



## Enabling Interoperability in Heliophysical Domains

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There are many aspects of science in the Solar System that are overlapping - phenomena observed in one domain can have effects in other domains. However, there are many problems related to exploiting the data in cross-disciplinary studies because of lack of interoperability of the data and services.

The CASSIS project is a Coordination Action funded under FP7 that has the objective of improving the interoperability of data and services related Solar System science. CASSIS has been investigating how the data could be made more accessible with some relatively minor changes to the observational metadata. The project has been looking at the services that are used within the domain and determining whether they are interoperable with each other and if not what would be required make them so. It has also been examining all types of metadata that are used when identifying and using observations and trying to make them more compliant with techniques and standards developed by bodies such as the International Virtual Observatory Alliance (IVOA).

Many of the lessons that are being learnt in the study are applicable to domains that go beyond those directly involved in heliophysics. Adopting some simple standards related to the design of the services interfaces and metadata that are used would make it much easier to investigate interdisciplinary science topics.

We will report on our finding and describe a roadmap for the future.

For more information about CASSIS, please visit the project Web site on [cassis-vo.eu](http://cassis-vo.eu)