



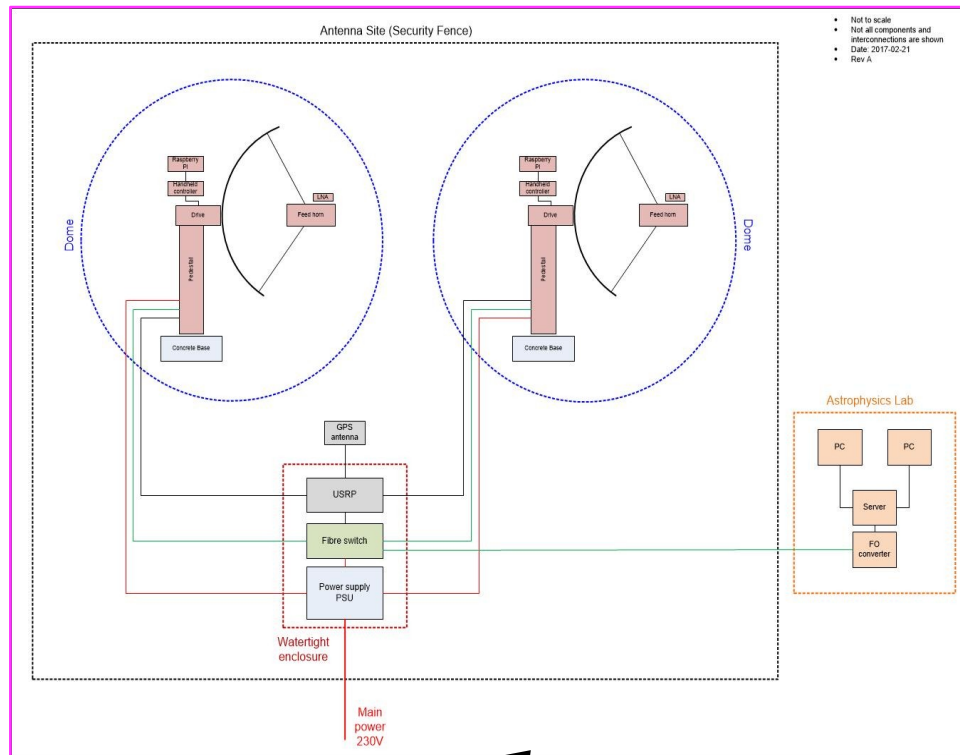
## Activities in Mozambique

### DARA Annual Network Meeting

Cláudio Moisés Paulo  
Faculty of Science  
Department of Physics  
2-4 May 2018

# Mozambique & SKA<sup>1</sup> ERA

- AVN: Botswana, Ghana, Kenya, Madagascar, Mauritius, Mozambique, Namibia and Zambia.
- We are working to be ready: Government commitment (signed MOU<sup>2</sup>), HCD<sup>3</sup>, Astronomy & Space Science Programs, Instrumentation, Outreach and Industry.



Two-Antenna Interferometer (TAI) in Mozambique

<sup>1</sup>Square Kilometre Array.

<sup>2</sup>Memorandum of Understanding.

<sup>3</sup>Human Capital Development.

## Mozambique & SKA ERA: HCD

- Up to date:

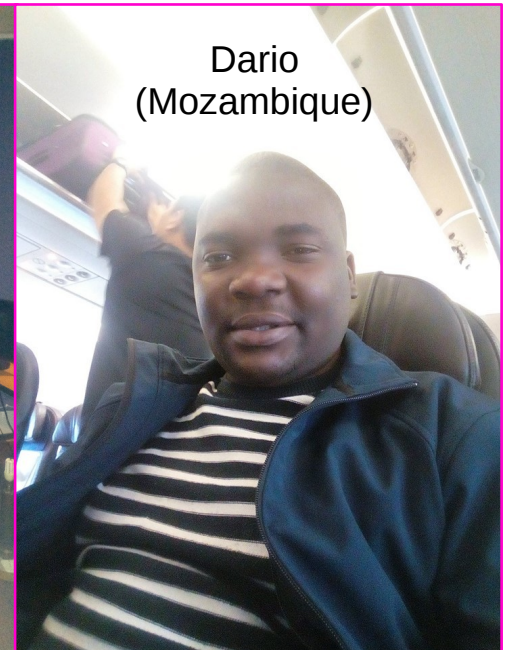
- Based in Mozambique: 4 (Honours-PhD).
- Europe: 2 (Msc-PhD).

- SKA HCD, NASSP<sup>4</sup>, etc.

- DARA.

- DevelOpment of PaloP Knowledge in Radioastronomy (DOPPLER): expected 3 MSc.

- Degree:** Astronomy & Space Science at UEM<sup>5</sup>.



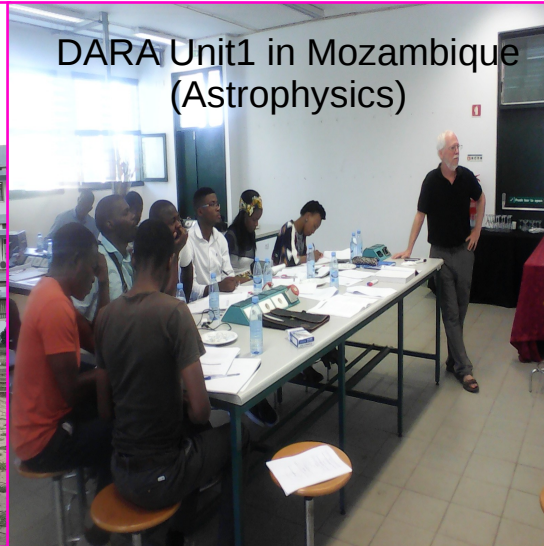
<sup>4</sup>National Astrophysics and Space Science Programme.

<sup>5</sup>Universidade Eduardo Mondlane.

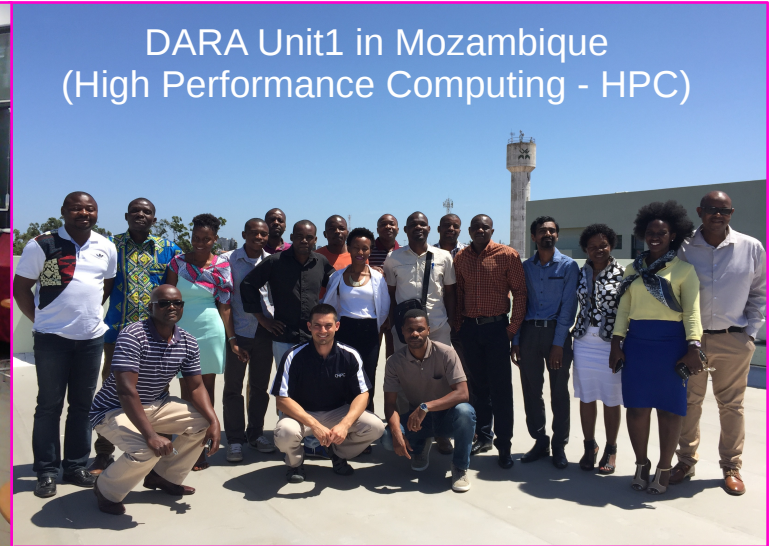
# Mozambique & SKA ERA: HCD (cont.)



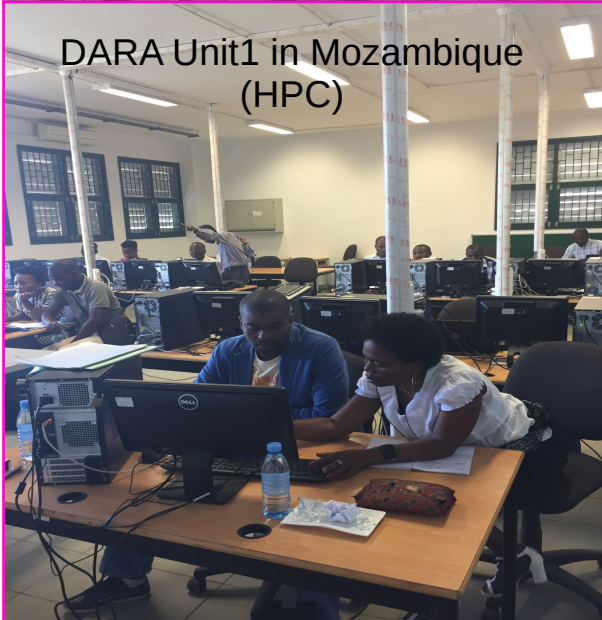
DARA Unit1 in Mozambique (Astrophysics)



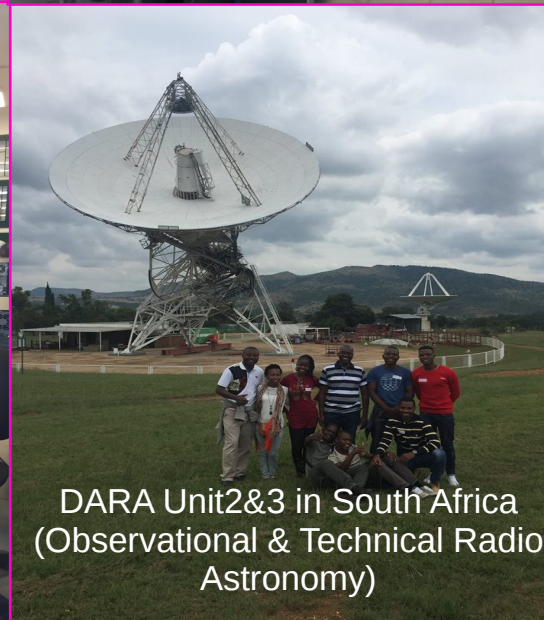
DARA Unit1 in Mozambique (Astrophysics)



DARA Unit1 in Mozambique (High Performance Computing - HPC)



DARA Unit1 in Mozambique (HPC)



DARA Unit2&3 in South Africa (Observational & Technical Radio Astronomy)

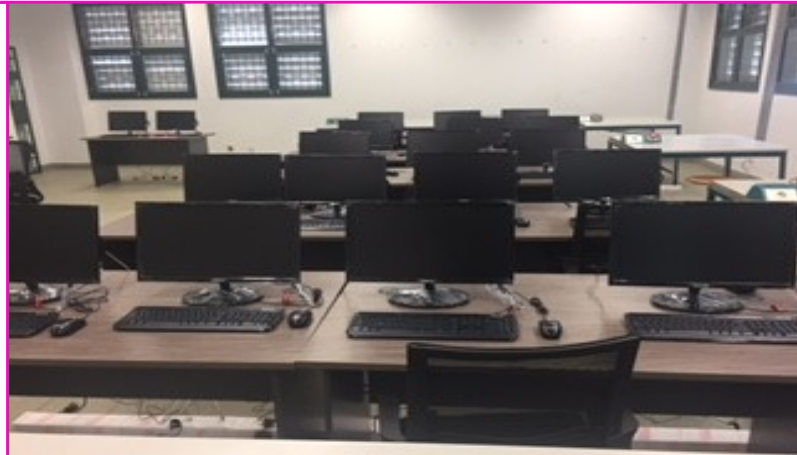
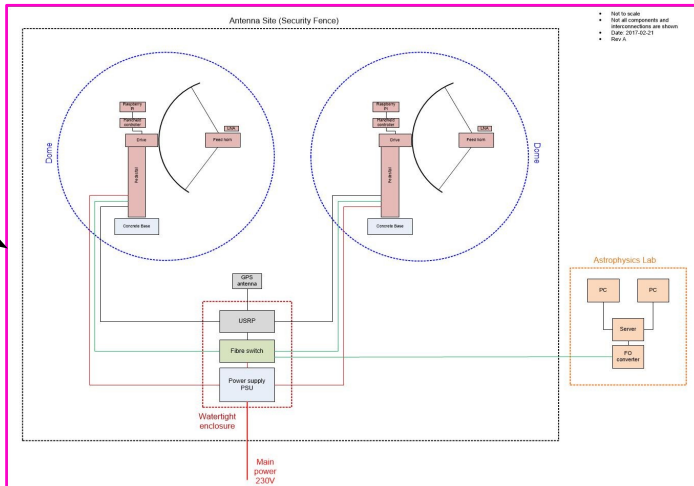


DARA Unit2&3 in South Africa (Observational & Technical Radio Astronomy)

# Mozambique & SKA ERA: Instrumentation

TAI

Computer Laboratory for Astronomy & Space Science at UEM



Centre of HPC

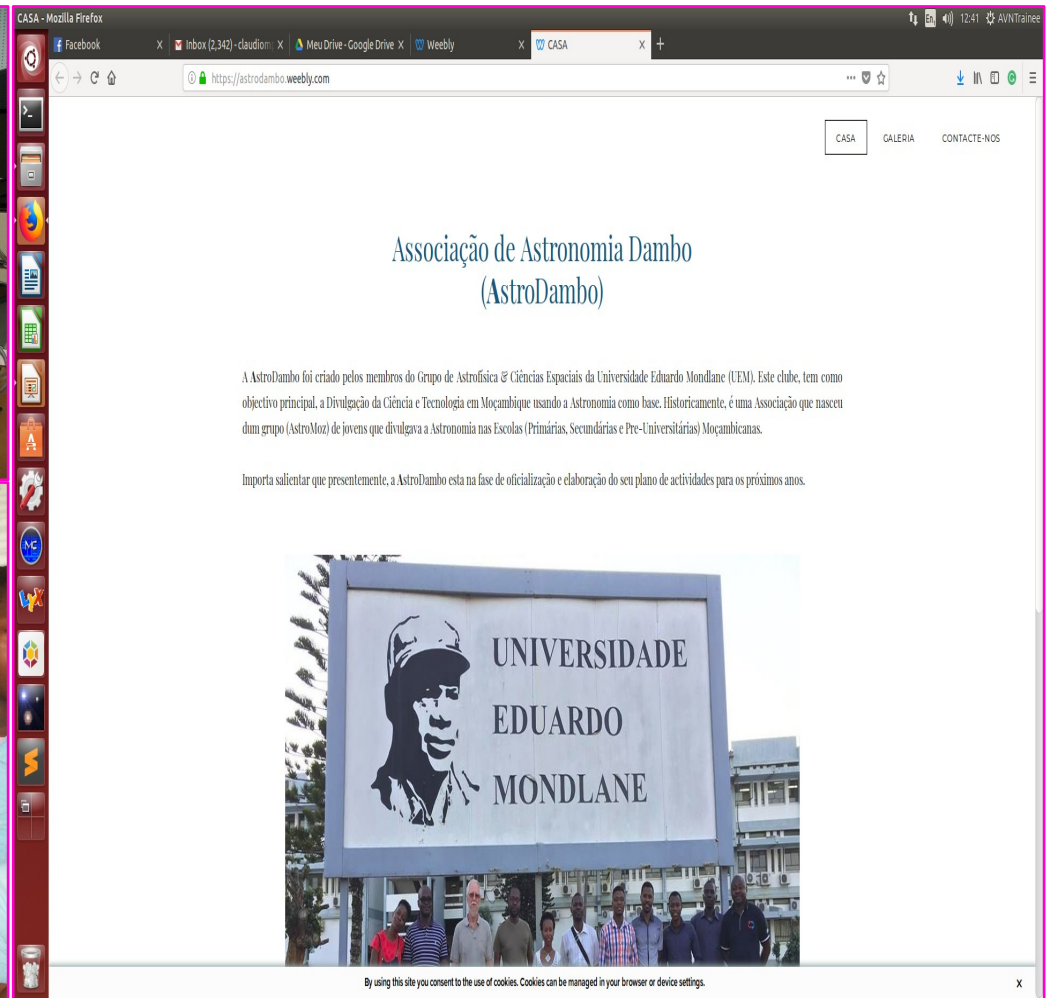


Global Positioning System (GPS)



# Mozambique & SKA ERA: Outreach

- Good way to promote Science.
- **Funds is a big problem:** binocular, telescopes, etc...



CASA - Mozilla Firefox

Facebook X Inbox (2,342) - claudiom X Meu Drive - Google Drive X Weebly X CASA X +


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CASA GALERIA CONTACTE-NOS

## Associação de Astronomia Dambo (AstroDambo)

A AstroDambo foi criado pelos membros do Grupo de Astrofísica & Ciências Espaciais da Universidade Eduardo Mondlane (UEM). Este clube, tem como objectivo principal, a Divulgação da Ciência e Tecnologia em Moçambique usando a Astronomia como base. Historicamente, é uma Associação que nasceu dum grupo (AstroMoz) de jovens que divulgava a Astronomia nas Escolas (Primárias, Secundárias e Pre-Universitárias) Moçambicanas.

Importa salientar que presentemente, a AstroDambo esta na fase de oficialização e elaboração do seu plano de actividades para os próximos anos.



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## Mozambique & SKA ERA: Industry

- Major industries in Mozambique include food, beverages, chemicals (fertilizer, soap, paints), petroleum products, textiles, cement, glass, asbestos, and tobacco.
- Virtually all manufacturing is located in the major urban areas of Maputo, Beira, and Nampula.

- Mozal - Aluminium.
- Sasol - Gas.
- Vale - Coal mine.
- Telecommunication: Mcel, Vodacom and Movitel.



Thanks

SKA, NRF<sup>6</sup>, DST<sup>7</sup>, DARA, UEM, MCTESTP<sup>8</sup> & ... All ...

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<sup>6</sup>National Research Foundation.

<sup>7</sup>Department of Science and Technology.

<sup>8</sup>Ministério da Ciência e Tecnologia, Ensino Superior e Técnico Profissional.