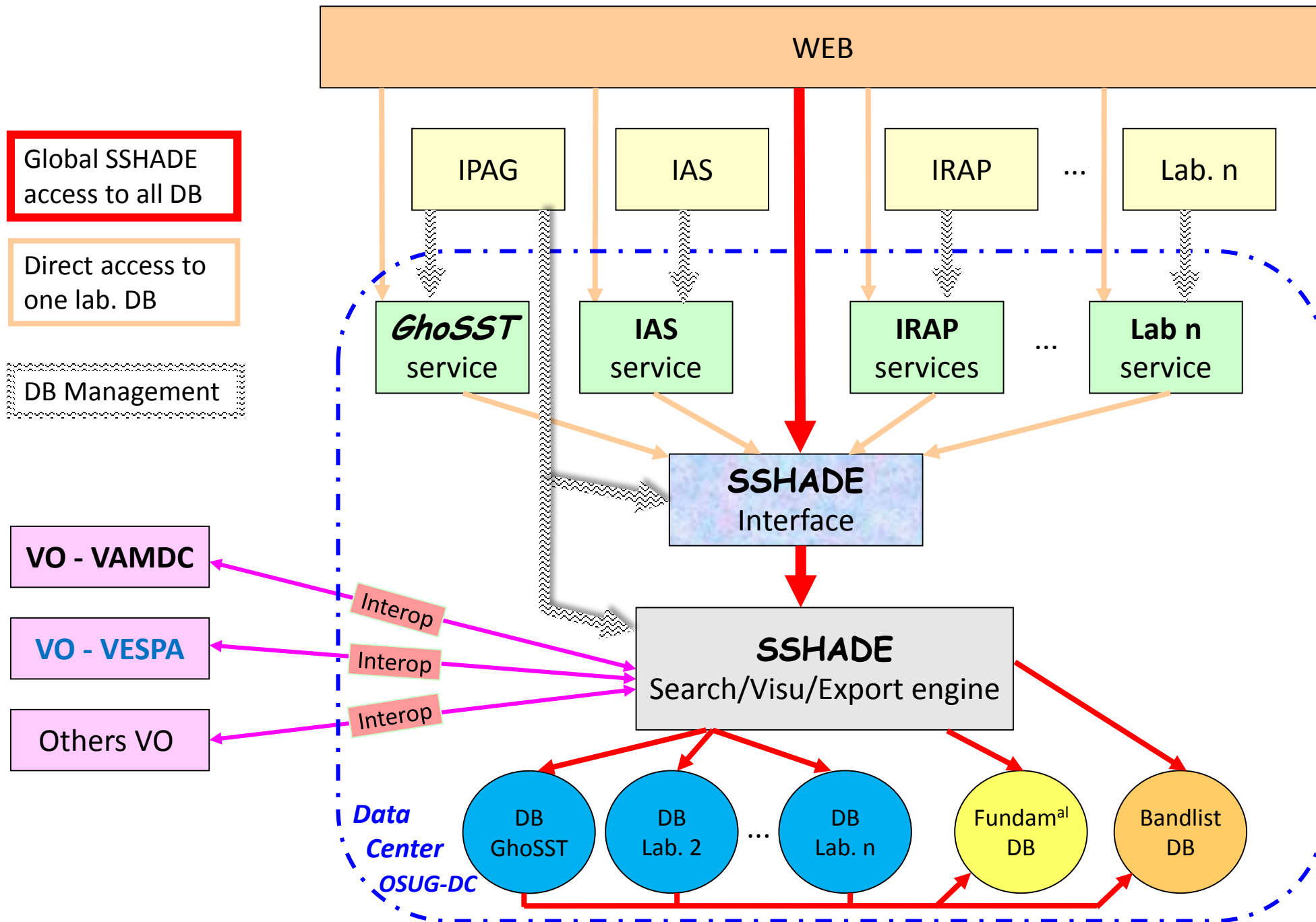


# Solid Spectroscopy data Infrastructure for European Data Providers: *SSHADÉ*

## **SSHADÉ :**

**“Solid Spectroscopy Hosting Architecture of Databases and Expertise”**

- Based on the **GhoSST** database developments (Europlanet + VAMDC)  
=> <http://ghosst.osug.fr>
- Made of:
  - ✓ A ‘solid spectroscopy’ interface
  - ✓ A Search/Visualization/Export engine
  - ✓ A set of databases: one per group (GhoSST is one of them)
  - ✓ A common fundamental database
- All hosted at OSUG data center (OSU Grenoble - UJF)
- SSHADÉ will be a service of others VO (Europlanet-VO, VAMDC, ...)



# *SSHADÉ* European Consortium of Data Providers

Consortium of **20** solid spectroscopy experimental groups  
in **8** European countries (F, GB, D, I, E, CH, PL, HU)  
involving **~65** peoples

**Each with particular expertises on:**

- some wavelength range
- specific techniques
- type of materials and physico-chemical conditions
- type of data and products, ...

**SSHADÉ blog :** <http://blog.sshade.eu>

# The SSHADE-Europe consortium in EPN@2020-RI

- **IPAG / Planéto**, Grenoble - F (Bernard Schmitt, Lydie Bonal, Damien Albert)
- **Open University**, Milton Keynes – UK (Nigel Mason)
- **IAS**, Univ. Paris-Sud - F (Emmanuel Dartois, Donia Baklouti)
- **IRAP / GPPS**, Toulouse - F (Patrick Pinet, Yves Daydou)
- **IRAP / MICMAC**, Toulouse - F (Karine Demyk , Yves Daydou)
- **LPG**, Univ. Nantes - F (Yann Morizet, Manuel Giraud)
- **Space and Planetary Science Division**, Univ. of Bern - CH (Antoine Pommerol)
- **PIIM**, Univ. Aix-Marseille - F (Patrice Theulé)
- **IAPS**, INAF, Roma - I (Alessandra Rotundi, Vincenzo della Corte)
- **IAPS**, INAF, Roma - I (Fabrizio Capaccioni, Christian Carli)
- **LISA**, Univ. Paris-Est - F (Nicolas Fray)
- **AIU Observatory**, Jena - D (Harald Mutschke, Jürgen Weiprecht) [DOCCD 'database']
- **Centro de Astrobiología**, INTA-CSIC – E (Guillermo Muñoz Caro)
- **Instituto de Estructura de la Materia**, Madrid – E (Vicente Timón, Miguel Angel Moreno)
- **LATMOS / IMPEC**, Institut Pierre Simon Laplace - F (Nathalie Carrasco)
- **LGL / ENS-Lyon** - F (Bruno Reynard, Gilles Montagnac (exp.), Razvan Caracas (theory))
- **Konkoly Astronomical Institute** – HU (Akos Kereszturi)
- **Planetary Geology Lab.**, Institute of Geological Sciences, Polish Academy of Sciences – PL (Joanna Gurgurewicz, Luigi Castaldo)
- **Clay Mineral Laboratory**, Institute of Geological Sciences, Polish Academy of Sciences – PL (Joanna Gurgurewicz, Luigi Castaldo)
- **ESRF / FAME line**, Grenoble – EU / F (Denis Testemale, Isabelle Kieffer)



# JRA-5 Activities (WP 11)

## JRA – 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)

# VA2 Activities (WP 6)

## VAA – Database feeding

### **Coordination of consortium**

- Animation of SSHADE consortium
- Development of the common 'band list database'

### **Support to consortium**

- 3 SSHADE consortium meetings (years 1, 2, 4)
- Formation/training of database managers and 'feeders' (Years 1 - 3)
- Preparation of documentations and tutorials for providers
- Technical support to adapt import file & interface to each data set
- In-situ & on-line support to each database manager
- Help feed data collected by the visitors of TNA on spectroscopic instruments

### **Support to users**

- Tutorials & training for users at conferences (Years 3 - 4)
- Preparation of documentations and tutorials for users
- On-line support

# Who do what

## SSHADE management

- *Scientific Manager:* Bernard Schmitt (IPAG)
- *Software Manager:* Damien Albert (OSUG)

## SSHADE development

- *Databases development:* Philippe Bollard (IPAG, formerly @ Coriolys)
- *Interfaces Design:* Maria Gorbacheva (Flex-Studia)
- *VO interoperability:* Damien Albert (OSUG)
- *Databases storage:* Damien Albert (OSUG Data Center, Grenoble)

## Data bases feeding

- *Consortium/users support:* Scientific Engineer (to be hired @ IPAG)
- *Data validation, DB animation* Scientific Manager (one at each consortium group)
- *Data preparation & import* Database Manager (one at each consortium group)
- *Data prep./import @ CML & PGL* Scientific Engineer (to be hired @ IGS-PAS)

# SSHADA Time line

## 2015

- September
- November

**Start of Europlanet 2020-RI**  
Start of SSHADA development

## 2016

- March
- June
- August
- October

1st SSHADA meeting  
Training database managers (session #1) (D6.3 VAA VESPA – Y1)  
**SSHADA prototype delivery** (D11.5 JRA VESPA)  
Training database managers (session #2)

## 2017

- April
- June
- August
- September
- October
- October
- October

Training database managers (session #3)  
3 databases ingested in SSHADA (D6.3 VAA VESPA – Y2)  
**SSHADA infrastructure** (D11.7 JRA VESPA)  
Training users EPSC (session #1) (D6.5 VAA VESPA)  
6 databases ingested in SSHADA  
2nd SSHADA meeting  
Training database managers (session #4)



# SSHADA Time line

## 2018

- March Training database managers (session #5)
- April Training users EGU (session #2) (D6.5 VAA VESPA)
- June 9 databases ingested in SSHADA (D6.3 VAA VESPA – Y3)
- September Training users EPSC (session #3) (D6.5 VAA VESPA)
- October Training database managers (session #6)
- November 12 databases ingested in SSHADA

## 2019

- March 15 databases ingested in SSHADA
- March 3rd SSHADA meeting
- April Training users EGU (session #4) (D6.5 VAA VESPA)
- June 18 databases ingested in SSHADA
- August SSHADA with 18-20 databases (D6.3 VAA VESPA – Y4)
- August End of Europlanet 2020-RI