



PLENARY CLOSING SESSION

2011 October 21

Theory Interest Group

SimDM

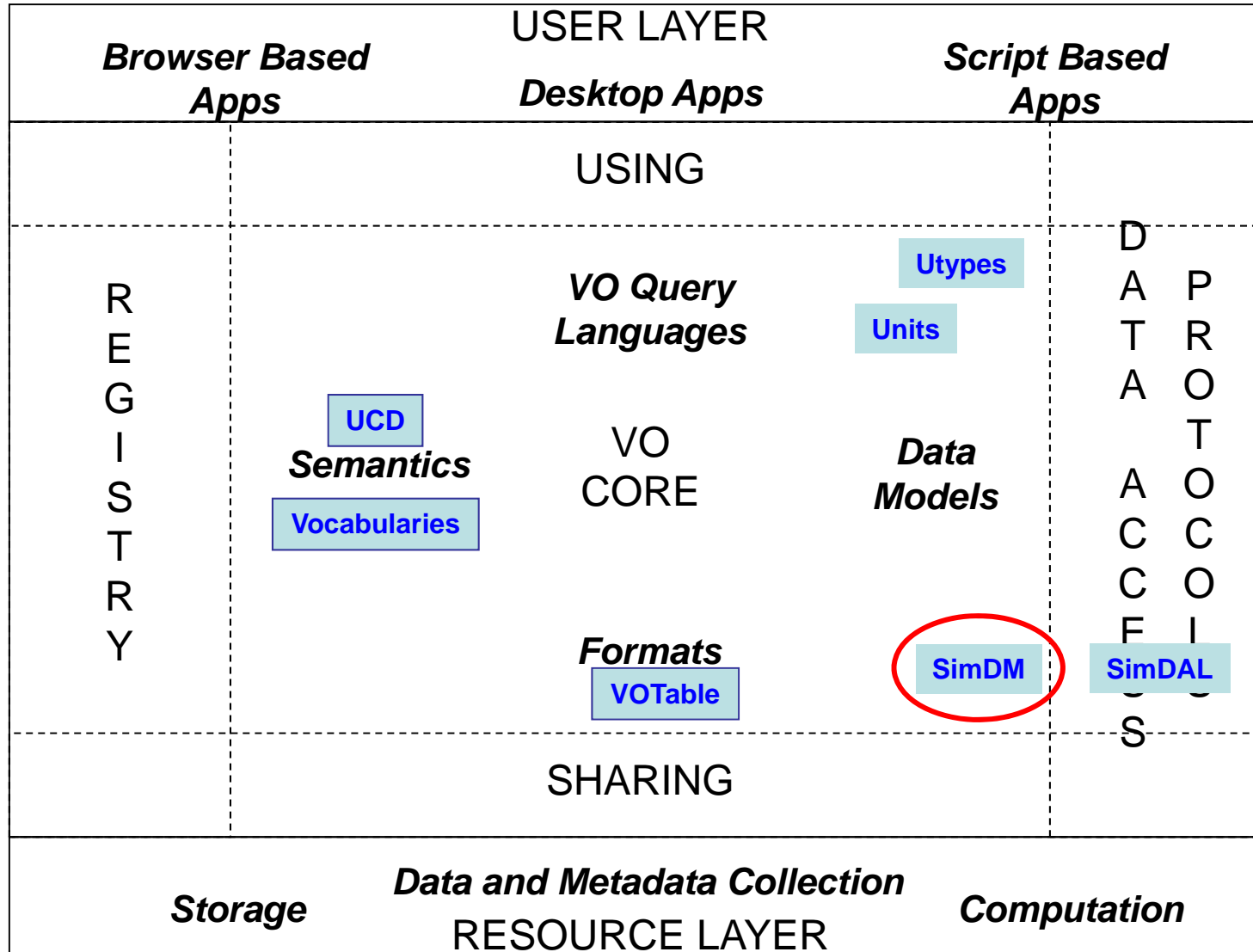
USERS



COMPUTERS

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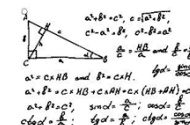
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IVOA Architecture



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SimDM

- Monday (session 1):
 - Discussion on replies got during the RFC overtime
 - Minor changes in the appendix of the PR document
 - Ready for TCG review
- DM opened the TCG review yesterday
- End of TCG review: Nov 20th
- REC beginning 2012 ?

- **Simulation** DM OK \Rightarrow sTimulation of new ideas...

SimDAL

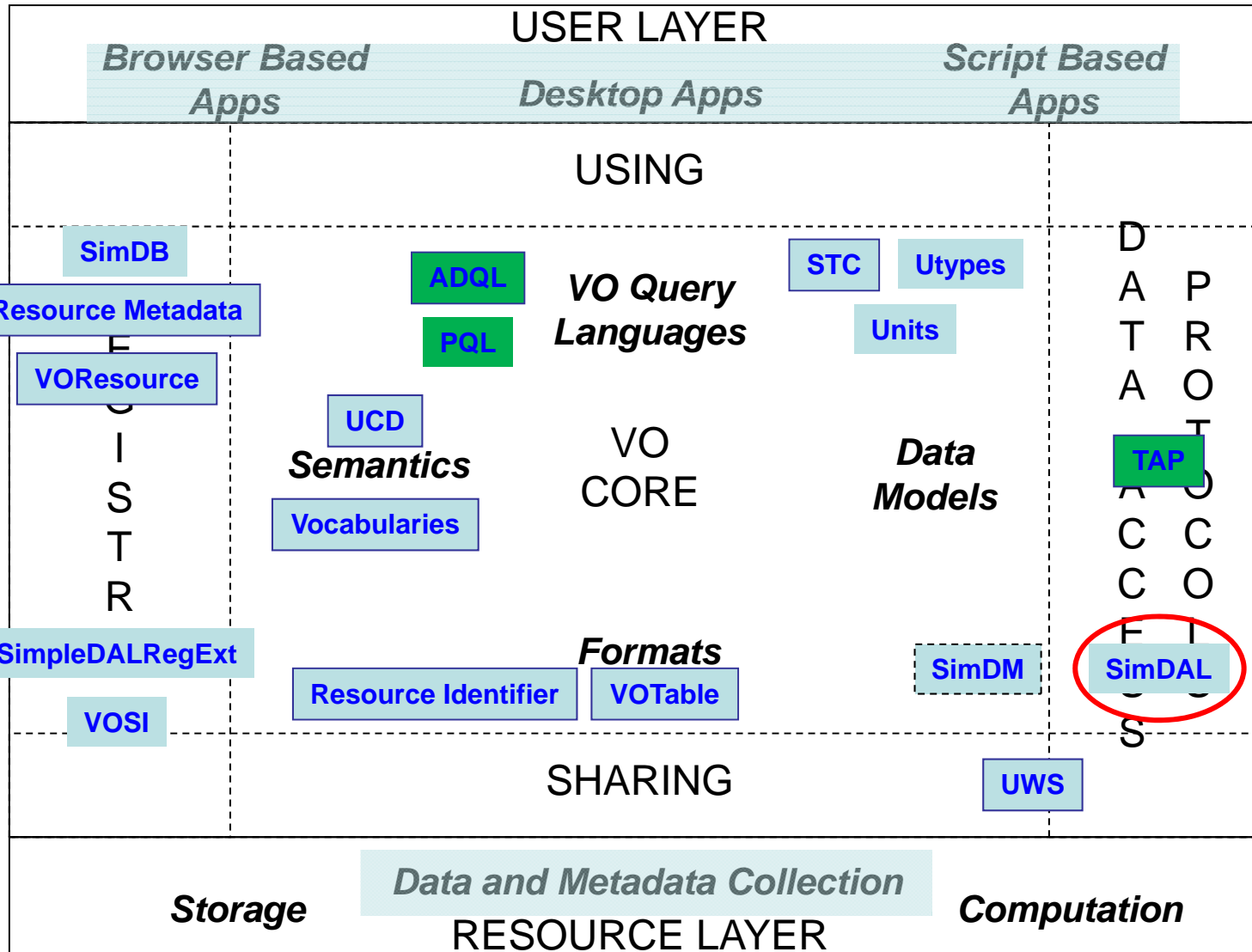
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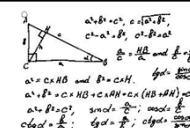
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SimDAL (1)

- Tuesday (session with DAL)
 - Status of various ideas on what the discovery part of SimDAL should be and its relationship with SimDB
 - Several important outcomes of the discussion:
 - TAP, being a self-describing protocol, is the easiest way to find out interesting Experiments and Results
 - we cannot fully specify the names of the columns
 - BUT: the SimDAL spec can specify the name of two mappings tables in TAP_SCHEMA.tables, allowing to
 - The name of the tables must be part of the SimDAL spec
 - One SimDAL service will be able to manage several Protocols
 - TAP/PQL also needed and promising trials (Pat)



SimDAL (2)

- Still to be worked out:
 - Preview, cutout : not so obvious even if they are not mandatory...
 - Download
 - File formats supported (no unique FITS format for simulations ☹)
- Action: update David's prototype



SimDAL roadmap

- From now to next interop
 - Progress on the WD
 - update David's prototype to check TAP implementation
- Beginning 2012: F2F meeting on SimDAL (date, location TBD)
- May 2012 (next interop)
 - Check David's prototype
 - Update WD accordingly



SimDB

- Theory services:
 - Numerous small services with many files setup by small research groups
 - AND
 - A few large services with huge simulations (e.g. numerical cosmology challenges)
- User requirement: find out the few good 'providers' with the minimum of queries and steps during the discovery phase.
- But: Registries are not sufficiently fine-grained \Rightarrow additional step in the discovery phase
- **SimDB = A DB of simulations metadata (SimDM) with a TAP interface for finding simulations of interest for the user**



SimDB roadmap

- SimDB relies on :
 - ✓ SimDM ~ OK
 - Which part of SimDM metadata must can go to Registries
 - Depends on Registry capabilities
 - Depends if a Registry TAP interface will allow for queries on SKOSConcept
- Next interop
 - Have to decide whether we push further SimDB
 - Depends strongly on the future of Registries
 - TAP interface on Registries
 - Queries on SKOSConcept ?
 - Joint Registry/Theory session?

SimDB

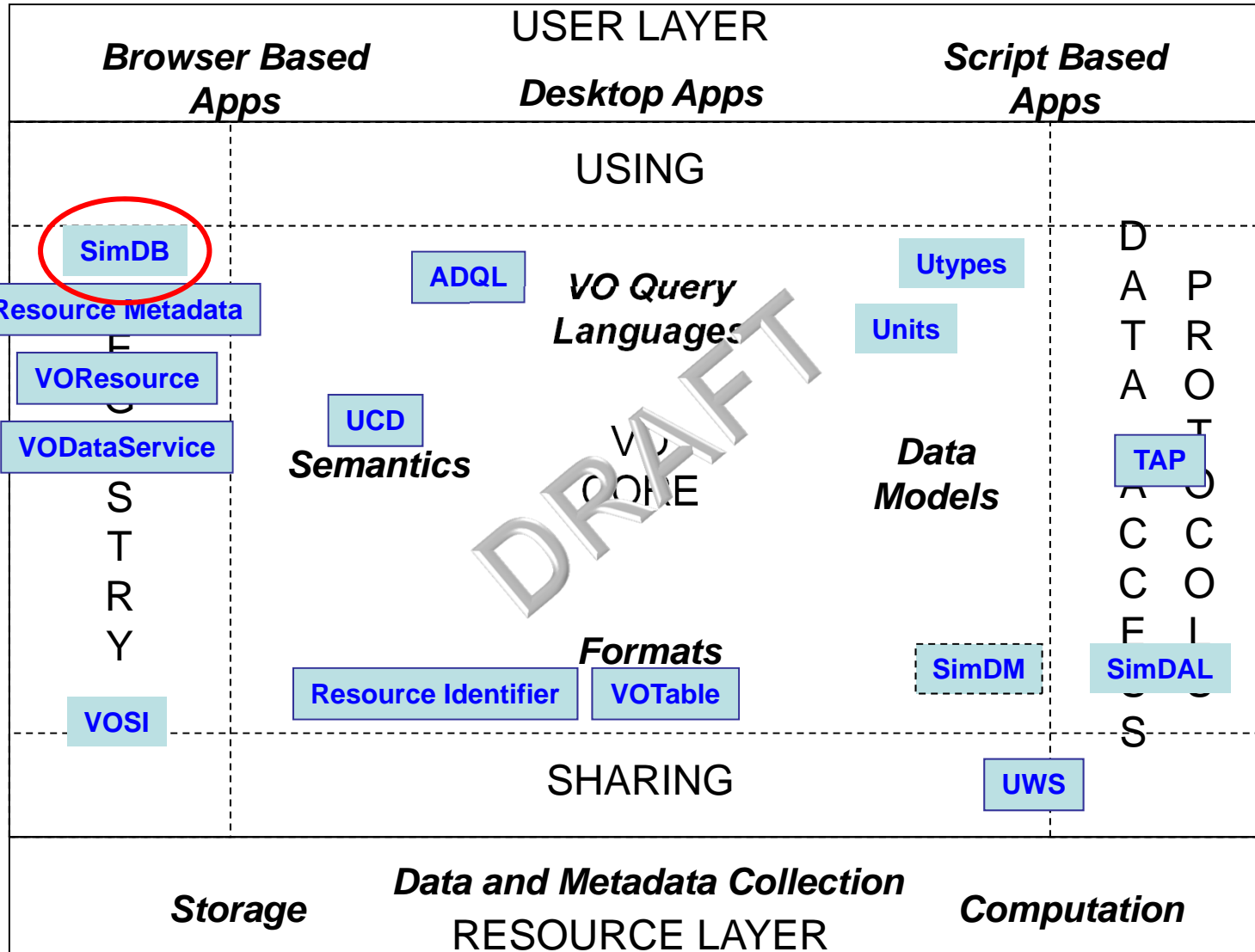
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