

# EUROPLANET

## European Planetology Network

### Activity N7: IDIS

### Integrated and Distributed Information Service

Activity Coordinators

G. Chanteur (CETP- IPSL) & E. Flamini (ASI)

## Objectives

- N7 IDIS is intended to design with, and for the planetary science community, a common and integrated access to the data and information produced by the various research activities
- N7 IDIS is presently focused around disciplines represented in the Cassini-Huygens mission, but its scope and structure has to be done in order to be later enlarged

## Objectives (2)

- Foster interoperability between data bases related to a given field: planetary interiors, surfaces, atmospheres, exospheres, interplanetary medium
- Offer a benchmarking facility for planetary simulations
- Foster interdisciplinary investigations: data analysis, models, observations

## Specificities of the activity

- IDIS will not duplicate existing services, but instead will propose an integration of existing services, and possibly propose new services following explicit needs
- IDIS will take advantage of present and past initiatives like *EGSO*, *SPASE* and the numerous *VO* projects:
  - *EGSO*, European Grid of Solar Observations
  - *SPASE*, *Space Plasmas Archives Search and Extract*
- For all aspects related to databases IDIS will rely upon already existing systems like *NASA PDS* and *ESA PSA*, and on national archives or data bases

## Description: building blocks

IDIS is made of building blocks related to the other activities of EuroPlaNet;

1. Earth-based observations: ground & space telescopes, all spectral domains;
2. Space missions, remote and *in situ* observations;
3. Planetary models, physical concepts and numerical simulations;
4. Laboratory experiments: fundamental processes & experimental simulations;
5. Databases and information systems dedicated to given sub-fields;
6. Public outreach effort and educational products: including history of sciences

## Building block example: Models

- Most models are dedicated to one or a few aspects of a planet for comparison with a given type of data, but no advantage is taken from other models:
  - a thermospheric model for example can provide valuable boundary conditions to an ionospheric model and vice versa
  - an exospheric model has to be coupled to an external plasma model to investigate the production of ENAs and the associated atmospheric sputtering
- IDIS could provide online access to simulated data with interface tools in order to present it in the same way the observations are presented

## Organisation

- IDIS has started a general consultation of the community through the release of a green paper and a questionnaire form.
- IDIS is relying upon an advisory group of experts designated by teams and laboratories members of EuroPlaNet
- A web page has been opened, both via direct access and via EPN home page including a forum
- Reports and discussions during annual general assemblies of EuroPlaNet

## Expected outcomes

- The Level 1 Requirements Document Draft 1 has to be delivered in 2006, Issue 1 end 2007.
- A demonstrator of IDIS is due for the termination of the present contract: it is presently thought as an embryo of a Virtual Planetary Observatory that could be our following project during the 7th Framework Programme if IDIS is successful

IDIS  
Web page

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**N7 Activity:  
Integrated  
and distributed  
information service  
(IDIS)**

Intro  
Executive Summary  
N7 Workshops  
Participants  
Forum



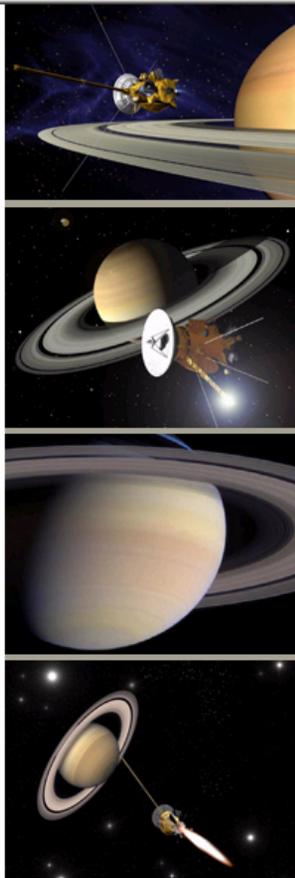
green paper




The aim of this activity is to co-ordinate the studies for the implementation of an Integrated and Distributed Information Service (IDIS) and its further evolution into a European Virtual Planetary Observatory.

IDIS will produce a long-lasting integration of planetary sciences in Europe to encourage synergies between the different teams, skills and activities existing in the different countries.



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