

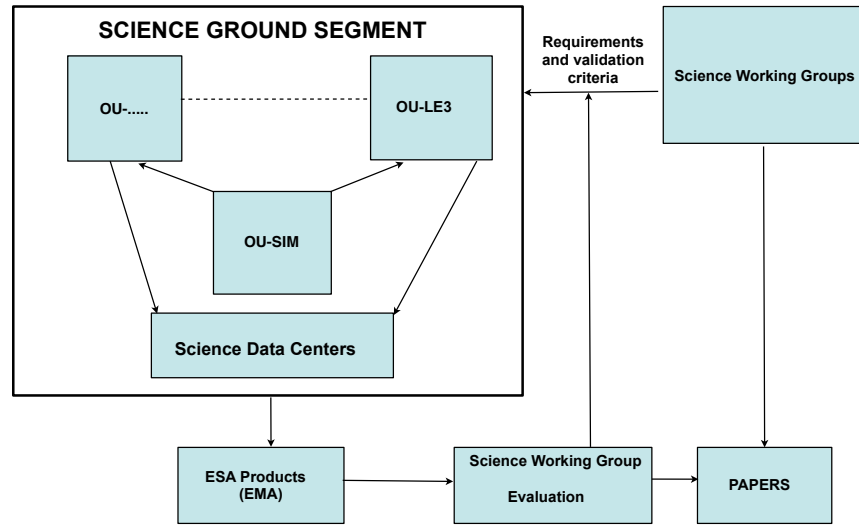
EUCLID OU-LE3

Coordinators: J.-L. Starck (FR), S. Borgani (IT), F. Batoni Abdalla (UK)

174 people in the mailing list as of Dec. 2012

Main Institutes	OU-LE3 Mailing List	Involment	FTE
France	40	21	5,92
CEA	9	6	2,4
Nice Obs	5	5	2
Toulouse Obs	5	5	0,85
Marseille	7	4	0,57
IAP	1	1	0,2
UK	37	26	5,05
UCL	7	7	1,4
Portsmouth	7	4	0,85
UNI-DURHAM-UK	7	4	1,05
ROE-UK	8	8	1,2
IMPER-UK	2	1	0,3
OX-UK	1	1	0,3
Italie	44	21	5,86
AO-BOL-IT	9	6	2,38
UNI-BOL-IT	6	4	1,6
OAT-IT	9	4	0,85
QA+Uni ROM-IT	9	4	0,85
Germany	22	9	9
USM-DE	7	6	6
UNI-BON-DE	8	3	3
Spain	2	1	1
Swiss	4	0	0
Netherland	2	0	0
US	3	2	0,9

ESA Products



History: 2011 → now

2011: Delivery of OU-LE3 workpackage description
Call for Interest in OU-LE3
Cost estimation delivery
Call for WP-FTE involvement sent to Euclid/OU-LE3 mailing list.
→ 78 people signed up for a given amount of FTE
Search for WP leaders with the right expertise and balancing responsibilities between countries.
==> **OULE3 Implementation WP Document**

March 23-25, London, 2012: OU-LE3 Kick-off meeting

Joint with Galaxy Clustering SWG
<http://adlibitum.oats.inaf.it/meetings/OULE3-GCSWG-KO>

May 15-18: Copenhagen Consortium meeting
October 9-10: OU-SWG leaders Meeting
October 24-25: SGS Meeting

Monthly Telecon with WP leaders:

=> Identify for each task the input/output, the specification origin, where the input should come from and if existing software already exists.
see for instance: <http://euclid.roe.ac.uk/projects/oule3-wl-impl/wiki>
=> Compilation of simulation requirements for OU-SIM

OU-LE3 WorkPackages

Separate WPs for Implementation and Validation

Big packages:

- Galaxy Clustering: E. Branchini (IT) & L. Samushia (UK)
Validation: C. Baugh (UK) & M. Viel (IT)
- Clusters of Galaxies: A. Biviano (IT) & S. Maurogordato (FR)
Validation: T. Giannantonio (GER) & R. Pello (FR)
- Weak Lensing: F. Abdalla (UK) & J.-L. Starck (FR)
Validation: B. Joachimi (UK) & R. Nakajima (GER)

Small packages:

- Internal data: S. Pires (FR) Validation: E. Zucca (IT)
- External data: S. Bardelli (BO) Validation: M. Kilbinger (FR)
- Time-domain: I. Hook (UK) Validation: J.-P. Beaulieu (FR)
- MW & Nearby Galaxies: M. Nonino (IT) Validation: S. Mohanty (UK)

Repartition between countries:

Italy: 7 WPs

- Galaxy clustering,
- Clusters of galaxies,
- Milky Way and Nearby Object,
- External Data,
- Galaxy validation, Int.
- Data validation,
- Quality Control

UK: 7 WPs:

- Galaxy clustering,
- Weak Lensing,
- Time Domain,
- WL Validation,
- Galaxy validation,
- Documentation & Definition,
- MilkyWay validation

France: 7 WPs:

- Clusters of galaxies,
- Weak Lensing,
- Internal Data,
- Cluster Validation,
- Ext. Data validation,
- TimeDomain validation,
- High level management and inventory

Germany: 2: WPs:

- WL Validation,
- Cluster validation

Example

OULE3 Weak Lensing Task Table:

Task	R/G	Spec origin	Input product	Input origin	Output product	Output target	People	Existing software
Tomographic 2pt photo-z real-space correlation functions (shear; position; magnification)	R	WLWG (estimator subgr.)	photo-z shear catalogue VIS mask	OU-SHE, OU-PHZ OU-VIS	2pt algorithm	OU-LE3 WL validation WP		athena
Tomographic 2pt spectro-z real-space correlation functions (shear; position; magnification)	R	WLWG (estimator subgr.)	spectro-z shear catalogue NISP mask	OU-SHE, OU-NISP OU-VIS	2pt algorithm	OU-LE3 WL validation WP		athena
Tomographic 3pt photo-z real-space correlation functions (shear; position; magnification)	G	WLWG (estimator subgr.)	photo-z shear catalogue VIS mask	OU-SHE, OU-PHZ OU-VIS	3pt algorithm	OU-LE3 WL validation WP		
Tomographic 3pt spectro-z real-space correlation functions (shear; position; magnification)	G	WLWG (estimator subgr.)	spectro-z shear catalogue NISP mask	OU-SHE, OU-NISP OU-VIS	3pt algorithm	OU-LE3 WL validation WP		
Tomographic 2pt photo-z Fourier-space power spectra (shear; position; magnification)	R	WLWG (estimator subgr.)	photo-z shear catalogue VIS mask	OU-SHE, OU-PHZ OU-VIS	power spectrum algorithm	OU-LE3 WL validation WP		
Tomographic 2pt spectro-z Fourier-space power spectra (shear; position; magnification)	R	WLWG (estimator subgr.)	photo-z shear catalogue NISP mask	OU-SHE, OU-PHZ OU-VIS	power spectrum algorithm	OU-LE3 WL validation WP		
Tomographic 2pt harmonic-space power spectra (shear; position)	R	WLWG (estimator subgr.)	shear catalogue	OU-SHE, OU-PHZ (OU-NISP?)	power spectrum algorithm	OU-LE3 WL validation WP		
Tomographic 2pt harmonic-space bispectra (shear; position)	G	WLWG (estimator subgr.)	shear catalogue	OU-SHE, OU-PHZ (OU-NISP?)	bispectrum algorithm	OU-LE3 WL validation WP		
Tomographic 2D maps (mass; convergence; potential)	R	WLWG	shear catalogue	OU-SHE, OU-PHZ	map algorithm	OU-LE3 WL validation WP		

OU-LE3

OU-LE3

Implementation WPs

- Find/define/write algorithms
- Test on toy model simulations

Test on data provided the OU-LE3 validation WPs

Test on blind data provided by the OU-LE3 validation WPs

Transfer to the validation group.

Validation WPs

Prepare the toy model simulations.

- Define the validation test algorithms
- Write testing algorithms

Validate the algorithms from Implementation WPs

Goals for 2013

- Start to work on the different tasks
 - Select existing algorithms or develop new algorithms:
 - Validation:
 - Define the internal tests to be performed for each product.
- Organize how to share code and data.
 - Only open code for the consortium can go to validation step.
- Organize the OU-SDC relation.
- Meetings/Organization:
 - Bi-annual meetings: jointly with SGS and Consortium meetings.