EGI Call for use cases

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Title of the use case
Improving refugee education in Uganda: access, quality, equity and community relationships

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Objectives of the use case (scientific and computing objectives separately)
The overall aim of this project is to improve refugee education in Uganda in ways that promote harmonious relationships between refugees and their host communities. The overall objective is to discover what works in policy and practice in providing equitable and quality refugee education in Uganda. Specific objectives are: (1) to examine the extent to which education policies, regulations and institutional interventions inform, and are practised in, refugee settlement schools, (2) to understand the educational experiences and perspectives of refugees and non-refugee learners, and providers and supporters of education on equity and quality education in the selected refugee settlement schools, and (3) to examine the impact of refugee education provided on the relationships between refugees and host communities.

Beneficiaries* of the use case and expected impact, (incl. contribution to Open Access and FAIR) and estimated number of users of the setup. *Who will use or benefit from the envisaged compute setup? A specific team, or a broader group of users? Researchers, policy makers? From which countries and institutes? - Please characterise and estimate the number of these beneficiaries.
The beneficiaries are the membership of African Union of Conservationists (AUC) that is distributed around Africa and its partnership that include Centre for Trust, Peace and Social Relations at Coventry University, Makerere University students where AUC us hosted and the team of interns. In addition AUC is in collaboration with Supply Chain Health Consortium (SCHC) a global network that is undertaking research on health that we lead in Uganda.

Description of the technical environment that is already used (institutional cluster, grid, cloud computing, HPC, data storage, data repositories, data management systems, data discovery services, etc...)
AUC links with agencies in Uganda that host data banks which include the Uganda Node of GBIF, National Biodiversity Data Bank, Uganda National Council for Science & Technology, National Environment Management Authority (NEMA) in Uganda. Since my summer school training of CODATA and RDA at ICTP Trieste in 2017 these linkages were developed. AUC has MoUs with these institutions and are geared towards implementing our work program of 2017 - 2027. This technical environment require new exposure by participating in this training.

Description of the requested EGI services, technical support and training required with as many details as possible - topics, functionalities, capacity (number of nodes, CPU, RAM, storage), location, etc...
The request service includes all new changes that have happened from the foundational- topics, functionalities, capacity and the number of nodes, CPU, RAM, storage), location, will be delineated based on the stakeholders that will be involved..

Scientific applications, platforms and datasets to be used in the context of the use case
In the context of Uganda, we plan to identify a set of robust scientific data, platforms, and datasets that are instrumental in achieving the objectives outlined in the requirements. These tools will be carefully selected to ensure precision, reliability, and relevance to the scientific data analysis platforms and applications is of interest. Nonetheless, the request is vital in advancing data analysis capabilities, enabling researchers to process and interpret complex datasets efficiently. Its modular ecosystem allows for customization, making it adaptable to the specific needs of our use case respectively. We plan to focus and include simulation and modeling, hoping that it will provide a powerful environment for running simulations that closely mimic real-world scenarios. In addition with proven effective in environment, biodiversity and climate change and is integral to the investigative process in our use case. This interaction will offer a collaborative environment for stakeholders to share and analyze data securely. In line with available data facilities seamless collaboration, ensuring that multiple stakeholders can contribute to and benefit from the insights generated. Further it will streamline the workflow by integrating various tools and data sources. Its user-friendly interface enhances accessibility, making it an ideal choice for researchers with diverse technical backgrounds. A comprehensive dataset containing integration such as dataset is crucial for training models and validating hypotheses, providing a solid foundation for the analytical aspects of our use case. Curated specifically for our work, this dataset encompasses. Its high quality and extensive coverage make it an indispensable resource for achieving accurate and meaningful results in our research. Incorporating these scientific applications, platforms, and datasets into our workflow ensures that we leverage cutting-edge technology and data resources, ultimately enhancing the robustness and validity of our scientific investigations in the context in all our projects .

Expected timeline for implementation and use of the EGI services

1. Planning Phase (Months 1-4):
- •⬜Project preparation in with the objectives and requirements
- •⬜Identify specific EGI services needed for the project
- •⬜Assess ecosystem compatibility and readiness.
- •⬜Establish a project team and assign roles.

2. Research and Consultation (Months 5-8):
- •⬜Engage with EGI representatives for consultations.
- •⬜Explore available documentation and support resources.
- •⬜Evaluate feedback from other users who have implemented similar services.

3. Proposal and Approval (Months 9-10):
- •⬜Develop a comprehensive proposal for the use of EGI services.
- •⬜Submit the proposal to relevant stakeholders for approval.
- •⬜Address any feedback or concerns raised during the review process.

4. Training and Skill Development (Months 11-14):
- •⬜Identify team members who require training on EGI services.
- •⬜Schedule and attend training sessions offered by EGI.
- •⬜Develop expertise within the team for effective utilization of services.

5. Deployment and Configuration (Month 15-20):
- •⬜Initiate the deployment of EGI services according to project requirements.
- •⬜Configure the services to align with specific project needs.
- •⬜Conduct testing to ensure proper integration with existing infrastructure.

6. Testing and Quality Assurance (Months 21-24):
- •⬜Execute comprehensive testing procedures on the implemented EGI services.
- •⬜Identify and address any issues or performance bottlenecks.
- •⬜Ensure compatibility with other tools and systems in the environment.

7. User Acceptance Testing (Months 25-28):
- •⬜Involve end-users in testing the functionality of EGI services.
- •⬜Gather feedback and make necessary adjustments.
- •⬜Confirm that the services meet user expectations and project requirements.

8. Full Deployment (Months 29-32):
- •⬜Roll out the EGI services for full-scale usage.
- •⬜Monitor performance and address any issues in real-time.
- •⬜Establish procedures for ongoing maintenance and support.

9. Operationalization and Documentation (Months 33-36):
- •⬜Develop documentation for users and administrators.
- •⬜Establish protocols for ongoing monitoring, maintenance, and troubleshooting.
- •⬜Ensure that the team is well-versed in handling day-to-day operations.
- •⬜Regularly evaluate the performance and efficiency of EGI services.
- •⬜Optimize configurations based on user feedback and changing project needs.
- •⬜Plan for periodic reviews and updates to leverage new features or improvements.

Additional requirements and comments

Our trainees will learn from working in a multidisciplinary and multisectoral team from the memberships countries, such as using new research methods and analysis, engaging with academic writing and presentation, creating outputs for different audiences and stakeholders.

Relevant websites and/or social media channels

AUC, UNCST, Coventry University websites will be updated to included the results and project progress. LinkeddIn will be the main sharing social media where our work results will be openly shared, followed by facebook and X.