Reflections on a new plan for IDIS work

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- Preliminary thoughts
- A demonstrator as result from FP6
- The generalisation concept for FP7
- Feasibility of the presented concept

Preliminary thoughts #1

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1. a demonstrator as a result from the FP6 funding, which convinces the referees of our FP7 proposal that we did great work.

2. a sound basis for further development under increased FP7 funding, which will promote really useful great work in the future.

Preliminary thoughts #2

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$\longrightarrow$ The scope of IDIS has to be limited to the information and data available at the host institutions of the participants.

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$\longrightarrow$ We have to make it *easy* for the participants to contribute.

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- Hypertext link creation as IDIS task: The IDIS demonstrator provides a system which automatically creates links between related documents.
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- Meta data consists of key-value pairs, a required key being "URL". A possible optional key is literally "Keywords" and the respective value being a list of strings.
- There are various possibilities how the meta data can be imported and maintained. Participants are free to chose whatever method is most convenient for them.

Simplified example of an IDIS generated web site

Europlanet — IDIS	
Titan atmosphere chemistry	Titan's atmospheric chemistry by Arthur Dent This is a very interesting document on Titan's atmospheric chemistry hosted on the web site of a Europlanet participant.

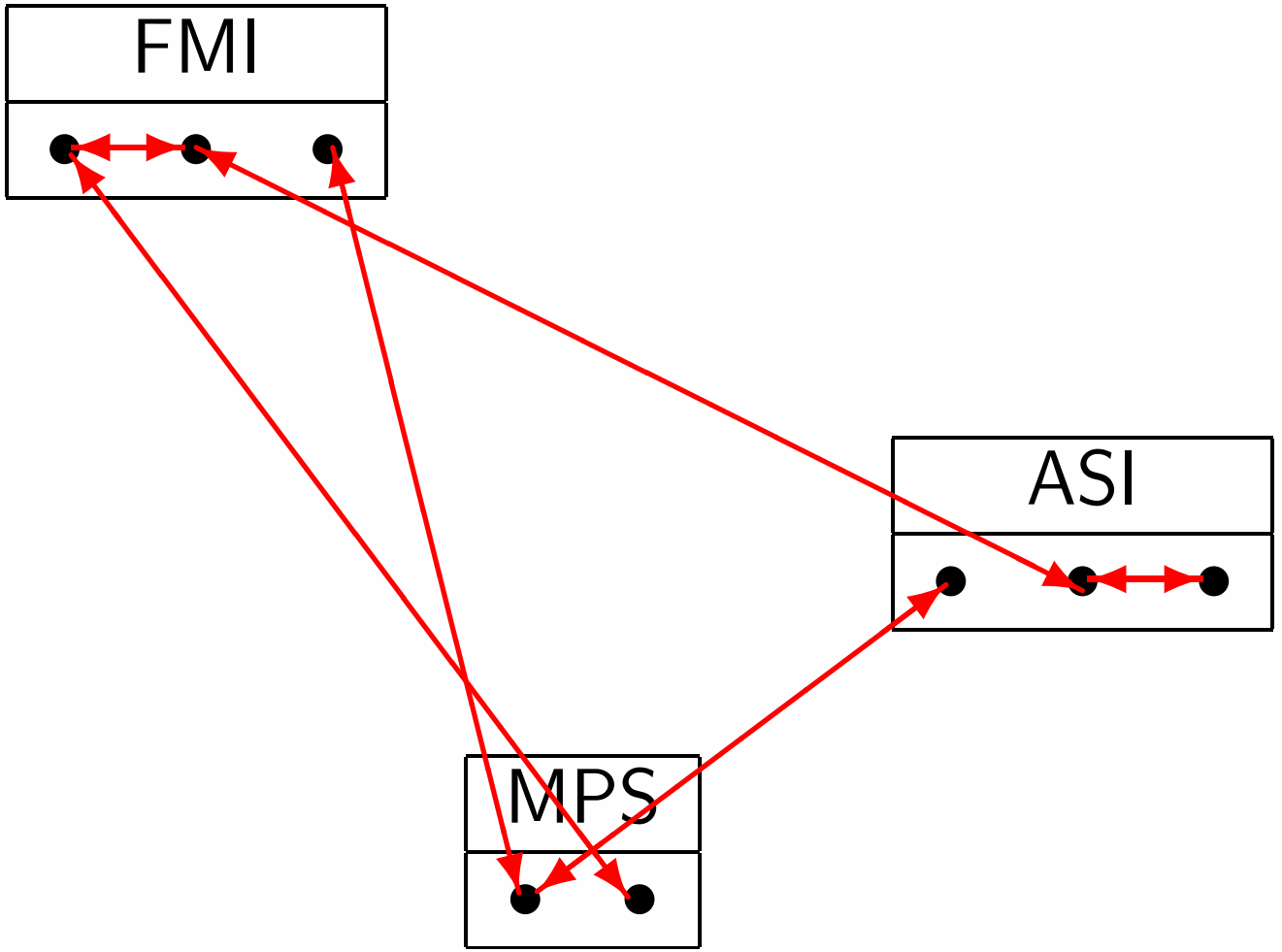
IDIS generated list of related documents

Europlanet — IDIS	
Titan and / or atmosphere chemistry	• Titan in the solar system • Rain on Titan • Ground based observations of Titan • Laboratory measurements on the chemistry of Titan

Example of another IDIS generated web site

Europlanet — IDIS	
laboratory measurements chemistry Titan	Laboratory measurements on the chemistry of Titan by Cliff Alastair McLane This is another very interesting document which is also hosted on the web site of a Europlanet participant.

A network created by IDIS



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- Introduce a translational scheme from meta data providing information on content into semantic statements, including a representation of hyperlinks.

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- A participant may provide a customised query to the Planetary Science Archive (PSA).

Example of links to customised PSA queries

Europlanet — IDIS	
Titan atmosphere HASI data at PSA DISR data at PSA	Rain on Titan by Dave Bowman This is a document about rain on Titan. The investigations are based on HASI and DISR data retrieved form PSA.

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- The FP6 demonstrator creates a system which establishes (semantic) links between related distributed *resources.*
- The FP6 demonstrator provides only one action that can be performed on a *resource:* Display a web site.
- The generalisation concept for FP7 will provide other more sophisticated actions that can be performed on a *resource,* e. g., visualise data, run a computer model, or remotely control a telescope.

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- The technical implementation of the demonstrator should be possible with 0.5 FTEs.
- Review of available information and definition of valid keys and values making up the meta data may require 0.5–1.0 FTEs.