



Science & Technology  
Facilities Council

# SFN Launch Meeting

Science and Technology Facilities Council





# Outline

- What is STFC
- What do we do
- Science Programme
- Research Councils
- GFS RCUK
- STFC Capability



Science & Technology  
Facilities Council

# **Science and Technology Facilities Council**

**One of Europe's largest multi-disciplinary  
scientific research organisations**

STFC funds, designs, builds and operates world-class large scale science infrastructure:

- **unique scientific insight**
- **innovative technology**

...to government, academic and industry customers



- Provide large-scale science facilities and programmes for the UK
- A centre of 'science-technology' expertise
- Economic Impact



# What we do



## World Class Research, Innovation and Skills

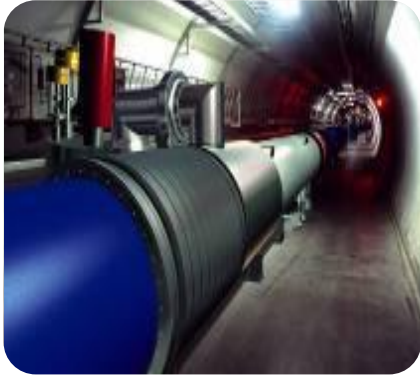
- Broad range of physical, life and computational sciences
- Around 1,700 scientists in particle and nuclear physics, and astronomy
- Access for 7,500 scientists to world-leading, large-scale facilities
- Science and Innovation Campuses at Daresbury and Harwell
- Globally-recognised capabilities and expertise in technology R&D
- Inspiring young people to undertake STEM



Science & Technology  
Facilities Council



# Our science programme



## Particle Physics/Particle Astrophysics

- Revealing the structure and forces of nature – CERN

## Ground based Astronomy

- European Southern Observatory
- Square Kilometre Array



## Space based Astronomy

- European Space Agency
- Bilaterals – NASA, JAXA, etc.

## Nuclear Physics

- Nuclear Skills for - medicine, energy and environmental applications



# Research Council Funding Mechanism

STFC is an independent, non-departmental public body of the Department for Business, Energy and Industrial Strategy.



Arts & Humanities  
Research Council



**RCUK Executive Group**



**Science & Technology  
Facilities Council**

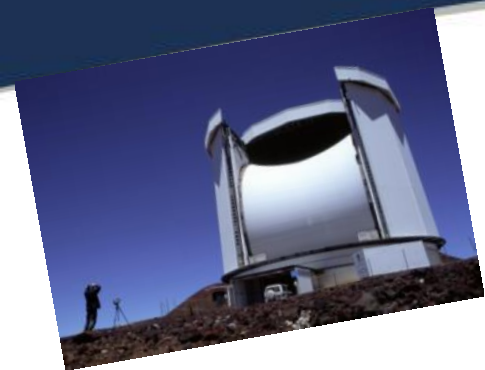


**Science & Technology  
Facilities Council**





Science & Technology  
Facilities Council



JCMT Telescope



CERN: LHC



Diamond Light Source



ISIS



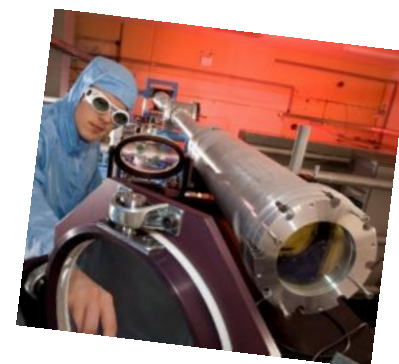
ESA



ILL and ESRF



RAL Space



Central Laser Facility

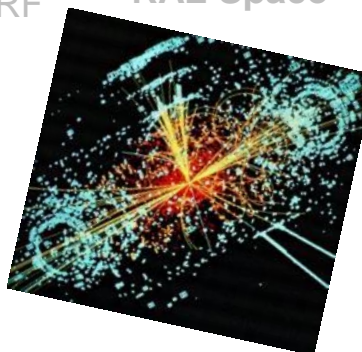


ESO: Alma Array



Science & Technology  
Facilities Council

Funding



Particle physics



High performance computing





## The Global Food Security Programme:

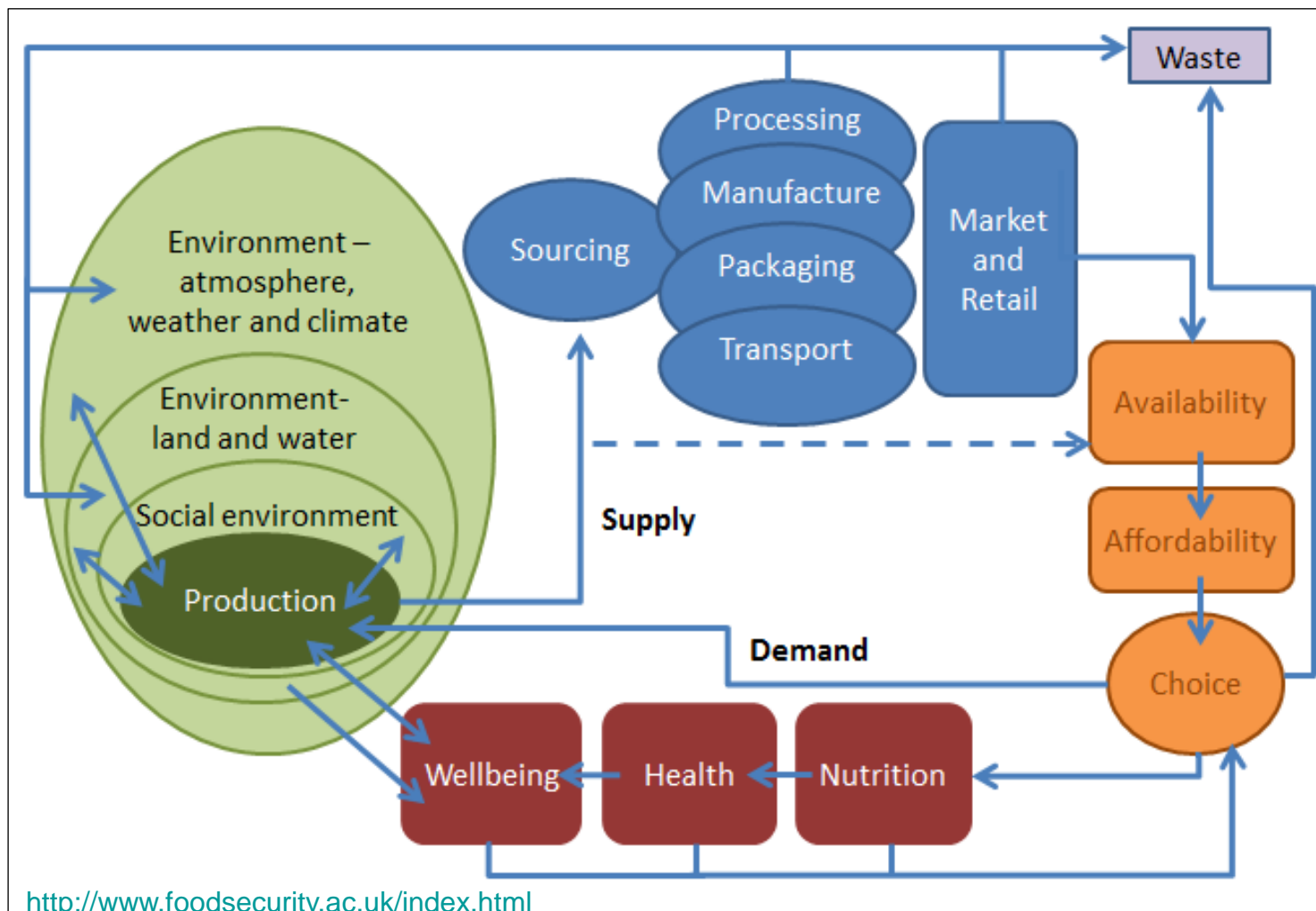
**A collaborative partnership between the UK's major public funders of food-related research (Research Councils, Govt Depts, Devolved Administrations, Innovate UK)**

- 'Federation' of funding agencies and 'one-stop shop' with independent secretariat
- World leading in coordinating across government and other funding agencies
- Single shared high-level strategy
- Food systems and interdisciplinary approach
- Bring together stakeholders to develop common framing of issues - enables collective action & research agenda setting
- Co-design of new research in strategic areas
- Translation of knowledge into policy and practice
- Public engagement
- [www.foodsecurity.ac.uk](http://www.foodsecurity.ac.uk) @FoodSecurityUK





The UK's main public funders of food-related research are working together through the **Global Food Security programme** to meet the challenge of providing the world's growing population with a sustainable, secure supply of nutritious food from less land and using fewer inputs.



GFS and Agri-Tech

How does this theme overlay to STFC Capability Areas?

HPC

Materials

Technology

Remote Sensing

STFC Food Network+

Food Innovation Network

GFS Cross Council Programme

Newton Fund

LEPs

SIN

Agri Centres

Catapults

Others.....



## GFS and Agri-Tech

How does this theme overlay to STFC Capability Areas?

### HPC

- Internet of things
- Big data
- Software Technologies
- ICT

### Materials

- Biotech
- Food Science

### Technology

- Robotics and automation
- UAV
- Sensors

### Remote Sensing

- UAV
- Sensors
- Satellite Applications



# Summary

- What is STFC
- What do we do
- Science Programme
- Research Councils
- GFS RCUK
- STFC Capability



# Questions

Geoff McBride

Mobile: 07899 063899

Email: [geoff.mcbride@stfc.ac.uk](mailto:geoff.mcbride@stfc.ac.uk)

Skype: geoff.mcbride63