

Access to Space for All Initiative "Ask a Winner" The Mauritian Experience

Dr Vickram Bissonauth

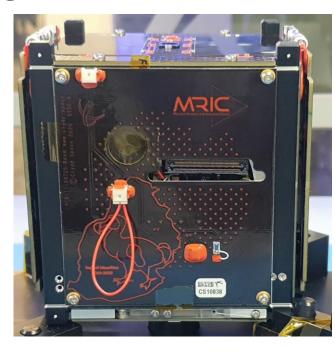
Research Coordinator

Mauritius Research and Innovation Council

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spacemauritius.com

#MIRSAT1

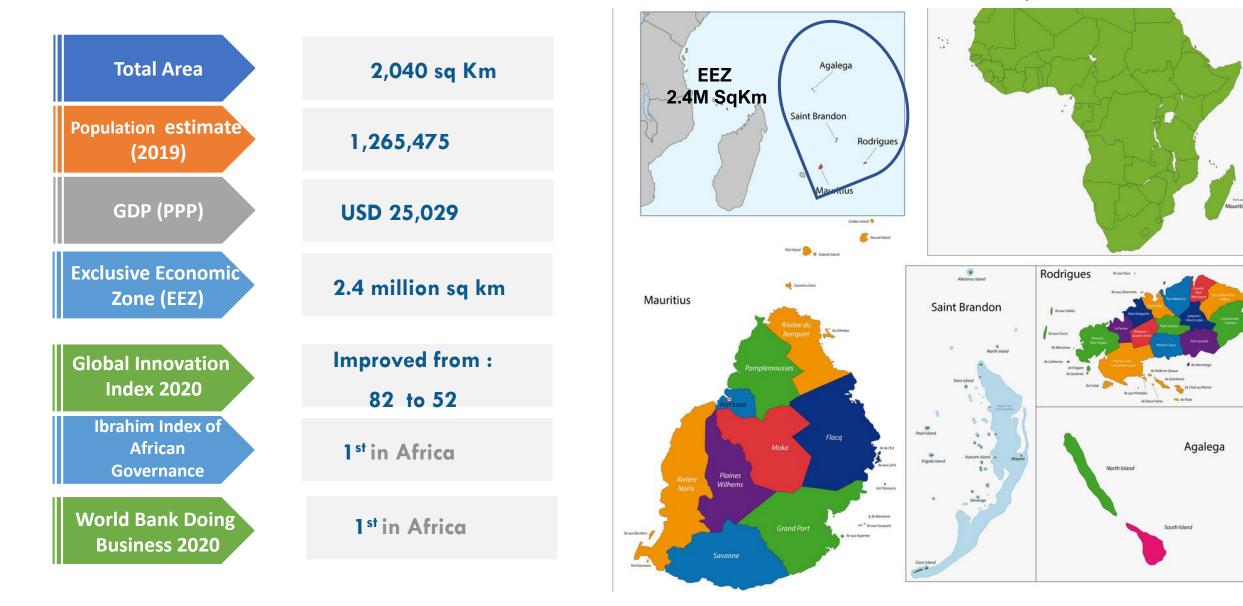




25th November 2020

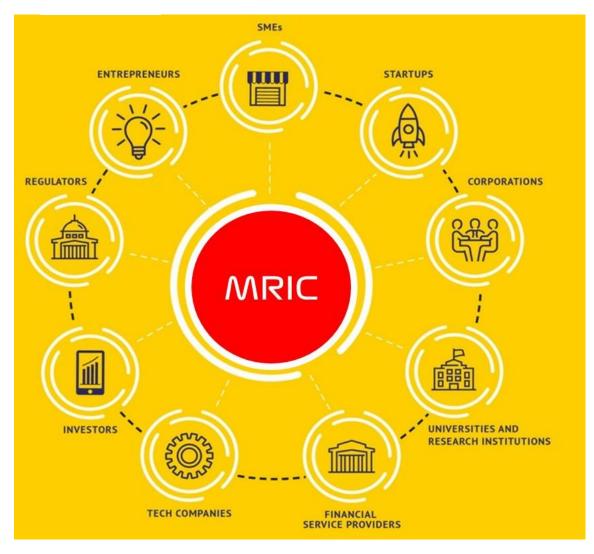
The Republic of Mauritius

Acquired independence since 1968 Became a Republic in 1992



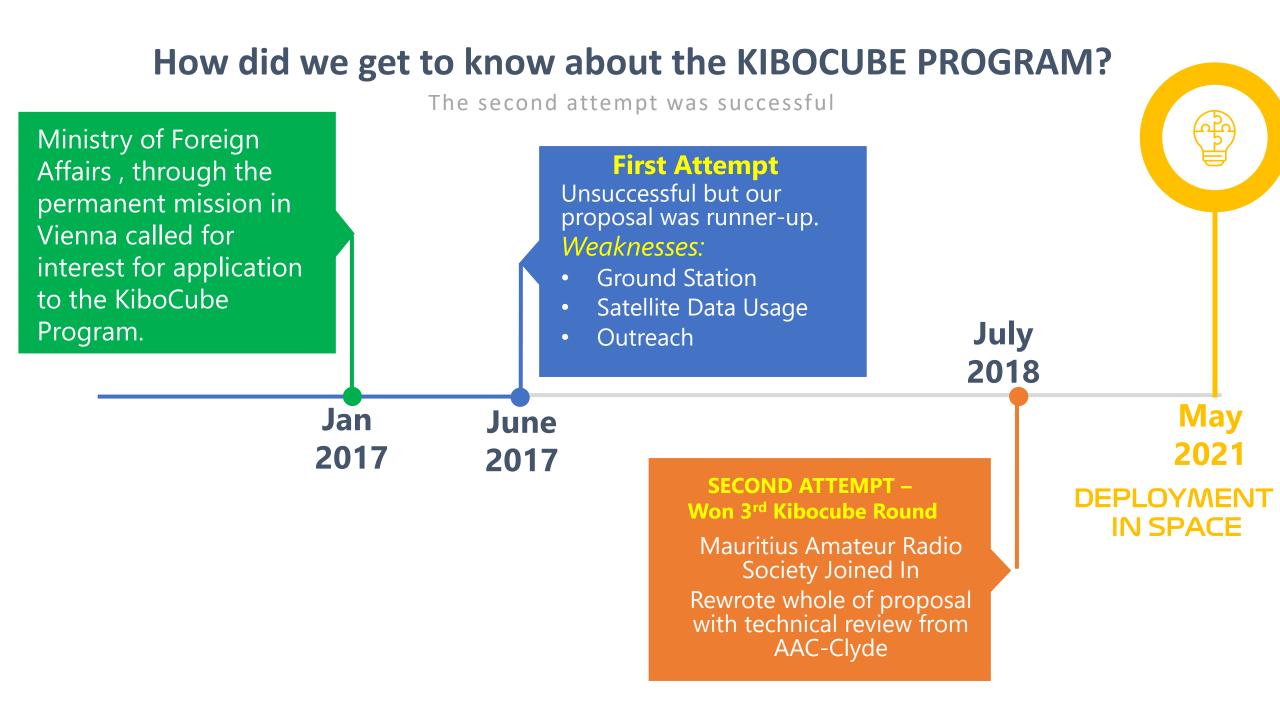
Source: https://en.wikipedia.org/wiki/Mauritius

Mauritius Research and Innovation Council (MRIC)



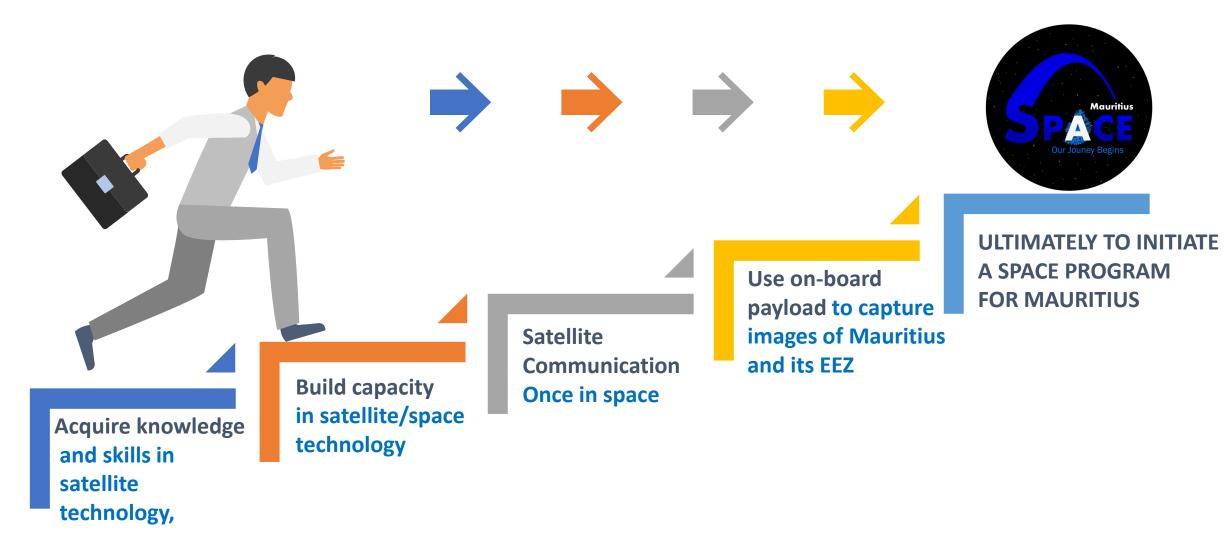
- Apex body, advisor to Government of Mauritius on all matters pertaining to Science Research and Innovation;
- Manages the 'National Innovation Fund' (MUR 100M) earmarked for financing research, development and innovative projects for the socioeconomic benefit of Mauritius;
- Promotes collaboration between the 4 helices: Public private, academia and society;
- Fosters inclusive innovation, creation of new knowledge by Mauritians for Mauritius, builds capacity, engages into regional and international collaborations and seeks to explore new and emerging technologies for betterment of the lives and livelihood of Mauritians

www.mric.mu



AIMS AND OBJECTIVES OF THE FIRST MAURITIAN SATELLITE

BUILDING CAPACITY IN SPACE AND SATELLITE TECHNOLOGY



FIRST MAURITIAN SATELLITE – OPENING NEW OPPORTUNITIES

JOURNEY TO SPACE ALTHOUGH NOT EASY BUT EXTREMELY REWARDING AND OFFERS HIGHLY PROMISING FUTURE

MAURITIUS EMBARKS IN NEW SPACE ERA

- Geolocation interesting for future space related activities
- More advanced space nations interested to collaborate

BOOST TECHNICAL CAPACITY

- Building highly technical capacity
- Sophisticated ground station for future missions set up
- Training of younger generation

► A POTENTIALLY NEW SOCIO-ECONOMIC PILLAR

 Space offers numerous possibilities for Mauritius. Data analytics, opportunities for R&D, business opportunities, intergovernmental collaborations.

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ENTHOUSIASTIC YOUNGSTERS

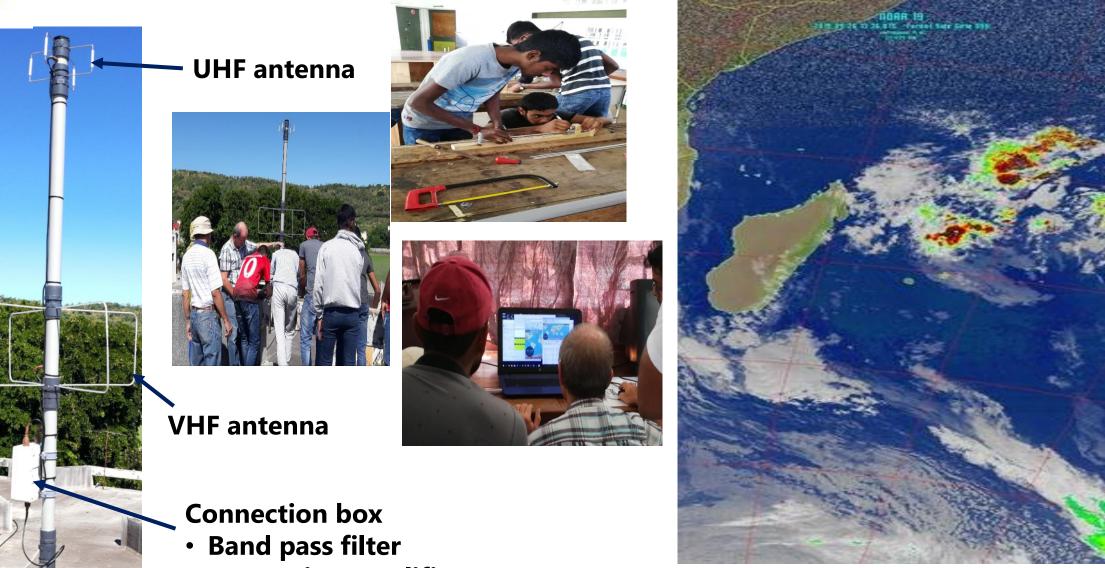
 The training program on antenna building gave us an insight of the high level of enthusiasm for this new field. There is hope to enhance this interest further to build new capacity.

GOVERNMENT FULLY SUPPORTIVE

 This historical initiative for the Republic of Mauritius promises to unlock new opportunities for research, innovation and socioeconomic development.

OUTREACH ACTIVITIES

INTRODUCING SECONDARY SCHOOL STUDENTS TO SATELLITE TECHNOLOGY – LEO Receiving Antenna and Ground Station



Low Noise Amplifier

MARS

KIBOCUBE OPPORTUNITY HAS TRIGGERED NEW AVENUES



다니지 신고 BELIEVE

We need to believe that we can do things on our own







INDEGENOUS KNOWLEDGE

Exchanges between SIDS important. Collaborating can lead to creation of new knowledge and showcasing our own indigenous knowlege



COLLABORATION AND EXCHANGE

SIDS have many commonalities and together we can address threats and find solutions



OUR UNIQUENESS

Unique geographical position of SIDS in ocean can provide opportunities for space exploration

PROMOTING COLLABORATION AMONG SIDS

USING SPACE TO ADDRESS CHALLENGES FACED BY SIDS

SUSTAINABLE GOALS

- As a SIDS Mauritius faces several challenges especially from Climate change
- We envisage using Space/Satellite technology to tackle:



MEET THE MIR-SAT1 TEAM



Dr Vickram Bissonauth

Project Coordinator

Overall project management and coordination



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Faraaz Shamutally Aerospace Engineer Principal Investigator



Ziyaad Soreefan Aerospace Engineer

Co-Principal Investigator



Koushul Narrain Research Assistant

Responsible for Ground Station Implementation



Kiran Tatoree

Research Assistant

Responsible for training of Students for Simplified Antenna and Ground station



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