OPENGSA IDEASCALE USABILITY TEST

Usability Test Report January 15, 2010

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Using Data to Drive Design Decisions



User-Centered Design

 User-centered design involves users in design, testing, and evaluation processes.



Performance-Driven

 Data-driven design produces websites that are measurably easier to use.



Research-Based

 Research-based design elicits an increase in user performance, satisfaction and usability.





Purpose of the OpenGSA Usability Test

The purpose of the OpenGSA Usability Test was to:



Measure users' abilities to perform tasks on the application (performance evaluation)



Obtain users' impressions of the application (preference/satisfaction evaluation)



Identify difficulties involved in using the application



Suggest research-based and data-driven recommendations for improvement





Agenda

1 Overview of the usability test

Participant demographics

3 Performance metrics

4 Findings and recommendations

5 Next steps





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Overview of the OpenGSA Usability Test

What was tested?

GSA's implementation of IdeaScale OpenGSA

When / Where was the test conducted?

January 14, 2010; Washington, DC

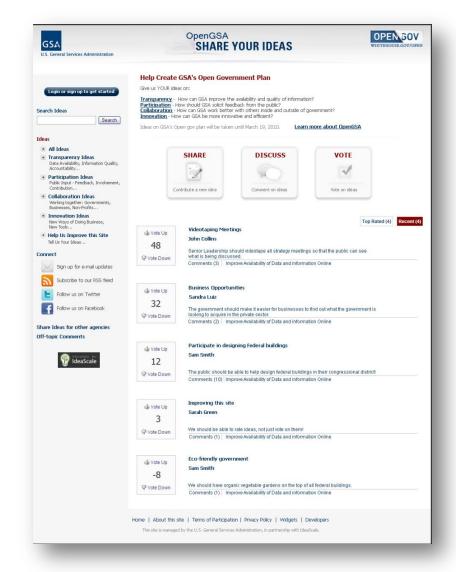
How many users participated?

41 Participants

(19 In-Person, 22 Remote)

How was the test conducted?

Each participant saw scenarios presented using a FirstClick usability testing tool.

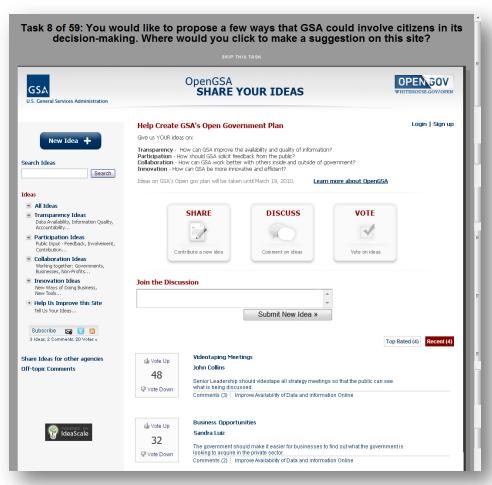






During the usability test, users:









Prototype A: 22 Users
OpenGSA Implementation



Prototype C: 19 Users Traditional IdeaScale Implementation







During the usability test, we measured:

Metric	Description of Metric
Task Completion:	How many participants successfully made the FirstClick?
Time on Task:	How long did it take participants to make their FirstClick?
User Satisfaction:	After using the site, how satisfied were users?
Design Preferences:	Which of the three graphic treatments did users prefer?

^{*} There were no statistical differences between the performance on the two versions, therefore, we combined the data in an aggregate analysis.



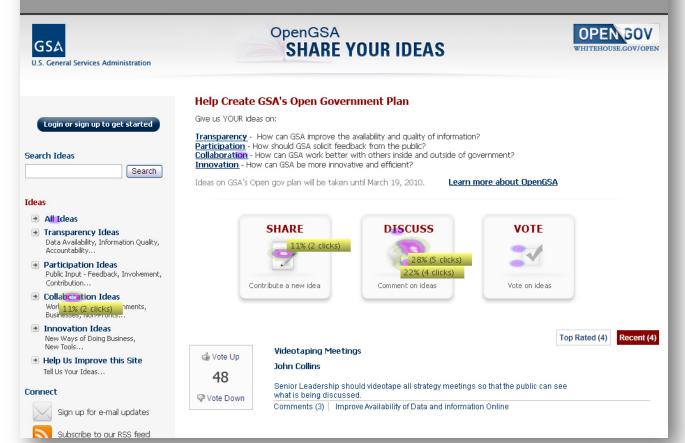


Task 9 of 41: Where would you click to view other people's suggestions a government and business can better work together?

18 CLICKS, 1 SKIP. AVERAGE TIME TAKEN: 22 SECONDS.

<< PREV DONE NEXT >>

CHANGE CLUSTER SIZE + + + +



Research Shows:

If users correctly make the firstclick off the homepage, they have a 90% probability of finding the desired information. If their firstclick is incorrect, the probability that they are successful drops to 50%.



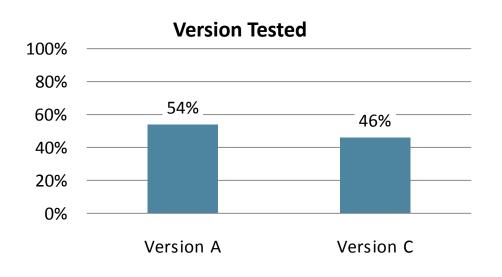


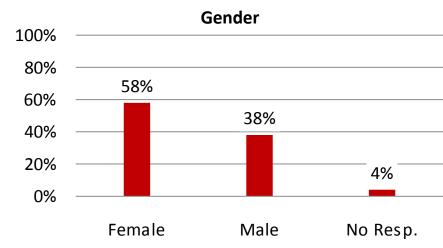
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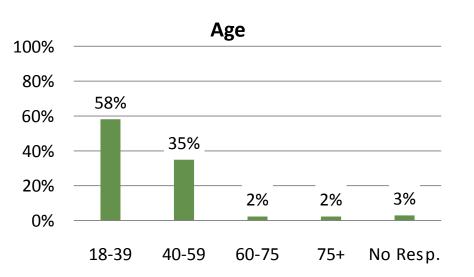


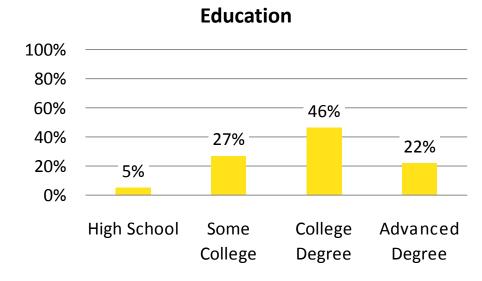


Overall Demographics







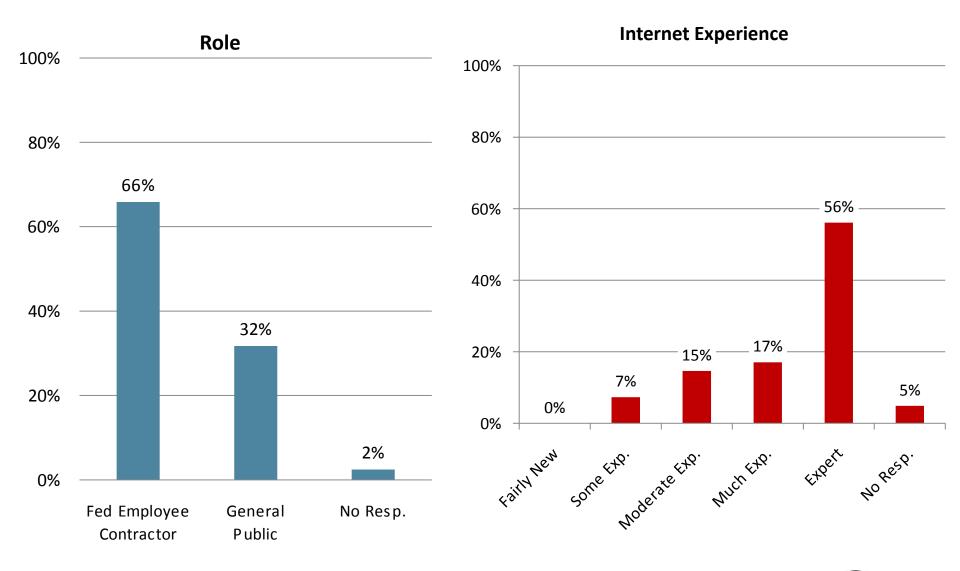






^{*} There were no statistical differences between the performance of the two versions, therefore, we combine the data in an aggregate analysis.

Overall Demographics







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Scenarios: Worst Performing to Best Performing

Casmania	Description
Scenario	Description
Off Topic	Where would you click to view suggestions about GSA that are not directly related to Transparency, Participation, Collaboration & Innovation?
Transparency	Where would you click to view suggestions about how GSA can improve the availability and quality of its information?
Recent	Where would you click to sort the suggestions according to the date they were submitted?
Top Rated	Where would you click to view a list of the most popular suggestions on the site?
Plan	Where would you click to find out more about GSA's Open Government plan?
Innovative	You're interested in viewing suggestions that propose creative and new ways for GSA to be more open to citizens. Where would you click to do this?
Email Updates	How would you subscribe to receive an email when suggestions are added to this site?
Travel Regs.	How would you find a list of all of the comments on this site that are related to GSA's travel regulations?
Final date	Click on the final date that comments will be accepted.
Comment	You saw a comment by Sandra Luiz about business opportunities. How would you add your thoughts about her comment?





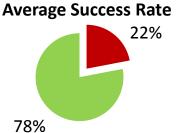
Scenarios: Worst Performing to Best Performing

Scenario	Description
Participation	You are interested in finding all suggestions that are related to ways that citizens can get involved at GSA. Where would you click to do this?
Vote down	You saw a suggestion that government buildings should have an organic vegetable garden on the roof. You disagree with this suggestion. Where would you click to voice your disagreement with this suggestion?
Share Ideas	You would like to propose a few ways that GSA could involve citizens in its decision-making. Where would you click to make a suggestion on this site?
Collaboration	Where would you click to view other people's suggestions about how government and business can better work together?
Manage Site	Who is responsible for managing this Web site?
Sign Up	Where would you click to register on this web site?
Vote Up	You saw a comment that leadership should videotape their meetings. You really agree with this. How would you show your agreement?
Site Improve	You would like to suggest an idea on how to improve this website. Where would you click to do this?
Most Votes	Click on the suggestion that has the most positive votes.
Discuss	You'd like to review others' suggestions and comment on their ideas. Where would you click to do this?





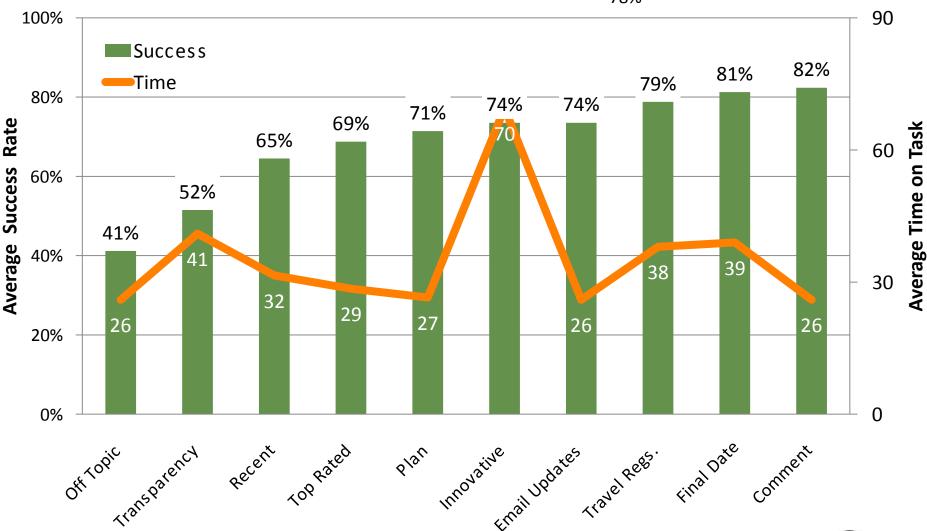
Success vs. Time







COMPUTER

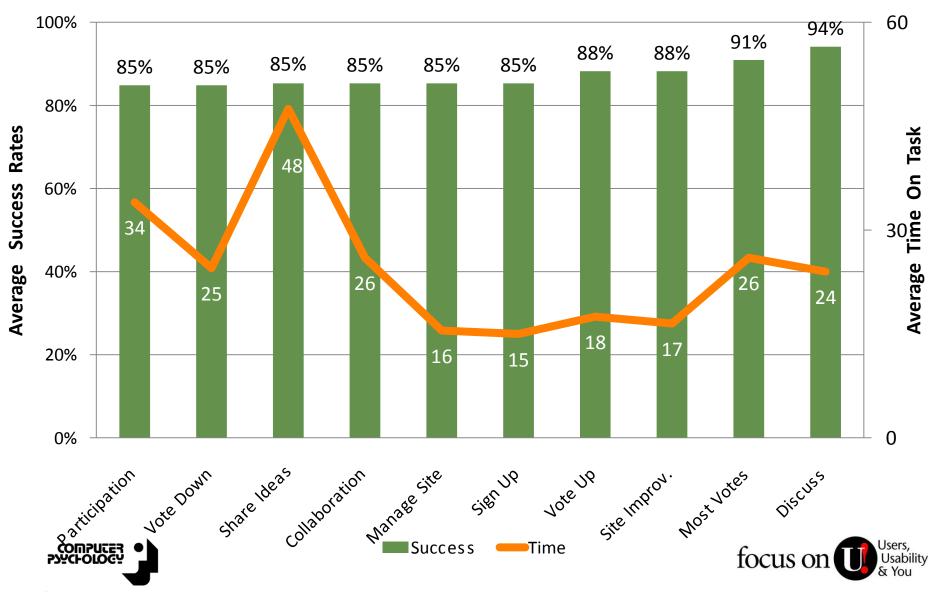


^{* *} There were no statistical differences between the performance of the two versions, therefore, we combine the data in an aggregate analysis. Data is only shown for the unmoderated tasks as time is artificially inflated during the moderated tasks.



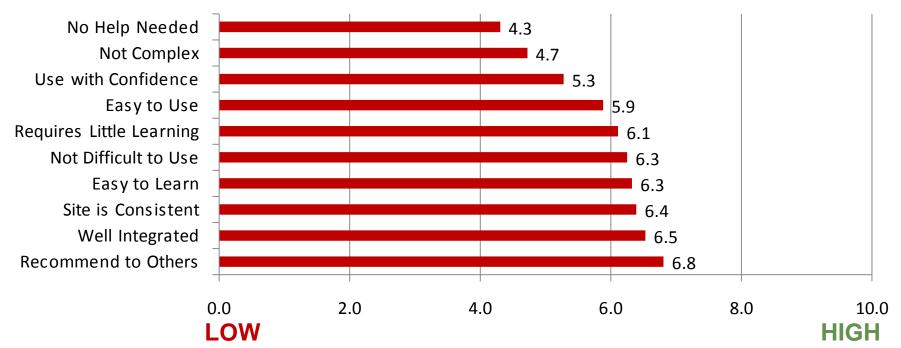
Success vs. Time

Unmoderated Tests, N = 34

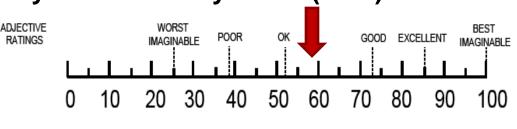


Satisfaction: Prototype A

Satisfaction Score: 59 out of 100



Satisfaction was measured using the System Usability Scale (SUS)



SUS Score

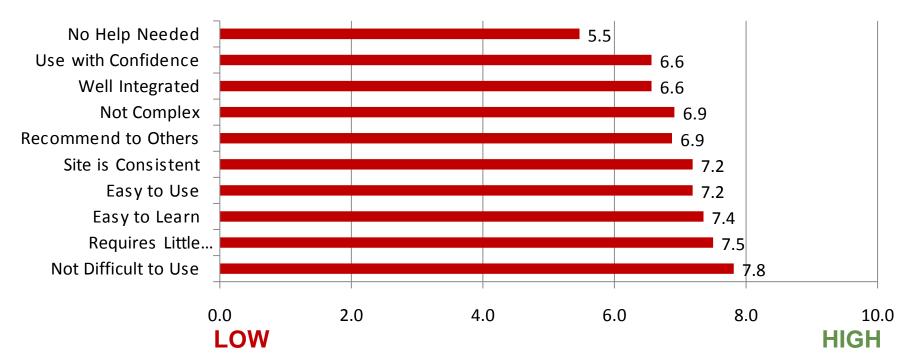
Predicted ACSI Score: 61



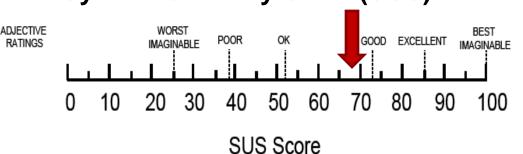


Satisfaction: Prototype C

Satisfaction Score: 69 out of 100



Satisfaction was measured using the System Usability Scale (SUS)



Predicted ACSI Score: 66





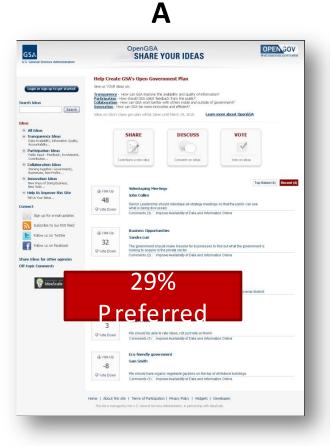
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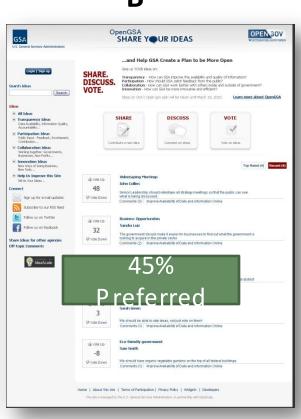


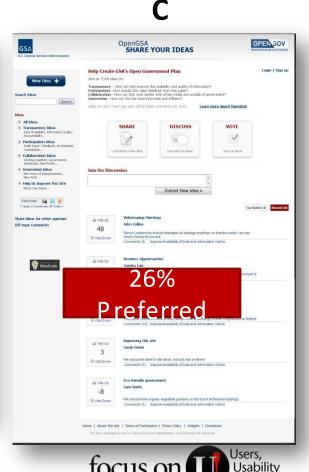


Design Preferences

At the end of the session, users were asked to review three user interface designs and select the one that they liked the best.



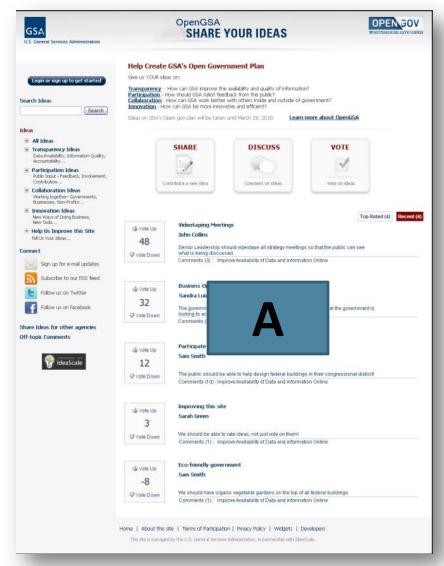








- Many users liked the "clean" layout and thought this page was very "clear".
- Users liked the big buttons for the social media tools.

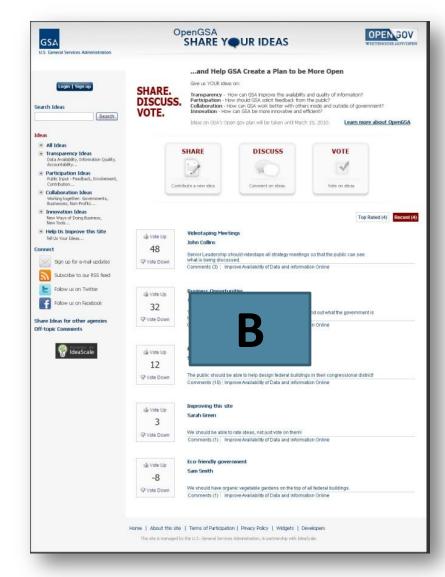








- Overwhelmingly, users liked the call to action – the red heading that reads: Share. Discuss.
 Vote.
- A few users liked the comment bubble in the logo/heading. One user mentioned she did not like the bubble.
- Many users liked the "clean" layout and thought this page was very "clear".
- Users liked the big buttons for the social media tools.

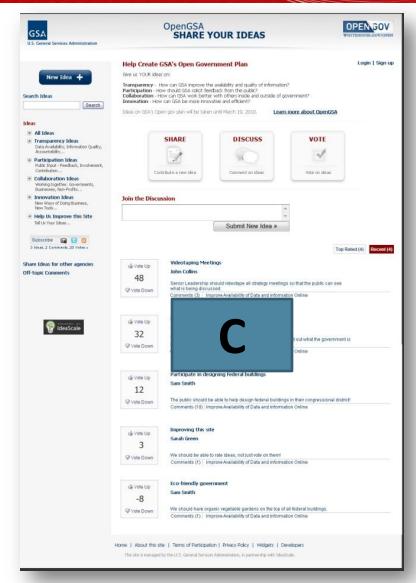








- Many users liked the fact that they could take immediate action by clicking in the "Join This Discussion" text box.
- Most users thought that this field would let them enter a comment (not just a title).
- When asked what would happen when they clicked submit, very few users understood that they would have to "log in".

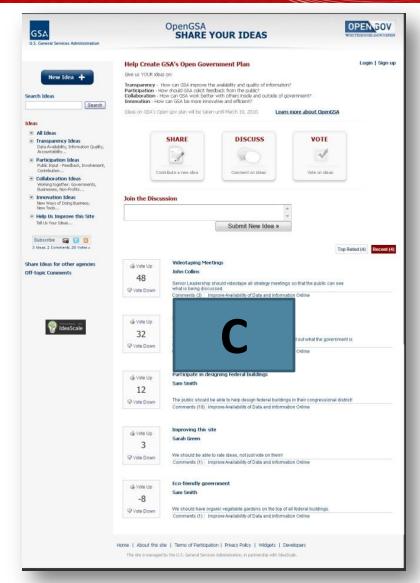








- Several users commented on the redundancy of this design, specifically noting the "new idea" button in the left column, the "share" 'button in the center of the page, and the "join this discussion" text box.
- Other users thought that they needed to select a topic in order to "join a discussion" and were unsure how the text box worked.
- Most users were discouraged when they learned that ideas entered into the "join this discussion" box could possibly be lost when they signed in.



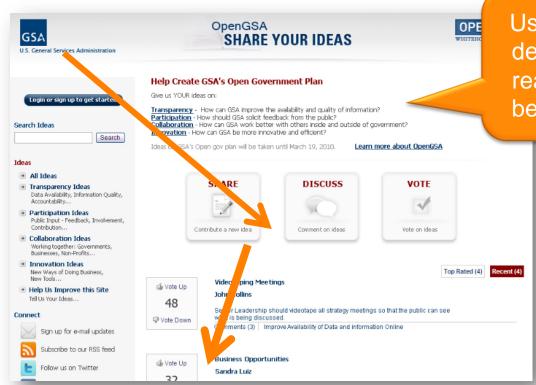






Finding:

- After using the site, many participants were still unclear about the purpose.
- ✓ Users were drawn to the Share, Discuss, Vote buttons.
- ✓ Many users skimmed (skipped) over the descriptions at the top of the page.



Users liked the descriptions but didn't read them without being prompted.







Finding:

- ✓ Users liked the "personal" feel of the site's language.
- ✓ Most users struggled to differentiate the four main topics.
- ✓ Links in the center of the page were not widely used and were confusing.

Help Create GSA's Open Government Plan

Give us YOUR ideas on:

<u>Transparency</u> - How can GSA improve the availability and quality of <u>Participation</u> - How should GSA solicit feedback from the public? <u>Collaboration</u> - How can GSA work better with others inside and out. <u>Innovation</u> - How can GSA be more innovative and efficient?

Ideas on Google gov plan will be taken until March 19, 2010.

Users liked the "personal" feel of "Give us YOUR ideas" vs. the "bureaucratic" feel of "Help Create GSA's Open Government Plan."

Learn more about OpenGSA

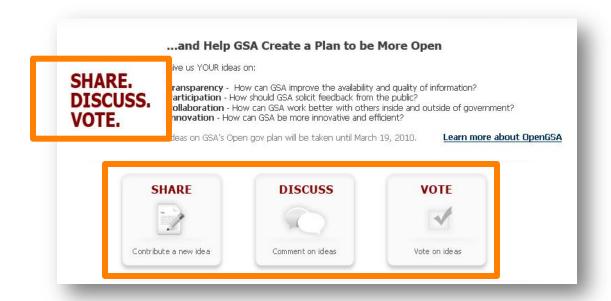
Topics are too similar and overlapping. Also, links in the center were redundant with the topics on the right.







- ✓ Users were drawn to the red labels: Share. Discuss. Vote. Several users felt the presentation of this information was "compelling" or "engaging".
- Many users were so attracted to the Share, Discuss, Vote boxes in the center of the page, that they missed other elements on the page.









Recommendations:

- ✓ Ensure that the purpose of the site is immediately clear.
- ✓ Simplify descriptions at the top of the page, by:
 - Reducing the amount of text
 - Improving the layout
 - Reducing the redundancy of the bullets
 - Making the language more compelling & active
- ✓ Add the labels "Share. Discuss. Vote." (as shown on Version B).
- Reduce prominence of the Share, Discuss & Vote buttons.
- ✓ Set expectations of the "Share" button by renaming it "Sign up & Share".
- ✓ Reduce redundancy by combining the "Discuss" and "Vote" buttons.







Recommendations:

✓ Consider a different presentation of the information describing the initiative and evoke a call to action.

SHARE. DISCUSS. VOTE.

Give us your ideas on how we can:

- · Work better with others inside & outside the government
- · Solicit feedback from the public
- · Improve the availability & quality of information
- · Be more innovative & efficient
- Create GSA's Open Government Plan. Learn more ...

Ideas will be accepted until March 19, 2010

Sign Up & Share Ideas

Discuss & Vote on Ideas

Transparency

Collaborate

*This mock-up is just a wireframe, it does NOT depict the actual graphical design of the site.





Innovate

Participate



Proposed Placement #1: Middle / Center





Login

Search Ideas

Search

Ideas

- All Ideas
- Transparency Ideas Data Availability, Information Quality, Accountability...
- Participation Ideas Public Input - Feedback, Involvement, Contribution...
- Collaboration Ideas Working together: Governments, Businesses, Non-Profits...
- Innovation Ideas New Ways of Doing Business, New Tools...
- Help Us Improve this Site Tell Us Your Ideas...

Connect



Sign up for e-mail updates



Subscribe to our RSS feed



Follow us on Twitter



Follow us on Facebook

Share Ideas for other agencies Off-topic Comments

SHARE. DISCUSS.

VOTE.

your ideas on how we can:

- tter with others inside & outside the government
- Solicit feedback from the public

OnanceA

- · Improve the availability & quality of information
- · Be more innovative & efficient
- Create GSA's Open Government Plan. <u>Learn more</u>...

Ideas will be accepted until March 19, 2010

Sign Up & Share Ideas

Discuss & Vote on Ideas

Top Rated (4)

Recent (4)

48

₩ Vote Down

John Collins

Senior Leadership should videotape all strategy meetings so that the public can see what is being discussed.

Comments (3) Improve Availability of Data and information Online

✓ Vote Up

₩ Vote Down

Sandra Luiz

Sam Smith

Business Opportunities

32

The government should make it easier for businesses to find out what the government is looking to acquire in the private sector.

Comments (2) Improve Availability of Data and information Online

Vote Up

Participate in designing Federal buildings

12

Vote Down

The public should be able to help design federal buildings in their congressional district!

Comments (10) Improve Availability of Data and information Online

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Proposed Placement #2: Upper Top of Page





Login

SHARE. DISCUSS. VOTE.

Give us your ideas

how we can:

- Work better with others inside & outside the government
- Solicit feedback from the public
- Improve the availability & quality of information
- · Be more innovative & efficient
- Create GSA's Open Government Plan. Learn more

Ideas will be accepted until March 19, 2010

Transparency

Innovate

Participate

Collaborate

Sign Up & Share Ideas

Discuss & Vote on Ideas

Top Rated (4)

ated (4) Recent (4)

Search Ideas

Search

Find Ideas About:

- → All Ideas
- Transparency Ideas

Data Availability, Information Quality, Accountability...

Participation Ideas

Public Input - Feedback, Involvement, Contribution...

Collaboration Ideas

Working together: Governments, Businesses, Non-Profits...

Innovation Ideas

New Ways of Doing Business, New Tools...

Help Us Improve this Site
Tell Us Your Ideas...

Connect

 \searrow

Sign up for e-mail updates



Subscribe to our RSS feed



48

Vote Down

32

Vote Down

Vote Up

12

Wote Down

Videotaping Meetings

John Collins

Senior Leadership should videotape all strategy meetings so that the public can see what is being discussed.

Comments (3) Improve Availability of Data and information Online

Business Opportunities Business Opportunities

Sandra Luiz

The government should make it easier for businesses to find out what the government is looking to acquire in the private sector.

Comments (2) Improve Availability of Data and information Online

Participate in designing Federal buildings

Sam Smith

The public should be able to help design federal buildings in their congressional district!



- ✓ Many users struggled with "top rated" and "recent" items, possibly because of:
 - Location
 - Labels (consider "most popular" and "most recent")
 - Numbers (users did not know how these would be determined)
 - Date of post isn't listed anywhere









Recommendations:

- ✓ Make the tabs look more like tabs. Consider the size of the tabs. Should the tabs be slightly larger?
- Consider removing the numbers in parenthesis
- ✓ Revise labels. Use a parallel structure: Most Popular & Most Recent
- ✓ Consider adding dates to posts if you are planning to sort by "Most Recent"











Finding:

✓ The format of the comments wasn't intuitive to users.



Videotaping Meetings

John Collins

Senior Leadership should videotape all strategy meetings so that the public can see what is being discussed.

Comments (3) Improve Availability of Data and information Online



Recommendations:

- ✓ Increase size of title.
- ✓ Place comment text directly below the title.
- ✓ Limit display of comment (set a character limit) and then link to more...
- ✓ Place "author" below the comment. Change label to "By <u>John Collins</u>".
- ✓ Change comment label to: "3 Comments" instead of "Comments (3)"
- ✓ Place "Discuss" button to right of idea.









Finding:

- Many users did not understand the binary voting system:
 - Some users thought that the number (48) was the total number of votes, not the net. Other users thought this was the total number of people who voted FOR the idea. One or two participants misread the number as a percent (48%).
 - The label "vote down" was not clear to all of the users.
 - Users wanted to know how many people had voted (which the current system does not do)











Recommendations:

- ✓ Avoid a system that displays the Net votes, not the total. The current system could be misleading as polarizing issues may receive lots of votes, but the Net total doesn't reflect this.
- Consider a rating system or other system that would more clearly balance high / low votes and would display the total number of votes.







Phase II

Discuss

Current



Videotaping Meetings

John Collins

Senior Leadership should videotape all strategy meetings so that the public can see what is being discussed.

Comments (3)

Improve Availability of Data and information Online

Proposed



I Agree

Videotaping Meetings





l Disagree

Senior Leadership should videotape all strategy meetings so that the public can see what is being discussed. If the message is a long message, add a link to more...

January 23, 2010

By John Collins



1 Comment

Transparency Ideas







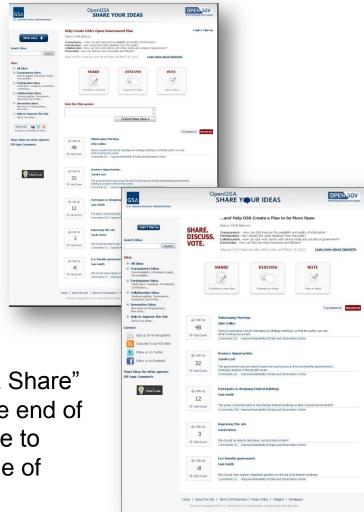
Finding:

✓ Many users commented on the length of the pages. With the current design, comments appear below the fold (these comments provided a lot of context for users and helped users to better understand the scope/purpose of the website).



Recommendations:

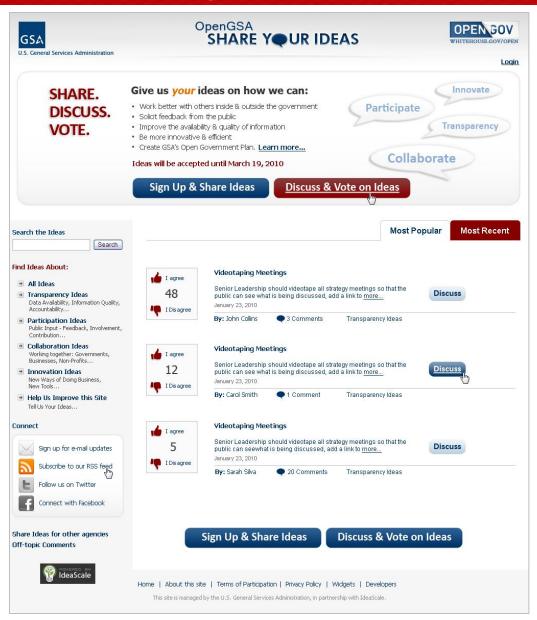
- Consider placing a button to "Sign up & Share" at the bottom of the comments, or at the end of each 'page-full', so that users don't have to scroll back to the top of a very long page of topics.
- ✓ Use a more... link on long comments.







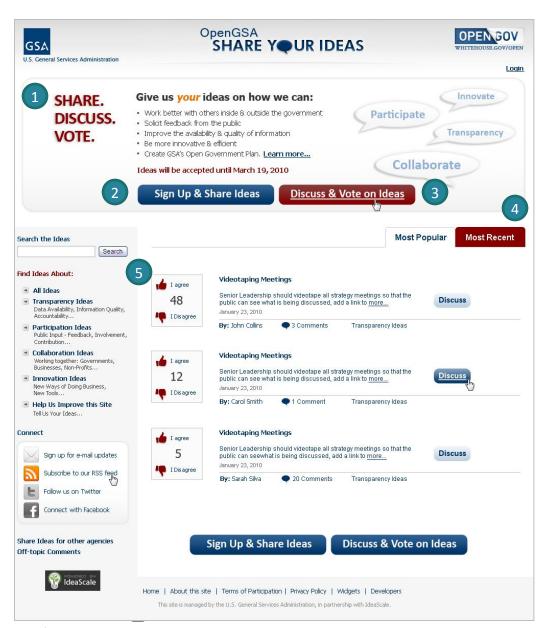
Proposed Design







Phase One Changes



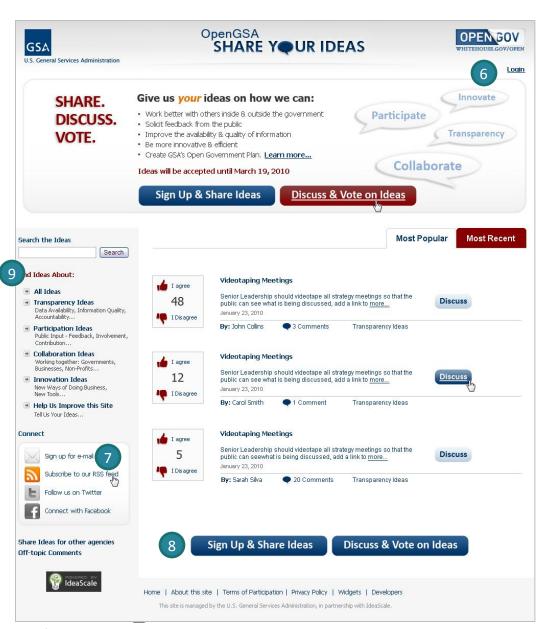
List of Major Changes Implemented for Phase 1

(Based on technical feasibility)

- Added new intro graphic to better communicate the purpose of the site, using plain language.
- Added prominent buttons for sharing ideas and changed labeling of share button to "Sign Up & Share" in order to set user expectations.
- Consolidated the discuss & vote options and added a rollover on all buttons to indicate state.
- Improved affordance and prominence of the tabs. Changed labels to be more intuitive.
- Changed "Vote Up" and "Vote Down" labels to "I Agree" and "I Disagree".

 Added new image for the "thumbs up" / "thumbs down".

Phase One Changes



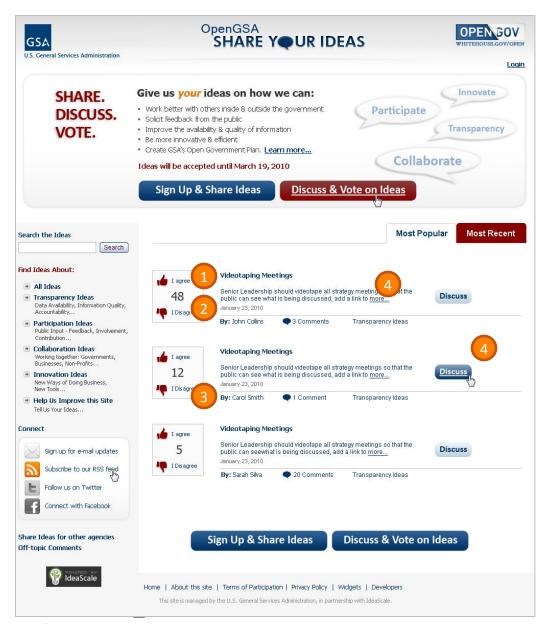
List of Major Changes Implemented for Phase 1

(Based on technical feasibility)

- Moved Login & Accessibility links to the top right.
- Reformatted the social media section and added rollovers to links.
- 8 Added "Sign Up & Share Ideas" and "Discuss & Vote on Ideas" buttons at the bottom of the page to make it easier for users to comment on long pages without having to scroll back up to the top.
- Aligned search and the left navigation section for "Ideas" with the ideas in the center of the page.
- 10. (Not Shown): Added a global header to the sub pages of the site so that it's easy to share, vote and comment from any page of the website.



Phase Two Changes



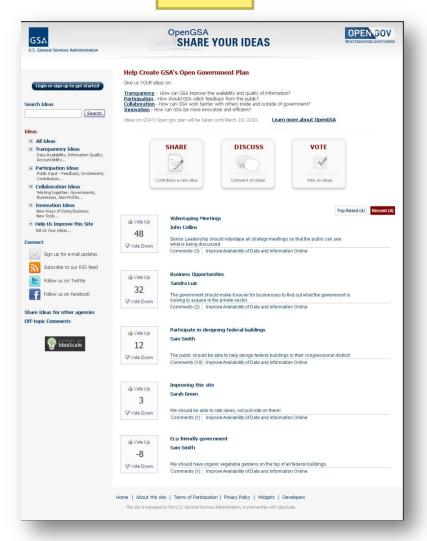
List of Major Changes To Be Implemented for Phase 2

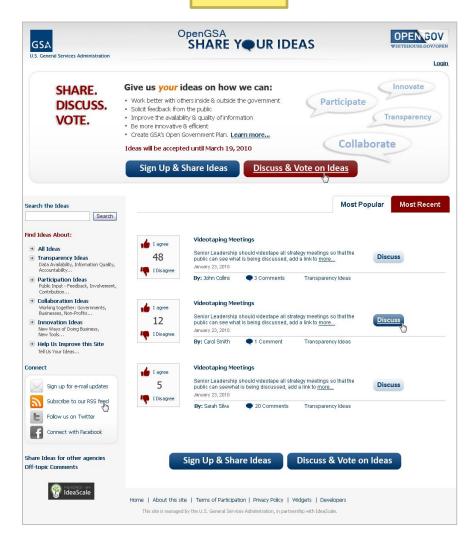
(Based on technical feasibility)

- Reformatted the presentation of the ideas.
 Increased size of the post title. Moved author's name to the bottom of the post.
- Added a date to each message (to more easily show how messages are sorted by "Most Recent").
- Reformatted the presentation of the author's name, number of comments and tags so that this information is easier to scan and doesn't compete for attention with the rest of the message.
- Limited the number of characters shown on the main page and included a "More" button so interested users could read the full post. This also helps to display more information on the page and makes the page easier for users to scan.
- Added a "Discuss" button for each comment so that users could quickly comment on an idea from the homepage.

Before & After Comparison

Before

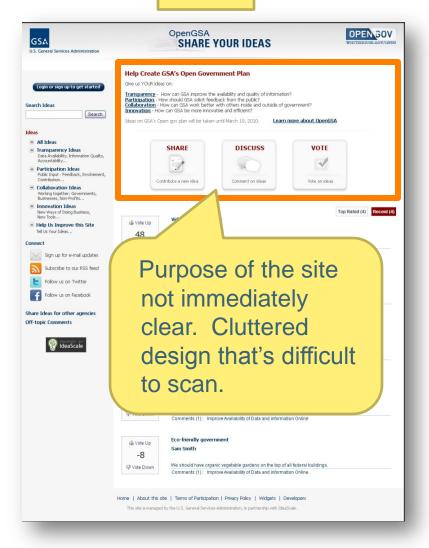


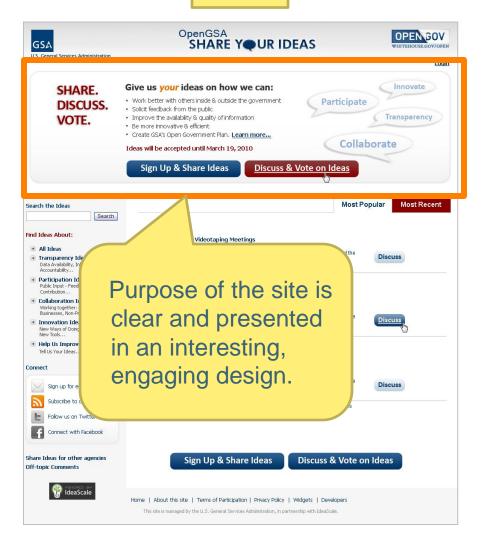






Before

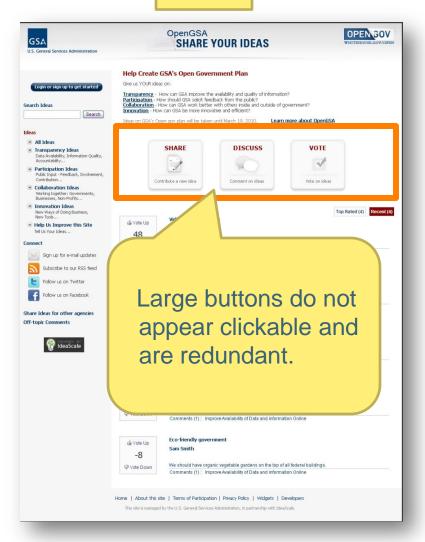


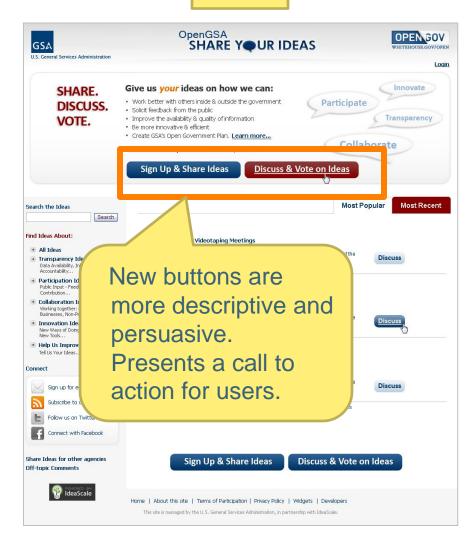






Before

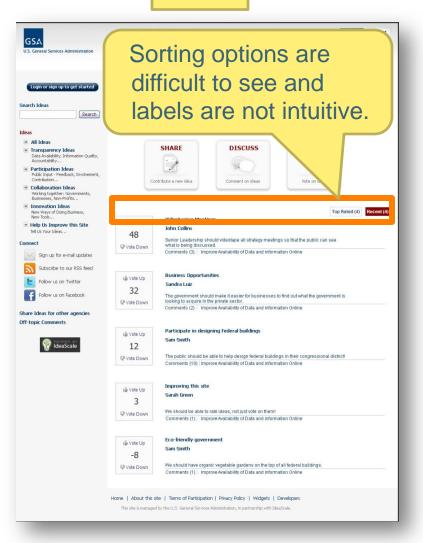


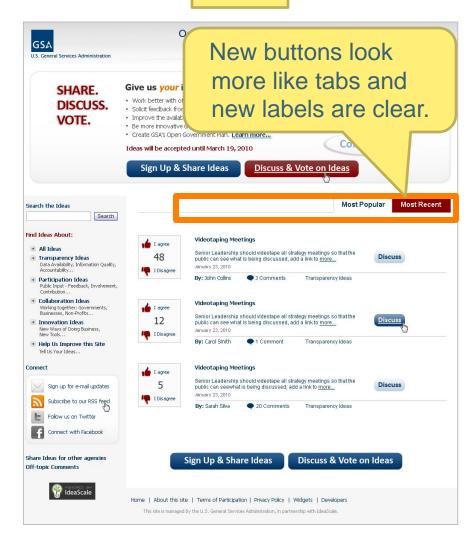






Before



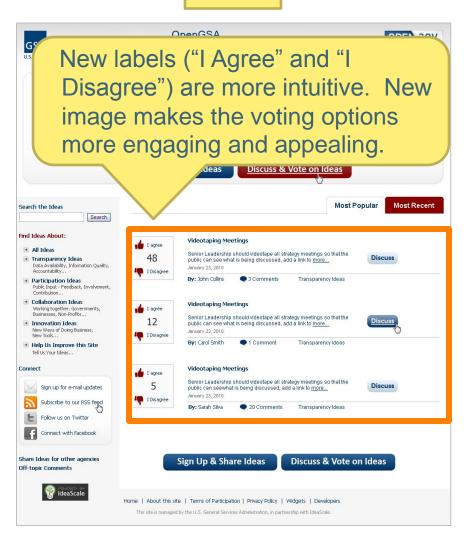






Before



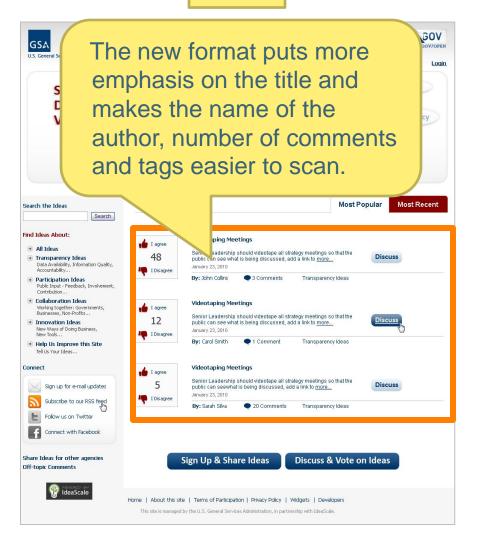






Before

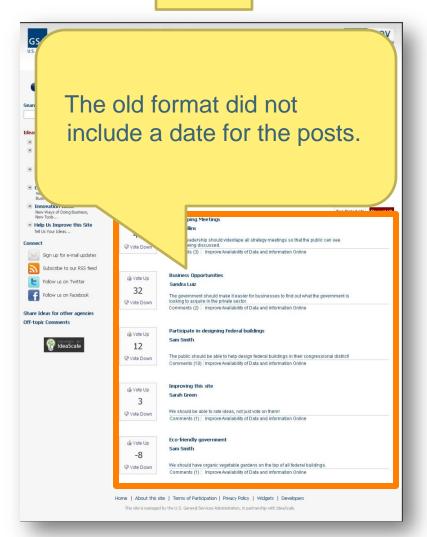
Format of posts was difficult to scan. The author's name was as prominent as the title of the post and disrupted the flow of the idea. New Ways of Doing Business, New Tools... Help Us Improve this Site eadership should videotape all strategy meetings so that the public can see ₩ Vote Down ts (3) Improve Availability of Data and information Online Sign up for e-mail updates Subscribe to our RSS feed Business Opportunities ⊯ Vote Up Follow us on Twitter 32 Follow us on Facebook The government should make it easier for businesses to find out what the government is looking to acquire in the private sector. Vote Down Comments (2) Improve Availability of Data and information Online Share Ideas for other agencies Off-topic Comments Participate in designing Federal buildings cle Vote Up 12 The public should be able to help design federal buildings in their congressional district! Comments (10) | Improve Availability of Data and information Online Improving this site ŵ Vote Up 3 We should be able to rate ideas, not just vote on them! ♥ Vote Down Comments (1) Improve Availability of Data and Information Online Eco-friendly government de Vote Up -8 We should have organic vegetable gardens on the top of all federal buildings. ♥ Vote Down Comments (1) Improve Availability of Data and information Online This site is managed by the U.S. General Services Administration, in partnership with IdeaScale

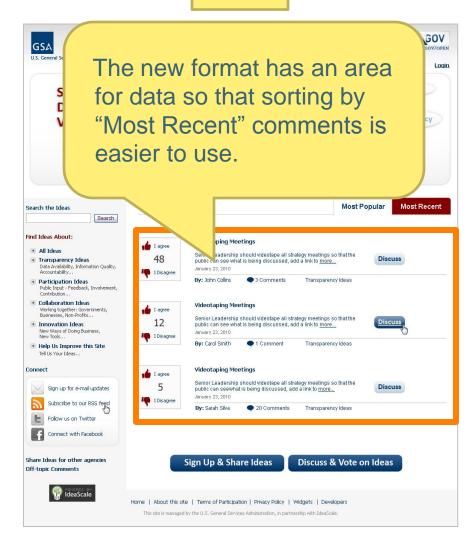






Before

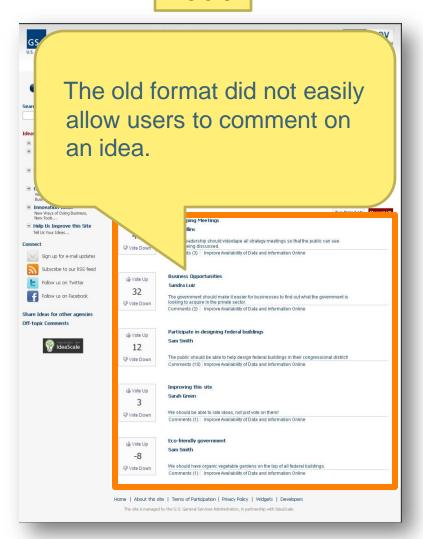


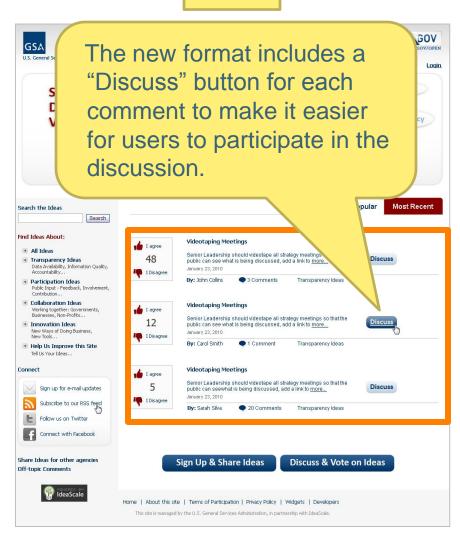






Before



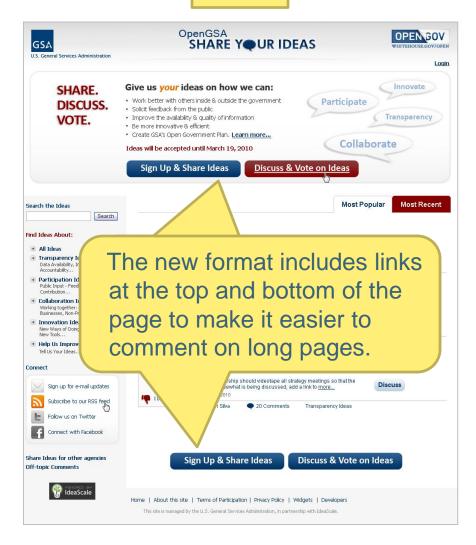






Before









- 1 Overview of the usability test
- 2 Participant demographics
- 3 Performance metrics
- 4 Findings and recommendations
- 5 Next steps





Next Steps

- Determine feasibility of "Phase II" priorities and develop timeline to implement.
- Consider additional usability testing once page is built out and the interaction is functional.







Questions?

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