**RI eCONCERTATION MEETING**

**Inventory of training activities in ongoing RI projects**

**Group VI** Skills and Training

* LEARN - draft
* OpenDreamKit - draft
* PRACE - draft
* OpenAIRE2020 -draft
* GEANT FPA
* E-CAM

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### LEARN (Leaders Activating Research Networks: Implementing the LERU Research Data Roadmap and Toolkit)

### <http://cordis.europa.eu/project/rcn/194936_es.html>

***Start Date:*** *01/06/2015* ***Duration:*** *24 months*

*LEARN aims to address the challenges of the Work Programme concerning the fragmentation of e-infrastructures and the need to maximize on global research data.*

*LEARN will hold a series of Workshops within four European countries (UK, Spain, Switzerland, Netherlands) and one international country (Chile). The workshops will serve to advocate the Recommendations on RDM and open data made by the LERU Roadmap, and gain feedback from Workshop attendees for a new Toolkit of best practice.*

One of the working groups is on e-learning.

*Project web page:* [*http://www.learn-rdm.eu/www.learn-rdm.eu*](http://www.learn-rdm.eu/www.learn-rdm.eu)

*University College London -****UCL*** *Universitat de Barcelona -****UB*** *Stichting Liber -****LIBER*** *Universitat Wien -****UNIVIE*** *United Nations Economic Commission for Latin America and the Caribbean -****UN-ECLAC***

**OpenDreamKit** <http://opendreamkit.org/>

OpenDreamKit: Digital Research Environment Toolkit for the Advancement of Mathematics

*Internal note: SOTON is partner*

*OpenDreamKit will deliver a flexible toolkit enabling research groups to set up Virtual Research Environments, customised to meet the varied needs of research projects in pure mathematics and applications and supporting the full research life-cycle from exploration, through proof and publication, to archival and sharing of data and code.*

*OpenDreamKit will be built out of a sustainable ecosystem of community-developed open software, databases, and services, including popular tools such as LinBox, MPIR, Sage (sagemath.org), GAP, PariGP, LMFDB, and Singular. We will extend the Jupyter Notebook environment to provide a flexible UI. By improving and unifying existing building blocks, OpenDreamKit will maximise both sustainability and impact, with beneficiaries extending to scientific computing, physics, chemistry, biology and more and including researchers, teachers, and industrial practitioners.*

*We will define a novel component-based VRE architecture and adapt existing mathematical software, databases, and UI components to work well within it on varied platforms. Interfaces to standard HPC and grid services will be built in. Our architecture will be informed by recent research into the sociology of mathematical collaboration, so as to properly support actual research practice. The ease of set up, adaptability and global impact will be demonstrated in a variety of demonstrator VREs.*

*We will ourselves study the social challenges associated with large-scale open source code development and of publications based on executable documents, to ensure sustainability.*

The work plan described in the proposal includes 9 objectives.

Objective 9: Promote and disseminate OpenDreamKit to the scientific community by active communication, workshop organisation, and training in the spirit of open-source software.

**Training and related activities**

* Work Package 2 includes providing training for partners inside the project , the community and end-users of opendream kit. training activities such as workshops and mutual visits by participants see T2.2 training and training portal (p 36) led by Université de Paris Sud.
* T2.2 Training and training portal M0-M48@.1; M0-M1 Sites: UPSud (lead) Training is at the heart of this project: through our open source approach, networking activities, workshops, demonstrators (T2.10), interactive books (such as in T4.13 and T2.9), and training for teachers and trainers (T2.6), we have firmly integrated the training aspect into the core of our project plan.
* Each of ctivities will create dedicated webpages hosting the material to make it accessible to public as wide as possible — in line with our philosophy for software, we believe in the benefits of sharing the material and maximising the value of the financial investment into this project. In this task, we create a central OpenDreamKit training portal that serves as an inclusive point of entry to explore available training materials. This will be hosted on the projects website (T2.1).
* Among the dissemination activities, and post project activities, point 3 training of PhD students in maths informatics and other disciplines… (proposal, p. 24)
* And long term sustainability envisages feedback and improvements trough specific developments and training services delivered by companies like Logilab…

Partners: 12 universities, from France, UK, DE and Poland and CH and research laboratory, the CERN and a private company Logilab.

Courses proposed include courses for lecturers and course materials on using opendreamkit in data science and education <https://github.com/OpenDreamKit/OpenDreamKit/labels/WP2>

**PRACE**

<http://www.prace-ri.eu/>

Start date: 01/02/2015: Duration: 27 months

PRACE, the Partnership for Advanced Computing, was established in May 2010 as a permanent pan-European High Performance Computing service providing world-class systems for world-class science. Six systems at the highest performance level (Tier-0) are deployed by Germany, France, Italy and Spain providing researchers with over 9 billion core hours of compute time.

The objectives of PRACE-4IP are to build on and seamlessly continue the successes of PRACE and start new innovative and collaborative activities proposed by the consortium. These include: assisting the transition to PRACE 2.0; strengthening the internationally recognised PRACE brand; continuing advanced training which so far provided more than 15.000 person-training days to over 4700 persons, preparing strategies and best practices towards exascale computing, coordinating and enhancing the operation of the multi-tier HPC systems and services, and supporting users to exploit massively parallel systems and novel architectures.

The project structure will be used to achieve each of the objectives in six dedicated work packages. The project will continue to be managed by Jülich. The activities are designed to increase Europe's research and innovation potential especially through: seamless and efficient Tier-0 services and a pan-European HPC ecosystem including national capabilities; promoting take-up by industry and special offers to SMEs; analysing new flexible business models for PRACE 2.0; proposing strategies for deployment of leadership systems; collaborating with the ETP4HPC, the coming CoEs and other European and international organisations on future architectures, training, application support and policies.

PRACE Fourth Implementation Phase (PRACE-4IP) project (PRACE Implementation Phases) <http://www.prace-ri.eu/prace-fourth-implementation-phase-prace-4ip-project/>

Among its objectives: Increase European human resources skilled in HPC and HPC applications. The project will contribute by organizing highly visible events, enhancing the state of the art training provided by the PRACE Advanced Training Centres (PATCs), targeting both the academic and industrial domains. On-line training will be improved and a pilot will assess a Massively open online Course (MooC). Training is addressed by Work Package 4 .

PRACE has a training portal with a calendar of events, training courses, tutorials, materials and a blog. <http://www.training.prace-ri.eu/nc/training_courses/index.html>

**OpenAIRE2020** [**https://www.openaire.eu/**](https://www.openaire.eu/)

Start date: 01/01/2015 Duration: 42 months

OpenAIRE2020 represents a pivotal phase in the long-term effort to implement and strengthen the impact of the Open Access (OA) policies of the European Commission (EC), building on the achievements of the OpenAIRE projects.

To ensure sustainability and long-term health for the overall OpenAIRE infrastructure, the proposed OpenAIRE2020 project will establish itself as a legal entity, which will manage the production-level responsibilities securing 24/7 reliability and continuity to all relevant user groups, data providers and other stakeholders.

50 partners, from all EU countries, and beyond, will collaborate to work on this large-scale initiative that aims to promote open scholarship and substantially improve the discoverability and reusability of research publications and data. The initiative brings together professionals from research libraries, open scholarship organisations, national e-Infrastructure and data experts, IT and legal researchers.

A series of events are planned, but no formal training activities are currently described