



# Report from the TCG F2F Mtg #1

<http://www.ivoa.net/cgi-bin/twiki/bin/view/IVOA/TCGMeetingAgenda201005>

## and TCG Status

*Christophe Arviset  
For the TCG*

# TCG F2F #01

## Meeting main objectives



TCG

1. Review and update IVOA top level architecture

Friday 14/05

2. Study main Science use cases for the VO

3. Discuss and review TCG organization

Saturday 15/05

4. Get TCG together, not just "virtually"

- Asked by the IVOA Exec
- Encouraged by TCG members in Garching
- Interactive and constructive F2F discussions

Both days!



# TCG F2F#1 Participants



TCG

- TCG - Christophe and Severin
- Apps WG – Tom and Mark
- DAL WG – Keith and Jesus
- DM WG - Mireille
- GWS WG – Matthew
- Registry WG - Ray
- Semantics WG – Sebastien
- VOEvent WG - Rob
- VOTable WG – Francois
- Std & Proc Ctte– Francoise
- Theory IG – Herve
- IVOA – Fabio and Paolo



# IVOA Top Level Architecture

## What?



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## 2 views required

1. (level 0) view for “public” consumption
  - Global, generic, minimize VO jargon
  - Readable by all, not too technical
2. (level 1) view for IVOA and VO needs
  - Extension of (level 0)
  - More detailed, all IVOA standards mentioned
  - Clear connections between IVOA standards (helps the TCG review, the inter-dependency)
  - Shows what is need to implement VO (as a Data Centre, an Apps developer, an astronomer, ...)



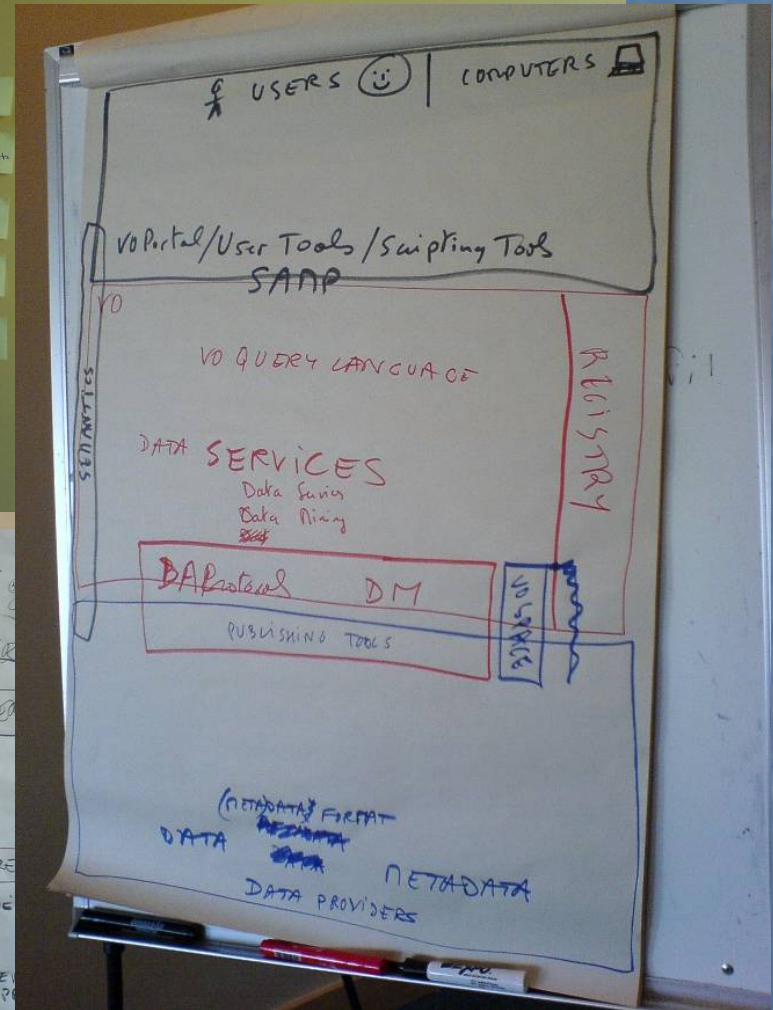
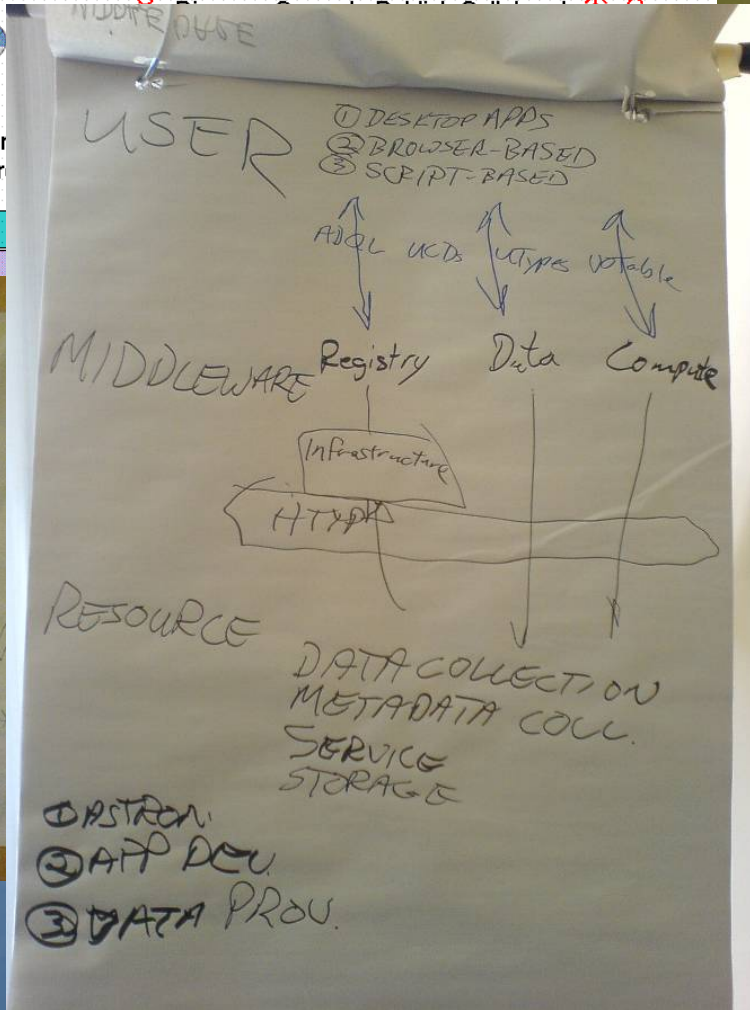
# IVOA Architecture In progress



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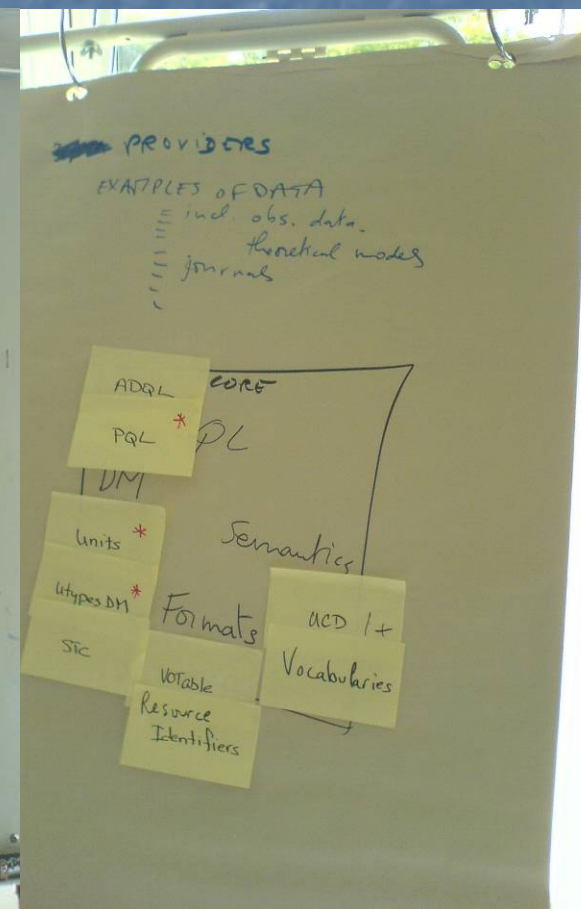
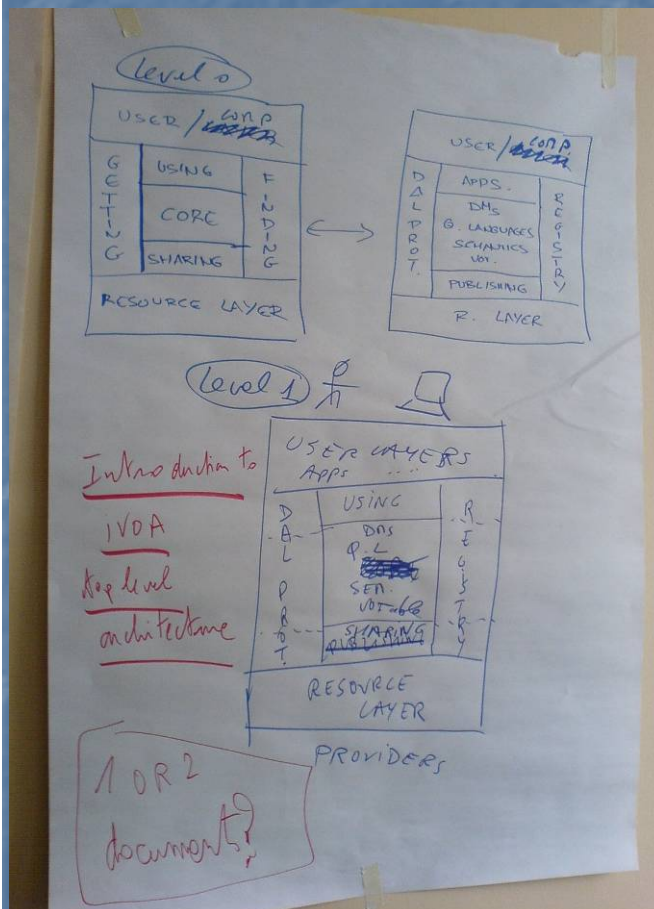
Virtual  
Observer  
Architecture



# IVOA Architecture Getting there



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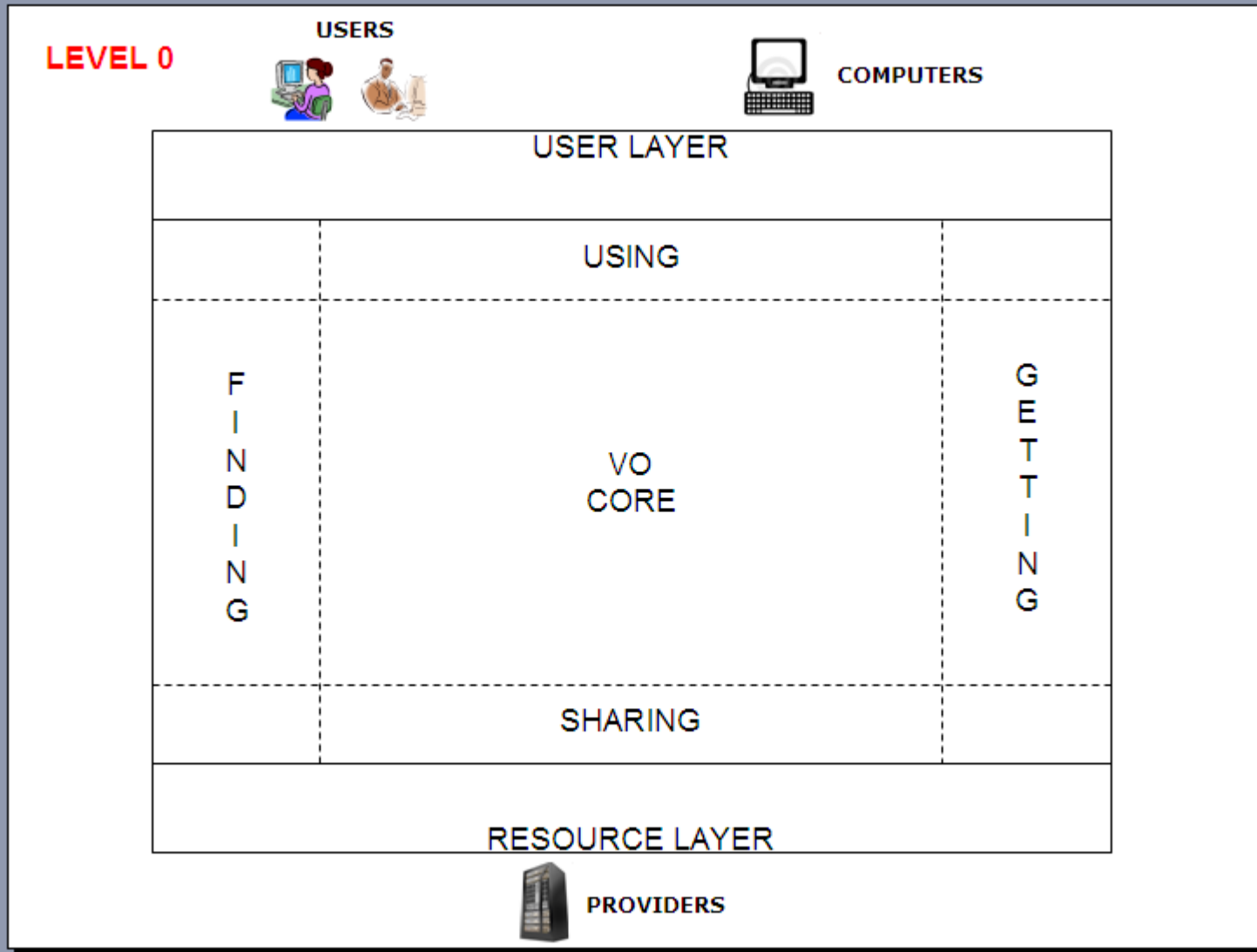




# IVOA Architecture – Level 0



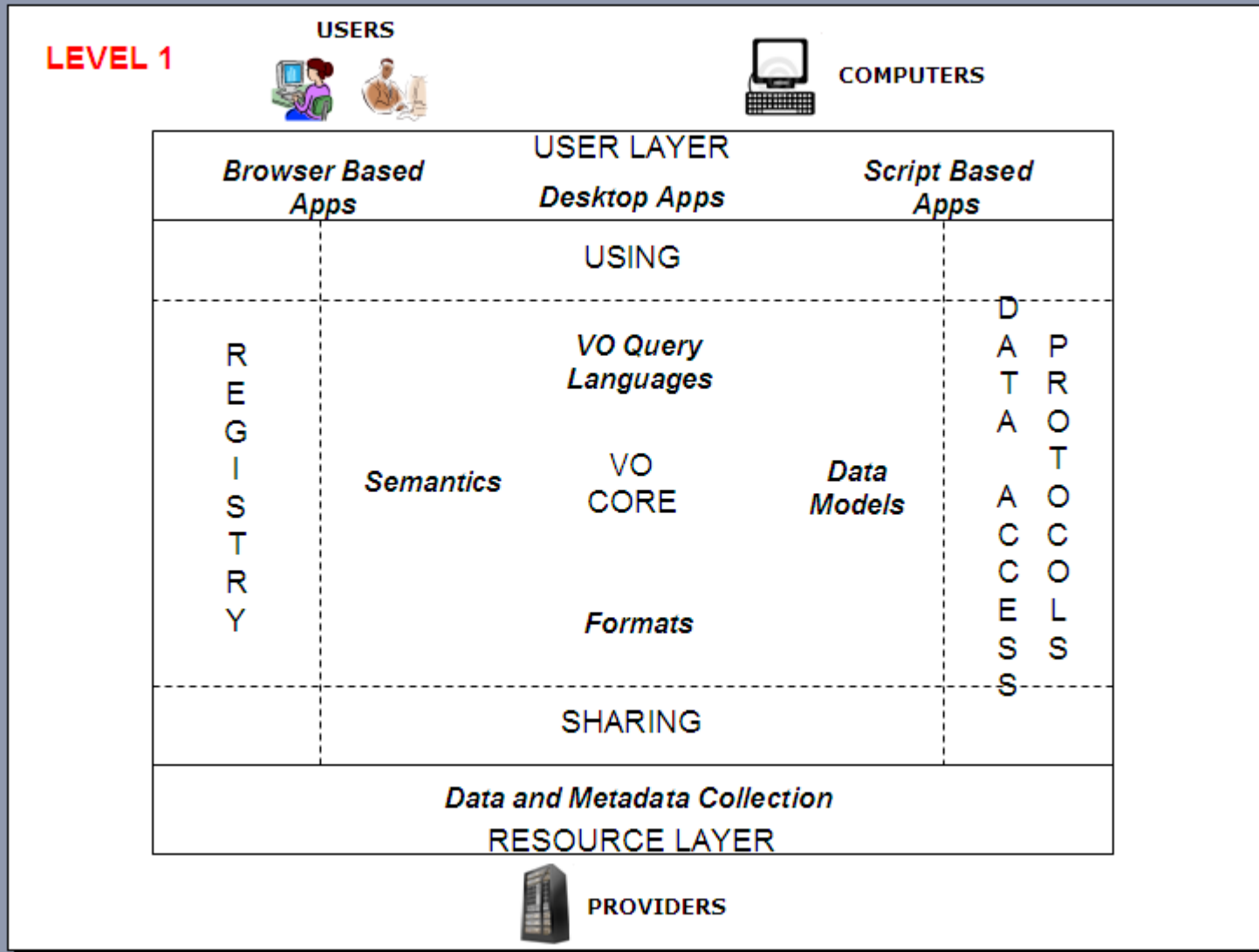
TCG



# IVOA Architecture – Level 1



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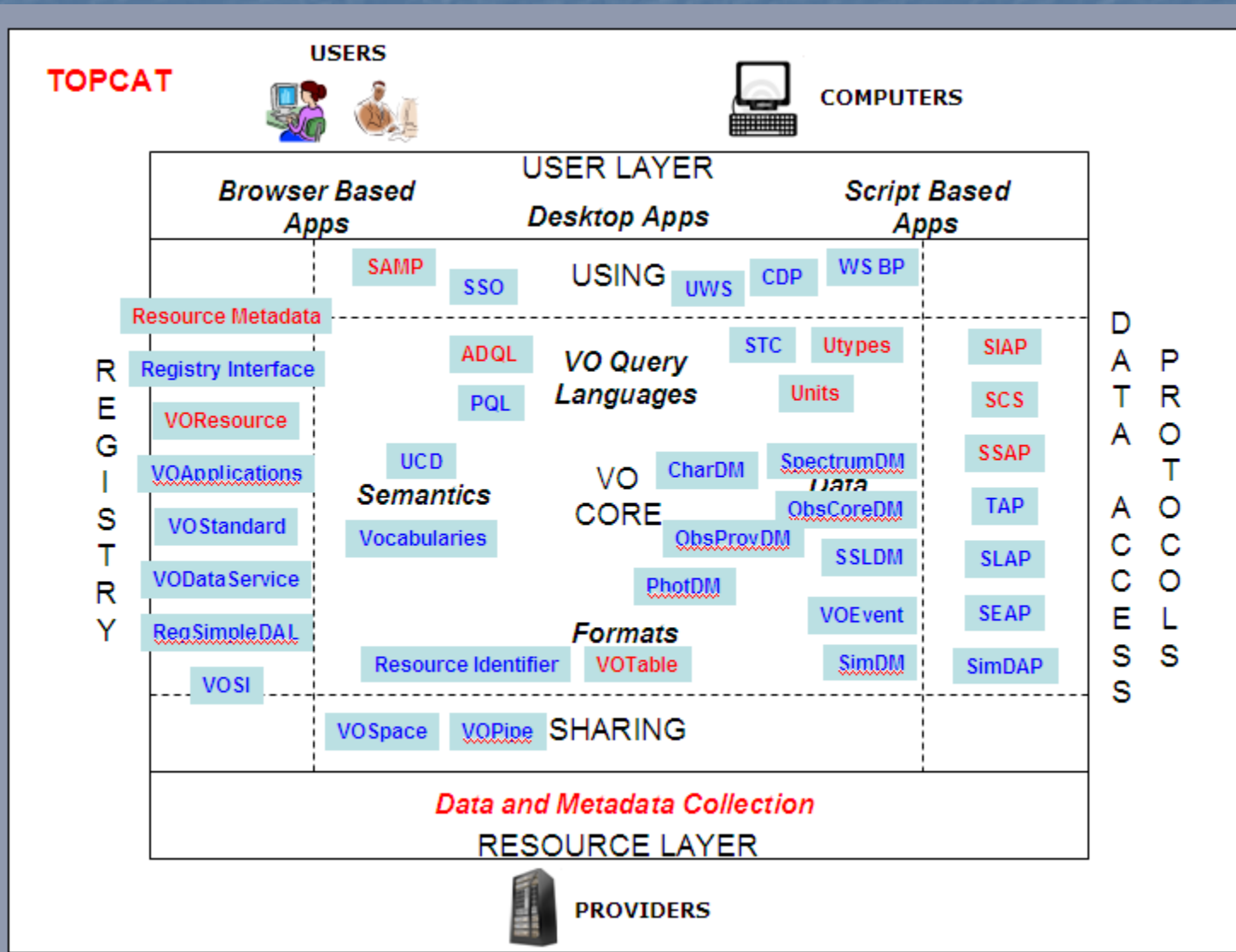


# IVOA Architecture

## In action - TOPCAT



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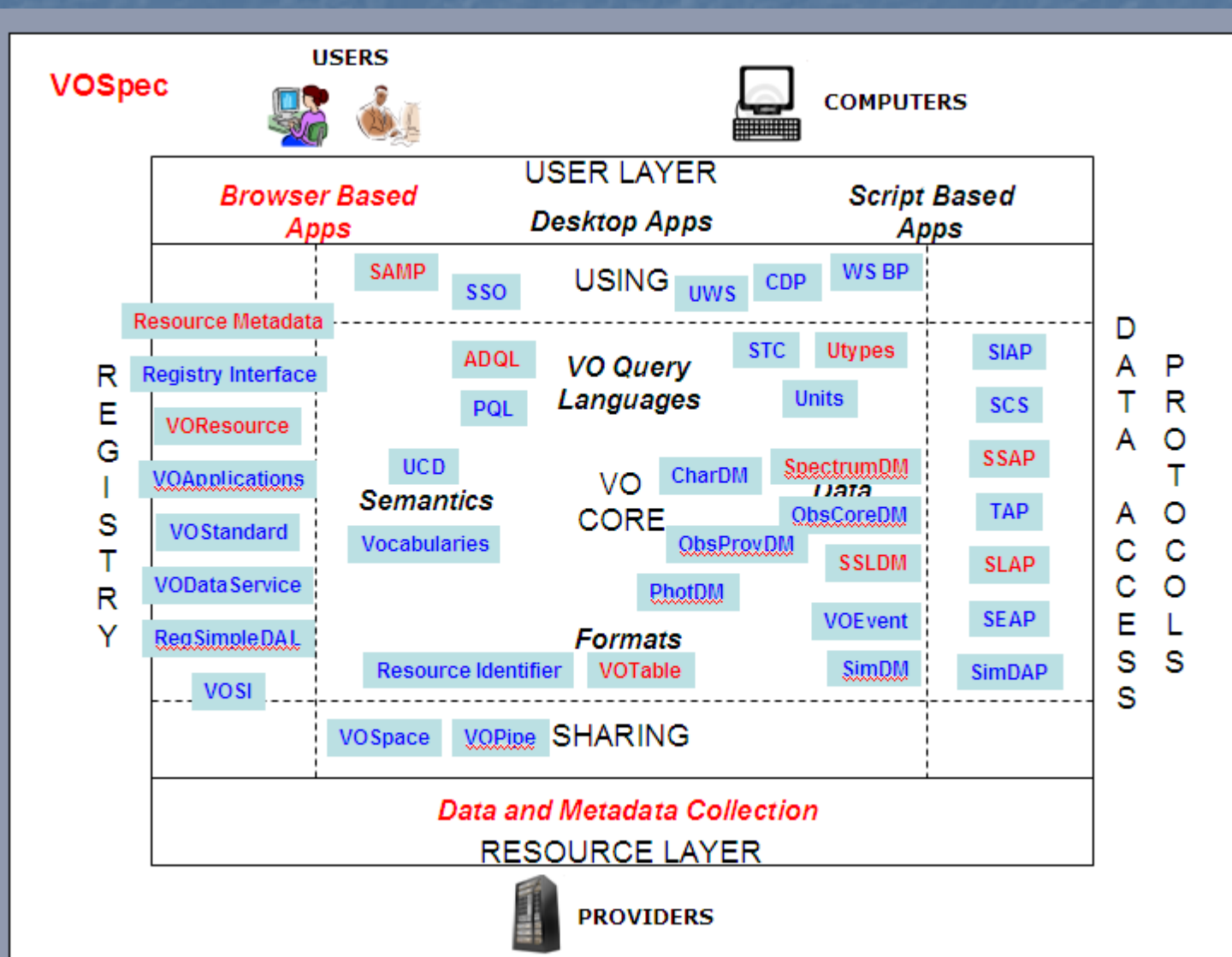


# IVOA Architecture

## In action - VOSpec



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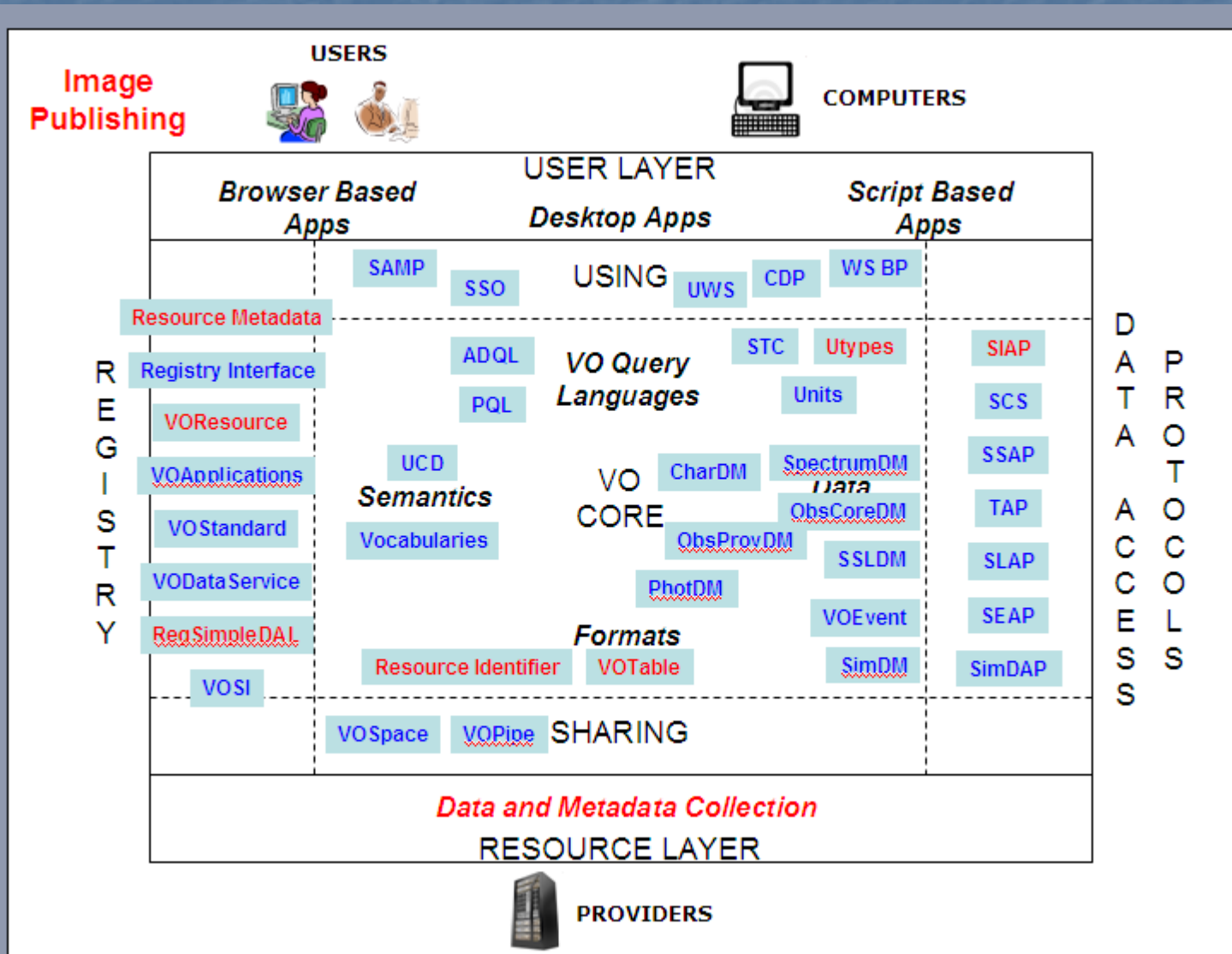


# IVOA Architecture

## In action – Image Publishing



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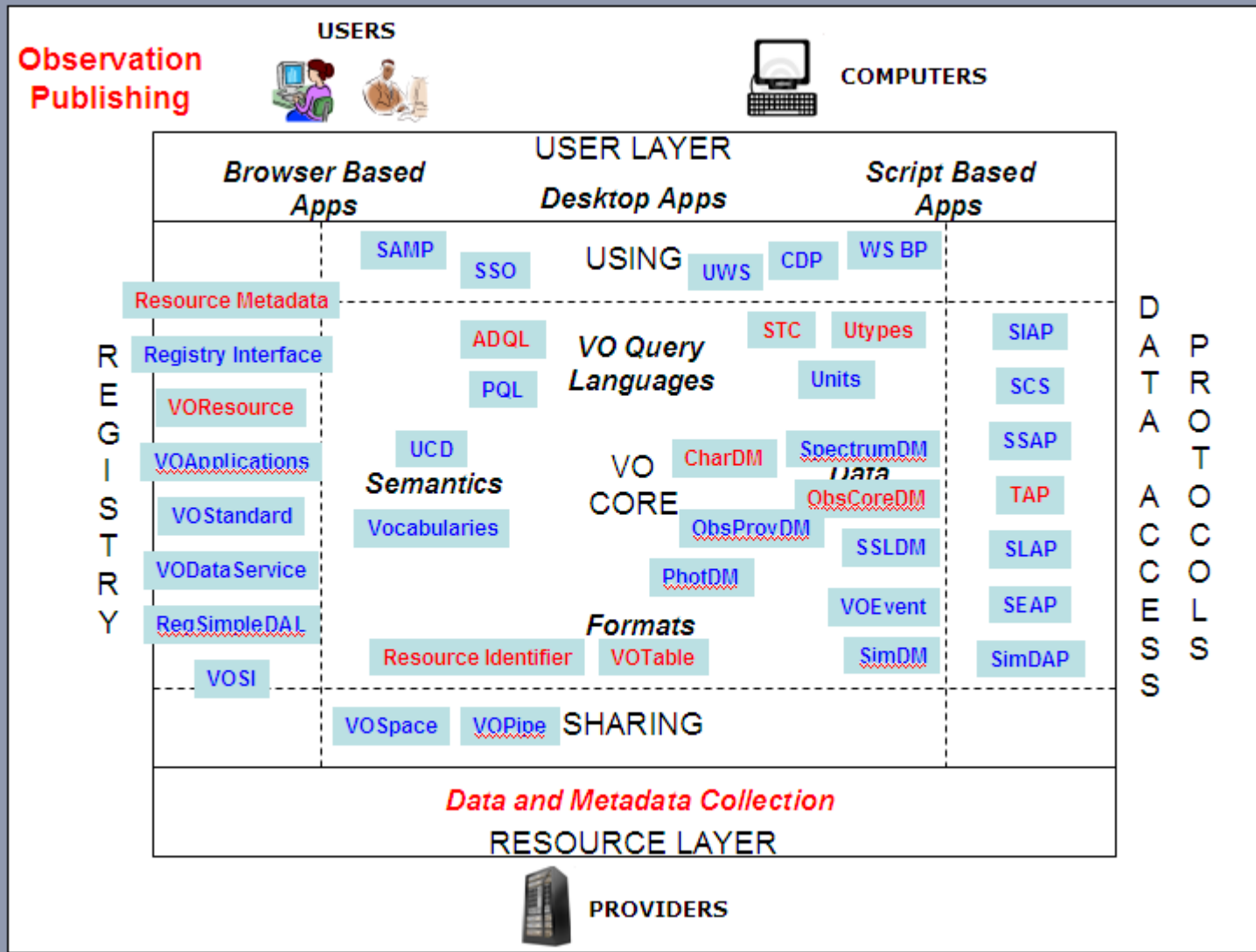


# IVOA Architecture

## In action – Observation Publishing



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# Updated IVOA Architecture



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- Including all existing IVOA REC standards
- Including all (planned) upcoming IVOA standards



- Clearer IVOA “Technical” Picture

- For the public
- For the IVOA
- For the WG and IGs
- For the VO “implementers”





# IVOA Architecture

## Next steps



TCG

- Finalize and write IVOA Note with updated Architecture
  - 1 or 2 documents ?
- For all upcoming standards, include IVOA architecture showing where the standards fits in it
- (editorial) Update of all existing standards with similar change ?
  - (side question) we might need a “fast track” for IVOA standards for this type of change

# Science Cases



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- Drive TCG work from science requirements coming from the community
- 3 main science cases coming from the IVOA Take-up Committee
  - SED building
  - Search by list of sources + search on class
  - VO "Portal"
- Brainstorming sessions and compilation to determine IVOA standards required to address these science cases

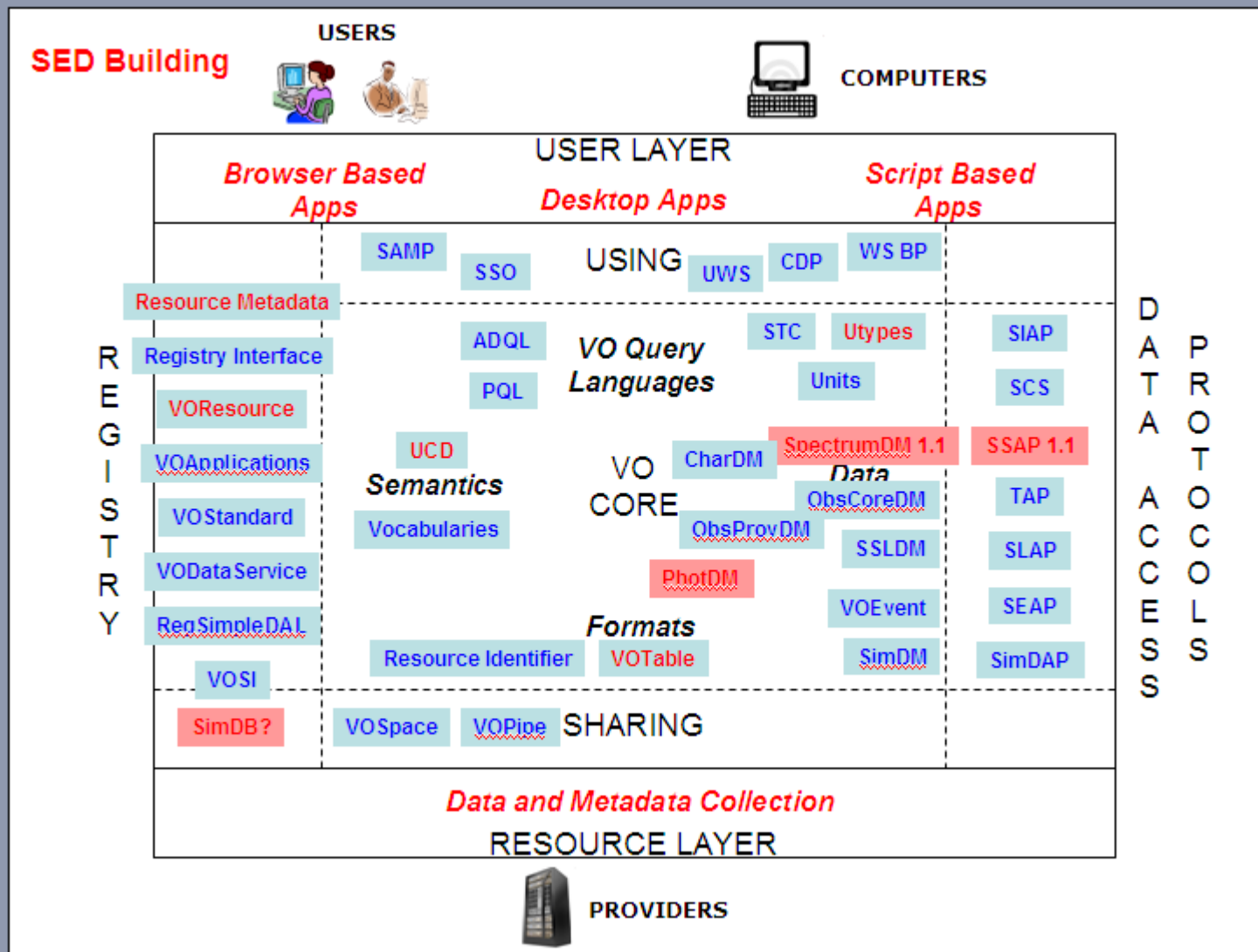




# SED Building



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Document SED part of the model

SED data provider cookbook (NOTE)

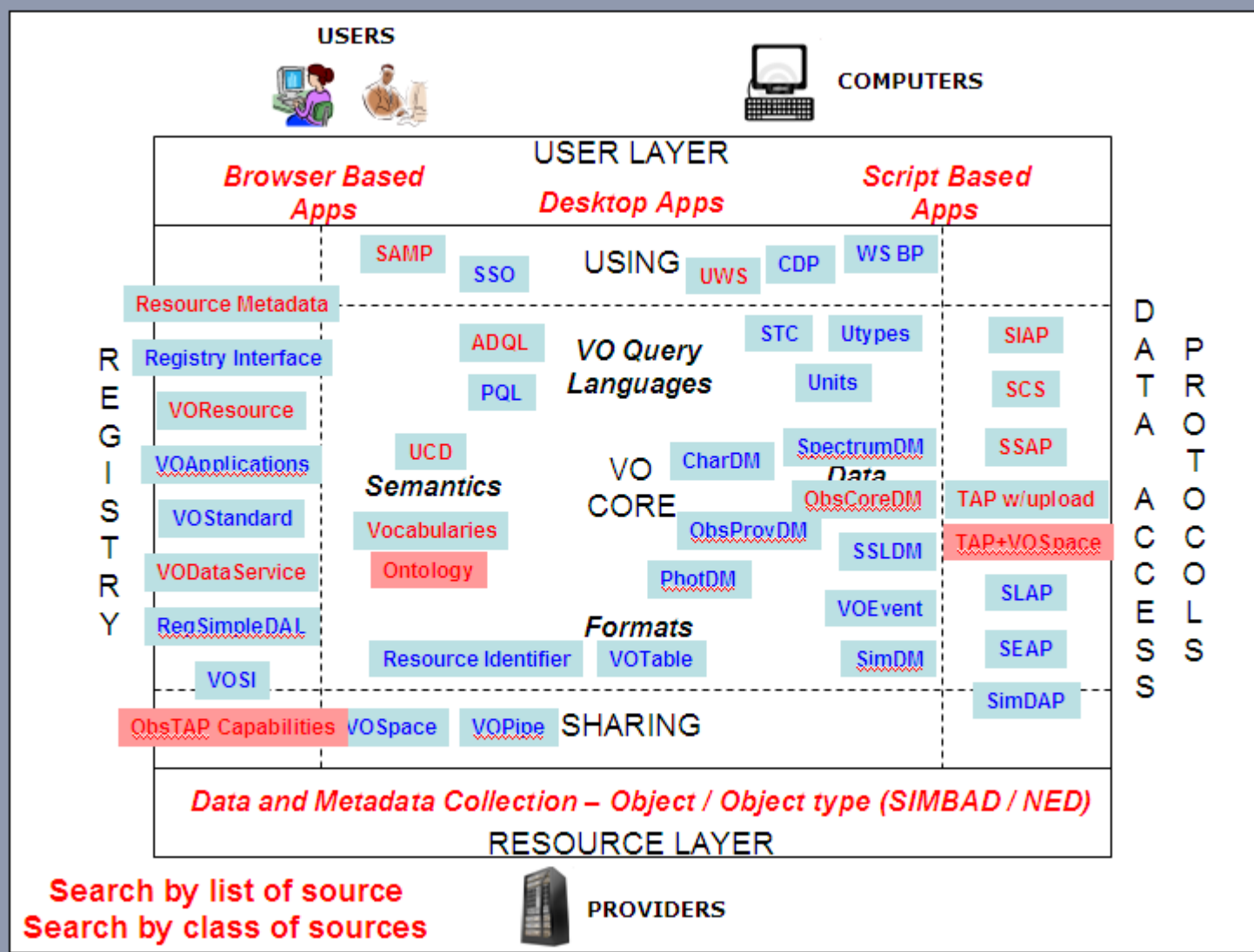
TAP to be used as well ?

# Search by list of sources

# Search by class of sources



TCG



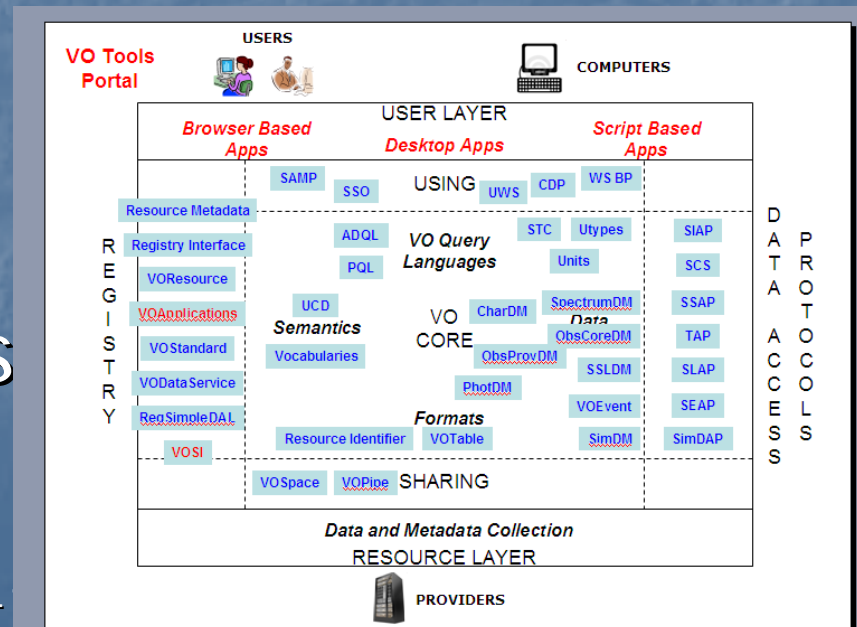
Source DM to be considered as well ?

# VO "Portal"



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- Discussion about the concept
  - More a VO Tools discovery portal
  - Not a data discovery portal
- Linked with overall IVOA Web reorganization
  - EXEC FM34S-6 on AL
  - Site of the astronomer
- Dynamic list of VO Tools
  - Curation issues





# Science Cases

## Next steps



TCG

- Some standards to be finalized
- Some standards to be updated
- New standards to be developed
  
- To be endorsed by the EXEC
  
- To be taken into account in WG / IG upcoming work plan and reflected in Technical Assessment and Roadmap for 2010

# Validation and Verification 1/2



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- Two dedicated sessions planned during this interop
- Discussions about the process at TCG F2F
  
- Inter-dependency and consistency of standards amongst WGs
  - Normally addressed through TCG review
  - Now made clearer with updated IVOA Architecture
  
- Inconsistencies of Registry entries
  - To be addressed by Registry WG

# Validation and Verification 2/2



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- Validation and Verification of standards implementation
  - To be addressed by each WG
  - At next Nara Interop
    - Special standards implementation and feedback session for each WG (joint sessions if more adequate)
    - Each WG chair to look at all existing implementations of the WG standards, “learn” from these, and determine if modifications / improvements of the standards are required
- For the main Science cases
  - “Contact name” from the Committee on Science Priorities
  - Regular implementation report in Apps sessions



# TCG Organization (1/2)



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- TCG current structure adequate
  
- Some WGs to become more “operations” focussed (eg Apps, VOEvent, Registry)
- Merge VOQL WG with DAL WG
  
- Creation of a “Core Components” WG to be envisaged ?
  - No agreement, Discussion still required
  - Including Semantics, core parts of DM (units, STC, Utypes)  
?

# TCG Organization (2/2)



TCG

- Agreement on continuation of TCG F2F meetings
  - F2F #1 very useful and productive
  - Lots of achievements in small time
  - All members now with a common IVOA Architecture view
  - Triggered various discussions to be addressed by the TCG
  
- 1 day TCG F2F meeting before each interop ?
  
- Presence of full TCG at Exec
  - Some find it useful, others less

# State of the TCG



TCG

## ■ Standards in REC process

### **On-going Recommendations (RFC period)**

- [Web Services Basic Profile 1.0 RFC](#), 24/03/2010-28/04/2010
- [IVOA Support Interfaces \(VOSI\) 1.0 RFC](#), 09/04/2010-14/05/2010

### **On-going Recommendations (TCG Review)**

- [UWS 1.0 RFC](#), 05/10/2009-05/11/2009, TCG Review 17/02/2010-19/03/2010
- [VODataService 1.1 RFC](#), 15/04/2010-15/05/2010
- [SLAP 1.0 RFC](#), 20/07/2009-15/09/2009, TCG Review 12/05/2010-11/06/2010
- [SSLDM 1.0 RFC](#), 20/07/2009-15/09/2009, TCG Review 12/05/2010-11/06/2010

## ■ Technical Assessment and Roadmap for 2010 to be written