

2nd ASTERICS-OBELICS Workshop

16-19 October 2017, Barcelona, Spain.

Overview Task 3.2 D-GEX

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OBELICS and DGEX



1. **MAUD** : Management user engagement and Data dissemination
2. **D-GEX**: Data Generation and information Extraction
3. **D-INT**: Data Systems Integration
4. **D-ANA**: Data ANAlysis / interpretation

DGEX Subtasks



1. Streaming architectures
2. Data models and formats
3. Libraries for streaming and Metadata
4. Low power computing plataforms

Dedication to Tasks

MAUD	LAPP
PMs	44

- 1 - Different involvement
- 2 - Overlap among tasks

D-GEX	ASTRO N	CCPM	IFAE	INAF	INFN	LAPP	UCAM	UCM
140	24	18	10	24	12	6	24	16

D-INT	ASTRO N	FAU	IFAE	INAF	INFN	LAPP	UCAM	UCM
280	48	36	14	48	6	72	48	8

D-ANA	APC	ASTRO N	CEA	CCPM	IAP	INFN	JIVE	LAPP	UCAM
258	24	24	36	6	36	18	24	30	60

D-GEX: Work load (PM) and contact persons



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COMPLUTENSE

INSTIT	PM	Persons	Collab
ASTRON	24	T.J. Dijkema	LOFAR, SKA
CCPM	18	Paschal Coyle	ANTARES/KM3?
IFAE	10	J. Rico, T. Hassan	MAGIC/CTA
INAF	24	S.Lombardi, M . Molinaro	MAGIC/CTA
INFN	12	C.Bozza, D. Cesini	KM3
LAPP	6	J. Jaquemier	HESS/CTA
UCAM	24	B. Nikolic	SKA, LOFAR
UCM	16	J.L. Contreras, J. Rosado	MAGIC/CTA

D-GEX: Talks for this workshop



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INSTIT	Persons	Talk
ASTRON	S. Van der Tol	Fast convollutional resampling in parallel architectures
CCPM	Liam Quinn	Presenting in D-ANA
IFAE	T. Hassan	DL3 Format. Related to D-INT
INAF	C. Bigongiari	SW & SIM In ASTRI
INFN	A, Falabella	Parallel Filesystem
LAPP	J. Jaquemier	Presenting in D-INT
UCAM	B. Nikolic	Presenting in D-INT
UCM	J.L. Contreras	DL3, HDF5, Use cases..

Fitting in the global scheme



A lot of work is being done. A great contribution to ESFRIs



It addresses the subtasks defined in the proposal



More collaboration among groups is needed



All results must be open → Web

Organization

ASTERICS Wiki: D-GEX



Trace: [report](#) · [obelics](#) · [playground](#) · [start](#) · [task3.3](#) · [ucm](#) · [task3.2](#)

Task 3.2 D-GEX: Data GEneration and information eXtraction

Partner	INAF	UCM	ASTRON	UCAM	CPPM	LAPP	IFAE	INFN
Effort (PM)	24	16	24	24	18	6	10	12
Contact point	Marco Molinaro, Saverio Lombardi	José Luis Contreras	Tammo Jan Dijkema	Bojan Nikolic		Jean Jacquemier	Tarek Hassan	Cristiano Bozza

Activities

- [UCM](#)

From the proposal

In this area of the data flow, there are common challenges to create more robust hardware and software solutions for the handling of ever increasing data streams, and to ensure interoperability between a variety of different data-sources. OBELICS will promote sustained cross-fertilisation via a three-step process: a) share studies and seek synergies, b) foster evaluation and adoption of innovative solutions, c) sharing

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Edit

Edit

Each group can report its activities

Our contribution (UCM) I

Last year progress was slower than planned

J. Rosado got a tenure track position



F. Franco had to leave



New postdoc from February.

Our contribution (UCM) II

- Look for *common aspects among ESFRIs* (besides physics and VO):
 - Event based experiments: Common formats for event lists (high level data)
 - see Tarek's presentation (IFAE).
 - Big Data experiments: Common low level file format: test and benchmark HDF5.
 - Experiments in development: Observatory Use Cases

Our contribution (UCM) III

+ Interest in Machine Learning.

Lets talk during this meeting...

Acknowledgement

H2020-Astronomy ESFRI and Research Infrastructure Cluster (Grant Agreement number: 653477).