

# JRA-Task 3. SSHADE

## Task Description

**SSHADE** (Solid Spectroscopy Hosting Architecture of Databases and Expertise) is a sub-network of 20 European contributors from 8 different countries. It will extend the **GhoSST** (Grenoble astrophysics and planetology Solid Spectroscopy Thermodynamics) infrastructure defined in FP7 programs Europlanet-RI and **VAMDC** to a large set of contributors in the field of solid spectroscopy, including the major ones. Implementation in the JRA will be followed by a phase of data documentation and validation in VESPA-VA, to ensure consistency and data quality. The resulting service will not only help improve the spectral databases of ices, minerals and organic material, but will also make the state-of-the-art laboratory data readily available as references to interpret observations of planets and small bodies, in particular from spacecraft. The 20 data providers themselves are not beneficiaries.

## SSHADE infrastructure development

### Databases infrastructure (years 1 –2)

- Adaptation of SSDM (data model)
- Reorganization of databases
- Rewriting data queries
- Design for easier data selection and browse
- Creation/customization of one database per Lab

### Reorganization of databases

- Rewriting import parsers (year 1)
- Tools for easier data import (year 2)

### VO interoperability

- with VESPA-VO and VAMDC-VO (years 2 –3)

## Time line:

[JRA-Task 3. SSHADE](#)

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## Task Pages

- [Infrastructure development](#)
  - [VAA database feeding](#) (link)
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## Contacts

- Bernard Schmitt, IPAG, Grenoble (France)
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## Useful Links

- [SSHADE databases infrastructure](#) - open February 2018
- [SSHADE Wiki](#)
- [SSHADE Blog](#) (Solid Spectroscopy Hosting Architecture of Databases and Expertise)
- [GhoSST](#) (Grenoble astrophysics and planetology Solid Spectroscopy Thermodynamics)