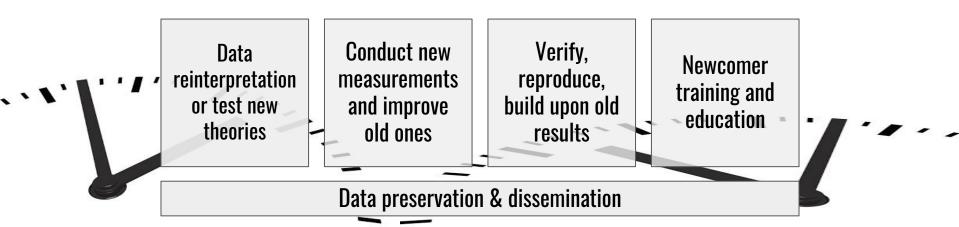
DATA PRESERVATION AND REINTERPRETATION

Ana Trisovic, Harvard University previously with: LHCb, CERN Open Data and CERN Analysis Preservation

Snowmass Community Planning Meeting October 6, 2020

"Ten or 20 years ago we might have been able to repeat an experiment. They were simpler, cheaper and on a smaller scale. Today that is not the case. So if we need to re-evaluate the data we collect to test a new theory or adjust it to new development, we are going to have to be able reuse it."

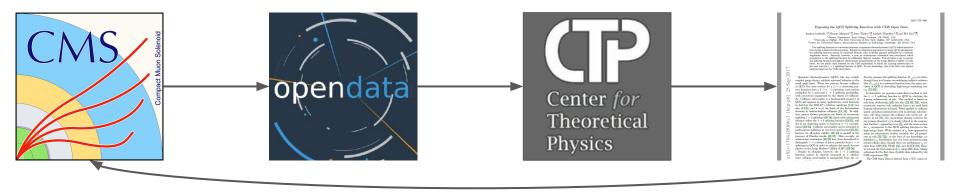
~ Rolf-Dieter Heuer, Director General of CERN in 2009-2015





WHAT ARE THE BENEFITS OF OPEN SCIENCE PROJECTS?

- Detailed data documentation and portable software created for open science projects also help internal researchers and newcomers.
- Resources for data reinterpretation can initiate new collaborations.
- Providing outreach and education resources may positively impact future grant applications.
- Get new physics results (a success story):



Conclusion: To maximize the potential of your HEP experimental data and reap the benefits of open science, it is essential to establish **open data policies** early-on in new collaborations.