Memorandum of Understanding between C3S and INDIGO-DataCloud

1. Background

C3S, the Scientific Computing Competence Centre of the University of Torino is an Interdepartmental Research Centre that focuses on Scientific Computing technology and applications and manages OCCAM, a multipurpose HPC Cluster.

INDIGO-DataCloud is a project funded under the Horizon2020 framework program of the European Union. It aims at developing a data and computing platform targeting scientific communities, deployable on multiple hardware and provisioned over hybrid (private or public) Grid, Cloud and HPC e-infrastructures.

2. Purpose

Purpose of the present Memorandum of Understanding is to define the collaboration between C3S and INDIGO-DataCloud for the use and development of advanced tools for Scientific Computing, particularly for heterogeneous use-case management in an HPC infrastructure context.

C3S needs advanced tools to facilitate access and use of its infrastructure from a very large and diverse range of users and use cases, from standard HPC to more cloud-like access and the tools provided by INDIGO-DataCloud may cater to this need.

Conversely, INDIGO-DataCloud aims at providing services that can be deployed on different platforms and enable the interoperability of heterogeneous e-infrastructures. C3S is an interesting opportunity to test such capabilities.

3. Terms of the collaboration

C3S will evaluate those of the software tools, developed by INDIGO-DataCloud, that will be deemed useful for its use case, integrating them in the management layer of the OCCAM supercomputer. C3S will give feedback to INDIGO-DataCloud about the use of the tools, report about their performance and suitability for the purpose.
In addition, **C3S** will acknowledge the contribution from **INDIGO-DataCloud** in its documents, scientific products and technical reports whenever they are produced making use of the technologies developed by the project.

**INDIGO-DataCloud** will support the deployment of its services onto the C3S infrastructure. If needed, it will collaborate with C3S in adapting and porting the tools to the specific use cases, giving support on a best-effort basis and providing, whenever feasible, patches and customisations for its software products.

In addition, **INDIGO-DataCloud** will acknowledge any contribution from **C3S** in its reports and deliverables, and give visibility to the collaboration in its public web pages.

### 4. Communication

In order to facilitate communication between the parties, **INDIGO-DataCloud** shall designate one of the project members as contact person for the collaboration. At the end of the collaboration, **C3S** will produce a report on the activity that will be published on its public website and presented as a contribution at an international conference in the field of Scientific Computing.

### 5. Funding

No funding is required by any of the Parties for the discharging of its respective responsibilities. All activities will be undertaken on a best-effort basis and as long as they are compatible with the parties' institutional tasks and priorities.

### 6. Entry into force, duration and termination

This MoU will enter into force when signed by the authorized representatives of the Parties and shall remain in force until upon termination of the projects in which the Parties participate, or upon three months prior written notice by one Party to the other. In the event of termination, the parties shall endeavour to reach agreement on terms and conditions to minimise negative impacts on the other Party. In the event of the continuation of the present cooperation, the Agreement may be extended and/or amended by mutual agreement in writing.
7. Amendments

The MoU may be amended by written agreement of the Parties. Amendments shall be valid only if signed by the authorized representatives of the Parties.

8. Governing law and dispute resolution

The terms of this MoU shall be interpreted in accordance with their true meaning and effect independently of national and local law. Provided that if and insofar as this MoU does not stipulate, or any of its terms are ambiguous or unclear reference shall be made to the substantive laws of Italy. Disputes shall be resolved by amicable settlement or failing which by arbitration in accordance with established practices.

IN WITNESS WHEREOF, the Parties have caused the duly authorised representatives to sign two originals of this Memorandum of Understanding, in the English language.

The following agree to the terms and conditions of this MoU:

Dr. Davide Salomoni

INDIGO-DataCloud Project Coordinator

Prof. Massimo Masera

C3S President