Portuguese **Distributed Computing** Infrastructure

Adaptation of services and virtual research environments (Mi4.2)

Execution report

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List of Acronyms

FCT	Fundação para a Ciência e a Tecnologia
INCD	Infraestrutura Nacional de Computação Distribuída / National Distributed Computing Infrastructure

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Executive summary

The present report describes the status of the pilot use cases defined in milestone 4.1. For each use case scenario the status is analysed and a brief summary is elaborated.

Introduction

The INCD is a scientific digital infrastructure with the overall objective of providing computing and storage services to the Portuguese academic and scientific community in all domains of knowledge, enabling scientific research and development across all smart specialisation domains.

The present report describes the status of implementation of the pilot use cases and for each use case scenario the status is analysed and a brief summary is elaborated.

Current status of Pilots implementation

The following presents a summary of the phase 1 pilots current status and deployment:

Pilot number	Pilot acronym/short name	Current status of deployment
1	BridgeGate	not started due to delay from the user community
2	City Energy	not started due to delay from the user community
3	OpenFOAM	Full implemented and running on INCD-Lisboa and Minho nodes
4	StreamSim	not started due to delay from the user community
5	OPENCoastS	Full implemented and running on INCD-Lisboa Service available: https://opencoasts.ncg.ingrid.pt/
6	WorSiCa	Started and part of approved project: EOSC-synergy grant 857647
7	RESTATE_INCD	not started due to delay from the user community
8	SCHISM	Ongoing and no major issues found.
9	RESCCUE RAF APP	not started due to delay from the user community
10	CERN/LHC Experiments - ATLAS and CMS	Full implemented and running at INCD-Lisboa node. More than 20M CPU hours delivered

11	Cosmic Rays Physics	Full implemented and running at INCD-Lisboa node. More than 1M CPU hours delivered
12	Space Applications	Full implemented and running at INCD-Lisboa node
13	Neutrino Physics	Full implemented and running at INCD-Lisboa node
14	GBIF	Full implemented and running at INCD-Lisboa node
15	Multi-omics	Full implemented and running at INCD-Lisboa node.
16	INNUENDO	Full implemented and running at INCD-Lisboa node.