



N2-N7 JOINT WORKSHOP  
UNIVERSITY OF WALES  
ABERYSTWYTH  
30/06-2/07 2008

# EUROPLANET IDIS N7 SMALL BODIES AND DUST — NODE —

## STATUS REPORT AND PRELIMINARY DESIGN REVIEW



# ***IDIS SMALL BODIES AND DUST NODE (SBDN)***

## THE INSTITUTES:

- **ISTITUTO DI FISICA DELLO SPAZIO INTERPLANETARIO (IFSI, ROME, HOST)**
- **ISTITUTO DI ASTROFISICA SPAZIALE E FISICA COSMICA (IASF, ROME)**

IFSI AND IASF ARE PART OF **ISTITUTO NAZIONALE DI ASTROFISICA (INAF)**

## THE PEOPLE:

- **SCIENTIFIC STAFF:**
  - **MARIA CRISTINA DE SANCTIS (SCIENTIFIC MANAGER, INAF-IASF)**
  - **DIEGO TURRINI (DEPUTY, INAF-IFSI)**
- **TECHNICAL STAFF:**
  - **FRANCESCO CARRARO (TECHNICAL MANAGER, INAF-IFSI)**
  - **SERGIO FONTE (INAF-IFSI)**
- **WEB AND COMMUNICATION STAFF:**
  - **LIVIA GIACOMINI (INAF-IFSI)**

# **SBDN STATUS REPORT**

- I. SBDN WEB PORTAL
- II. SBDN SCIENCE CONTENT
- III. SBDN CORE SERVICE - DESIGN
- IV. SBDN CORE SERVICE - IMPLEMENTATION
- V. FINALISING FP6 IDIS
- VI. HOST INSTITUTE COFINANCING

# IDIS STATUS REPORT I – SBDN WEB PORTAL

CREATION OF  
THE NODE WEB  
PORTAL

LINKING TO  
EUROPLANET  
WEB PORTAL

LINKING TO IDIS  
TECHNICAL AND  
THEMATIC  
NODES

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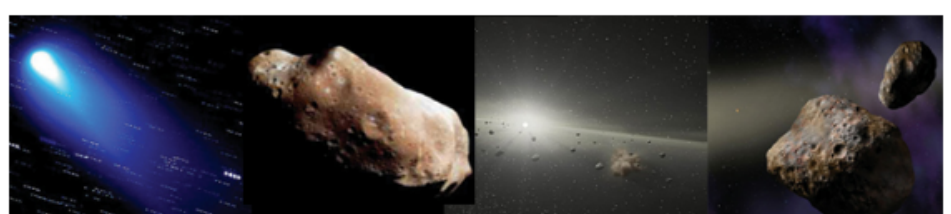
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## N7 : Integrated and Distributed Service (IDIS)

# Small Bodies and Dust Node

The EuroPlaNet information service provides access to lists of researchers, laboratories and data archives relevant for many aspects of planetary and space physics. Information can be accessed via search tools in the top node or directly via services available in the different thematic nodes. The IDIS Small Bodies and Dust Node (SBND in the following) aims at becoming a focus point in the fields of Solar System's minor bodies and interplanetary dust by providing the community with a central, user friendly resource and service inventory and contact point. The EuroPlaNet IDIS thematic science node "**Small Bodies and Dust Node**" is hosted by the Istituto di Fisica dello Spazio Interplanetario and is established in close cooperation with the Istituto di Astrofisica Spaziale. Both these institutes are part of the Istituto Nazionale di Astrofisica (INAF).



The main aim of the **Small Bodies and Dust Node** will be to:

- support collaborative work in the field of Small Bodies and Dust
- provide information about data bases and scientific tools in this field
- establish an scientific information management
- define and develop Science Cases regarding IDIS

Responsible Persons:

Scientific Managers: [Maria Cristina De Sanctis](#) (IASF) + [Diego Turrini](#) (IFSI)  
Technical Manager: [Francesco Carraro](#) (IFSI)  
Communication Manager: [Livia Giacomini](#) (IFSI)

**SCIENCE CASES HAVE BEEN DESIGNED BY EUROPLANET N2 W.G.**

**MAIN SCIENCE CASE (SC1):**

**Gas and Dust emission of comet Churyumov-Gerasimenko during Rosetta mission**

**COMPLEMENTARY SCIENCE CASE (SC2):**

**Relative contributions of asteroidal and cometary dust to the structure of zodiacal cloud**

**SBDN RESOURCE GATHERING HAS BEEN DIVIDED IN:**

**COLLECTION OF RESOURCES ON SC1 TO CREATE A PRELIMINARY CATALOGUE  
(COMPLETED)**

**COMPLETION OF SC1 RESOURCES AND COLLECTION OF RESOURCES ON SC2  
(ONGOING, NEAR COMPLETION)**

**EXTENSION OF THE RESOURCE CATALOGUE TO SBDN SCIENTIFIC DOMAIN  
(ONGOING)**

# IDIS STATUS REPORT II – SBDN SCIENCE CONTENT

(2)

IMPLEMENTATION OF THE SCIENCE CASES

CREATION OF THE SEARCH SERVICE

CREATION OF TUTORIALS TO THE SERVICE USING THE SCIENCE CASES

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How to use Search Tools

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Small Bodies and Dust Node

Europlanet  
European Planetary Network

How to use the search tools

The "Resource Search" and the "Experts Search" are demo versions of a Search Tool that will allow you to find online information about science cases concerning Small Bodies and Dust.

**Search Tool**

To use the **Search Tool**, first select the Tool from the Resources Menu:

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Contacts >  
Other IDIS Nodes: v

Atmosphere Node  
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You will enter in a Search Tool where you can find an online help in the left window, and two choice menus on the right. The first one is a multichoice menu where you can choose the kind of Resources you will search through. **Attention: AT THE MOMENT, NOT ALL KIND OF RESOURCES ARE AVAILABLE!! UP TO NOW, THE ONLY RESEARCHES AVAILABLE ARE USING THOSE WITH "All" AND "Web Site" FIELDS IN THE BEGINNER SECTION, AND WITH "Repository" FIELD IN THE ADVANCED SECTION.**

# IDIS STATUS REPORT III – SBDN CORE SERVICE

## CREATION OF IDIS INFRASTRUCTURE AND CORE SERVICE DESIGN PHASE (COMPLETED)

- *PARTICIPATION TO THE SYSTEM DESIGNING AND URD WRITING  
(JANUARY 2008, GRAZ)*
  - *CREATION OF A RELATIONAL DATABASE BASED ON SQL*
  - *CREATION OF AN XML REGISTRY CONTAINING THE RESOURCES FOR SC1*
  - *DESIGN OF TRANSLATION TABLES FROM XML TO RELATIONAL PARADIGM*
- *CREATION OF A PROTOTYPE SEARCH ENGINE BASED ON TRANSLATION TABLES*
  - *EVALUATION OF THE FEASIBILITY OF THE DUAL-PARADIGM APPROACH*
  - *PRESENTATION OF THE RESULTS AT THE IDIS TECHNICAL MEETING  
(MAY 2008, ROME)*

**CREATION OF IDIS INFRASTRUCTURE AND CORE SERVICE  
IMPLEMENTATION PHASE (ONGOING)**

- ***MIGRATING TO XML-NATIVE DATABASE eXist***
- ***ADAPTING OUR PROTOTYPE SEARCH ENGINE TO XML DATABASE***
- ***USING THE UPDATED SEARCH ENGINE AS TESTBED FOR THE SERVICE***
- ***DESIGNING AN INTER-NODE INTERROGATION FACILITY FOR THE SEARCH ENGINE***



**CREATION OF IDIS INFRASTRUCTURE AND CORE SERVICE  
IMPLEMENTATION PHASE (FUTURE ACTIVITIES)**

- . *INTEGRATION OF INTER-NODE INTERROGATION FACILITY IN SEARCH ENGINE***
- . *FINALISING RELEASE CANDIDATE OF SEARCH ENGINE  
(TO BE PRESENTED AT THE EPSC IN MUENSTER IN SEPTEMBER 2008)***
- . *DISTRIBUTION OF SEARCH ENGINE TECHNICAL SPECIFICATIONS TO  
ATMOSPHERES AND SURFACES AND INTERIORS NODES***

# IDIS STATUS REPORT V – **FINALISING FP6**

## **EUROPLANET FP6 – IDIS CONCLUSION (SEPTEMBER-DECEMBER 2008)**

- . PRESENTATION TO THE EPSC OF A NODE DEMONSTRATOR  
(SEPTEMBER 2008, MUENSTER)**
- . FINAL TEST AND VERIFICATION OF THE WEB INFRASTRUCTURE  
(SEPTEMBER-NOVEMBER 2008)**
- . RELEASE OF THE TECHNICAL DOCUMENTATION TO THE COMMUNITY  
(OCTOBER-DECEMBER 2008)**

# IDIS STATUS REPORT VI – **HOST INSTITUTE**

## **EUROPLANET FUNDING:**

- TWO QUOTES OVER THREE OF THE FP6 FUNDING FOR THE NODE**
- TOTAL FUNDING ADEQUATE TO ACHIEVE FP6 GOALS**

## **HOSTING INSTITUTE CONTRIBUTION:**

- ENHANCEMENT OF SBDN DEDICATED SERVER INFRASTRUCTURE**
- COFINANCING TECHNICAL AND SCIENTIFIC STAFF**