

SSE *

*SPACE SCIENCE EXPERIENCES

Beatriz González García on behalf of the CESAR Team





THE







- ✓ Education Experiences (Primary, Secondary, vocational training and University)
- ✓ Adapted to the scholar CV (ES,UK) & Agenda 2030

























10 REDUCED INEQUALITIES































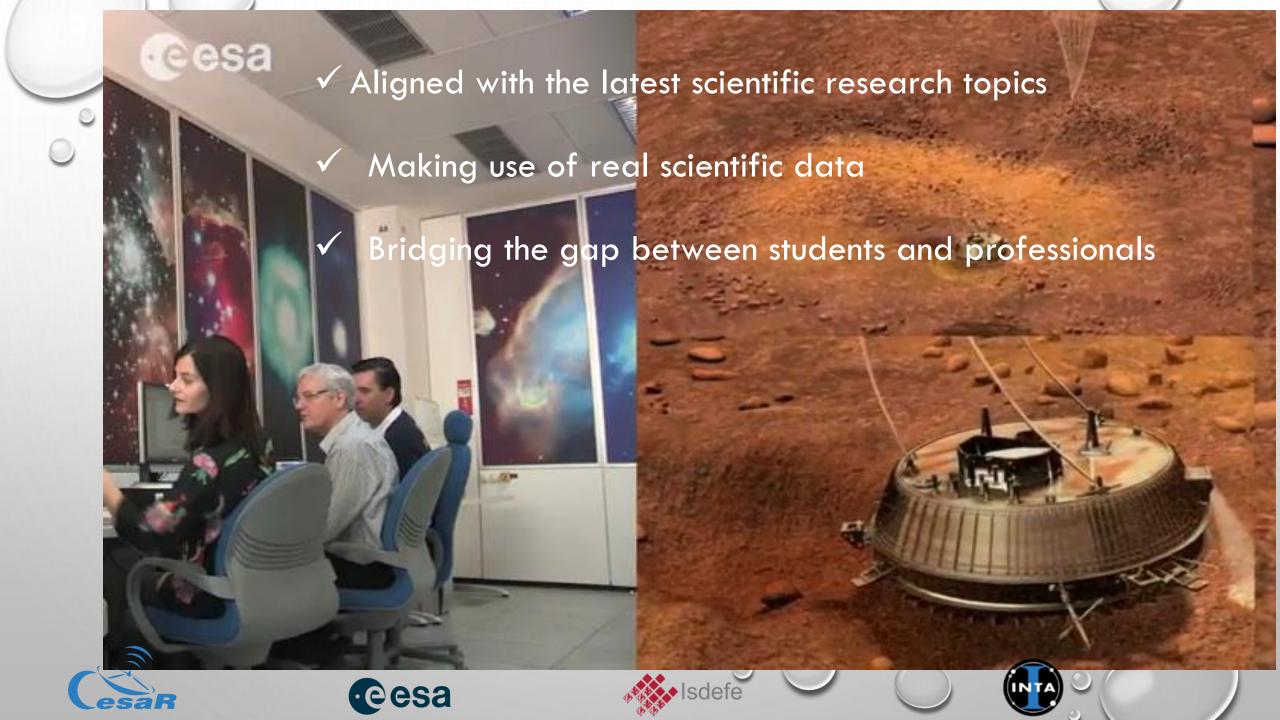












Space Science Experiences

SSE (IN PERSON) @ ESAC

ONLINE SSE







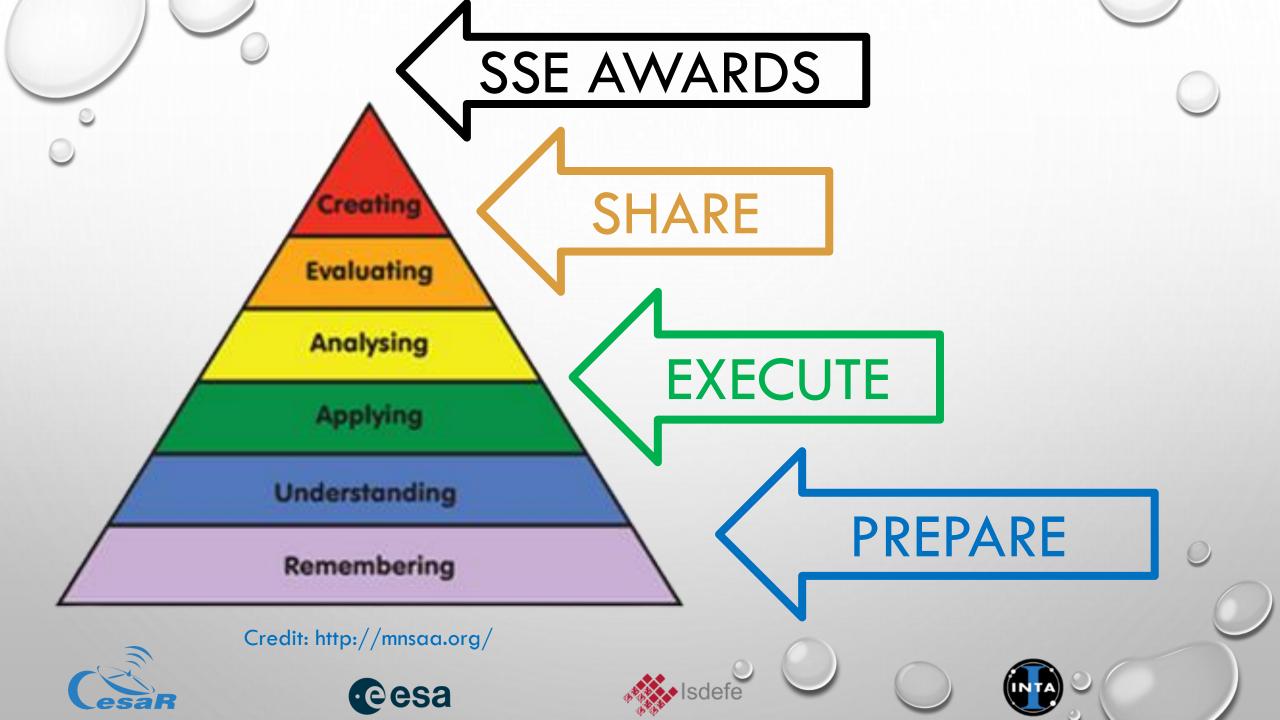






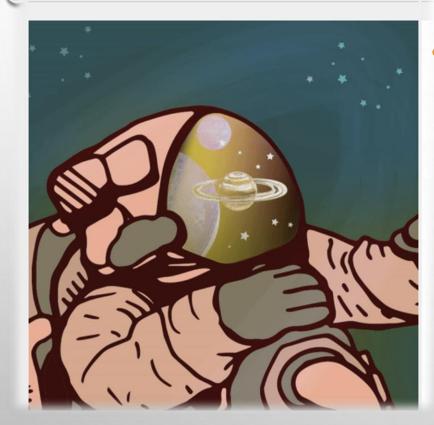




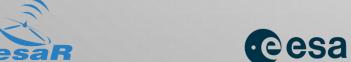


SSE AWARDS

SSE (IN PERSON) @ ESAC



Credit: CESAR







PREPARE







SSE (IN PERSON) @ ESAC



Credit: CESAR

POSTER + FEEDBACK

HANDS-ON & TOUR











AT ESAC

IN THE CLASSROOM

SSE (IN PERSON) @ ESAC



Credit: CESAR



HANDS-ON & TOUR











WITH CESAR SUPPORT

WITH LIMITED SUPPORT

SSE (IN PERSON) @ ESAC



Credit: CESAR



HANDS-ON & TOUR











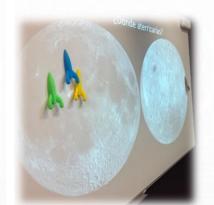




ESAC Tour











Be a scientist for a day



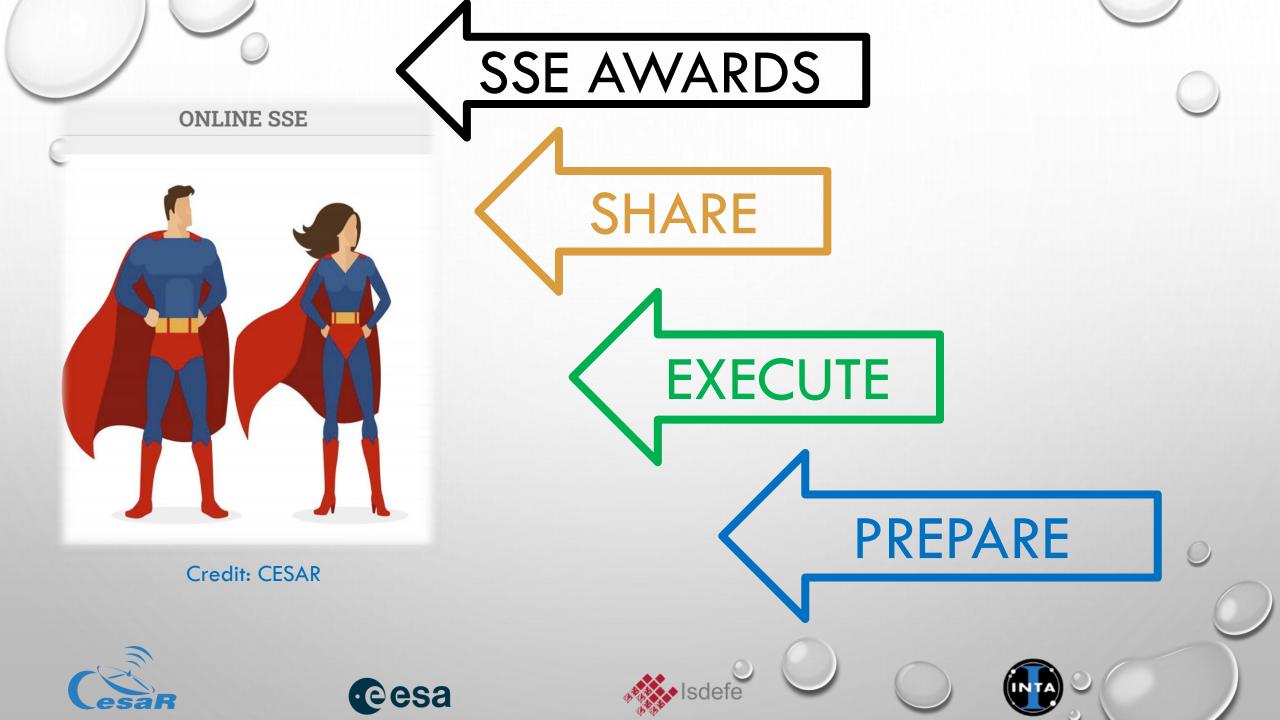
















Credit: CESAR



HANDS-ON & TOUR















Credit: CESAR



IN THE CLASSROOM

POSTER + FEEDBACK

HANDS-ON & TOUR

GUIDE + VIDEOCALL











WITH CESAR SUPPORT

WITH LIMITED SUPPORT

ONLINE SSE



Credit: CESAR



HANDS-ON & TOUR

GUIDE + VIDEOCALL















ESAC virtual Tour

Credit: CESAR







Scientist for several days

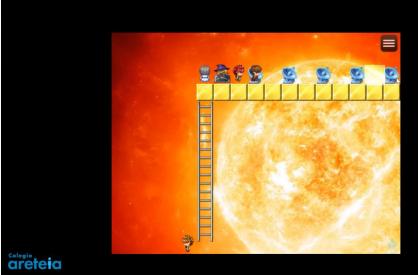






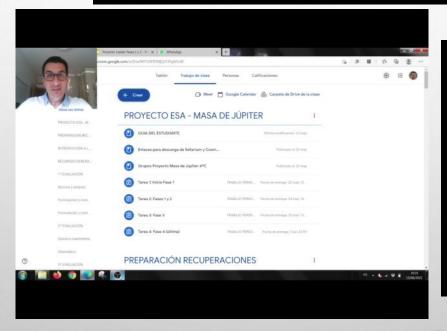


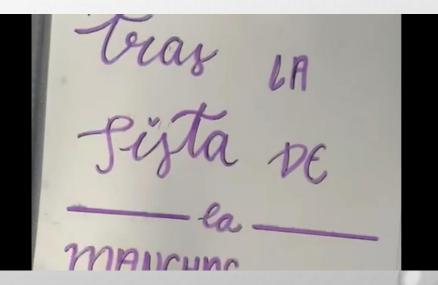






























Credit: CESAR





HOW CAN I ASK FOR AN SSE?









EASY

https://cesar.esa.int/











News

Lectures News Science at ESAC

For Educators Science Experience

Events Special events

Observatories Infrastructure

Multimedia Images & Videos

Contact Contact us



WHAT IS CESAR?

CESAR is an educational ESA initiative whose main objective is to engage secondary school students with the wonders of astronomy and, more generally, science and technology.

See our For Educators section to see what experiences we offer.















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For educators

SPACE SCIENCE EXPERIENCE



TEACHER TRAINING



Space Science Course at ESAC

EDUCATIONAL EXCURSION



An educational experience at ESAC









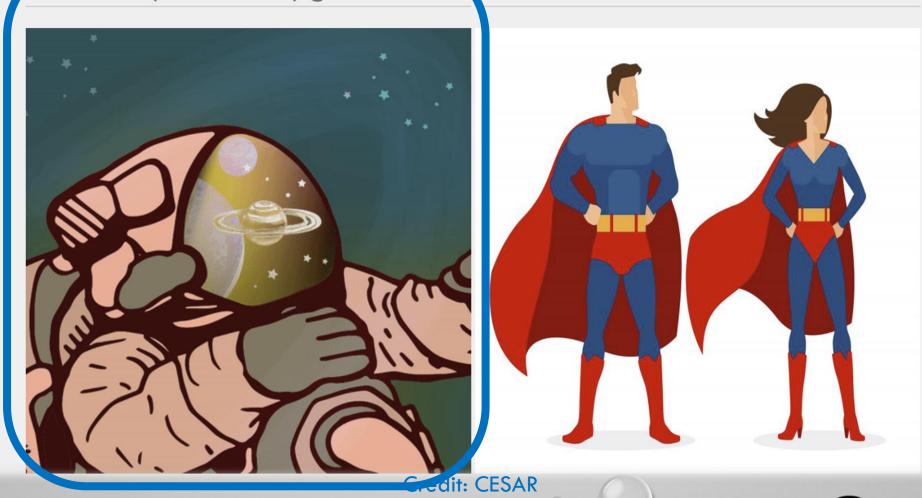




Space Science Experiences

SSE (IN PERSON) @ ESAC

ONLINE SSE















Access to CESAR

Access form				
* User 🗓	marte.rojo			
* Password 🗉	•••••			
	Login			

AVAILABLE CESAR ACTIVITIES Edit this section



DO YOU NEED SOME HELP?

CONTACT US IF YOU NEED FURTHER HELP

Marte Rojo Teacher from nebulosa de Orion E-Mail: bgonzale@sciops.esa.int Telephone: 111111111111111 Login: marte.rojo

SPACE SCIENCE EXPERIENCE IN ESAC

The CESAR Team offers "Space Science Experiences in ESAC", which are unique experiences for 6–18-year-old students, starting and ending in the classroom and with a day at the European Space Astronomy Centre (ESAC, in Madrid) where the students will work as scientists and engineers, every Tuesday and Wednesday.



ONLINE SPACE SCIENCE EXPERIENCES

The CESAR Team offers "online Space Science Experiences", which are unique experiences for 6-18-year-old students, which will be completely executed in the classroom (at your speed). In these Experiences, students will work as scientists and engineers guided by their teachers who could count on with the support of the CESAR Team when needed, as well as have the chance of having their class guided for the 1h challenge (Phase 3), through video calls.



ONLINE SSE

TEACHERS TRAINING WORKSHOP

The CESAR Team offers several teacher workshops per year in hybrid and online mode. They can be classified into two main categories:

Credit: CESAR















If you want to ask for a Space Science Experience (SSE) with the CESAR Team, with a visit (including a tour and a hands-on activity) in the European Space Astronomy Center, ESAC, in Villanueva del Castillo, fill the following form.

Space Science Experience

1. CHOOSE THE LANGUAGE DESIRED FOR YOUR SSE

[Choose the language] 🗸

2. CHOOSE THE AGE OF THE STUDENTS IN YOUR SSE

NOTE: If there were different age ranges please explain this in the motivation letter.

Send a new request

3. CHOOSE THE EDUCATION LEVEL OF THE STUDENS IN YOUR SSE

NOTE: If there were several of different education levels please explain this in the motivation letter

[Choose the grade] 🗸

[Years] 🗸

4. CHOOSE THE SCIENTIFIC CHALLENGE TO BE SOLVED DURING YOUR SSE IN ESAC

NOTE: CLICK HERE TO SEE ALL THE ACTIVITIES DESCRIPTIONS

[Choose Science Activity]

5. BOOK A SESSION FOR YOUR VISIT TO ESAC

Each session is expected to welcome 55 students at a time. To reach this number we recommend you bring more than one class from your school in the same session. If, on the contrary, you manage to have a bigger a group than 55 students we recommend opening two requests on the same day, for two sessions.

[Select the date and hour]

NOTE: Please make sure of selecting a feasible day for your visit to ESAC, to prevent being penalized in future requests, in case your class couldn't come once accepted. As soon as open sessions get released or new ones get open, we will let you know.

6. WRITE A MOTIVATION LETTER

This motivation letter should show the interest of your classroom in this SSE. This letter will be considered by the CESAR Team, especially in those case when several schools request a specific session.

7. INFORM ABOUT THE NUMBER OF STUDENTS COMING TO ESAC

NOTE: The maximum occupancy per SSE is 55 students and 2-4 teachers. Those requests close to the maximum capacity will be positively

Send this proposal and wait for confirmation. Due to the high rate of requests this selection process may take some time. The CESAR committee will aim to take the optimum solution.

Send proposal





VIDEOS

VIDEOCONFERENCE
WITH THE CESAR
TEAM

& QUESTIONS

TEACHER INFO
(name and IDs)
&
STUDENTS INFO (N)

CONSENTS







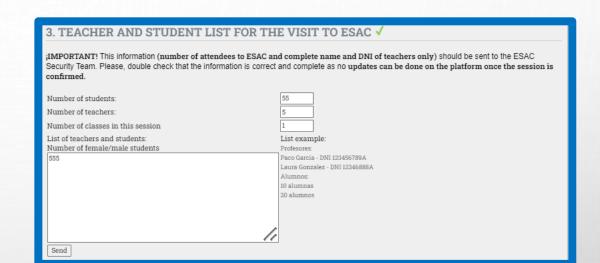






1. RECOMMENDED VIDEOS TO WATCH BEFORE THE VISIT ✓ Enter the video section Did you see the recommended videos? 🗸 Send During the videoconference we may ask the students about the videos. Descarga el procedimiento para la videoconferencia 2. BOOK YOUR VIDEOCONFERENCE WITH THE CESAR TEAM BEFORE THE VISIT ✓ During this video conference we will introduce you to the CESAR Team, we will clarify some new concepts that you may need to learn for the handson activity in ESAC as well as answer those 5 relevant questions for your class. Please, choose the best time slot for having a video call of 30 min between your class and the CESAR Team.

	Connection details	Date	Time		
* Video co	nference session with the classroom (30 min):	Lunes, 10 de Octubre del 2022	10:30		
Other data					
* Contact i	number for the video conference	+34688033097			
Additional	information required for the video conference		le		
		Send			
NOTE: T	he Webex link for the videoconference will be available	at your list of SSE request and through a	n email, only once your SSE is confirmed.		
4. QUE	STIONS FOR THE VIDEOCONFERE	NCE ✓			
With the goal of making the best use of the time in the videocall, please provide the 5 questions considered more interesting for your students, related to the topic of your SSE, to be answered during the call.					
Question 1	why?				
Question 2	when?				
Question 3	how?				
Question 4	what?				



5. CONSENTS TO THE COLLECTION AND PROCESSING OF PERSONAL INFORMATION \checkmark



Question 5 who?





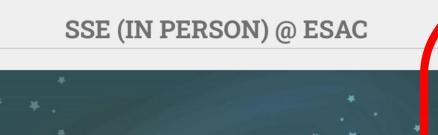








Space Science Experiences



















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TEACHERS TRAINING WORKSHOP

The CESAR Team offers several teacher workshops per year in hybrid and online mode. They can be classified into two main categories:

Credit: CESAR















Dear Teacher.

Welcome to your online SSE!

[Choose the language] 🗸

In order to provide you with the best support possible please, fill in the following form. As soon as you complete your form, you will be able to start your Adventure.

You will be guiding your class through the Space Science Experience (SSE) but you will never be alone. The CESAR Team will support you during the whole process with students and teachers guides, video tutorials, quizzes and video calls (if desired).

Online Space Science Experience

If at some point, you have any question, do not hesitate to contact us at cesar.sse@sciops.esa.int

All the best The CESAR Team

[Years]

FILL THE INFORMATION RELATED TO YOUR SPACE SCIENCE EXPERIENCE

CHOOSE THE LANGUAGE FOR YOUR ONLINE SSE

					_			
CHOOSE	THE	AGE	RA	NGE	OF	YOUR	STUDENTS	

Send a new request If your students ages do not match with any of these select "Other"

VRITE YOUR MOTIVATION TO TAKE THIS SSE (OF	TIONAL)
xample: the kids are very interesting, is the topic of this yea	r, there are different ages, etc.

CHOOSE THE SCIENTIFIC CHALLENGE TO SOLVE IN YOUR "ONLINE SSE"

CLICK HERE TO CHECK THE STUDENTS MATERIAL PER SCIENTIFIC CHALLENGE

Choose Science Activity]	~	

NUMBER OF STUDENTS AT THE TIME IN THE "ONLINE SSE"

We recommend them to work in teams of (4-6) team members, each one with an specific role.

Go to the next phase





PHASE 1 - GET PREPARE FOR THE SCIENTIFIC CHALLENGE

In this phase your students will get prepared for the challenge (to be done in phase 3). For this we provide you with these materials:

- The science case: a link, always accessible through all the Experience (at the bottom part of this web), with all the material for all the Phases (teacher and students guide, access to YouTube talks of experts to teachers, relevant videos, ...). Students will answer on the students guide.
- The teachers guide: Students guide with answers and extra material. Please, check at the section "Didactics"-"Summary of Activities" those Activities flagged as mandatory, per Phase.
- An explanatory video of phase 1: A YouTube video, watchable by students and teachers, explaining all the activities in phase 1.

MATERIALS FOR THE TEACHER







Teachers guide

Phase 1 video















SSEs TOOLS









TOOLS FOR THE SSEs













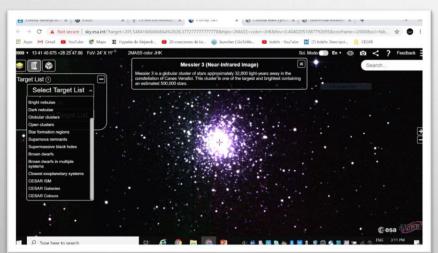


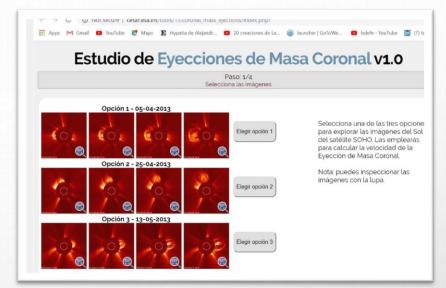




TOOLS FOR THE SSEs







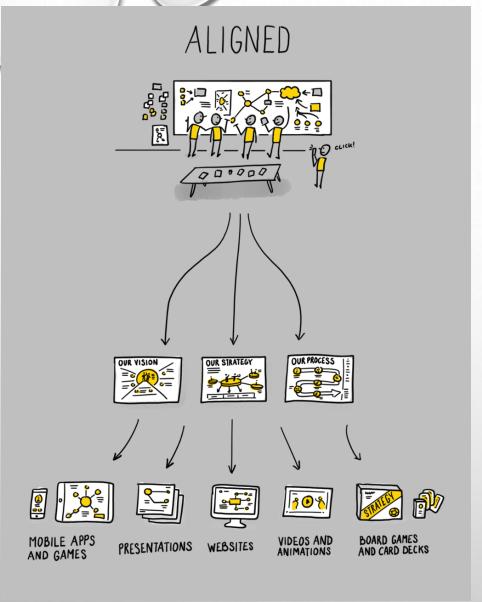


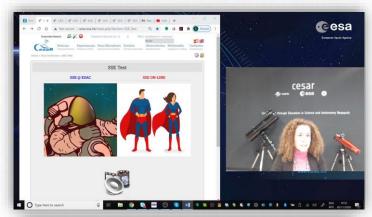




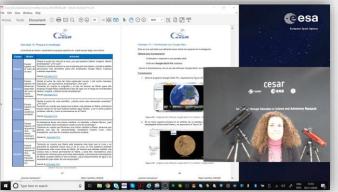






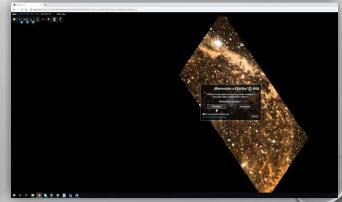














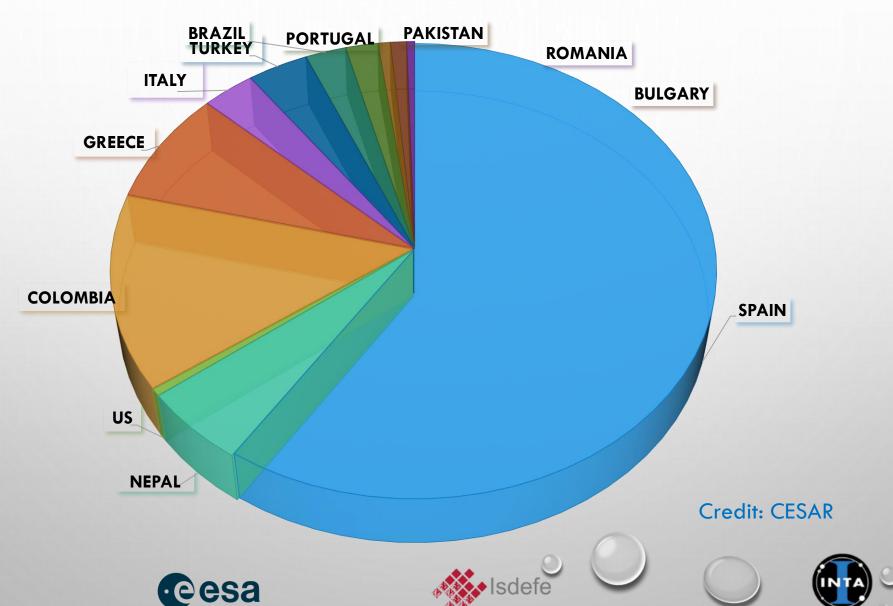








% OF STUDENTS (PER COUNTRIES) ON AN ON-LINE SSE SCHOOL YEAR (2020-2021)



LET'S GO ROCK WITH THE NUBALO TEAM









COSMIC EXPLORERS









