

# ASTR FICA

## TECHNOLOGIES



Presented by: Khalid Manjoo  
Co-Founder, CEO

### Industry-Driven Space Internship Programs

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**WHO ARE WE ?**

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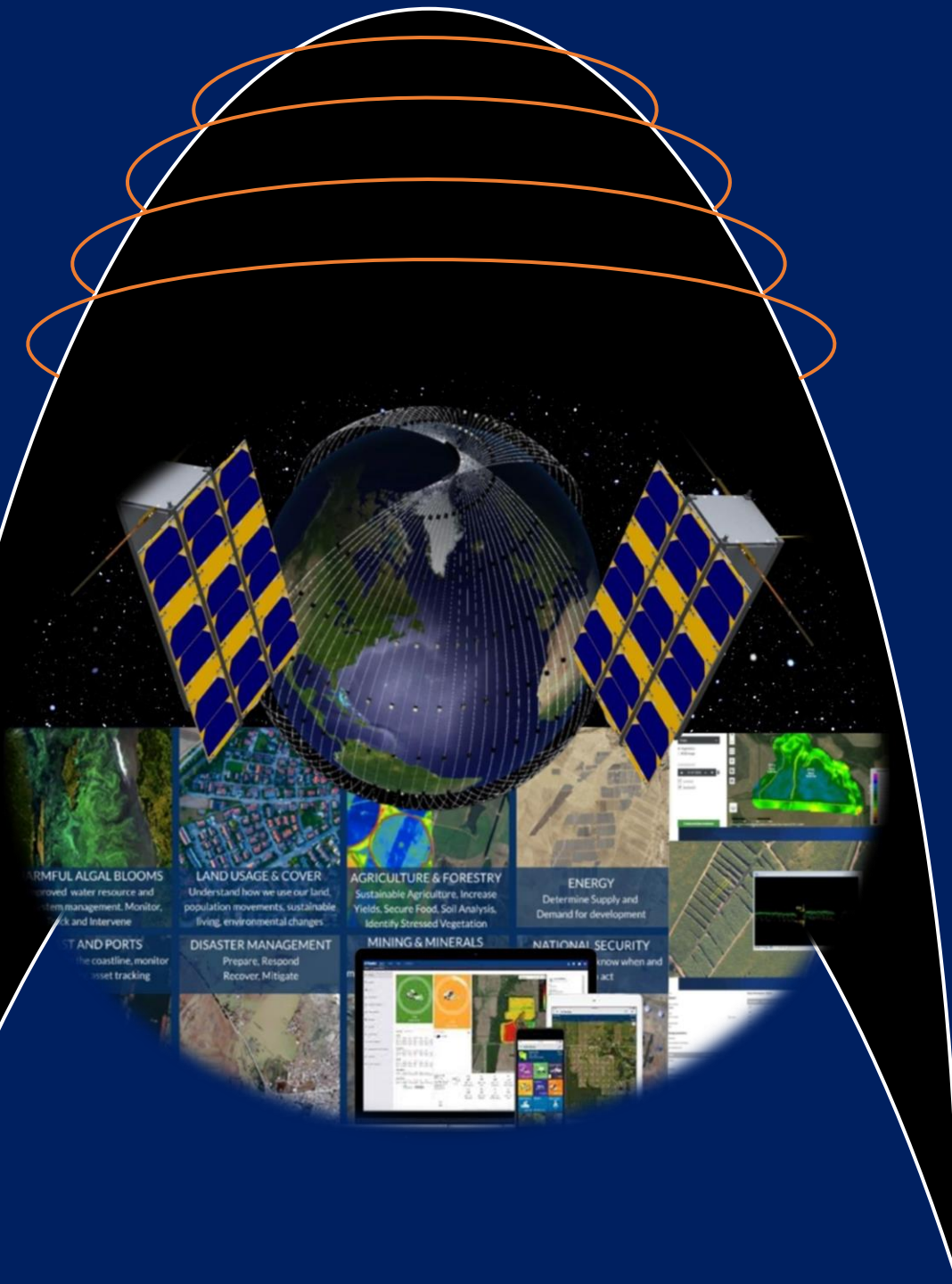


# ASTROFICA TECHNOLOGIES

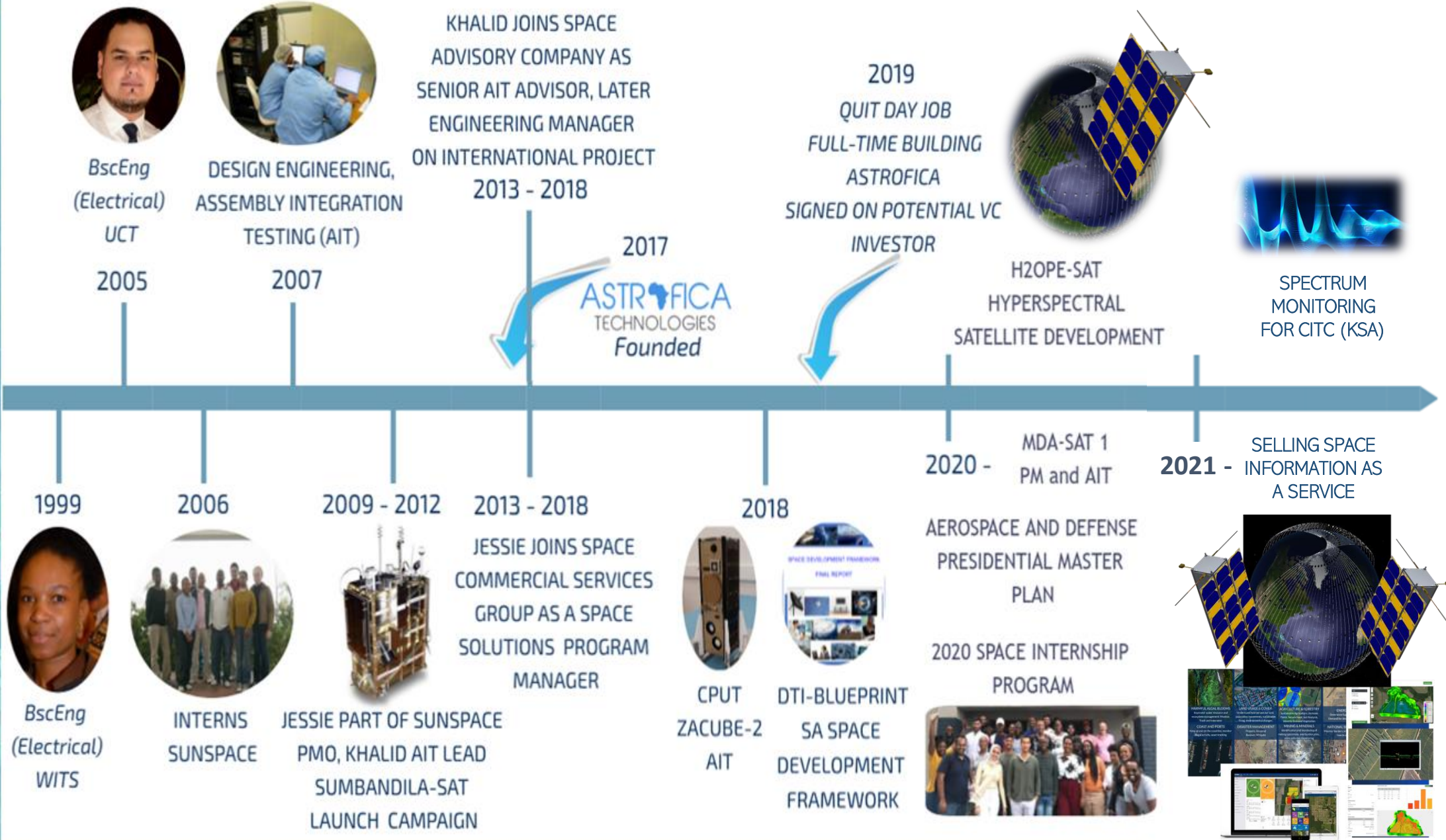
**Astrofica Technologies is a high-technology services and solutions provider with a keen interest in commercializing actionable solutions from partner and proprietary spaceborne and ground-based assets.**

## KEY FACTS

- Founded in 2017 by Khalid Manjoo and Jessie Ndaba
- More than 50 years Space industry experience
- More than 30 years Telecoms sector experience
- Core skills in System Engineering, Project Management, Hardware and Software System Integration and Testing, Data Solutions, Applications Development, Business Intelligence, RF and Spectrum Monitoring, Space Commercialization



# OUR JOURNEY THROUGH SPACE



Successfully delivered satellites : 8 (Local and International, total mass range > 1,500 kgs)  
 Projects Completed : 15 | Jobs Created : 50+ | Awards Won : 1



# Why Space ?

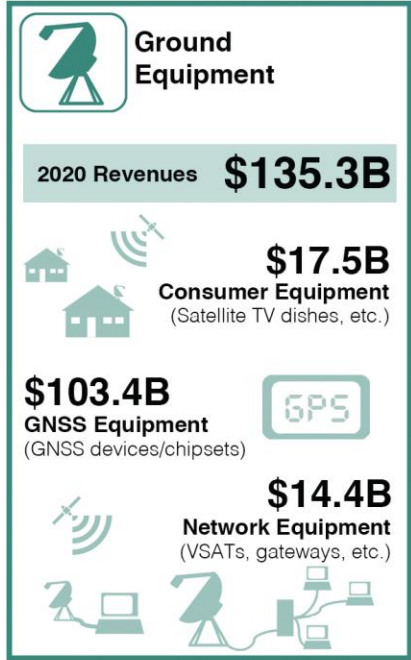
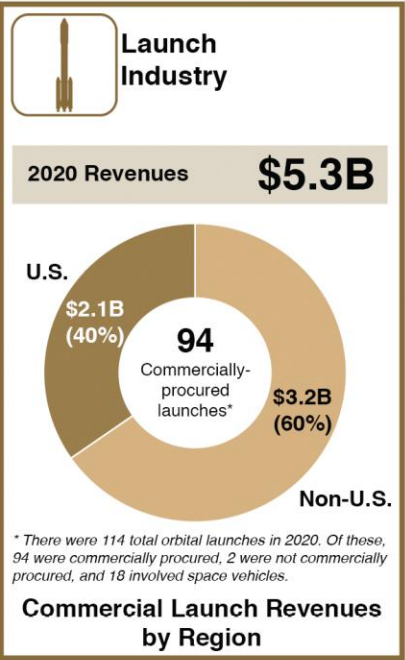
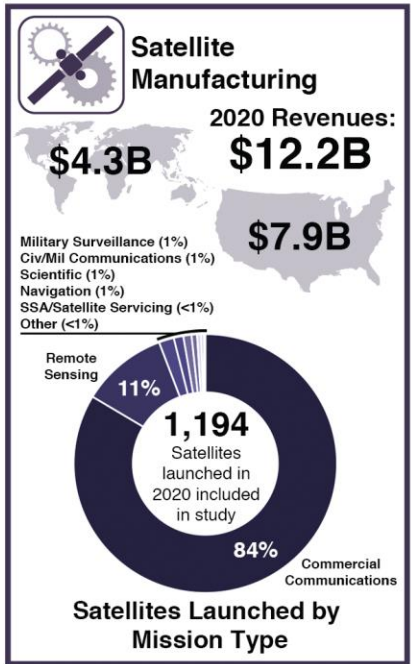
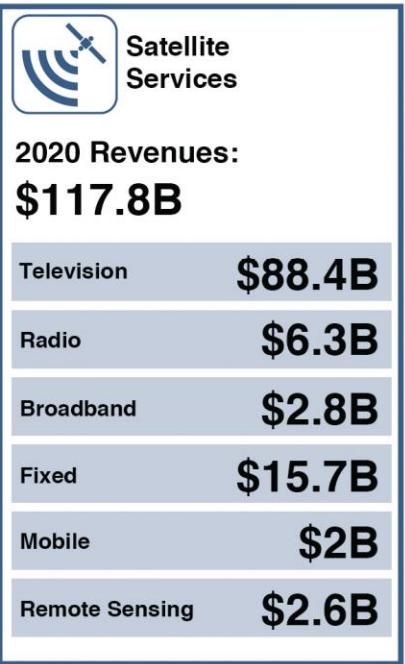
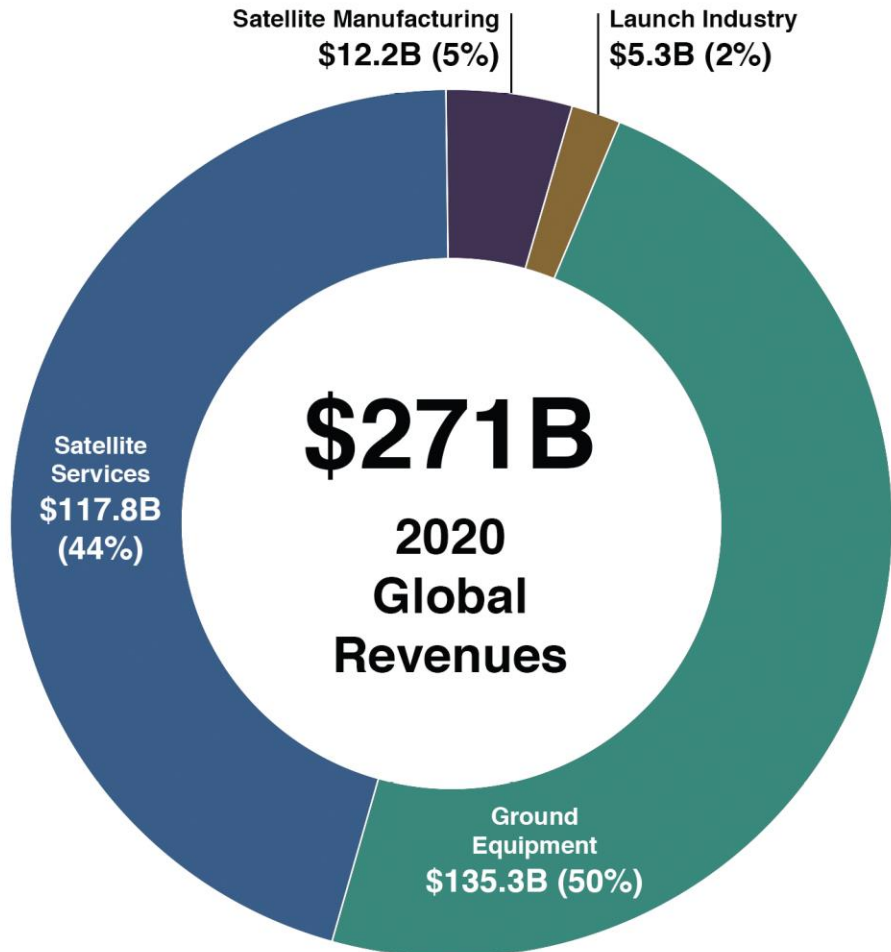


# HOW THE GLOBAL SPACE ECONOMY IS GROWING



The strong market and demand for critical decision informing data, only available from Space, already exists and is growing exponentially !

## 2020 Top-Level Global Satellite Industry Findings





# SPACE IS AN ESSENTIAL ENABLER

- Of the Global Economy at Large

Without Space, economies will become less and less competitive over time. Competitive capability for financial traders is down to the difference in parts of a second in being able to access data.

- Of the Currently Disadvantaged People

Without Space there can be no connectivity for the currently disadvantaged, and no access to data. This perpetuates inequality, poverty and excludes too many from the economy.

- Of Government and Government Agency Efficiencies

Earth observation provides quality data for better decision making, management of national resources, and services, saving billions per annum.

- It is Growing Very Fast. Timing Is Important

CAGR in certain areas over 100%, EBITDA over 15%. There is collective capability on the continent and amongst global partners, it can be leveraged with the right support, quickly !





# The Program

**ASTROFICA**  
TECHNOLOGIES

in partnership  
with

SPACETEQ

AMAYA  
SPACE

NEWSPACE  
SYSTEMS

SIMERA  
SENSE

Cape Peninsula  
University of Technology

CUBE  
SPACE

## 2020 INTERNSHIP EXPERIENCE



### DEFINE YOUR FUTURE AT ASTROFICA

We are looking for innovative thinkers that are passionate about solving everyday challenges using Space-based technologies. At Astrofica you will get the opportunity to work with some of the best minds and leaders in the South African Space Industry, exposed to cutting-edge technologies together with hands-on experience to holistically develop your professional skills and competencies. Come and experience our unique work environment and business culture !

APPLY NOW AT : [www.astrofica.com/careers](http://www.astrofica.com/careers)

Application Deadline : 20 December 2019

**ENDORSED**



MICTSETA



BETTER TOGETHER

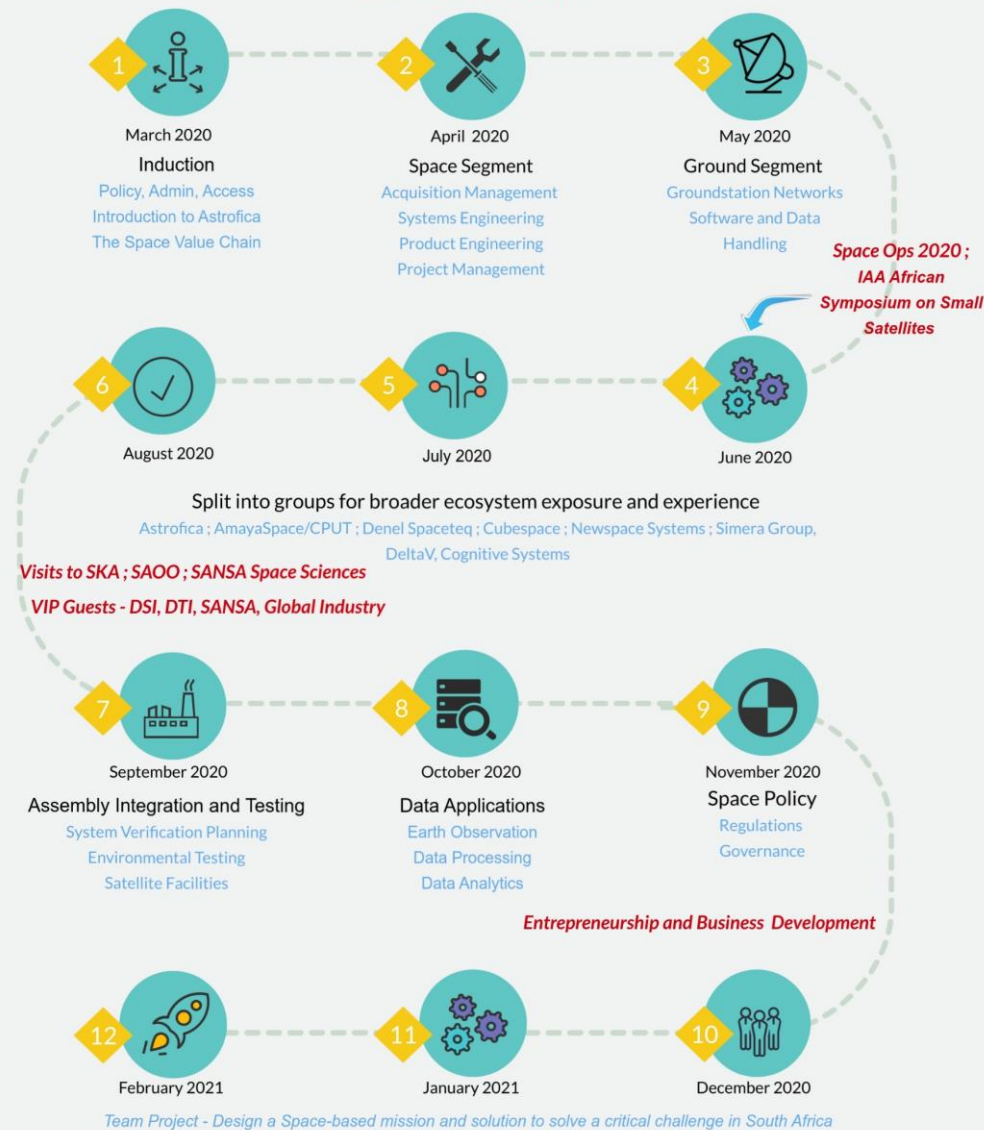


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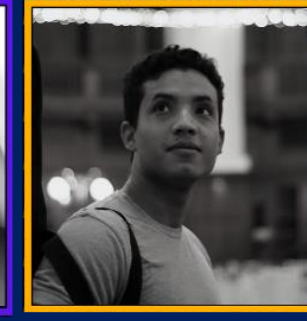
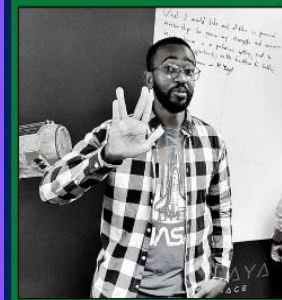
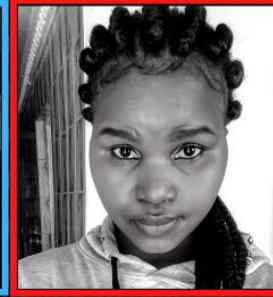
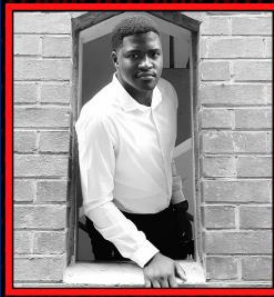
## 2020 Space Internship

PROJECT TIMELINE





# Class of 2020



# Some Stats

Enrollment Statistics						
Total number of interns	30					
Countries	South Africa (29) - Sponsors Criteria ; USA (1) - UI + VaCorps					
Interested Countries	Nigerian, Kenya, Uganda, Ethiopia, Zimbabwe and Mozambique					
Demographics						
Age Groups	20-24		25-30		31 - 34	
	7		21		2	
Gender	Males	Females	Males	Females	Males	Females
	4	3	10	11	2	0
Residential Area	Rural			Urban/Suburban		
	12			18		
Educational background	WIL	Post-GR12	NDip	BSc/BTech	MSc/MTech	PhD
	4	1	10	13	1	1
Space Industry Experience	3					
Dropout/Replacements	1 (Q1 – presented with an opportunity to pursue a career in full-stack development)					
Post Internship Status Quo	Space Sector		Other Sectors		Further Studies	Unemployed (Part-Time)
	7		15		3	5



# Some Highlights

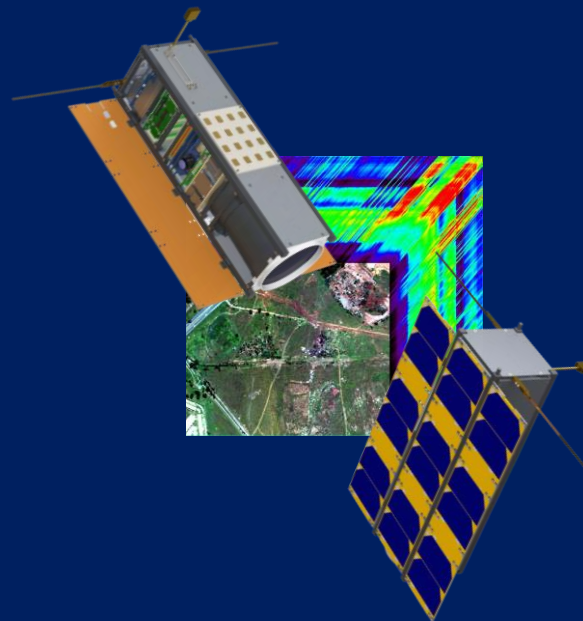


## Astrofica's Internship Program Is Building A Talent Pipeline For Africa's Space Industry

By Space in Africa - July 23, 2020



Blaine Lomborg, one of the interns with a PhD in Nuclear Physics, does a presentation to the team around a workshop he attended on VC investments into technology startups. Photo Credit: Astrofica





# HUMAN CAPITAL DEVELOPMENT

- *Satellite HCD programs are ideal mechanisms for advancing science and technology.*
- *At Astrofica we understand the importance and value of skills development and knowledge transfer to our clients and provide general and client-specific training programs as integral parts of our overall value-add service.*
- *Space is firmly domiciled in Astrofica. Our rich heritage boasts our technical and innovative capabilities across the Space value-chain.*
- *Let's talk on providing practical and tailor-made mechanisms to offer affordable Space-in-training opportunities to your organization and needs.*





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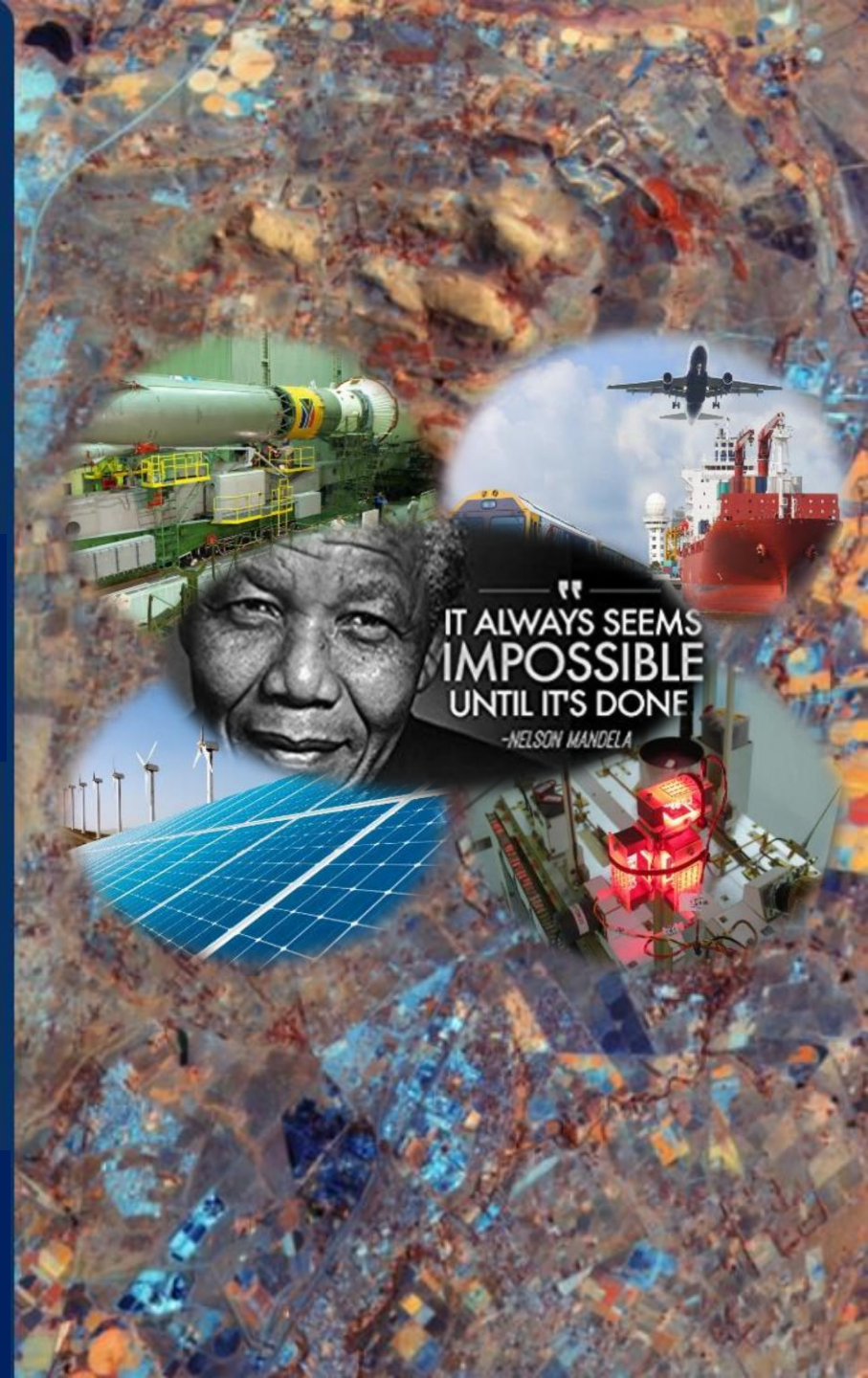


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THANK  
YOU



“  
IT ALWAYS SEEMS  
IMPOSSIBLE  
UNTIL IT'S DONE  
-NELSON MANDELA