

**California Spatial Information
Library
CaSIL
Quinn Hart**

What is CaSIL

CaSIL is a Library of Spatial data products of importance to the State of California, providing a simple interface to the largest audience.

- Library
 - Catalog (CEIC)
 - Web-based Catalog following FGDC standards
 - Datasets
- Big On-line GIS filesystem
 - Simple file-based access to all data products
- A Low Tech solution
 - CaSIL provides a robust, standard library of information that users can either for their own purposes or as a base for other GIS services.

Popular Data

Dataset	Size [GB]	Count
Photo Quads (DOQQs)	800	15 K
0.3[m] CIR	325	3.6 K
Raster Maps (DRGs)	160	9.5 K
Mr Sid DOQs	100	5.7 K
Landsat	120	1171 (110)
SPOT	30	100s
NHD Hydro	0.4	10s
Vectors	0.1	160
Local Data	0.1	100s
Metadata	2M	50K

Statistics

	casil.ucdavis.edu	gis.ca.gov	rsync
Total	28 TB	7 TB	4 TB
Per Day	30 GB	30 GB	small

Dataset	% bytes	% reqs
Photo Quads (DOQQs)	57	30
0.3[m] CIR	<2	<2
Raster Maps (DRGs)	27	27
Mr. Sid DOQQs	5	4
Landsat	4	2
SPOT	4	2
NHD Hydro	1	6
Local Data	1.5	3

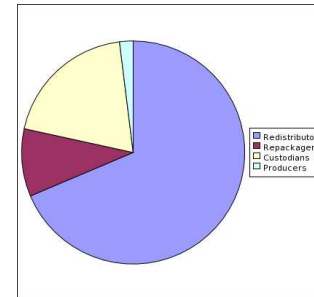
CaSIL Frontends

- Simple / Bulk Downloads
 - <http://casil.ucdavis.edu/casil>
 - <ftp://casil.ucdavis.edu/casil>
 - <rsync://casil.ucdavis.edu>
- Open GIS Viewers
 - Graphic Downloads
 - National Map (TBD)
- ARC IMS Viewers
 - CaSIL interactive Viewer
 - California Digital Conservation Atlas :) :(
- Geography Network
- CalView

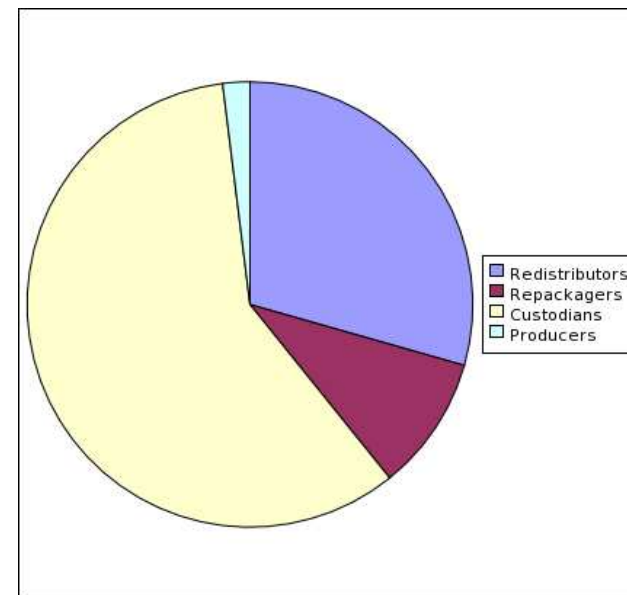
CaSIL Data Management Roles

- Redistributors
 - DOQQs
- Repackagers
 - Landsat
- Custodians
 - DRGs, State, local
- Producers
 - Indices, Teale
 - More Collaboration in future

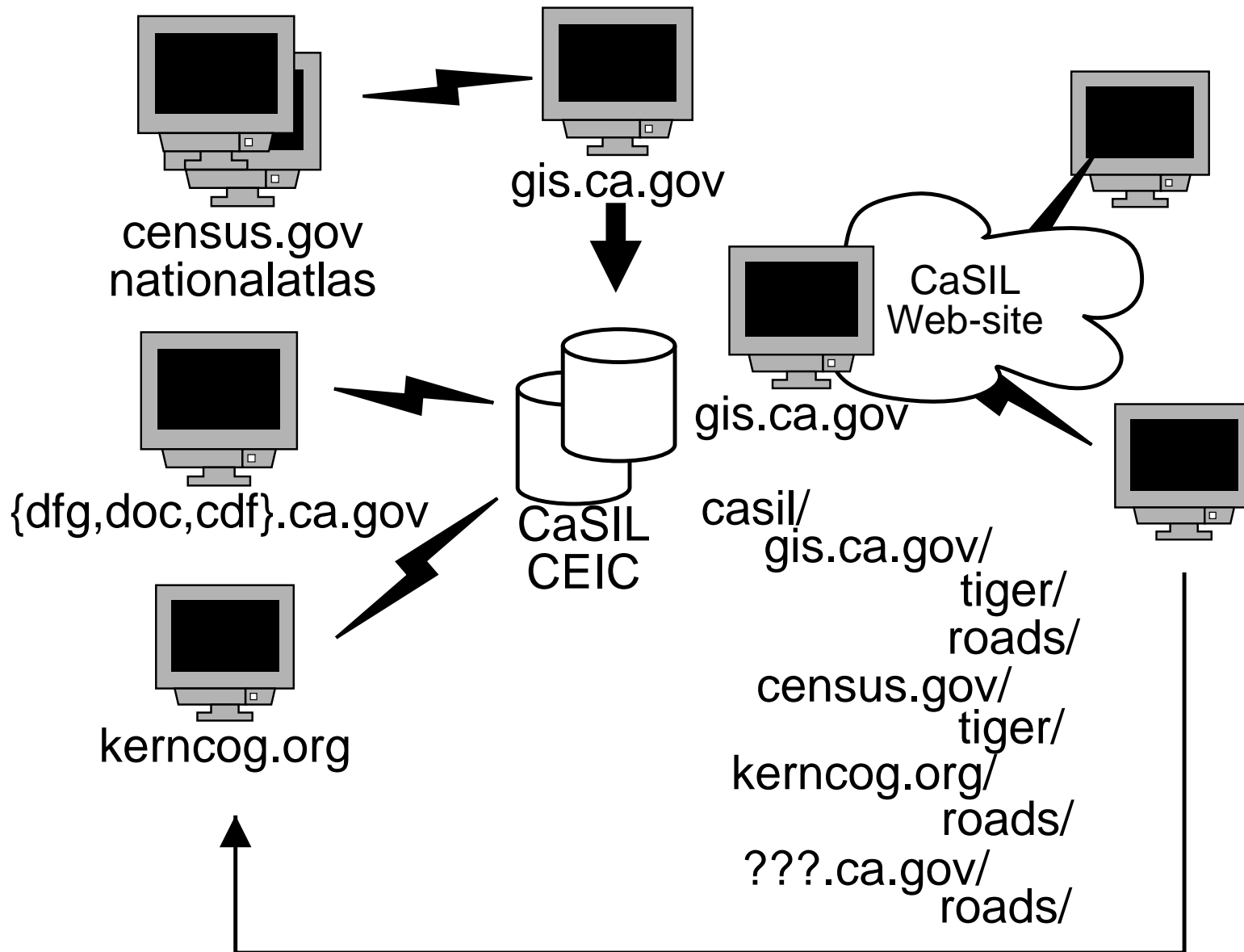
2005 - 1.5 TB



2006 - 6 TB



CaSIL Architecture



CaSIL Users

- Casual User
 - Use Environmental Catalog
 - Use Map Services
 - Browse filesystem
 - Download Individual Packages
- Mirrors
 - Maintain large sections of CaSIL
 - Need to share widely (ftp,http)
 - Data suitcase startup rsync/ftp synchronization
- LAN Administrators (Good Idea?)
 - Maintain large sections of CaSIL
 - Need to share locally (filesystem mounts)
 - Data suitcase startup rsync/ftp synchronization

CA Environmental Info Catalog

- Online directory for reporting and discovery of information resources for California
- FGDC; Clearinghouse Node; Geodata One-stop
- 6000 entries
- Search and Browse Functionality
- Data input - Was 100% on-line interface. Now %100 via import tool of FGDC metadata, e.g. ArcCatalog export
- All CaSIL data in CEIC. **Some** CEIC data in CaSIL.
- Specialized Frontends
 - Watershed Browser
 - *Experimental* GeoFinder
- Statewide Reporting Requirements (Prop 40/50)

CaSIL Plans

- More Data
 - 2005 1m Color (NAIP) \$400K
 - Better Local support
- More / Better Mirrors
- New File Structure
- NAD 83
- Better Casual Navigation
- Better Attribute Support
 - GML, ISO11179
- Expanded OpenGIS Functionality
 - WMS, WFS, GML, etc.
- Version Control

CaSIL Gforge

- Community Consensus / Data Building
- News
- Licensing
- Bug Tracking
- Version Control
- Would Like...
 - Integrated w/ CEIC
 - WFS/WMS support
 - Attribute Library

Use Constraints

- Try to avoid
- Sensitive Material
 - E.G. NDDDB In CaSIL at coarse resolution
- Intellectual Property
 - SPOT Data - Not in CaSIL proper

Data Archiving / Preservation

- Data Archiving
 - Original Plan for CaSIL Distributions
 - Archivists are welcome to synchronize with CaSIL
 - Change in operations less likely
 - 2004 about 1.2 PY on CaSIL / CEIC
- Transition Plan ?

There is no real transition plan. We've talked about this some, CaSIL would become static site for a year or two; encourage agencies to replicate the data.