



Science and  
Technology  
Facilities Council

# Impact in GridPP6

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GridPP 45 Collaboration Meeting



**GridPP**  
UK Computing for Particle Physics

# Who Am I?

Greg Corbett, STFC – Scientific Computing Department (SCD)

GridPP Impact Officer

- Help raise profile of GridPP's Impact

Other hats

- SCD Public Engagement Coordinator
- GOCDB Service Owner



# What I'm going to talk about

- 1 What is Impact?
- 2 Why is Impact important?
- 3 We are already creating Impact.
- 4 Highlighting and Improving our Impact.
- 5 What I need from you?
  - Is this impact?



# What is Impact?

Isn't just about delivering computing commitments to the LHC.

That's almost a given. That's what STFC gives GridPP money to do.

Impact is about how we do that better than another project.

It's about showing the good that we can deliver whilst meeting those commitments, that others wouldn't.

# What is Impact to UKRI

What does UKRI consider to be it's Impact:

- Improving understanding of ourselves and the world around us
- Improving lives and increasing prosperity
- Addressing industrial and societal challenges
- Relationships with their communities and partners

# Why is Impact is important?

Impact is now a core consideration throughout STFC/UKRI's grant application process.

Impact helps to demonstrate that we are the best people to be doing the work.

If we don't show our Impact, we may start to look less attractive.

# We are already creating Impact

Improving understanding of ourselves and the world around us

- Facilitating non LHC work across STFC science and user base

Improving lives and increasing prosperity

- Outreach talks to schools
- Tours of facilities
- Work experience, Summer students, Year in Industry, etc
- Training workshops

Addressing industrial and societal challenges

- Engagement with industry, i.e. computing vendors
- Engagement with open source projects
- Staff to industry
- COVID-19 work

Relationships with their communities and partners

- Engagement with the broader research community
- IPv6 awards to Imperial College and QMUL

# Highlighting and Improving our Impact

Case studies showcasing our impact

Feeding stories to SCD's Impact Team

- Sharing on social media

Seek new opportunities

- Linking GridPP up with existing STFC public engagement activities



Image credit: Oleg Gernulimsky from Pixabay

## UK reaps significant rewards from CERN membership

In 1954, the UK was one of 12 founding members of CERN, the world's largest particle physics laboratory. CERN now hosts more than 13,000 researchers (including around 1,000 from the UK) from over 75 countries, working in pursuit of answers to fundamental questions about the nature of the Universe. UK membership of this world-famous science facility is managed by STFC.

A recent independent evaluation, which was able to monetise some of the benefits to the UK of membership of CERN, concludes that in the past decade the UK participation in CERN science has delivered a financial return close to investment and brought additional exceptional benefits in terms of science, society, and innovation. According to the authors of the independent evaluation, consultants Technopolis, membership of CERN is a prime example of the positive impacts that international collaboration can have on UK achievements and the development of the social, economic and diplomatic benefits. Highlights include:

### World-class research:

UK scientists and technologists continue to play major roles in breakthroughs made at CERN, where research spans more than 100 scientific fields including particle physics, nuclear physics, astrophysics, accelerator physics, computing, engineering and more. UK scientists were involved in three of the eight Nobel Prizes awarded for work at CERN, including the Nobel Prize in Physics for work on the Higgs boson in 2013. Between 2009 and 2018, some 20,275 UK papers cited CERN; of these, 25% were in the top 10% most-cited papers in their field globally. The Higgs boson publication, with over 8,000 citations, is one of the most highly cited papers not solely in particle physics, but in any subject.

### World-class innovation:

Life-changing breakthroughs in medical, environmental, technological and social spheres have been enabled through the major advancement in technology required for CERN experiments, all of which contribute to the UK's economy. They include the World Wide Web, detectors for PET scanners, touchscreens, fibre-optic sensors and supercomputing.

"Looking beyond the scientific, educational and economic benefits of the UK's membership of CERN, participating in some of the most well-known science experiments in the world enhances the UK public's appreciation of science; there is genuine public interest and excitement in CERN and the science that it supports." - STFC's Executive Chair, Professor Mark Thomson.



Image credit: CERN



# What I need from you?

## Examples of Impact

- Improving understanding of ourselves and the world around us
- Improving lives and increasing prosperity
- Addressing industrial and societal challenges
- Relationships with their communities and partners

## Ideas for case studies

- Non LHC work
- COVID-19
- Public Engagement

# Is this impact? - Mt Impact

Did you do something or make something that didn't exist before?

- Then yes!

Did they have a positive interaction?

How many people interact with it?

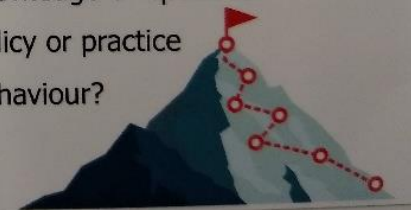
What has changed?

- Knowledge?
- Policy?
- Behaviour?

## Climbing Mount Impact

As you conquer your impact journey be sure to stop at the basecamps along the way to record your journey. Remember you don't need to reach the peak to have a great view.

1. How did the opportunity presented itself?
2. What did you make or do that didn't exist before?
3. How many people interacted with you/it and for how long?
4. Did they have a positive experience?
5. Has there been a change in knowledge or opinions?
6. Has there been a change in policy or practice?
7. Has there been a change in behaviour?





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# Questions?

If you think you've had impact, or know of an impactful piece of GridPP work, let me know: [greg.corbett@stfc.ac.uk](mailto:greg.corbett@stfc.ac.uk)



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