# Course project for NTF004F - Distributed Computing Concepts and Tools

The project constitutes a toy proposal for an e-Infrastructure to support a research task, or several research tasks. An e-Infrastructure should consist of at least computing and storage facility, and if necessary – of network or other relevant components. A description of services to be provided by such an e-Infrastructure should be given as well (batch system, databases, user portals, data management solutions etc). Data Management Plan must be added as Annex 1. Page limit: 5 pages (Annex 1 excluded).

## 1. Title

## 2. Applicants

## 3. Short summary

Short summary, maximum 200 words, on a popular level that can be understood by researchers from other areas.

## 4. Scientific justification

Explain which research tasks will be supported by the e-Infrastructure and what results can be achieved with its help.

## 5. Description of the infrastructure

Describe the equipment and other relevant components, including human expertise. Motivate the choice of equipment and services. Describe security considerations.

## 6. Users and accessibility

Describe who will be using the e-Infrastructure, estimate number of users. Explain how can the e-Infrastructure and services be accessed by the researchers and other user groups, discuss authorisation policies.

## 7. Data management

Provide a high-level overview of data that will be created or processed at the infrastructure, and how it will be handled. For example, if the infrastructure will store data, explain how will it be made accessible, on which conditions and for how long. Add the actual DMP in Annex 1.

## 8. Similar infrastructures

If there is a similar e-Infrastructure elsewhere (an existing data center or such), compare it to the one proposed by you and elaborate if they can be used simultaneously.

## 9. Placement

Describe where will the infrastructure be placed. Consider requirements such as floor space, cooling, power supply etc.

## 10. Budget

List and discuss budgeted items (equipment, human resources, software licenses etc) and try to estimate costs, when possible, for the duration of the project (upfront investments and long-term support).

# Annex 1: Data Management Plan

Use any online tool or template to create a DMP. Some suggested resources:

* <https://snd.gu.se/en/data-management/data-management-resources>
* <http://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/data-management_en.htm>
* <https://dmponline.dcc.ac.uk>
* <https://easydmp.sigma2.no>