

PROPOSAL FORM FOR CSC GRAND CHALLENGE PROJECT

1/2017

BASIC INFORMATION

Project title

Project acronym

Principal investigator

Affiliation

Email address

Public abstract

CSC will use this abstract (with some other basic information, such as the size of the project) when publishing the selected proposals. Max 200 words.



PARTICIPATING RESEARCHERS

List the participating researchers and their job titles (give also their affiliations if different from that of PI). Give a short description of the intended role for each researcher.



PREVIOUS GRAND CHALLENGES

If you have had previous GC projects, please make a summary of its results, including publications and other deliverables of the research. Max 500 words.



SCIENTIFIC OBJECTIVES

A description of the Grand Challenge and its relevance. Describe the novelty and possible impact. Describe the added value of a GC project (in comparison to a standard project). The description must be concrete and well-defined and address a specific unresolved scientific problem. Max 500 words.

CHALLENGES AND METHODS

Describe the computational and/or data challenges and the proposed method(s) to address the Grand Challenge problem. Give justification for the required resources and special arrangements. Max 300 words.

SOFTWARE AND SCALABILITY

The required software and its scalability. Give details on how far the software scales and the systems it has been tested on. Describe also the previous usage of the software within the project group. Max 200 words.

REQUIRED RESOURCES

Fill in the estimated resource requirements where applicable.

Cpu time	Cpuh		
Size of parallel jobs	min	max	cores
Number of simultaneous serial jobs			
Min. memory requirements		GB per core	
Runtime data storage requirements		TB	
Data storage requirements for the duration of the project		TB	
Archival requirements		TB	

Database requirements

Network requirements for data transfer from/to CSC's systems

Preferred system	Sisu	Taito	cPouta	ePouta
------------------	------	-------	--------	--------

Additional notes, including the need for human resources for porting, optimizing, data analysis etc.

TIMETABLE

Give an estimated timetable to the project (in terms of required time periods, not specific dates). Describe also the readiness to start the project i.e. is the model/software etc. ready. Max 300 words.

REFERENCES

List the most relevant references produced by the participating groups.