Beta release of public web portal

website presentation

INAF – OAR for the Astrodeep project

ASTRODEEP

"Unveiling the power of the deepest images of the Universe"

THEME [SPA.2012.2.1-01]

[Exploitation of space science and exploration data]

Grant agreement for: Collaborative project

Grant agreement no: 312725

ABSTRACT

In this document is described the web portal acting as the immediate dissemination node. Through the final version of this portal, ASTRODEEP will be presented to the astronomical community and the general public.
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Prepared by: A. Fontana, K. Boutsia
Approved by: AEC
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Goal

During these first months, a preliminary web portal has been set up in order to introduce the ASTRODEEP project to the world astronomical community. This website has been used to announce the first job positions, which have been currently filled, as well as the opportunity to participate to the project as an external consultant (visiting program).

Description

In this beta release, the portal includes general information about the project, its goals and all participating partners. The web site can be found in the following link:

http://www.oa-roma.inaf.it/astrodeep/astrodeep/Home.html

In the following figures we show screenshots of all the sections on the current site.
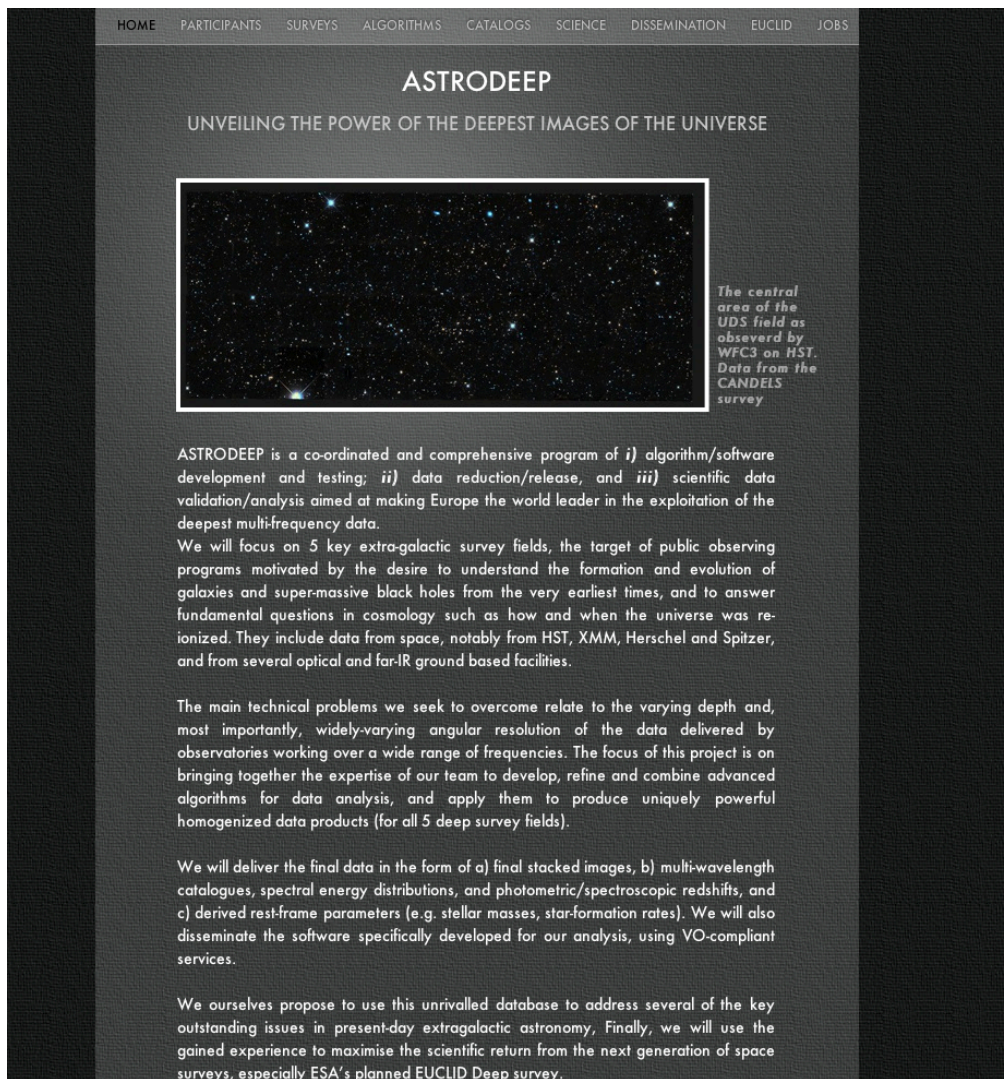

Figure 1: This is the home page of the current ASTRODEEP web portal (beta release)

ASTRODEEP

HOME   PARTICIPANTS   SURVEYS   ALGORITHMS   CATALOGS   SCIENCE   DISSEMINATION   EUCLID   JOBS

PARTICIPANTS

ASTRODEEP is a consortium composed by 4 major partner Institutions, and benefits from the collaboration with larger teams involved in the CANDELS and GOODS-HERSCHEL surveys. The leaders of the various teams are:

✦ Adriano Fontana, *Coordinator*, (INAF - OA Rome, I)
✦ James Dunlop, (University of Ediunburgh, UK)
✦ David Elbaz (CEA-Saclay, FR)
✦ S. Derriere (CDS Strasbourg, FR)
✦ A. Comastri (INAF - OA Bologna, I)
✦ S. Faber (Univ. of S. Cruz, USA)
✦ H. Ferguson (STScI, USA)

The ASTRODEEP team collects most of the PI (or main Co-I) of all major ultradeep surveys, covering also the whole range of the electromagnetic spectrum: CANDELS at HST, ground based imaging at VLT and LBT and ULTRAVISTA at VISTA, GOODS-HERSCHEL, HERMES@HERSCHEL, PEP@HERSCHEL, SPUDS@SPITZER, , XMM-COSMOS and Chandra on CDFS.
This ensures the highest technical and scientific expertise in the analysis and prompt exploitation if these data.

Figure 2: In this section we present the main participants of the project. Currently only the names of the Executive Committee are listed, along with the affiliation institute. In the future all scientists participating to ASTRODEEP will be included.

ASTRODEEP

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We will focus on 5 key extra-galactic survey fields, the target of public observing programs motivated by the desire to understand the formation and evolution of galaxies and super-massive black holes from the very earliest times.
A preliminary list of the data that we plan to include in our analysis is provided below.

		GOODS-N	EGS-CANDELS	UDS	UDS-CANDELS	COSMOS	COSMOS-CANDELS	GOODS-S	HUDFs
	Area	150'²	150'²	1'²	150'²	1'²	1'²	150'²	15'²
	Wave.								
HERSCHEL	500μm	9 mJy	12.8 mJy	13.4 mJy	13.4 mJy	9.5 mJy	9.5 mJy	9 mJy	9 mJy
	350μm	7.2 mJy	8.9 mJy	9.3 mJy	9.3 mJy	6.6 mJy	6.6 mJy	7.2 mJy	7.2 mJy
	250μm	5.7 mJy	10.7 mJy	11.2 mJy	11.2 mJy	8.0 mJy	8.0 mJy	5.7 mJy	5.7 mJy
	160μm	2.7 mJy				11 mJy	11 mJy	2.4 mJy	2.4 mJy
	100μm	1.1 mJy	3.7 mJy	4.0 mJy	4.0 mJy	5 mJy	5 mJy	0.8 mJy	0.8 mJy
	70 μm							1.0 mJy	1.0 mJy
Spitzer	70 μm	2.4 mJy	3.5 mJy	18 mJy	18 mJy	10 mJy	10 mJy	3.1 mJy	3.1 mJy
	24 μm	21 μJy	50 μJy	230 μJy	230 μJy	60 μJy	60 μJy	20 μJy	20 μJy
	16 μm	32 μJy						52 μJy	52 μJy
	8 μm	1.7 μJy	4.8 μJy	10.2 μJy	10.2 μJy	17.3 μJy	17.3 μJy	1.7 μJy	1.7 μJy
	5.8 μm	1.4 μJy	3.9 μJy	8.3 μJy	8.3 μJy	13.4 μJy	13.4 μJy	1.4 μJy	1.4 μJy
	4.5 μm	0.2 μJy	0.6 μJy	1.2 μJy	1.2 μJy	2.0 μJy	2.0 μJy	0.2 μJy	0.2 μJy
	3.6 μm	0.1 μJy	0.3 μJy	0.6 μJy	0.6 μJy	1.1 μJy	1.1 μJy	0.1 μJy	0.1 μJy
VLT/VISTA/ UKIDSS	2μm(K)	25.6	23.8	25.0	26.0	25.0	26.0	26.8	27.2
HST-WFC3	1.6 μm(H)	27.8	26.7	---	26.7	---	26.7	27.8	29.9
	1.2 μm(J)	27.8	26.7	---	26.7	---	26.7	27.8	29.9
	1 μm(Y)	28.0		---		---		28.0	30.0
VLT/VISTA	1μm(Y)	---	---	24.6	26.5	26.7	26.7	26.7	26.7
HST-ACS	0.85μm(Z)	27.6		---		---		27.6	29.4
	0.75μm(I)	28.7	27.8	---	27.8	27.2	27.8	28.7	29.9
	0.6 μm(V)	28.2	27.9	---	27.9	27.2	27.9	28.2	30.1
	0.45μm(B)	28.2	---		---		---	28.2	29.7
CFHT/VLT LBT	0.36μm(U)	28.2	27.0	27.5	27.5	27.7	27.7	28.0	28.0
GALEX	0.14-0.28	26.0	25.0	25.0	25.0	25.0	25.0	26.0	26.0
XMM	2-10 keV	1.5x10⁻¹⁵	---	3x10⁻¹⁵	3x10⁻¹⁵	3x10⁻¹⁵	3x10⁻¹⁵	4x10⁻¹⁶	4x10⁻¹⁶
XMM	5-10 keV	4x10⁻¹⁵	---	1x10⁻¹⁴	1x10⁻¹⁴	1x10⁻¹⁴	1x10⁻¹⁴	7x10⁻¹⁶	7x10⁻¹⁶
Chandra	0.5-2 keV	2x10⁻¹⁷	5x10⁻¹⁷ erg cm² s⁻¹	---	---	2x10⁻¹⁶	2x10⁻¹⁶	1x10⁻¹⁷	1x10⁻¹⁷

Figure 3: In this section we show a preliminary list of the key fields that will be analyzed by ASTRODEEP along with the currently available data in all wavelength bands.

Figure 4: A screenshot of the section presenting the kind of algorithms that will be developed and then used for the data analysis.
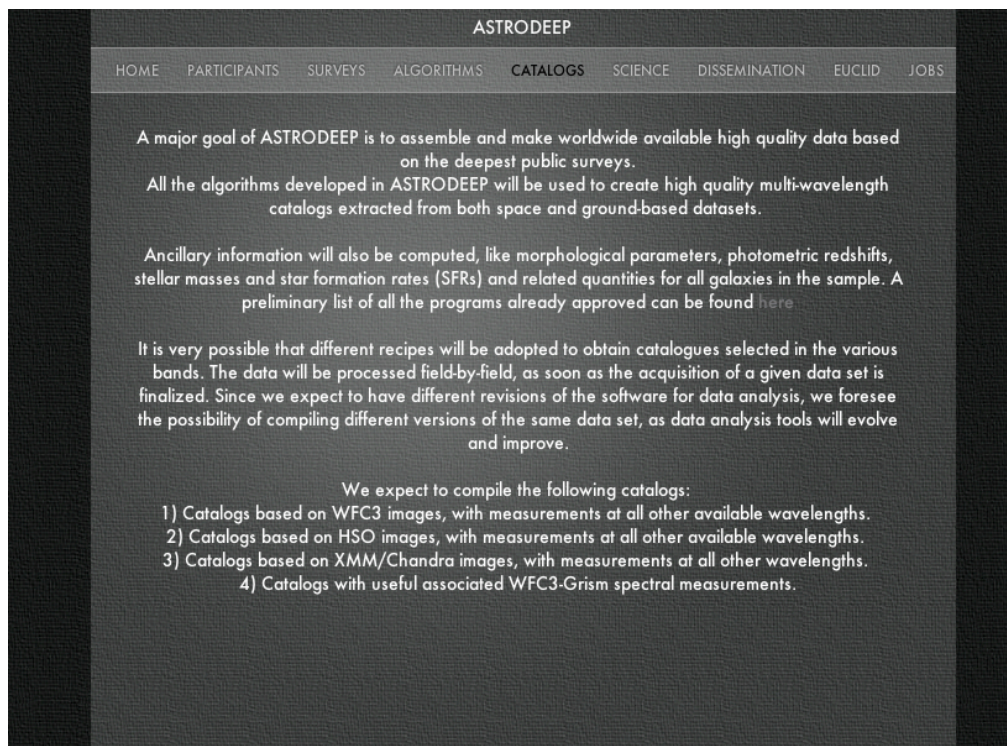

Figure 5: In this section we present the kind of catalogs that will be released by ASTRODEEP as mid-term and final products.
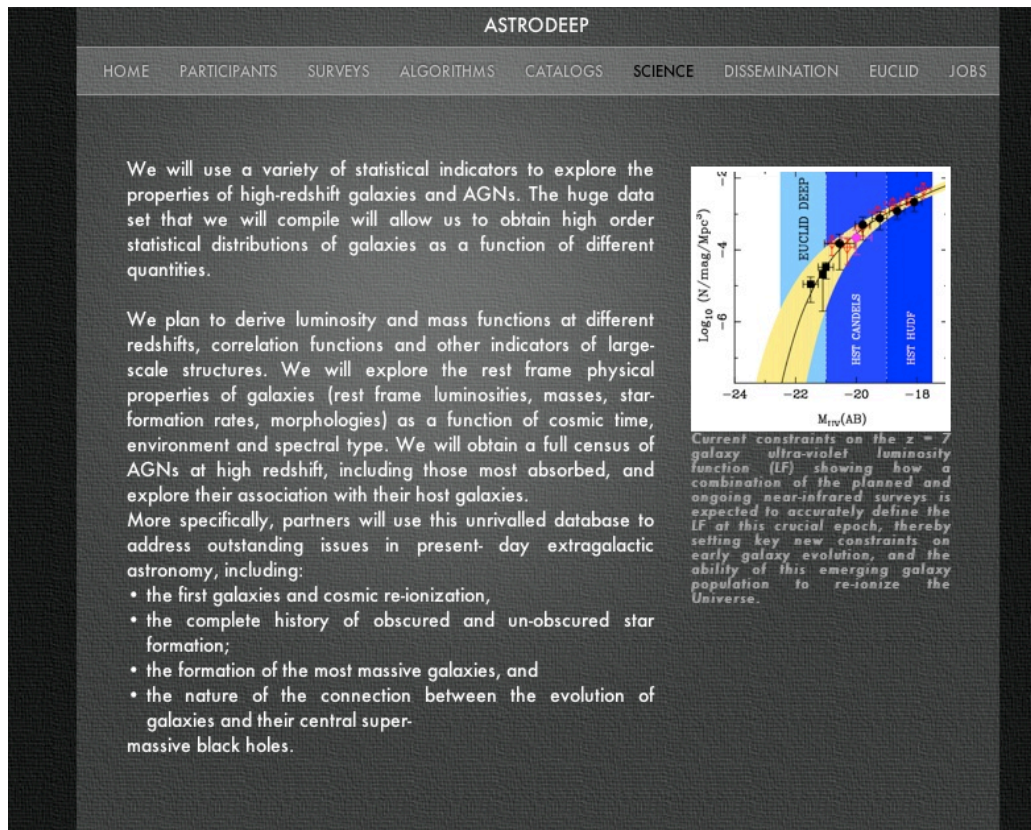
Figure 6: This is a screenshot of the section presenting the science cases that will be studied by the ASTRODEEP collaboration.
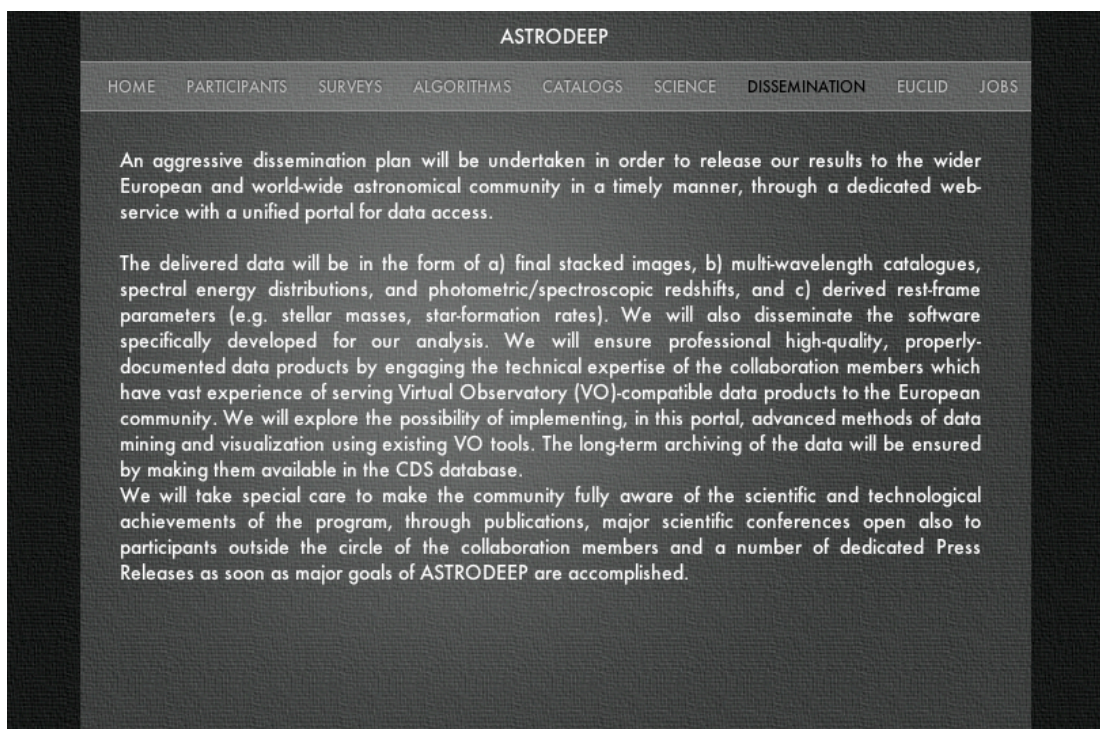

Figure 7: In this section we present the main goals of the dissemination strategy that will be followed by the ASTRODEEP collaboration in order to present the delivered products to the world astronomical community.
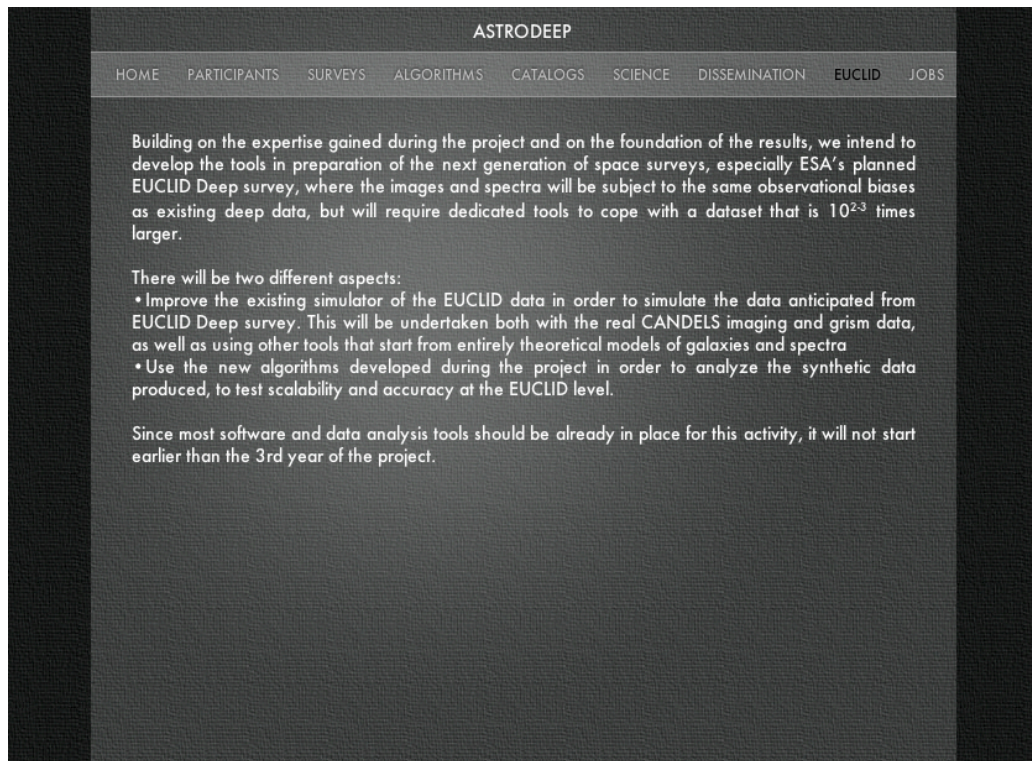
Figure 8: This section is dedicated to the EUCLID Deep Survey that is an ESA space mission. All tools developed for the analysis of the ASTRODEEP datasets, will be also used for simulations necessary in the preparation of this EUCLID mission.
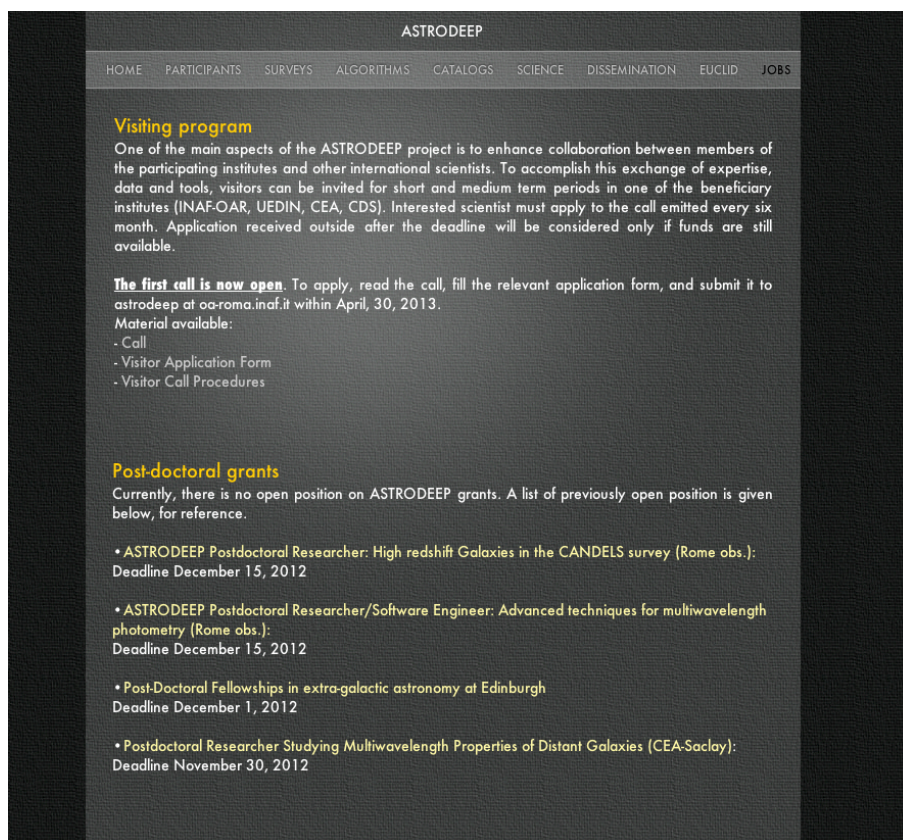

Figure 9: This is a screen shot of the section where we presented all job opportunities for ASTRODEEP, along with the Visiting program that is aimed at attracting scientists from institutes outside the partnership, experts in the scientific cases studied by ASTRODEEP, to participate to the project as external consultants.

This is an early release of the site and its purpose it to serve as a test bench for the development of the official and final version of the web-portal.

Future Development

According to feedback we obtained during this period, we also present a first draft of the new concept for the appearance of the site. The realization of the concept will be sub-contracted to a professional web designer, since such an activity has been budgeted in the DOW. Once the structure is ready, the content will be handled and revised accordingly by the local teams. Although, the preliminary site is currently hosted on INAF servers, in the long term the final web portal and all ASTRODEEP products, will be hosted on CEA servers, in order to optimize the need for bandwidth and storage capacity and allow users to access all available data easier and faster.
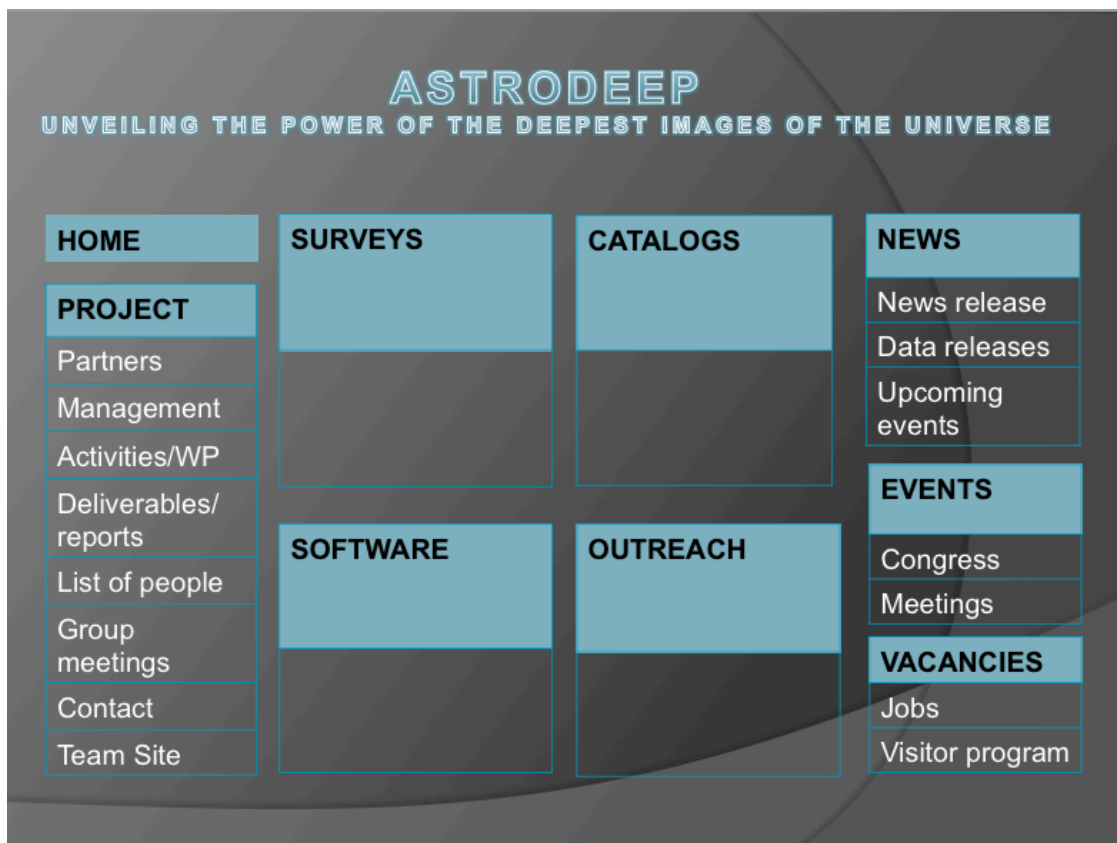

Figure 10: First draft of the concept for the final ASTRODEEP web portal.

Currently it is underway the migration of this preliminary site to a Wordpress environment. This draft site is temporarily hosted in this URL that is not linked to search engines.

http://www.oa-roma.inaf.it/adeep/wordpress/

Here can also be found a section for the "Team Site" that is used for internal management. This page is protected by password and is presented in more detail in the document for the Deliverable D2.1.