

COMPASS GIS

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Introduction

- COMPASS
 - Region overview
 - COMPASS overview
 - GIS at COMPASS
 - Project initiatives
- Challenges and needs
- Q/A

Region

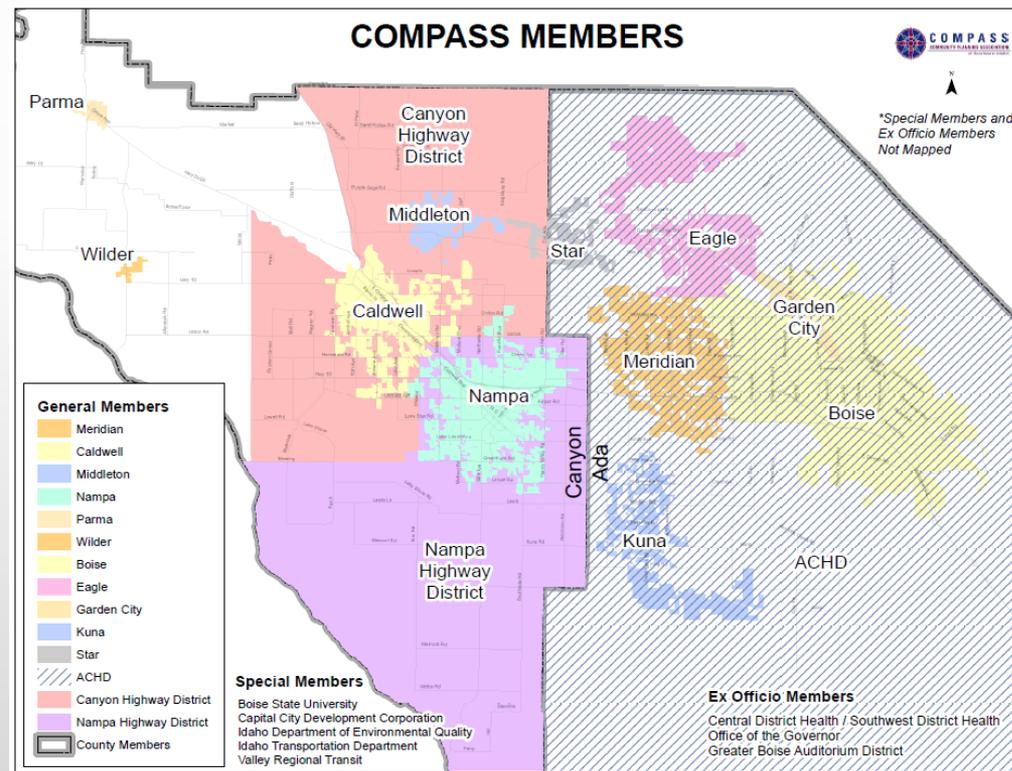
- Ada and Canyon Counties, Idaho



- Population: 646,450 (2015 COMPASS)
- Largest metropolitan area in the state
- One interstate

COMPASS Overview

- MPO for Ada and Canyon Counties - 19 Staff
- 24 Member agencies
 - 16 General members – 11 cities, 2 counties, 3 highway districts
 - 8 others



Major COMPASS Efforts

- Long Range Regional Transportation Plan
- Transportation Improvement Program (TIP)
- Air quality (MOVES)
- Travel Demand Model
- Demographics
- Performance measures
- Bicycle and pedestrian Planning
- Project development Assistance
- Small project grant program
- Traffic counts by type

Major COMPASS Efforts Continued

- Freight analysis
- Crash data analysis
- Development review
- Level of service analysis
- Grant research and writing
- Regional Data Center
- Performance Dashboard
- Education series

GIS at COMPASS

Data management

collecting -storing -translating - updating

Data source for member agencies

Analysis - output

Sharing results

Capacity building

GIS AT COMPASS

- Software:
 - GIS- ESRI ArcGIS desktop, Server Workgroup and Enterprise – extensions – Spatial, 3D, Network, CommunityViz
 - Travel Demand Model – CUBE
 - Economic Tools – TREDIS, CUBE Land, ARC Cost Model
 - Databases - Postgresql, Microsoft SQL Server, MySQL
 - Open source applications

GIS Internal Resources

- Workgroup Server
- Sharepoint
 - Document methodology and data sources
- Layers and templates
 - Simplified map making
- Regional geodatabases

GIS Tasks

- GIS – Tools and tasks
 - Geocoding- building permits, employment
 - Orthophotography
 - Python
 - Linear referencing

GIS Projects

Regional Data Center

The screenshot displays the AWS Management Console interface. The browser address bar shows the URL <https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2#>. The page is titled "Amazon Web Services" and is organized into several columns of service categories:

- Compute:** EC2 (Virtual Servers in the Cloud), Lambda PREVIEW (Run Code in Response to Events).
- Storage & Content Delivery:** S3 (Scalable Storage in the Cloud), Storage Gateway (Integrates On-Premises IT Environments with Cloud Storage), Glacier (Archive Storage in the Cloud), CloudFront (Global Content Delivery Network).
- Database:** RDS (MySQL, Postgres, Oracle, SQL Server, and Amazon Aurora), DynamoDB (Predictable and Scalable NoSQL Data Store), ElastiCache (In-Memory Cache), Redshift (Managed Petabyte-Scale Data Warehouse Service).
- Administration & Security:** Directory Service (Managed Directories in the Cloud), Identity & Access Management (Access Control and Key Management), Trusted Advisor (AWS Cloud Optimization Expert), CloudTrail (User Activity and Change Tracking), Config PREVIEW (Resource Configurations and Inventory), CloudWatch (Resource and Application Monitoring).
- Application Services:** SQS (Message Queue Service), SWF (Workflow Service for Coordinating Application Components), AppStream (Low Latency Application Streaming), Elastic Transcoder (Easy-to-use Scalable Media Transcoding), SES (Email Sending Service), CloudSearch (Managed Search Service).
- Mobile Services:** Cognito (User Identity and App Data Synchronization), Mobile Analytics (Understand App Usage Data at Scale), SNS (Push Notification Service).
- Deployment & Management:** Elastic Beanstalk (AWS Application Container), OpsWorks (DevOps Application Management Service), CloudFormation (Templated AWS Resource Creation), CodeDeploy (Automated Deployments).
- Enterprise Applications:** WorkSpaces (Desktops in the Cloud).

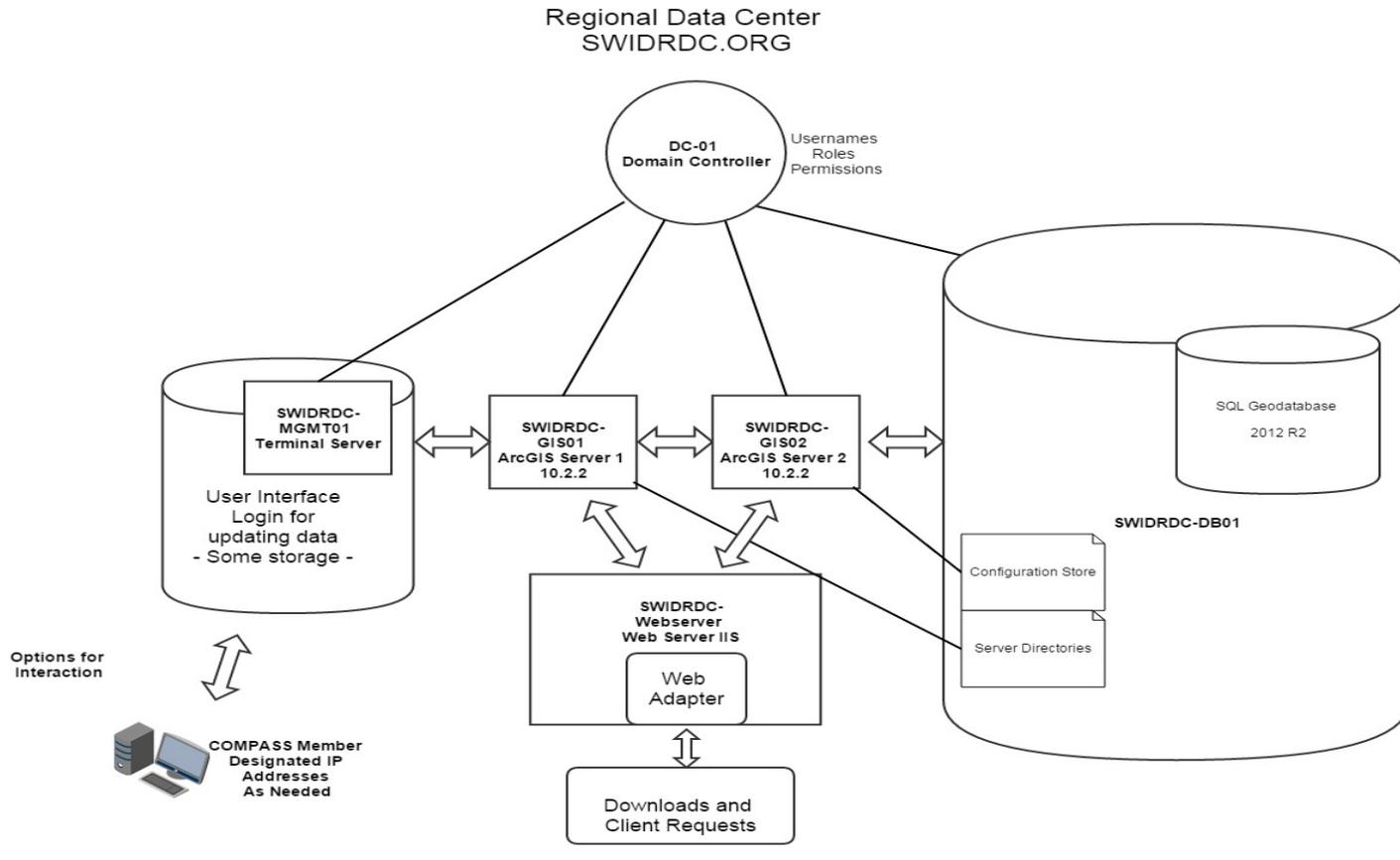
On the right side, the "Additional Resources" section includes:

- Getting Started:** See our documentation to get started and learn more about how to use our services.
- AWS Console Mobile App:** View your resources on the go with our AWS Console mobile app, available from Amazon Appstore, Google Play, or iTunes.
- AWS Marketplace:** Find and buy software, launch with 1-Click and pay by the hour.
- Service Health:** All services operating normally. Updated: Dec 11 2014 13:05:00 GMT-0700. [Service Health Dashboard](#)

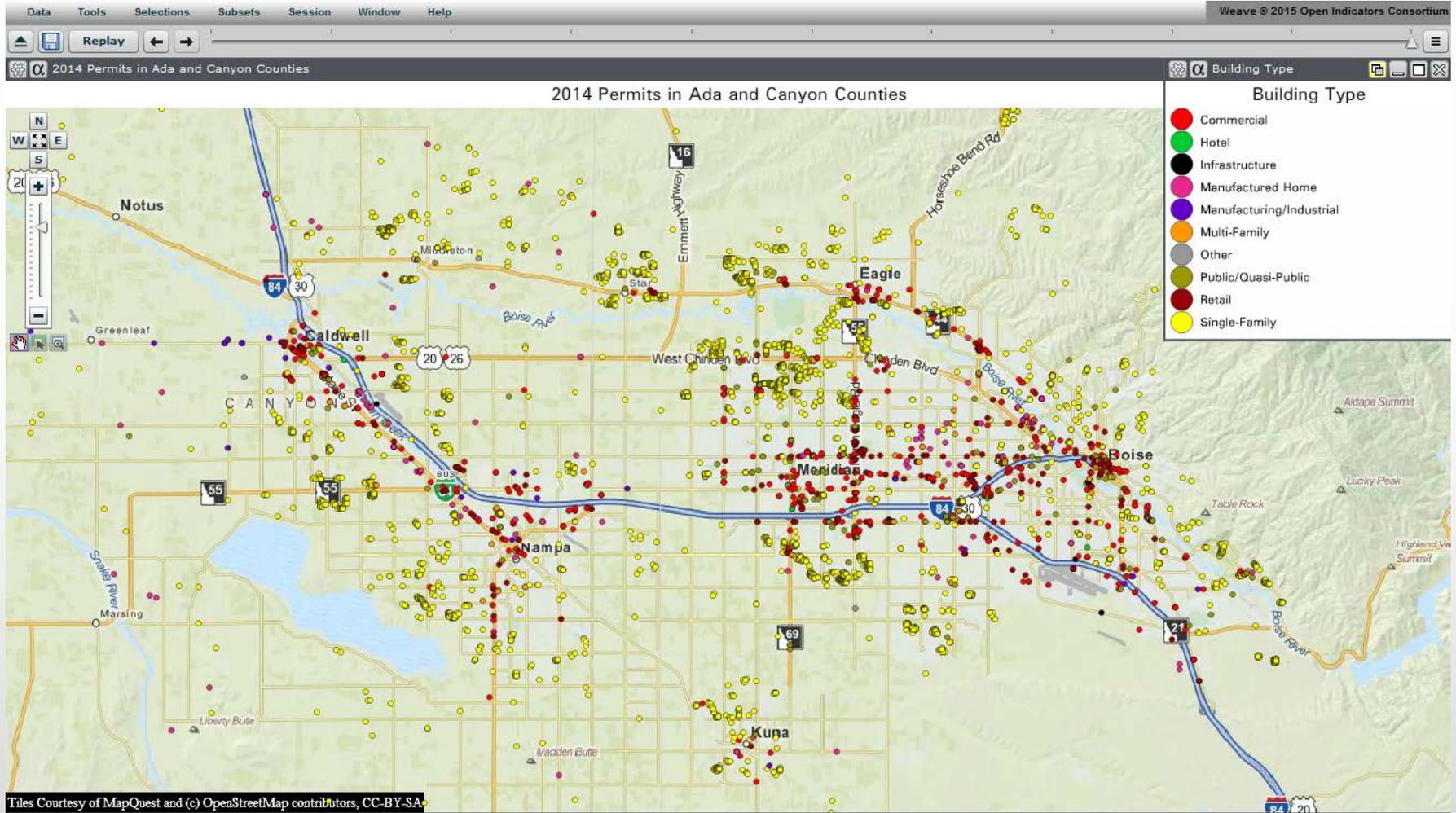
<https://console.aws.amazon.com/sqs/home?region=us-west-2>

GIS Projects

Regional Data Center



GIS Projects Dashboard



GIS Projects

TIP

Transportation Improvement Program

FILE HOME CREATE EXTERNAL DATA DATABASE TOOLS Acrobat

Eric Adolfsen

MasterEntryForm

Filter Criteria: TIPYr: Requesting Agency:

Records Available: **235** Key Number: Project Name:

Key Number: **Database Project Key:**

Current TIP Year (FYYYYY): Status:

Project Name:

Project Description:

Grouped Inflated

Previous Expenditures: (in thousands) Original Amount Requested: (in thousands)

Project Type: Original TIP Year:

Coordination Type: Obligation Status:

Requesting Agency:

Funding Allocation:

1 - 100 % Road
2 - 100 % Alternative
3 - 100 % Air Quality
4 - 75 % Road 25 % Alternative
5 - 50 % Road 50 % Air Quality
6 - Other - Not Classified

Project Geography:

If project is located across multiple geographies and not included in the list add "; " between each geography.
List in alphabetical order with city first, highway district second, and unincorporated area third.

Main **Key:** **Number of Funding Sources for this Project:**

Funding Source:

TIP Year for Financial Table:

Construction Year (YYYY):

Total Cost (this source): (in thousands)

Local Match Percentage: Enter as decimal (e.g. 0.07 for 7%; 0.65 for 65%)

Project Record Selector:

Refresh Form Data:

Main

Funding Source Record Selector:

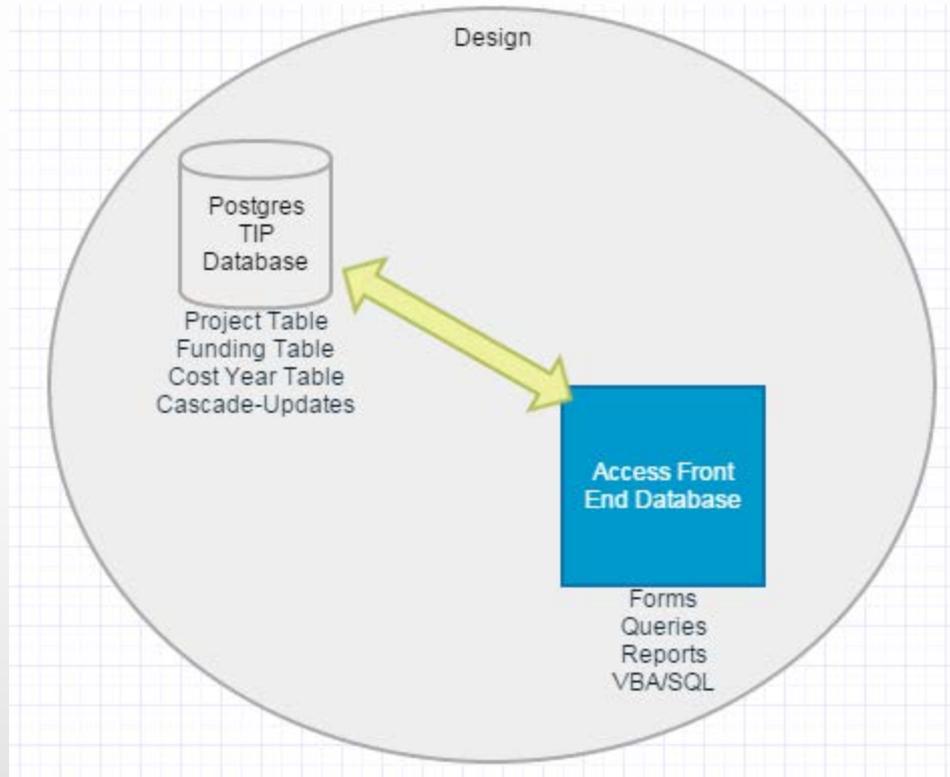
Navigation Pane

Form View

NUM LOCK

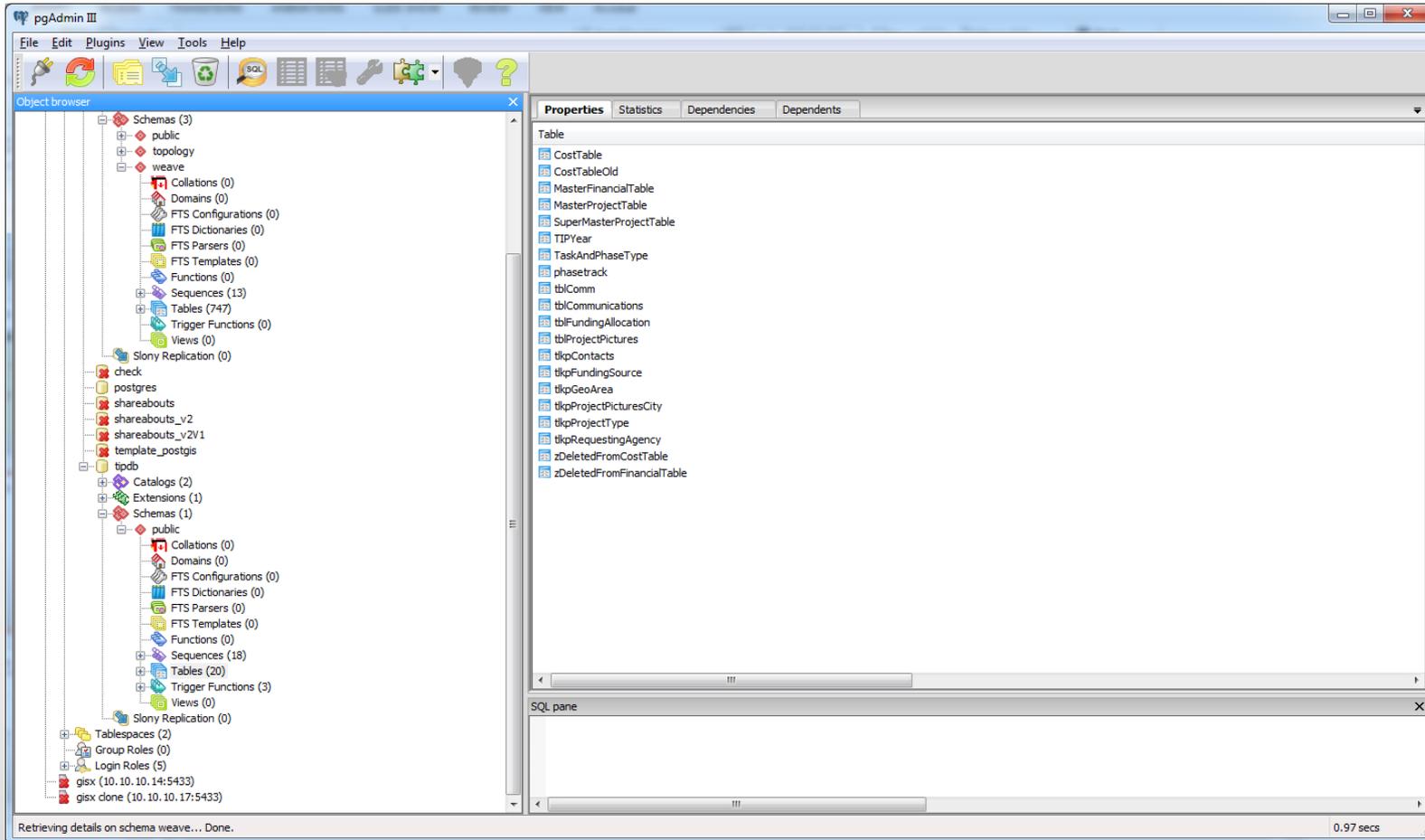
GIS Projects

TIP



GIS Projects

Postgresql Database



Challenges

- Funding
- Time searching for best practices
- Staff is 19 total
- Many demands, little time
- Committees

Challenges

- Funding
- Time searching for best practices
- Staff is 19 total
- Many demands, little time
- Committees

- Unexpected projects



Opportunities

- Funding – grant research
- Best practices
- Staff is 19 total
- Many demands, little time
- Committees
 - Outreach to member agencies

Needs

- Best practices
- Solutions and shortcuts

