


# Results of the EU-SOLARIS Preparatory Phase (Part II)

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Brussels (Belgium)

**EU SOLARIS**



The EU-SOLARIS Project is co-funded by the European Union

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## EU-SOLARIS Services and Access

(E. Zarza, CIEMAT-PSA)

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**EU SOLARIS** **EU-SOLARIS Services**

➤ **Service:**  
 “any technical assistance of experimental, analytical nature or combination thereof, related to Concentrating Solar Thermal (CST) and Solar Chemistry technologies and provided to a third party (e.g. Industrial Sector, R&D Centers, Universities, etc...) on a price-per-job basis”.

➤ **Information compiled about EU-SOLARIS Services:**

- Service name
- Partner(s) offering the Service
- Method or approach which the Service is based on
- Deliverable or product resulting from the Service
- Facility or equipment associated with the Service
- Availability of the Service for EU-SOLARIS

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**EU SOLARIS** **EU-SOLARIS Services**

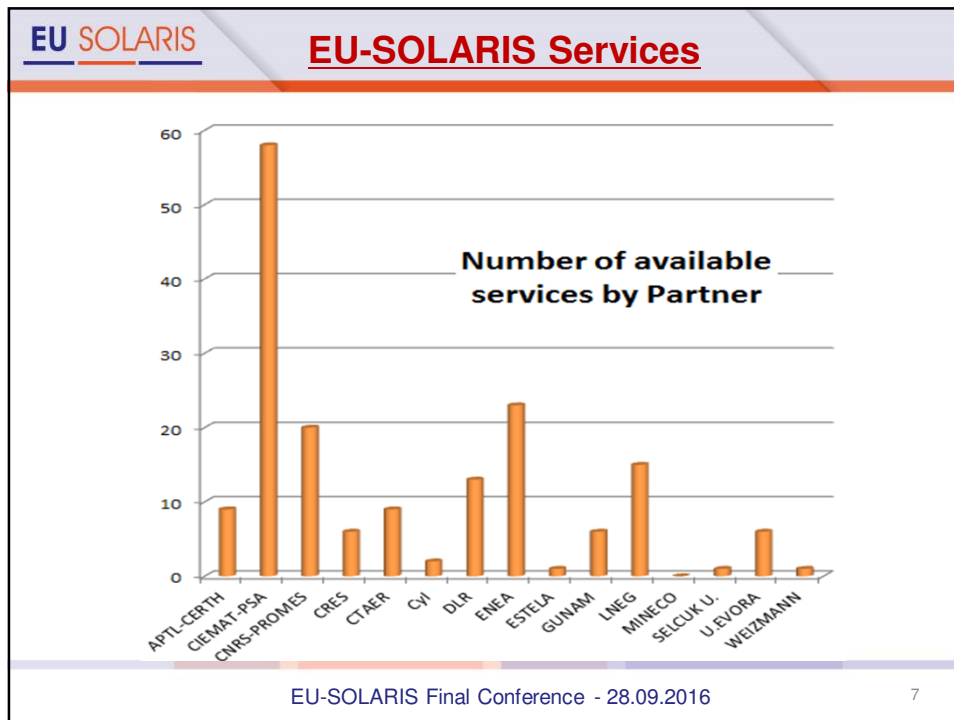
➤ **Service types:**

The diagram illustrates 16 service types for EU-SOLARIS, organized into three columns:

- 1) Solar & Meteorological Resource
- 2) Reflectors & Concentrators
- 3) Absorbers & Receivers
- 4) Heat Transfer Fluids
- 5) Pumps, valves & filters
- 6) Heat Storage (media & system)
- 7) Heat Exchangers
- 8) Power Block
- 9) Heat Rejection
- 10) Performance of the Whole Plant
- 11) Horizontal Measurement & Calibration Services
- 12) Specific Services of Solar Chemistry
- 13) Specific Services of Solar Fuels
- 14) Material's Testing & Qualification
- 15) Access to Facilities and Training
- 16) Other Services Associated to Solar Concentration Technologies

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**EU SOLARIS** **EU-SOLARIS Services**

➤ **Final remarks:**

- The portfolio of EU-SOLARIS available services includes about 170 services
- EU-SOLARIS services have been grouped into 16 different types, covering all the subjects related to key components and subsystems, as well as horizontal activities (e.g., policy and planning activities)
- The largest amount of EU-SOLARIS available services are related to testing and qualification of key components (i.e., reflectors, receivers and absorbers)
- Some services are provided by several Partners, thus making advisable an standardization to assure the same type and quality of deliverables
- Some services are already jointly offered by several partners (e.g., services offered by PSA and DLR at the OPAC laboratory and KONTAS test facility)

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**EU SOLARIS** **EU-SOLARIS Access Activities**

➤ **Access:**

“**Access**” refers to the legitimate and authorised physical, remote or virtual Access to Research Infrastructures, data or services offered by Research Infrastructures to *Users*.

➤ **Access types in EU-SOLARIS:**

Three different types of Access have been defined in the Preparatory Phase of EU-SOLARIS:

- Market-based Access
- Quality-based Access
- Archival Access

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**EU SOLARIS** **EU-SOLARIS Access Activities**

**Market-based Access**

- This Access has a clear commercial objective (e.g., qualification of a prototype, development of an innovative component or technology, etc.).
- The duration of this type of Access may be of several months or even years.
- It is especially suitable for private companies (e.g., industrial developers, equipment manufacturer, engineering companies, etc.) wanting to test new designs or concepts at a pilot scale. It is also suitable for R+D groups willing to conduct experiments in the RIs coordinated by EU-SOLARIS when they have got the required funding from external entities
- In principle, fees associated to a market-based Access will not be paid, neither totally nor partially, by EU-SOLARIS
- It can be contracted by the User either via EU-SOLARIS or directly with the RI providing the Access (User`s choice)

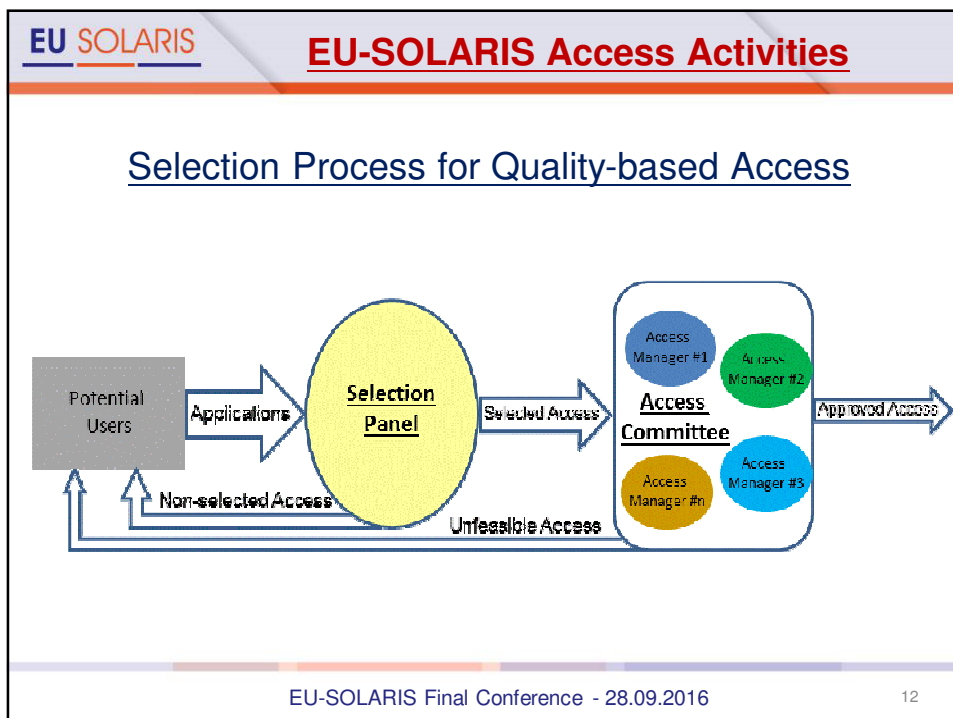
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**EU SOLARIS** **EU-SOLARIS Access Activities**

### Quality-based Access

- It is especially suitable for European R+D groups that have neither the RI required to perform the intended experiments nor the budget to pay the access fee to EU-SOLARIS RIs
- In principle, depending on budget availability, fees associated to a quality-based access will be paid, totally or partially, by EU-SOLARIS
- It is only dependent on the scientific excellence, originality and feasibility of the application submitted by the User
- The duration of this type of Access will be shorter than that of market-based access (several weeks only)
- Potential Users must submit an application to EU-SOLARIS. A Selection Panel composed of independent experts will evaluate all the applications to select the best ones according to the criteria previously defined

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**EU SOLARIS** **EU-SOLARIS Access Activities**

### Archival Access

- It is oriented to on-line and remote access to data bases of information related to the RIs and their experimental results. The access to a central repository of specific software related to CST technologies will also be possible with this Access mode
- The remote performance of test by Users is not within the scope of this Access mode
- The implementation of a powerful **e-infrastructure** connecting all the RIs coordinated by EU-SOLARIS would strongly enhance the Archival Access
- The rules for this type of Access have not been fully defined yet because the Partners have very little experience related to this mode of Access
- In principle, depending on budget availability, fees associated to an Archival Access will be paid, totally or partially, by EU-SOLARIS

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**EU SOLARIS** **EU-SOLARIS Access Activities**

### ➤ Final remarks:

- Three different Access modes have been defined for EU-SOLARIS:
  - a) Market-based Access
  - b) Quality-based Access
  - c) Archival Access
- Rules and procedure for Quality-Based Access have been fully defined in the Preparatory Phase of EU-SOLARIS, while market and Archival Access modes still require further development
- Market-base Access is more suitable for private companies, while Quality based and Archival Access modes are more suitable for R+D groups

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Thank you for your attention!

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**For more information:**  
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