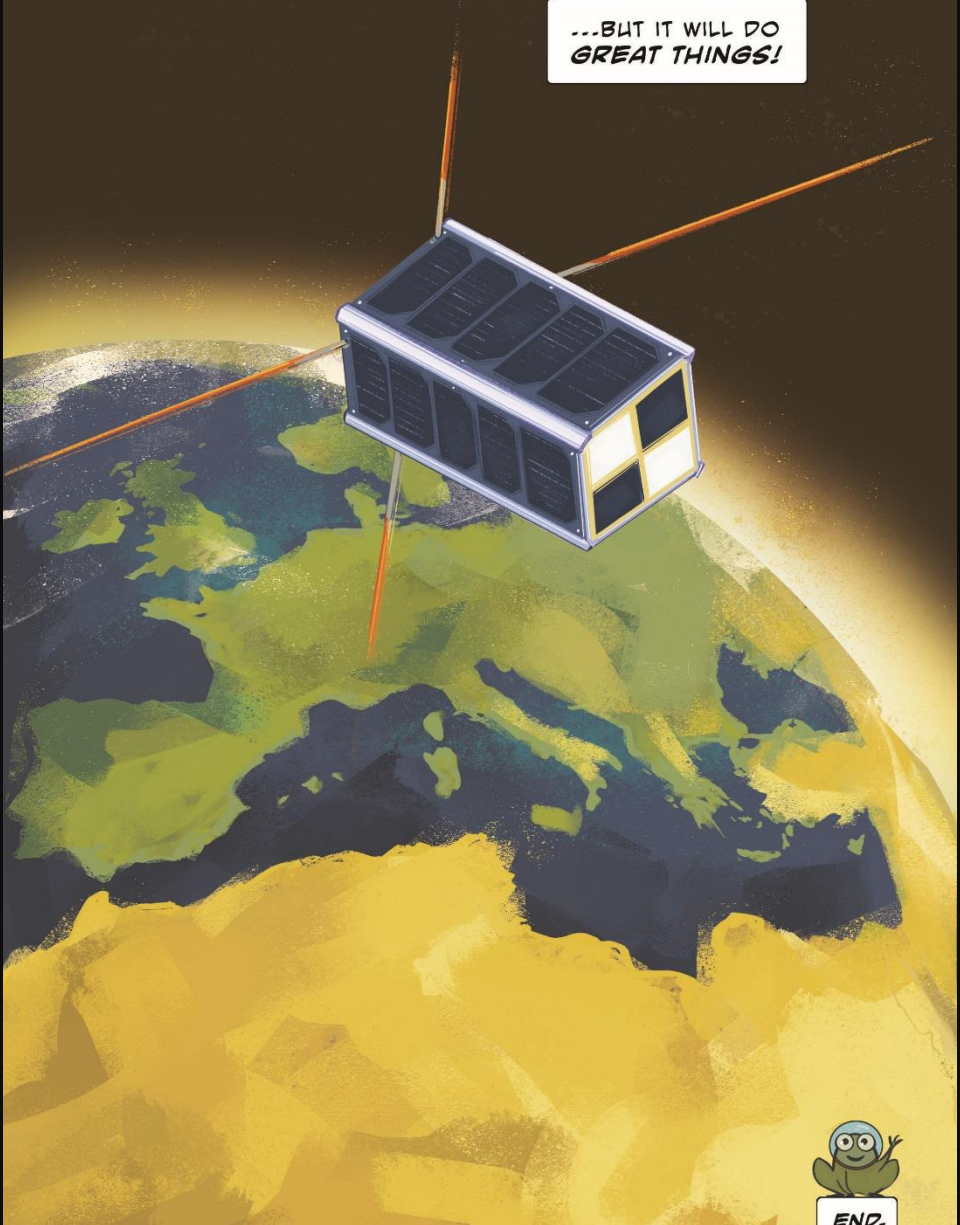


I HOPE YOU'VE LEARNED HOW IMPORTANT SOMETHING CAN BE, NO MATTER HOW SMALL.

TOTALLY!

JUST LIKE THE EIRSAT-1, IT MAY LOOK SMALL...

...BUT IT WILL DO
GREAT THINGS!



END.



Want to find out more about Ireland's first satellite?

Visit our website at www.eirsat1.ie
Ask us a question on Twitter or Instagram @EIRSAT1

The EIRSAT-1 project is carried out with the support of the Education Office of the European Space Agency, under the educational Fly Your Satellite! Programme.



Rialtas na hÉireann
Government of Ireland



OPENET

