



ILMATIETEEN LAITOS  
METEOROLOGISKA INSTITUTET  
FINNISH METEOROLOGICAL INSTITUTE

# IDIS TECHNICAL MANAGEMENT PROPOSAL

Europlanet N2-N7 Meeting  
MPS May 2-4, 2007

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Finland*



## IDIS Technical Management Functions (1)

- **Management of the completion of the inventory of resources available to European Planetary scientists**
  
- **User Requirements from Science Cases:**
  - Collect and analyze N2 science cases, based on work done so far by the N7 group
  - Complete the generation of the IDIS User Requirements Document

*Timeframe: input before May 2007, delivery December 2007*
  
- **Coordinate development of design specifications of the Node Leading Institutes**
  - Establish information exchange tools between thematic nodes
  - Define preliminary design rules for inter-operability
  - Organize a workshop between the Node Leading Institute representatives to develop node-related User Requirements
  - Coordinate the development of node-related design specifications

*Timeframe: Information exchange tools: May 2007, rest by end of 2008*



## IDIS Technical Management Functions (2)

- **Implementation of top-level Web-Interface**
  - Define a preliminary data format for database-like queries
  - Build a Web-interface allowing simple queries by keywords

*Timeframe: input before May 2007, done Nov 2007*
  
- **Access control according to rules to be defined in the design specifications**
  - public
  - restricted to registered EPN users
  - others (TBD)
  
- **Implementation of an operational Web-based top-level search**
  - Subject / keyword related forwarding to relevant nodes for further search
  - Multi-node keyword search according to node-related design specifications
  - Generalized search tool with screened access to public search engines



## Thematic Node Atmospheres

- **Sample implementation of node-specific design specifications**
  - Laboratory addresses
  - Publications
  - Data availability
- **Links to resource providers according to related resource inventory**
- **Subject/keyword/time search tools**
- **Database access to Mars atmosphere simulation runs**
- **Database access to Mars atmospheric data (Viking Lander)**
- **Data access to Huygens Titan atmospheric data**
- **Link of this node into the top-level IDIS portal**

*Timeframe: October 2007 – January 2008 : First demo version,  
fully operational in 2008*



## Resources Technical Management Function

- Task: Technical Management of IDIS, implementation of topnode
- Personnel: 1.5 man years until end of 2008 (30 kEUR)
  - Technical manager: Walter Schmidt (30%)
  - System engineer: Jouni Rynö (30%)
  - Programming support: FMI software development group (1 programmer) (40%)
- Travel costs for node coordination meetings billed directly to N7
  
- Infrastructure for top-level node and thematic node implementation will be covered by FMI



## Resources Science Node Atmospheres

- Task: Implementation of Thematic Science Node for Planetary Atmospheres
- Personnel: 2 man years until end of 2008 (25 kEUR)
  - Technical manager: Walter Schmidt
  - System engineer, responsible for implementation: Jouni Rynö
  - Programming support: FMI software development group (1 programmer)
  - Science advisor : Dr Teemu Mäkinen, Small bodies, planetary atmospheres
  - Science advisor : Dr Ari-Matti Harri, planetary atmospheres and missions
- Travel costs included in offer
- Infrastructure for top-level node and thematic node implementation will be covered by FMI