

Funding Opportunities

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Funding Opportunities for multi-disciplinary projects

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Outline

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Background

- Data Preservation discussions have been going on for many years now:
 - In the context of LEP: “DG visit to Jerusalem”;
 - In the wider context: IEEE MSS etc;
 - In the context of DPHEP.
- First discussions of FP8 (2014 – 2020): a clear opportunity for funding!

FP8 (aka Horizon 2020)

- First calls for proposals: late 2013
- Now: (still) opportunity to influence areas that early calls will address
- Now: not too early – even late – to start building partnerships for preparing proposals

FP7

- Two recent calls to which DP proposals have been submitted:
 - ILDAP (CERN, CNRS, DESY) – not funded;
 - PODDS (CERN, INFN, MPG) – news in July 2012.
- The motivation for writing these proposals has been as part of preparations for FP8
- We have learned a lot in the process
- We had better listen!

ILDAP (November 2011)

- International Long-term Data and Analysis Preservation: CERN, CNRS, DESY
 - INFRA-201203.2: *International cooperation with the USA on common e-infrastructure for scientific data (CSA-CA)* (coordination)
- Objectives:
 1. Through collaboration with related projects in the US, take the recommendations of the Data Preservation in HEP for Long-Term Analysis [DPHEP] study group and carry them to a wider scope scientifically and to the LHC scale in terms of volume and duration;
 2. Establish the requirements and standards to be used throughout the project and develop first a demonstrator and later a prototype based on these (see associated milestones and deliverables);
 3. Ensure the full engagement of the LHC experiments, themselves international collaborations with significant components in both Europe and the US, in data preservation activities for the data that is currently being acquired.
- Requested grant: EUR1.3M
- **Evaluation: Scientific & Technical Excellence: 2.5/5; Quality and Efficiency of Management: 3/5; Impact: 4/5; Total: 9.5/15, threshold 10/15**
- *The proposal is **narrow**, both in terms of scientific discipline (only HEP is covered) and in terms of problem domain (long term preservation), and as such is **not well aligned** with the call's objective to establish "a EU-US coordination platform aimed at full interoperability of scientific data infrastructure".*
- *The problem is **convincingly** described and the need to address it at an global scale is **well-motivated***

PODDS (April 2012)

- PRESERVATION OF DATA for the DIGITAL SOCIETY – FP7-ICT-2011-9 (CSA-**SA**) (CERN, INFN, MPG)
- **Tried to learn from previous review!**
- This was a **clean-sheet** proposal that took call and expanded on it!
- *ICT-2011.4.3 Digital Preservation*
 - a) More reliable and secure preservation technologies and methods
 - b) Technologies and systems for intelligent management of preservation
 - c) Interdisciplinary research networks
 - d) **Promotion schemes for the uptake of digital preservation research outcomes** including outreach to new stakeholders and **road mapping activities**.

Funding schemes:

a) STREP; b) IP; c) NoE d) **CSA**

CERN (road mapping); INFN (digital research outcomes); MPG (outreach)

Stressed as much as possible multi-disciplinary actions

Roadmap to be endorsed by EuroFORUM members and others

PODDS Use Cases

1. *The preservation and continued ability to use e-records of all kinds for at least the lifespan of an individual (say 100 years: for some disciplines even longer retention periods are desirable);*
 2. *The preservation and continued ability to re-use (e.g. re-analyse) scientific and library data for a small number of decades;*
 3. *The preservation of scientific data for educational outreach for a small number of decades.*
- **Use Case 1 is fundamental to the Digital Society**

- *What makes [PODDS] special is the combination of skills and experience that the partners bring:*
- *A set of well established international and multi-disciplinary networks that will be essential for all phases of the project;*
- *A proven track record of resuscitating long-dead data with clear documentation of the issues involved;*
- *Having to address preservation of data for several decades as an integral part of the supported scientific programmes;*
- *In handling massive data volumes and rates (tens to hundreds of PB stored, sustained data rates of several GB/s) in fully distributed environments;*
- *Having direct involvement in a wide range of primarily scientific disciplines with complex software and hardware environments.*

PODDS Roadmap

A roadmap document would be drafted, widely disseminated and revised, seeking the approval of as many representative bodies and communities, such as the EIROforum members.

- D4.1 Establish an interim roadmap for Digital Preservation (M12)
- D4.2 Establish an endorsed roadmap for Digital Preservation (M24)

PODDS – Beyond HEP

- All PODDS partners will use their multi-disciplinary channels to make sure that the proposed work + roadmap is as widely applicable as possible
- The HEP-iness of the consortium may well be perceived as a weakness
- It certainly was to an unofficial external review

Funding Requirements

- If there is **one clear message** that we should listen to it is that a HEP-flavour / HEP-dominated project has little chance
- This probably means that the **lead organisation** has to be chosen accordingly
- Many other opinions about proposal guidelines – not always **consistent** and sometimes **contradictory**
- “**Cold proposals**” probably have little chance

Action Plan

1. Make Data Preservation an integral part of the future Particle Physics strategy (KRK);
2. Broaden discussion to as many communities as possible – scientific and otherwise (DPHEP2012);
3. Prepare collaboration for a future FP8 project – eventually joining an existing consortium;
4. Develop – with or without PODDS – the proposed roadmap;
5. Speak to EU through all available channels;
6. [Address issues underlined by DPHEP]

Summary

- We agree that DP is an issue we need to address
- **There are opportunities whereby we could obtain funding through FP8 / Horizon 2020**
- **We need to start work on this now – seeking partnerships with other communities, preparing a collaboration and later the proposal itself**
- Additional funding through non-EC channels may well increase our chances of success
- **We probably need to be flexible in some areas, e.g. data formats and access mechanisms / rules**
- Who can help and how? And when?

CHEP 2013

- By [CHEP 2013](#) (October in Amsterdam) it will be too late...