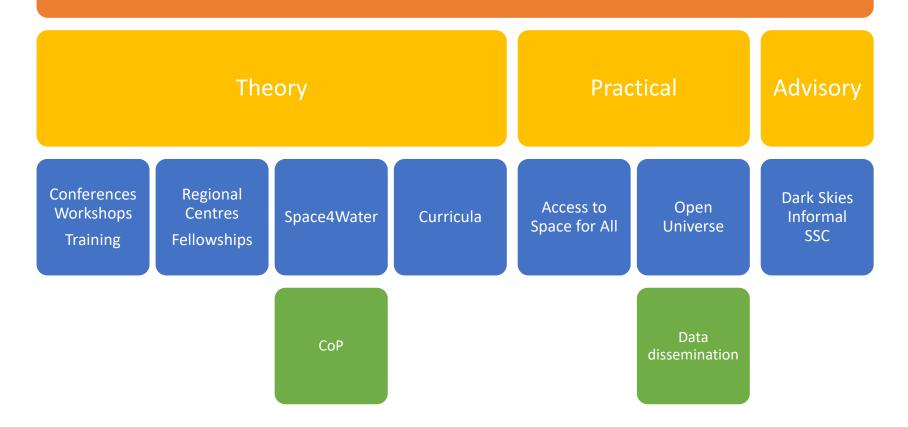
# **ACCESS TO SPACE FOR ALL**





# Space Applications Section

































Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



### Among others targets:

"By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship"

There is no technological innovation without education

Education contributes to the economy



The goal of the **Access to Space 4 All Initiative** is to provide research and orbital opportunities for UN Member States to access space and to ensure that the benefits of space, in particular for sustainable development, are truly accessible to all

Why Access to Space for All?

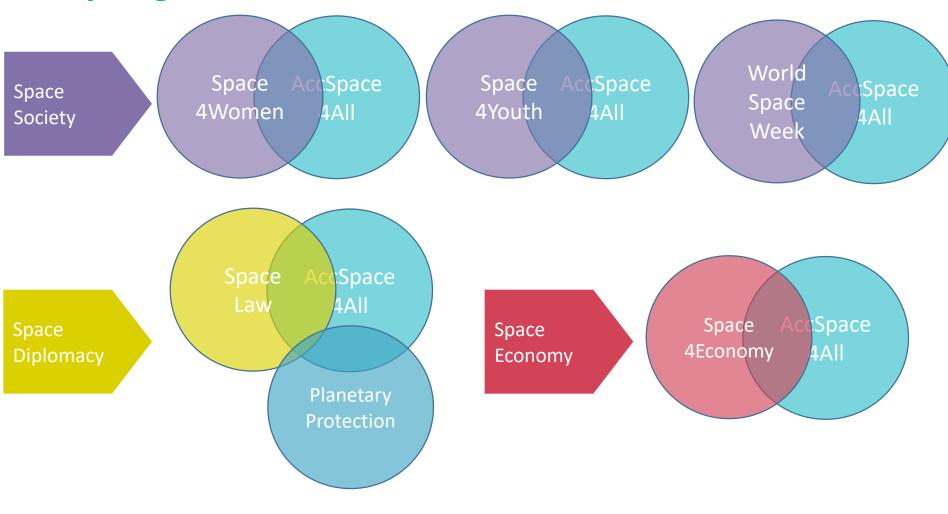
- You cannot learn to ride a bike by reading a book, you have to ride a bike!
- Cooperation: opportunities foster cooperation and exchange of knowledge between countries
- □ Future: It is impossible to think in a future where space does not play a role!
- Jobs: Cutting edge skills
  - Space employment hit 8 year high
  - Launch activity reach decade growth of 39% (about two launches a week in 2019!)
- More than 80 countries have put a satellite in orbit (and counting!)
- Bridge the Space Divide in a responsible and sustainable manner
  - A clear path to develop capacity: Capacity from A to Z
  - Sustainable and Responsible

## Serie de Webinars sobre Access to Space for All

	Webinar Title		Learners will be able to	Date
ALL OPPORTUNITIES	Access to Space 4 All	-	describe the Access to Space 4 All Initiative and why it is important	30 September 2020
		-	describe the objectives of the Access to Space 4 All Initiative	
		-	list the tracks	
		-	list the opportunities	
		-	list the partners of the Access to Space 4 All Initiative	
	How to raise awareness and engage the audience about your project	-	prepare a successful communications plan	28 October
		-	approach media and permanent missions to raise awareness	
0	Space Law and Regulations	-	to enhance understanding of fundamental principles of space law	11 November
ARS		-	to understand the importance of space object registration	
COMMON WEBINARS TO		-	describe the steps for frequency registration	
	Ask a winner	-	incorporate lessons learned from previous winners for example solutions and difficulties when undertaking their projects	25 November
	Artificial Intelligence and Access to Space	-	Describe some of the tools that have been made possible by artificial intelligence and how they can be used in the context of Access to Space 4 All	02 December (TBC)
	Space Engineering Basics	-	describe the different phases of the space engineering process at high level	Date TBC
		-	describe the different reviews at high level	
		-	apply to the development of a system	



### **Synergies**





## **DropTES**









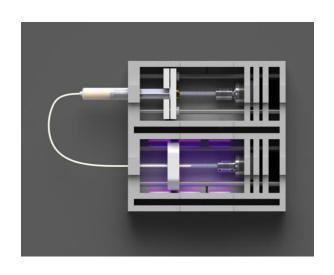




### **DropTES**







#### Top Facebook posts by total post reach (number of people who have seen the content)

Post Message	Reach *
The latest winners of the #DropTES fellowship with #UNOOSA to perform #microgravity research at the #Bremen Drop Tower in #Germany are a team from Universidad Católica Boliviana "San Pablo" and they are already working on their experiment! Together with industry partner Print3D #Bolivia, the 5 team members are conducting research on #3Dprinting under #microgravity conditions, that could benefit manufacturing techniques for both #space #exploration & life on Earth!	24,565





### **KiboCUBE**







Credit: Ivan Castro

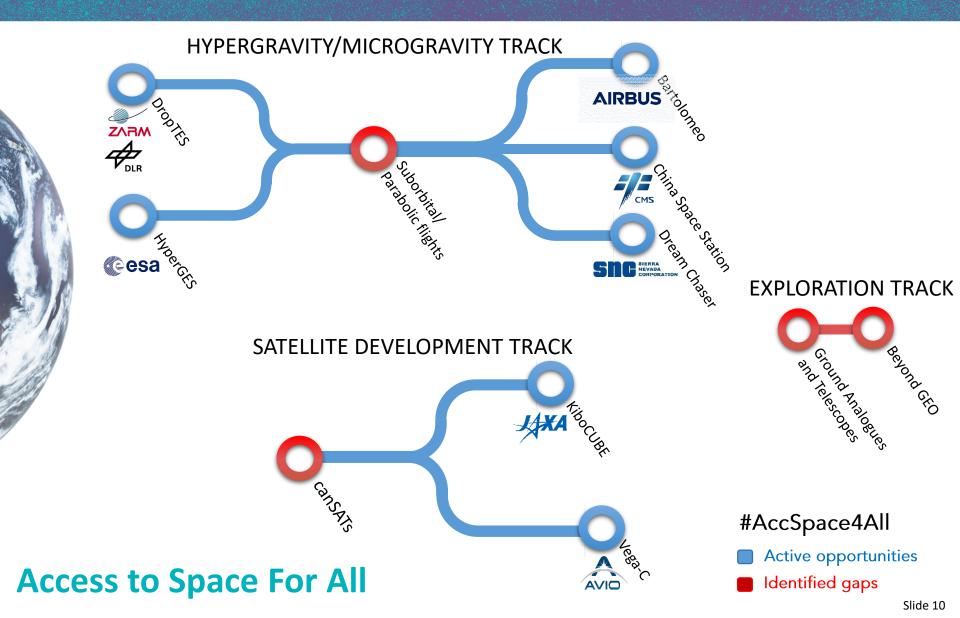




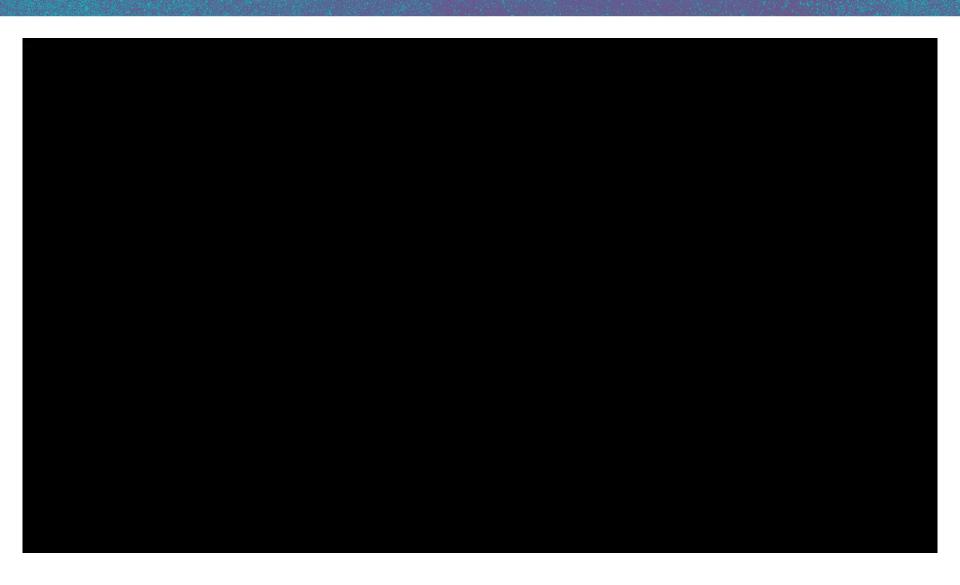


## What is the role that AI can play?











European Workshop on On-Board Data Processing (OBDP2019)



European Workshop on On-Board Data Processing

ID de la contribución: 37

Tipo: Oral presentation

#### Preliminary On-board Image Processing Solution for the H2020 EO-ALERT Project

martes, 26 de febrero de 2019 14:40 (20 minutos)

#### **APPLICATIONS**

### **Artificial Intelligence** for Earth observation

322 VIEWS OLIKES

ESA / Applications / Observing the Earth / Φ-sat

φ-sat-1, pronounced phisat-1, is artificial intelligence technology carried on one of the



#### KubeSat

KubeSat is an open-source project for building a cognitive, autonomous framework for satellite constellations and swarms. It provides the framework needed to develop and operate tasks to be performed on Satellite. Also, it allows for the simulation and optimization of multi-satellite communications.

#### **How It Works**

KubeSat provides a framework to manage services for devices.

#### Architecture



ARTIFICIAL INTELLIGENCE IN SUPPORT TO SPACE

# THANK YOU

