# Development through Radio Astronomy Global Network



**Melvin Hoare** 

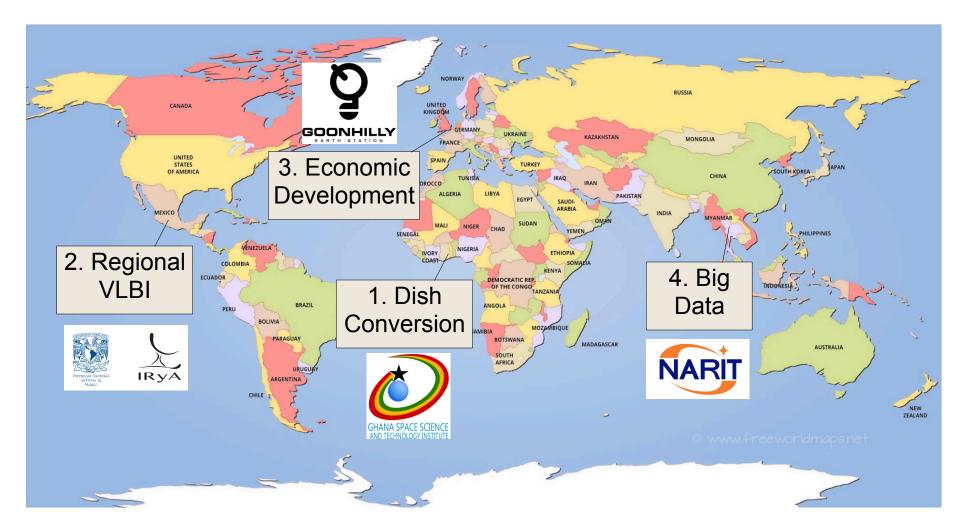
University of Leeds

UK

https://dragn.info

#### Four International Workshops





# **Dish Conversion Workshop**



- 21-25 January 2019, Accra, Ghana
- 24 different countries represented



# A GCRF Project



 The Global Challenges Research Fund uses the UK Government's Overseas Development Assistance (ODA) budget to fund research that addresses challenges in lowand middle-income countries



#### **GCRF** Delivery Partner





#### UK Research and Innovation

 Additional support from EU H2020 project Jumping JIVE



# Origins of this Project



- Bringing together several bilateral projects that are funded by the UK's Newton Fund – another ODA programme – that are ongoing in:
- Africa
- Latin America
- S E Asia



#### The DARA Project



 UK- South Africa radio astronomy training project in 8 AVN/ SKA Partner countries







Development in Africa with Radio Astronomy



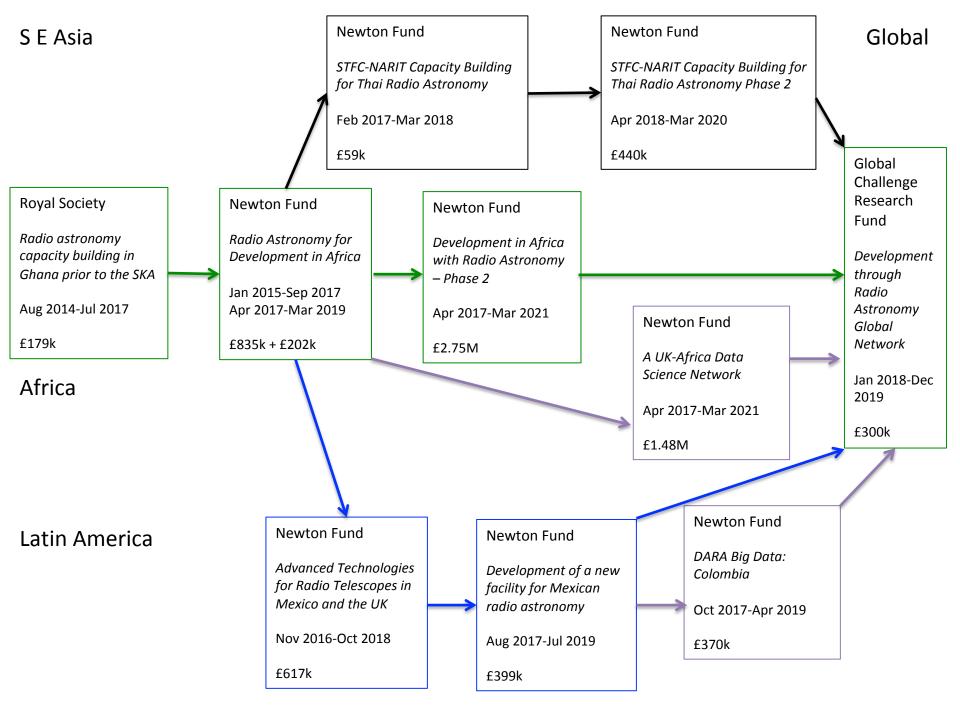


## **Newton Fund Projects**



- UK Thailand
  - Radio astronomy training project
- UK Mexico
  - Radio astronomy instrumentation
  - Dish conversion project at Tulancingo
- UK Colombia
  - Big data training project





## **Regional VLBI Workshop**



- What science can you do with an array of radio telescopes on continental baselines?
  - EVN, VLBA, EAVN, LBA
  - African VLBI Network
  - Latin American VLBI Network?
- ODA Compliance
- What economic benefit can be gained from a network of radio telescopes?

## UN Sustainable Development Goals

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



QUALITY

FUICATION





## UN SDGs

 9.5 to "enhance scientific research, upgrade the technological capabilities of industrial sectors,...encouraging innovation and substantially increasing the number of research and development workers,...and...research and development spending".







**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE





# UN SDGs

 17.6 to "enhance North-South, South-South and triangular regional and international cooperation on and access to science, technology and innovation and enhance knowledge sharing on mutually agreed terms".



PARTNERSHIPS FOR THE GOALS



