Managing Knowledge

NOAA Needs Assessment Report for the PWSU-CIWG

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Why use a CMS?

Current set-up (below) and potential opportunities (right)

Public Water Supply Utilities Climate Impacts Working Group

The "Public Water Supply Utilities Climate Impacts Working Group" (PWSU-CIWG) is a collaborative effort focused on increasing the relevance of climate change and variability data and tools to the planning and operations of Florida's public water supply utilities. The partners are interested in how climate variability/change and sea level rise may impact planning and operations of Florida's public water supply utilities. The collaborative working group promotes shared knowledge, data, models and decision-making tools among public water suppliers, water resource managers, climate scientists and hydrologic scientists.

Partners

Gainesville Regional Utilities
Miami-Dade Water and Sewer Department
Orlando Utilities Commission
Palm Beach County Water Utilities
Peace River Manasota Regional Water Supply Authority
Tampa Bay Water
Saint Johns River WMD
South Florida WMD
Southwest Florida WMD
University of Florida Water Institute
Florida Climate Institute
Florida State University, COAPS
South East Climate Consortium
UF/IFAS Center for Public Issues Education

Projects

"Collaborative Development of Public Water Supply Utility Relevant Climate Information for Improved Operations and Planning." *Funded by NOAA CSI-Water*

- Executive Advisory Committee Meeting Notes, November 2011

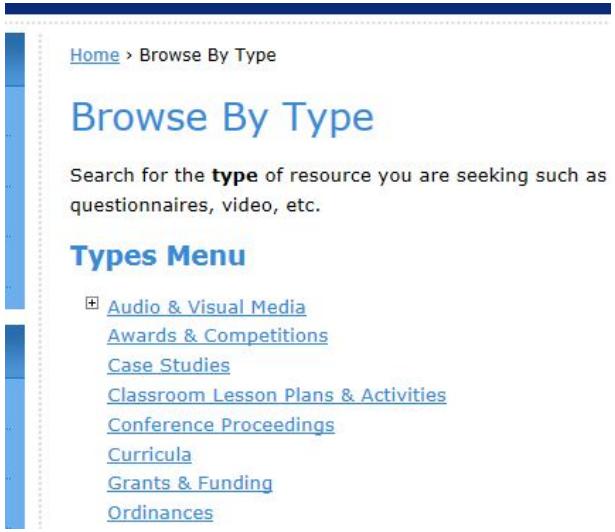
Working Group Documents

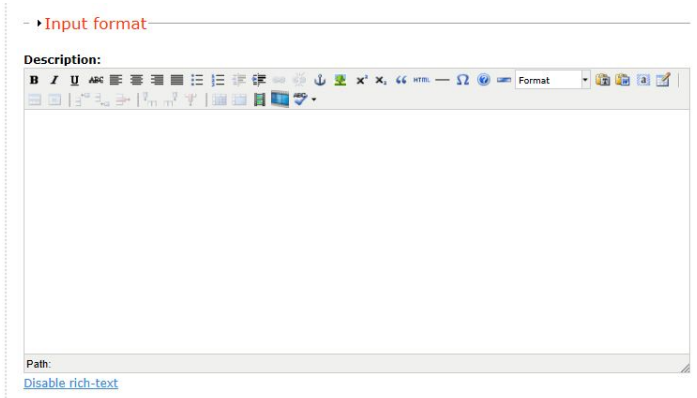
- Synthesis of Preliminary Stakeholder Phone Meetings, September, 2010
  Wendy Graham and Lisette Staal, UF Water Institute (Report)
- A Review of Regional and Global Water Utilities Use of Climate Information
  Victoria Keener, PhD. University of Florida, Southeast Climate Consortium (Handout Workshop 1)
- Bibliography of resources related to Climate and Water Utilities
  Victoria Keener, PhD, University of Florida, Southeast Climate Consortium (Handout Workshop 1)
- Working Group Monitoring and Feedback – Research Summary of Report 1
  Wendylin Bartels, PhD, University of Florida, Florida Climate Institute (Handout Workshop 2)

Example CMS

WatershedED™
Tools for the Florida Stormwater Education Community
FAQ e-Newsletter Contact Log In
Search GO Advanced Search
ABOUT HOW TO USE BROWSE BY TOPIC BROWSE BY TYPE BROWSE BY AUDIENCE CALENDAR COMMUNITY FORUMS
Featured Story
EPA Nutrient Pollution Website
Featuring specific examples and explanations of how to decrease excess nutrients in the environment at home, school, and community.
[Read More]
Pause
EPA United States Environmental Protection Agency
Nutrient Pollution
Tallahassee
Jacksonville
FLORIDA
Orlando
Clearwater
Tampa
St Petersburg
Cape Coral
Fort Lauderdale
Pembroke Pines
Miami
Supersite Toolbox
Search by Topic
Search by Type
Search by Audience
Search by Keyword
Advanced Search
Submit Content
1 Register 2 Upload 3 Review 4 Publish
To add content, users must register and might first read How to Register. Registered users can:
• Add Content
• Join the Community
• Network with Colleagues
Tips for Using the Supersite
Find and Share Stormwater Education Materials
Resources on the Supersite are indexed by Topic, Type, and Audience so you can find what you need quickly. Need facts for a homeowner association meeting? Select "Search by Audience" in the Toolbox at right. Have a new brochure for your stormwater management program? Register for the site and share your resources with the Stormwater Education Community.
[Read more]
Log In
Recent Additions
Staff Picks
Highest Rated
Most Viewed
What's Happening
2012 FMSEA Conference
May 17-20, 2012
Save the date for the 2012 Florida Marine Science Educators Association Conference. Featuring Opening Keynote Speaker Pierre-Yves Cousteau, President of Cousteau Divers USA and Closing Keynote Speaker Dr. Ellen Prager, President of Earth2Ocean.
Click here for more information.

Dimensions


Home › Browse By Type
Browse By Type
Search for the type of resource you are seeking such as questionnaires, video, etc.
Types Menu
Audio & Visual Media
Awards & Competitions
Case Studies
Classroom Lesson Plans & Activities
Conference Proceedings
Curricula
Grants & Funding
Ordinances


Input format
Description:
Format
Path:
Disable rich-text

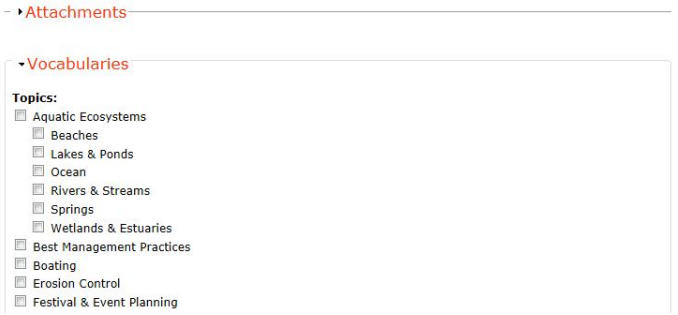
ABOUT
HOW TO USE
BROWSE BY TOPIC
BROWSE BY TYPE
BROWSE BY AUDIENCE
CALENDAR
COMMUNITY FORUMS

Supersite Toolbox
Search by Topic
Search by Type
Search by Audience
Search by Keyword
Advanced Search

Submit Content
1 Register
2 Upload
3 Review
4 Publish
To add content, users must register and might first read How to Register. Registered users can:
Add Content
Join the Community
Network with Colleagues

Tips for Using the Supersite
Log In
Recent Additions
Staff Picks
Highest Rated
Most Viewed

Website Link
URL:


Attachments
Vocabularies
Topics:
Aquatic Ecosystems
Beaches
Lakes & Ponds
Ocean
Rivers & Streams
Springs
Wetlands & Estuaries
Best Management Practices
Boating
Erosion Control
Festival & Event Planning

Behind the Scenes

FLORIDA STORMWATER SUPERSITE

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Field	Details
Title*	Required
Creator/Contributor/Publisher Name*	Required (combines creator/publisher/ DC items)
Organization	Required
Email Contact	Required (Admin use only: blank, for ite without email contact information)
Phone Contact	Required (Admin use only: blank, for ite without email contact information)
Country	Default to U.S. with option to change
State	Default to FL with option to change
Water Management District	Required with drop-down menu (list ne
County	Required with drop-down menu (list ne
Tags	Required with drop-down menu (list ne
Zip	Required
Case Summary	Required (one- or two-sentence summa
Description (with character limit)*	Required (detailed account of resource)
Image (thumbnail)	Optional; upload function provided in C limit of 1mb. Details on limit in FAQs.
File (for PDFs, MSWord, other files)	Optional; upload function provided in C limit of 5mb. Details on limit in FAQs.
Video (FLV)	Optional; upload function provided in C limit of 10mb. Details on limit in FAQs.
Audio (mp3)	Optional; upload function provided in C limit of 10mb. Details on limit in FAQs.
Type* (Category)	Required with drop-down menu (need l align with Resource Categories)
Subject* (Stormwater Topics)	Required with drop-down menu (list ne align with Stormwater Topics)
Social Marketing Tool	Optional with drop-down menu (list nee
Target Audience	Optional with drop-down menu (list needed)
Date (of Project Completion, or publication/release date)*	Required (date format: yyyy/mm/dd)
Front Page item	Required (default=unchecked)
- Start Display Date (yyyy/mm/dd)	Required
- End Display Date (yyyy/mm/dd)	Required
New Resource item	(default=checked)
Publish Date (yyyy/mm/dd)	Required
Expiration Date (yyyy/mm/dd)	Required (default=2110/01/01)

2. COMPONENT DETAILS

Some of the features listed below may be deployed after initial site launch.

2.1. Most Popular

A listing of the most-viewed resources on the Supersite.

2.2. New Resources

A listing of the latest resources posted to the Supersite. These are identified through a checkbox in the Admin section. Not all items added to the website will be featured under New Resources.

The list of New Resources can be set, through the Admin section, to display either chronologically (with most recent first) or in random order.

2.3. Related Resources

A dynamically generated list of resources that have similar tags/topics as the resource currently displayed. This component will display in either the right column or beneath the main body of the page, depending on site design. If there are no related resources for a given resource, the component will not display.

2.4. Footer Requirements

One page footer will be used throughout the site, and the CMS will allow editing and updating of all page footer items. The page footer will include the following:

- Link to Organization contact information
- Link to popup window containing Copyright information. Includes definition of the copyright status and digital rights management of all contributed items.
- Disclaimer (The word "Disclaimer" will link to a database article, which can be updated through CMS). Disclaimer text will alerts the user to the potential variability of data quality. An example of a disclaimer can be found on the Seminole Water Atlas at www.seminole.wateratlas.usf.edu/DataDownload/Disclaimer.aspx

Developer will include a date script that automatically displays the current year.

2.5. Frontpage Manager

This component is available in the CMS for Administrators to manage content to be displayed on the homepage. A checkbox in the Add/Edit Article Component, along with a Start Display and End Display date, controls how article is set for homepage display.

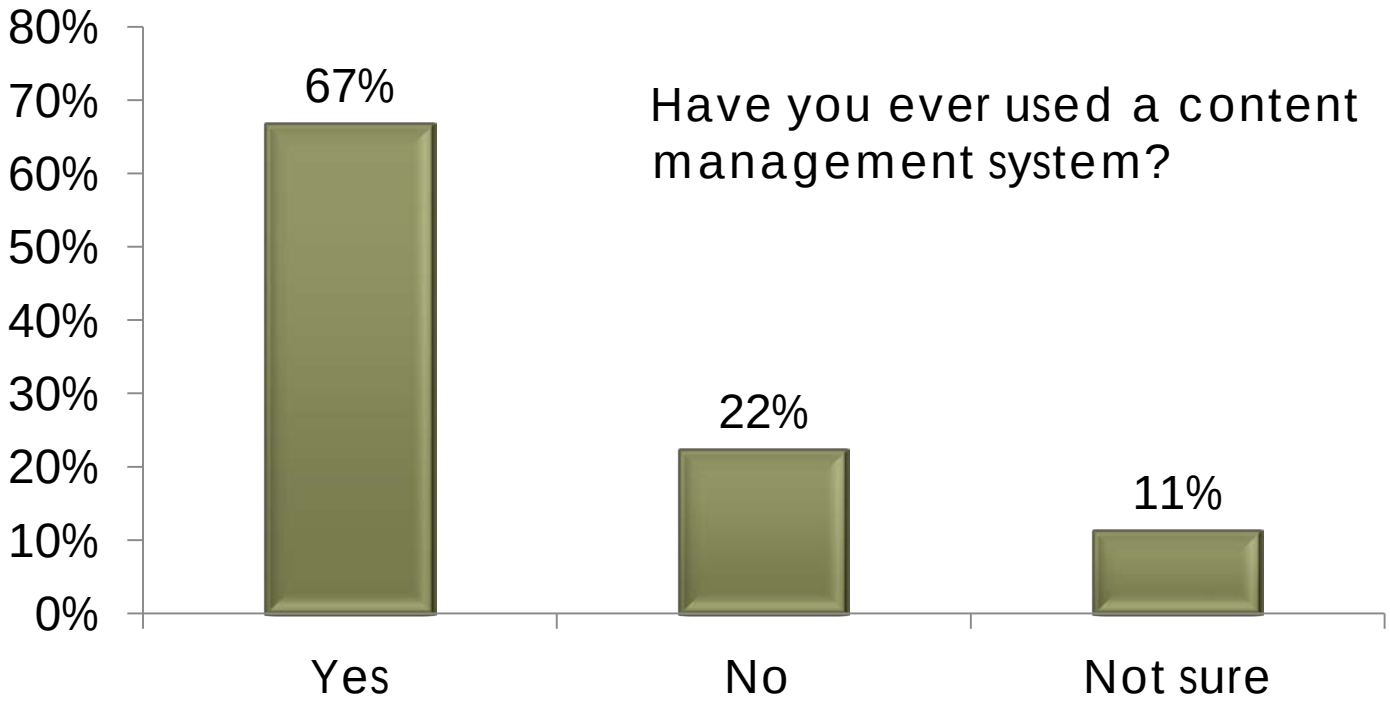
Methodology

- Survey development
  - Pre-test
    - 3 members of the PWSU-CIWG
  - Construction in Qualtrics
- Survey dissemination
  - Link to online survey provided via e-mail
    - ~3weeks to complete
    - 3 e-mail reminders sent
- Responses
  - 16 members of the working group

KMS Goals

- Centralize information
  - Easy access
  - Up-to-date
  - Sharability
- Educate stakeholders

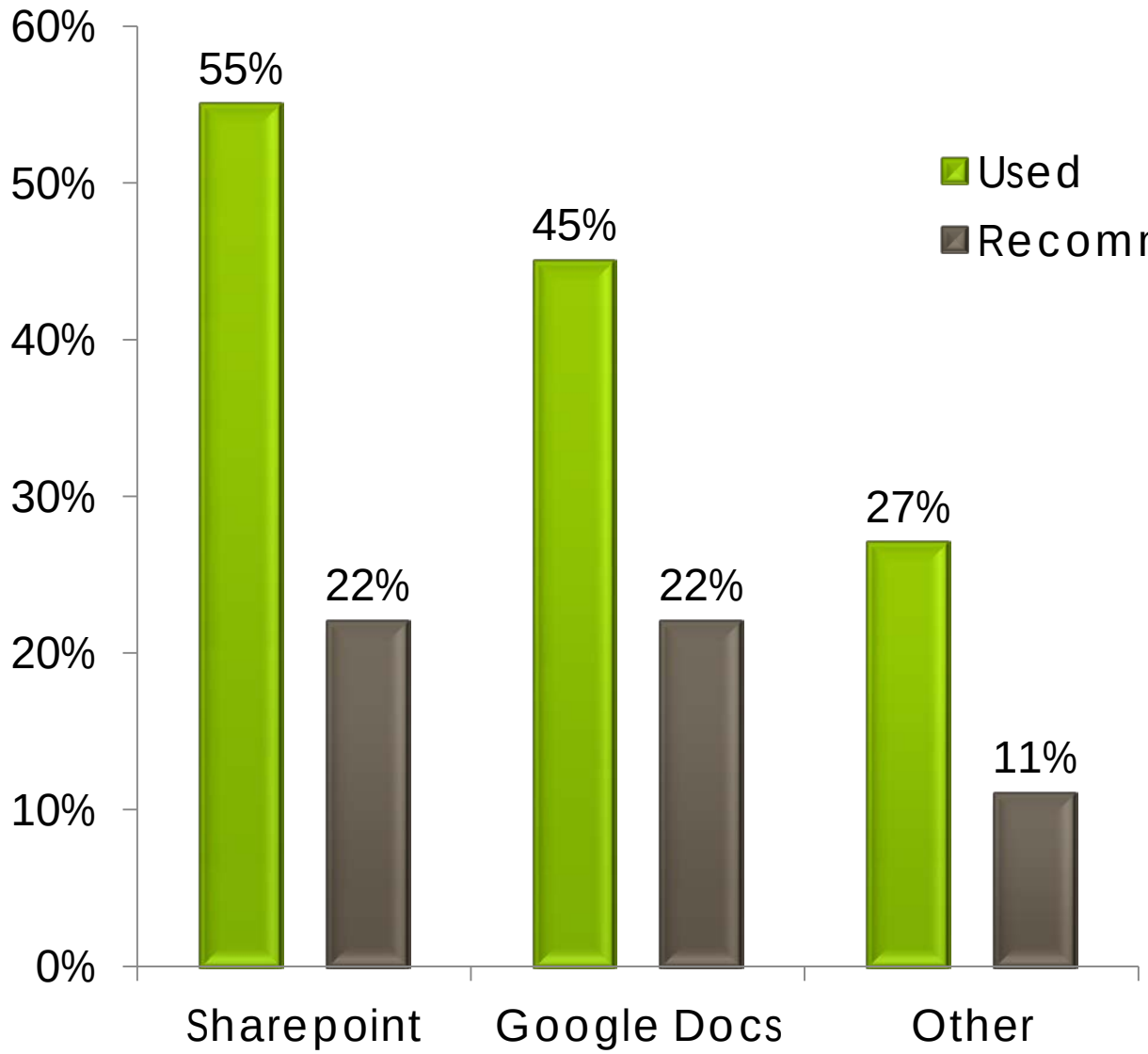
Previous CMS use



Microsoft SharePoint
IBM Enterprise Content Management
Google Docs

Dropbox
Agency-based systems

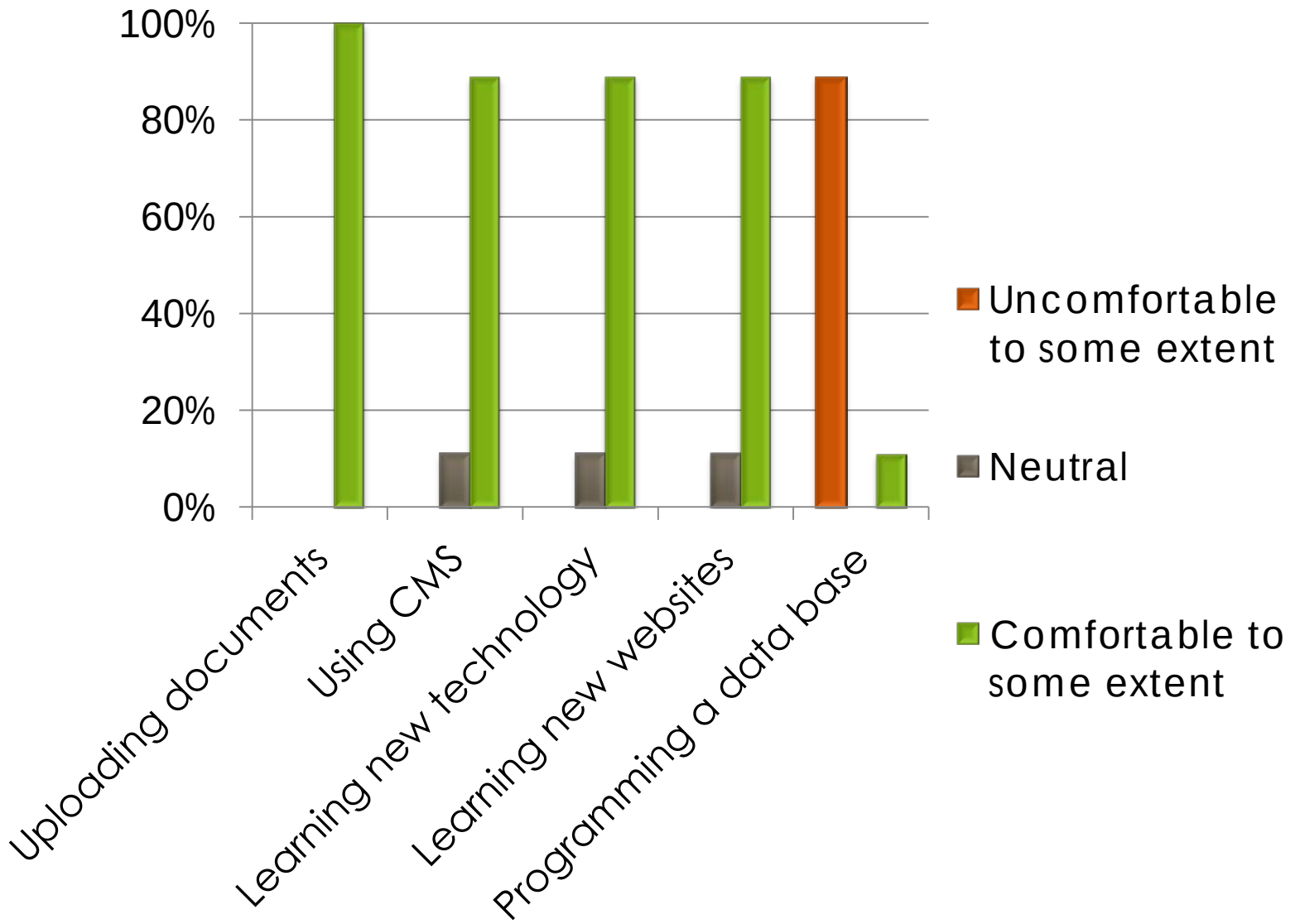
Recommendations



Nobody indicated that they have used:

WordPress
Joomla!
Movable Type
Drupal
Expression Engine
Text Pattern
Plone
Sakai
Basecamp

Comfort Considerations

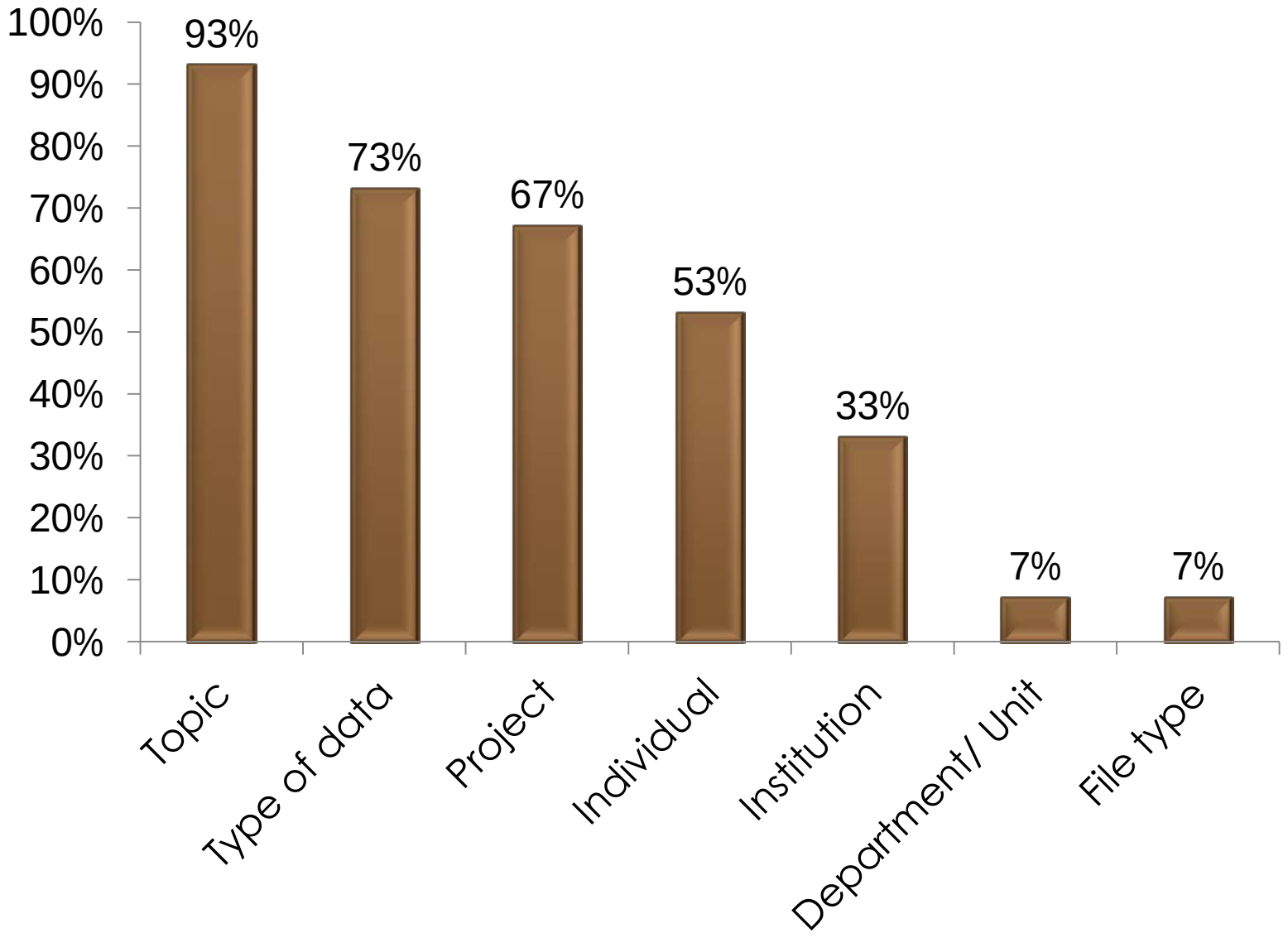


Data types to share

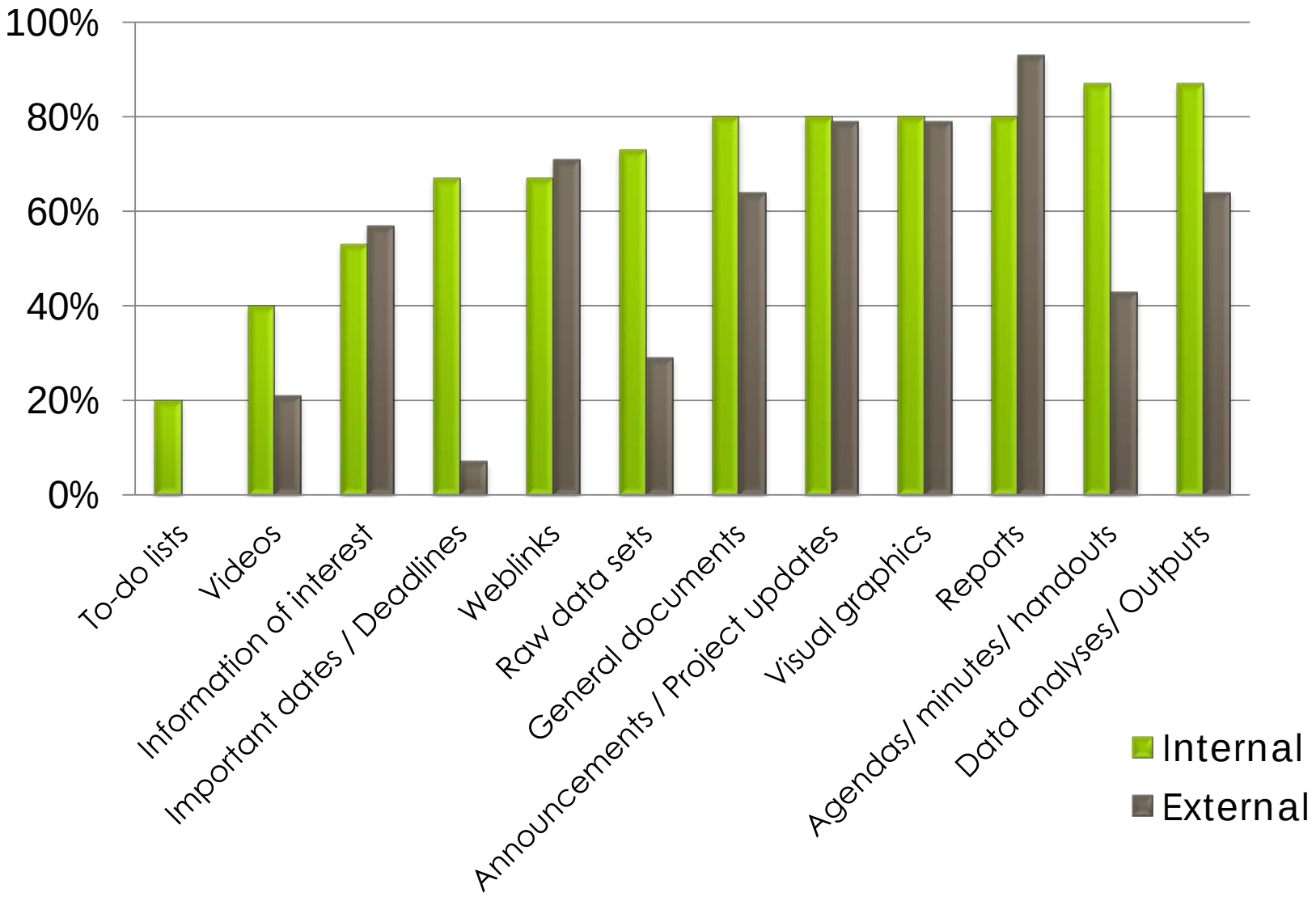
- Word documents
- Excel
- PDF
- GIS
- NetCDF
- MATLAB
- Computer code/ Script
- Text files
- Images

*SAS and SPSS were provided as options and nobody indicated that they intend to share these file type. We suspect that outputs and reports will be the main mode of information transmission for people using these programs.

Data organization



Content communication



Barriers

Barrier	Mean
Inconsistent terminologies across disciplines	3.07
Miscommunication among working group members	2.33
Level of support from respective institutions, departments, or units.	2.13
Varying types of data files used	2.07
Unequal access to or distribution of resources among working group members	1.93
Financial cost associated with collaboration	1.80
Personal time invested	1.80
Differing institutional, department or unit policies	1.73
Security of information	1.73
Distance between working group members	1.53
Trust	1.47
Unequal participation among working group members	1.47
Adoption of new technologies	1.27
Dispersed data storage	1.27

1= Not a barrier at all
2= A slight barrier
3= A moderate barrier
4= An extreme barrier

Recommendations

- Create a sub-committee to oversee development

As we progress towards the development of the knowledge management system with the content management component, we will need to identify strategies for overcoming the barriers that have been identified. We recommend the creation of a sub-committee to oversee development and make decisions regarding organization, common language, etc.

Questions?

Thank you!!!