

# IVOA Registry WG

## Pune, 28 Sept 2004



# Agenda

- Introduction (B. Hanisch)
- NVO registry activities (B. Hanisch)
- CDS registry activities (S. Derriere)
- AstroGrid registry activities (K. Benson)
- Registry interface to GLU (P. Fernique)
- Registry curation (B. Hanisch)
- Registry curation (A. Richards)
- Registry Interface standard (K. Benson)
- Discussion

# Registry activities since May

- VOResource v0.10
- Standard Registry Interface v0.1
- Support for mirror sites
- Fine-grain/coarse-grain discussion continues
- Function of AccessURL for Web Services (WSDL)
- How to support UCD versions
- RM/schema extensions (e.g., in situ magnetic field measurements)
- Registry and GLU
- Curation

# The role of Resource Registries

- Used to discover and locate *resources*—data and services—that can be used in a VO application
- Resource: **anything that is describable and identifiable.**
  - Besides data and services: organizations, projects, software, ...
  - Presently concerned with simple set of resource types
- Registry: a list of resource descriptions
  - Expressed as structured metadata  
to enable automated processing and searching

# An Overview of Data Discovery

- You can search the main VO registries to find resources based on descriptive criteria
- NVO Registries are “coarse-grained”
  - You can find organizations, archives, catalogs
  - Won’t find images, celestial objects, table records
- AstroGrid Registries are “fine-grained”
  - Table columns, individual images and associated metadata
- Registry framework contains multiple registries:
  - *searchable* registries
  - *publishing* registries

# Registry Framework



Full  
Searchable  
Registry

VO  
Projects

Local  
Publishing  
Registry



Full  
Searchable  
Registry

Data  
Centers

Local  
Publishing  
Registry

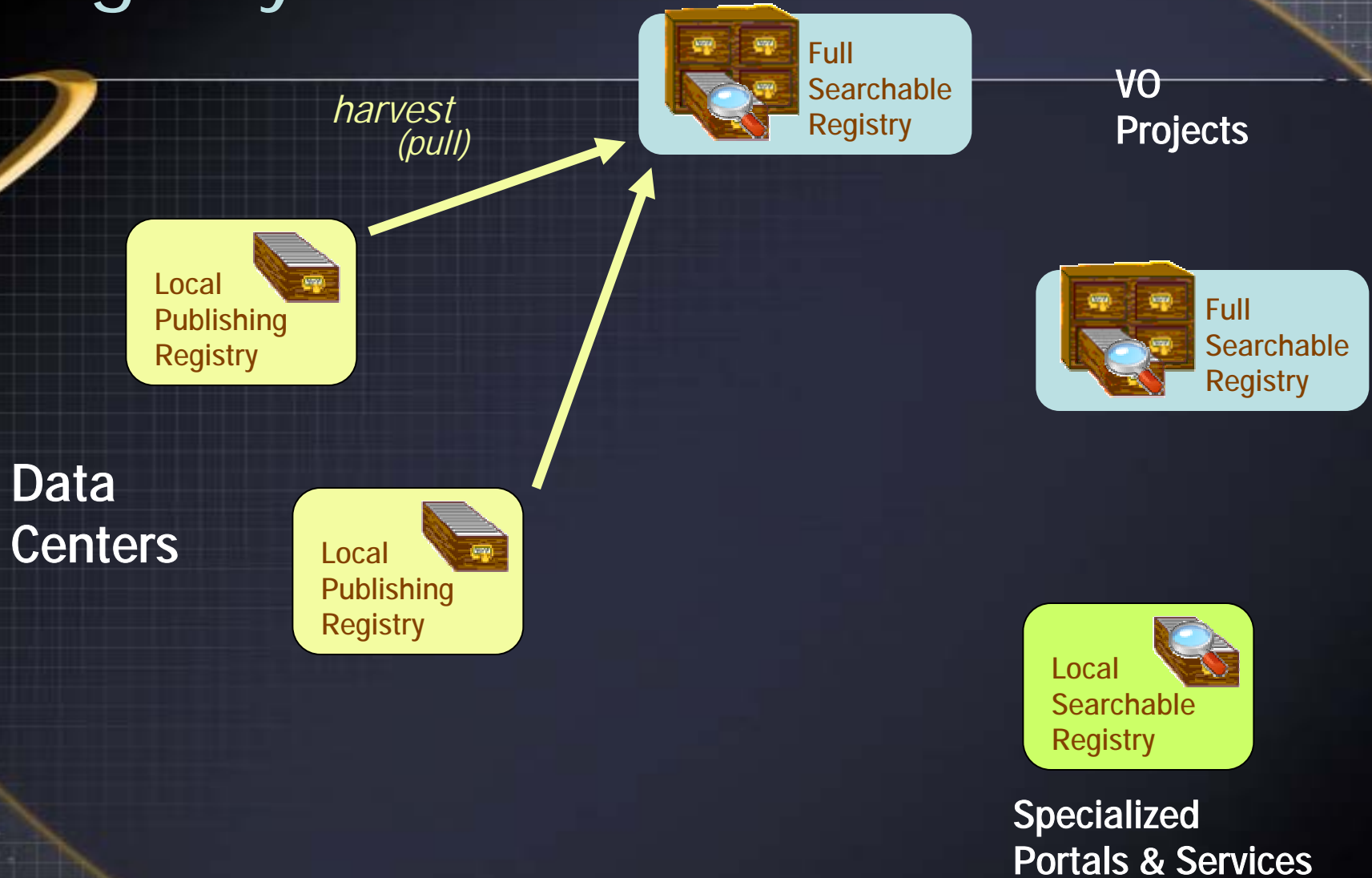


Local  
Searchable  
Registry

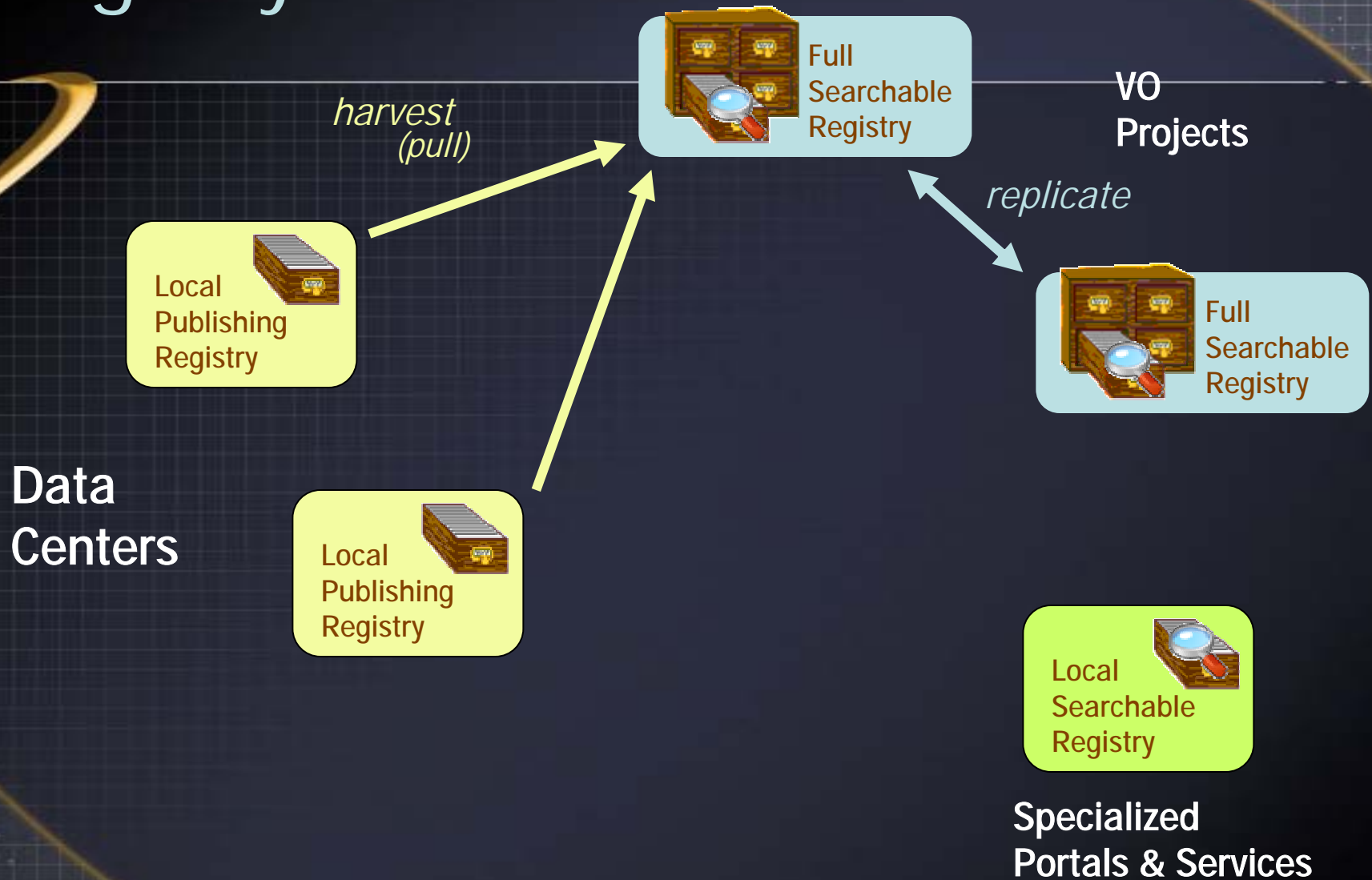


Specialized  
Portals & Services

# Registry Framework

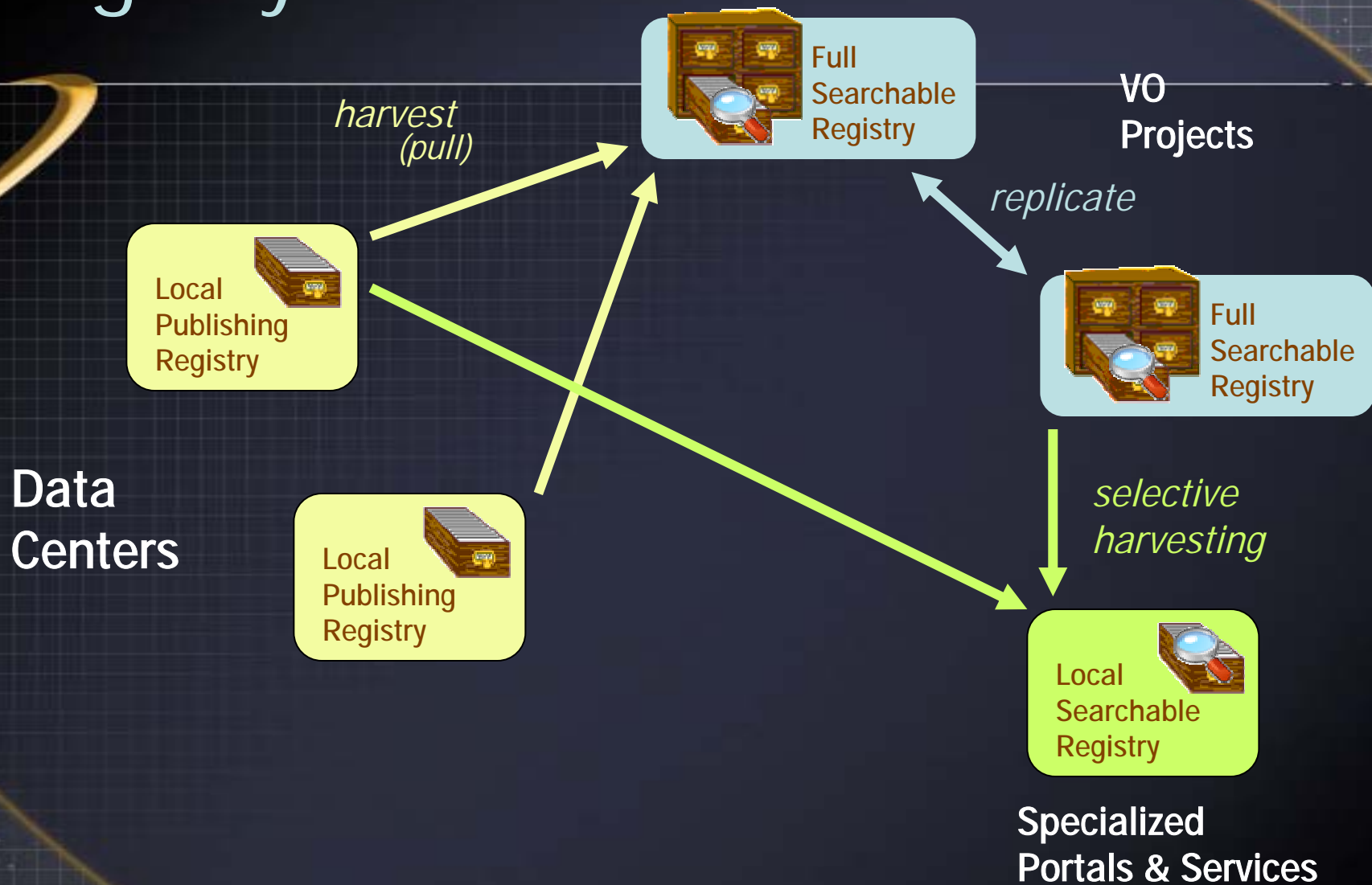


# Registry Framework

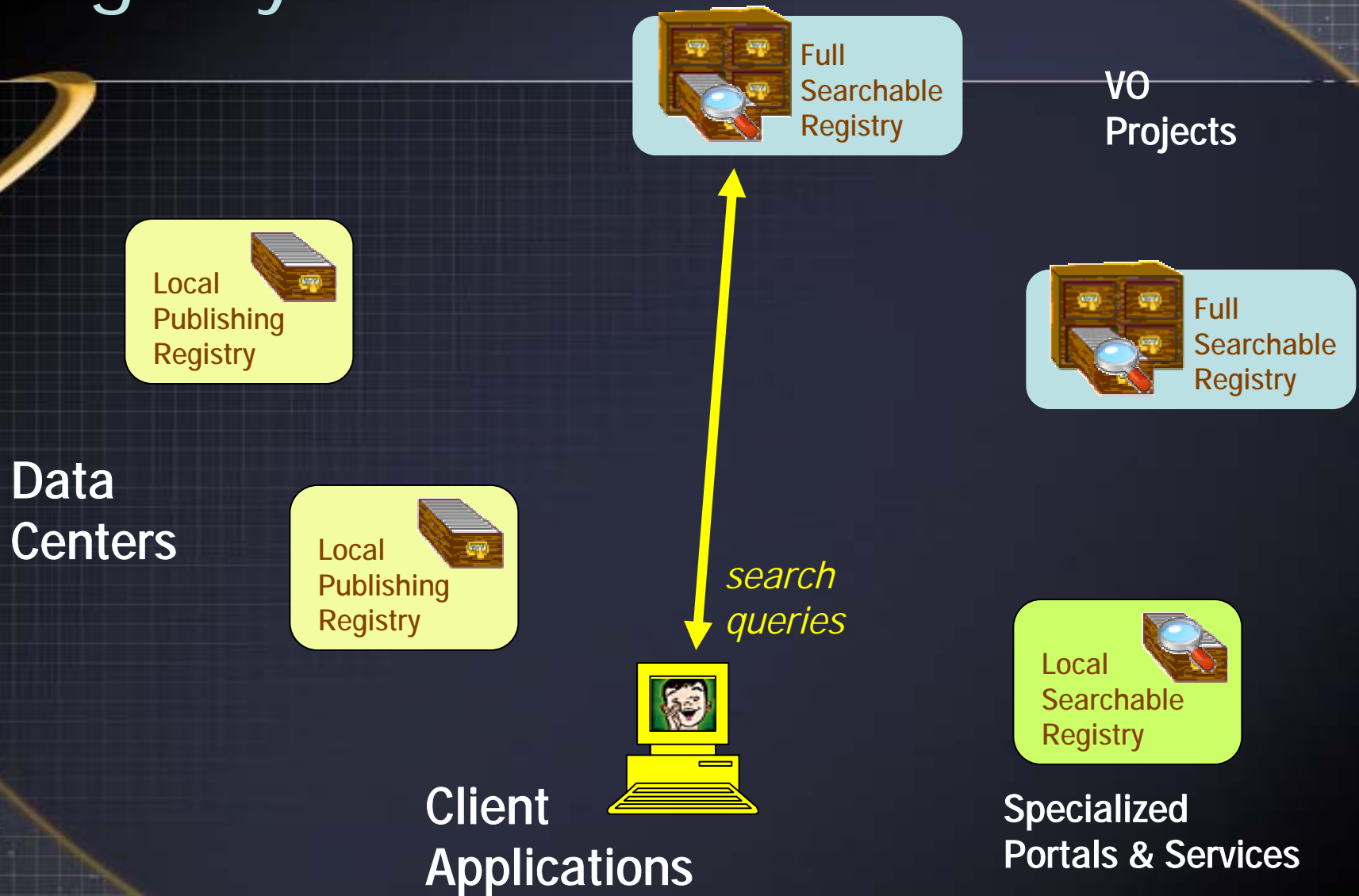




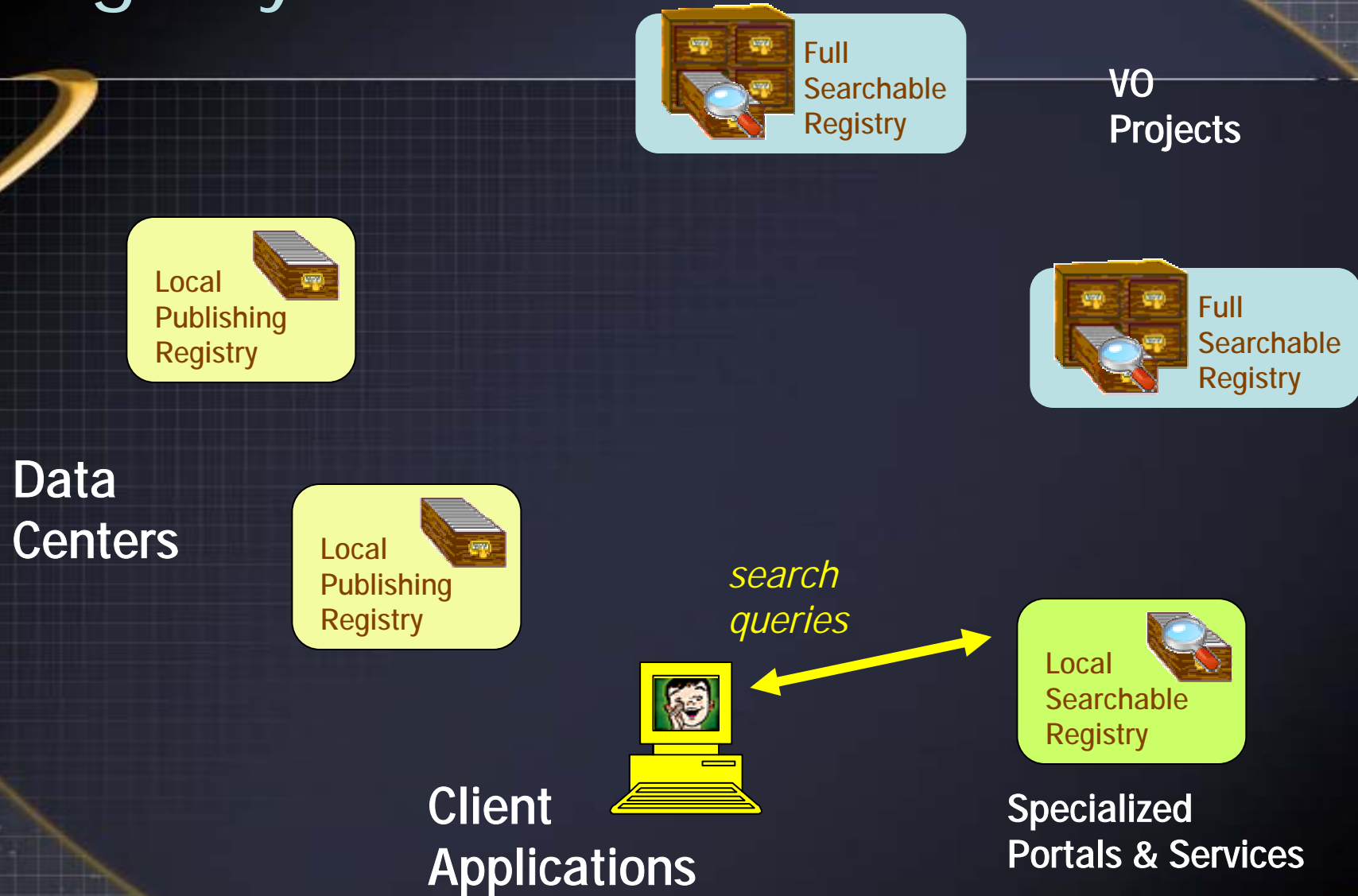
# Registry Framework



# Registry Framework



# Registry Framework



# NVO Public Registries

Registry	URL	Searchable?	Publishing?
STScI/JHU NVO Registry	<a href="http://nvo.stsci.edu/voregistry/">http://nvo.stsci.edu/voregistry/</a>	Yes	Yes
Caltech Carnivore	<a href="http://mercury.cacr.caltech.edu:8080/carnivore/">http://mercury.cacr.caltech.edu:8080/carnivore/</a>	Yes	Yes
NCSA Registration Portal	<a href="http://nvo.ncsa.uiuc.edu/nvoregistration.html">http://nvo.ncsa.uiuc.edu/nvoregistration.html</a>	No	Yes

## Private Publishing Registries

- HEASARC
- (CDS)

Only support harvesting protocol

# Persistent Archives: Tools for Federation

- Registering your resources with a VO publishing registry
  - Enter description into registration form at one of the available NVO registries:
    - STSci/JHU Registry: <http://nvo.stsci.edu/voregistry/>
    - NCSA Registration Portal: <http://nvo.ncsa.uiuc.edu/nvoregistration.html>
    - Caltech Carnivore: <http://mercury.cacr.caltech.edu:8080/carnivore/>
  - If you have a large number of resources to register, you can run your own registry on your own site
    - NCSA VORegistry-in-a-Box <http://nvo.ncsa.uiuc.edu/VO/software/>
    - Caltech Carnivore: <http://mercury.cacr.caltech.edu:8080/carnivore/>

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