EVAAS Value-Added Redesign

Usability testing helps us... Gain a deeper understanding of the user's needs and frustrations Discover product flaws or areas of confusion Make the product easier to use

"Nothing to prove, only improve."

May 2, 2019

Develop tasks.

should function.

Goals

Methodology

Develop brief statements about how the product

Develop narratives that describe how a real user would interact with the product.

Transform tasks into

scenarios.

confusing experiences. Identify any difficulties that users could potentially face.

Reveal friction points and

Prior Familiarity with

Value Added

Low / Medium

Test Moderators:

Patrick Lentz and Lora Gibbs

Outreach & Screening The VAR'd team decided that for the first round of testing, participants

Screening Criteria: For the first round - Internal SAS employees • Candidates should not have heavy experience with the Value-Added

Report Channels Used: Jamie reached out to participants over email.

Testing Setup, Moderation & Pre/Post-Scenario Questions

Abe Kline

Name

Katie Hobbs

Participant Profiles

Internal Employee Low / Medium Internal Employee Abby Domanowski Low

Participant Type

Internal Employee

Each Session was recorded.

Test Setup

Pre-Scenario (Before opening the report) • What kind of information would you expect to find on a School Value-Added report?

• Tests took place in a conference room and included the participant, the moderator, and a few observers.

• Participants were given paper slips with the scenarios and the moderator read each scenario aloud.

Scenarios 1. What kind of information does it look like this report is providing?

explain it?

Post-Scenarios

EOG Math in 2019?

- 3. What does it mean that the Growth column shows "Above"? 4. You've shown this report to a teacher at your school. The teacher was curious about what the white dot on the graphs means. How would you
- 6. You're interested in seeing how your school district did this year. Switch to the report for Big City School District. 7. What can you tell me about Algebra I for 2019 in Big City School District? 8. Switch back to the report for Mountain Lion Middle School. What is the growth index value for the 7th grade EOG Math in 2019?

5. The teacher is also curious about the colors. How would you describe the meaning behind the colored regions of the graph?

2. You're the principal at Mountain Lion Middle School, and you've just accessed your school's value-added report. How did the 7th graders do in

- 9. How would you interpret the difference between 7th grade EOG Math's growth indexes for 2019 and 2018? 10. You're meeting with the school's Math coach and together you are examining the value-added report. You see that 6th grade EOG Math in 2018 and 2019 both have a white dot to the far left in the red section of the graph, but the 2019 graph has an additional symbol next to it. What do you
- think the symbol means? 11. You want to see how 6th graders fared across subjects (not just in Math). Can you see a way to group the report so 6th grade scores are all next to each other?
- 12. Growth results for 6th grade EOG Math have shifted, and as part of investigating why this happened, you want to see whether there have been changes in students' entering achievement. What would you do?
- 13. For EOG Math, you're interested in seeing how growth at your school stacks up against growth in your district (Big City School District). What would you do? 14. You want to know more about how the values on the report are determined. What would you do?
- Based on what you've seen in this report, explain what you think value-added results are and what they mean. • Play around with the report and give any feedback.

The section below summarizes the overall impressions of the users' experiences. Further down,

there are specific scenarios that detail the experience of participants on specific tasks as well as

Overall Summary

using the product.

recommendations at the bottom of the page.

Results

THE POSITIVE POINTS All participants thought the report looked great, found the report very intuitive, and enjoyed the overall experience of

THE FRICTION POINTS Participants had trouble understanding the meaning of terms like "growth," "value-added," and "achievement," choosing the correct data category under the Advanced tab to add specific data to the table, and noticing the legend/glossary. • "I'm not sure whether to go to Advanced automatically to find

• "The report is very intuitive."

• "I liked the toggling on and off of the years and subjects."

"Looks great and is easy to use. Very intuitive."

• "Found the arrows and grouping very obvious."

• "I liked the legend and glossary."

• "It looks nice and is relatively intuitive."

The user can make accurate assumptions about what will be on the report. What kind of information would you expect to find on a School Value-Added report?

data, this part isn't as intuitive."

• "I'm unsure what growth standard is."

• "I didn't immediately go to legend and glossary."

• "I wanted to see what the scale is for the growth index."

see the growth of students in a school.

"Growth of students"

This participant would expect to

Pre-Scenario

What this tells us: Upon just hearing the term "Value-Added", while the participants gathered that the report involved information about students and some sort of growth, there's not a clear-cut definition that allowed users to quickly determine what the report intends to get across.

"Information reflecting the

This participant would expect to

selected school, such as value-

see information reflecting the

school"

classrooms.

What kind of information does it look like this report is providing?

All participants understood the

information was broken up by

subject/grade/year.

Scenario 1 The user can understand the type of information the report is providing.

Additional Notes: • One participant recognized that the growth index was graphed. One participant liked the toggling on and off years and subjects.

• One participant recognized that clicking "Advanced" and then clicking "All" would show Achievement and Growth data. What this tells us:

The user can find the meaning of the value-added categories by accessing the

2 out of 3 participants

time.

Overall the participants were able to understand the type of information the report was providing.

mentioned "effectiveness level"

and all participants associated

the graph with growth over

Scenario 3

What this tells us:

Scenario 6

What does it mean that the Growth column shows "Above"?

2 out of 3 participants were able to determine

third grade Math was above the expectation of

Participants were not able to easily locate the legend for reference.

The user can switch to another district view.

legend.

growth for that test.

You're interested in seeing how your school district did this year. Switch to the report for Big City School District.

The participants were able to easily locate and use the district/school selection menu option.

The participants were able to easily locate and use the district/school selection menu option.

The user can determine that the white dot is the growth index.

You've shown this report to a teacher at your school. The teacher was curious about what the white dot on the graphs means. How

Scenario 4

would you explain it?

graph.

math."

Scenario 10

graph.

Scenario 11

all next to each other?

All participants recognized that

paired with the arrow symbol

the hyperlinked columns

Additional Notes:

What this tells us:

What this tells us: Participants were able to interpret the graph and understood that the placement of the white dot reflected where on the graph the

The user can determine the meaning of the exceeds indicator.

The user can group the table based on year, grade, or subject.

All participants understood the meaning of the

• "The white dot shows average growth for 7th grade for EOG

white dot in relation to its placement on the

• "The white dot represents where 7th graders are falling

compared to other 7th graders."

growth of the selected group fell.

next to it. What do you think the symbol means?

• One participant looked to the legend for an explanation of the symbol.

What this tells us: Participants were able to understand the meaning of the exceeds indicator, but would benefit from a reference in the legend.

You want to see how 6^{th} graders fared across subjects (not just in Math). Can you see a way to group the report so 6^{th} grade scores are

2 out of 3 participants were

columns and order by year,

able to successfully rearrange

You're meeting with the school's Math coach and together you are examining the value-added report. You see that 6th grade EOG

All participants understood that the symbol indicated the index was outside of the bounds of the

Math in 2018 and 2019 both have a white dot to the far left in the red section of the graph, but the 2019 graph has an additional symbol

Scenario 13

All participants successfully located the "Add a comparison" button and were able to differentiate between the two separate groups when the comparison was added.

The user can add a comparison.

Scenario 12 The user can add more data to the table. Growth results for 6th grade EOG Math have shifted, and as part of investigating why this happened, you want to see whether there have been changes in students' entering achievement. What would you do?

What this tells us: Participants fully understood the "Advanced" tab would lead them to more data, but it took some time for participants to understand

Recommendations & Action Items

"Achievement", but all participants did click the "Advanced" tab and added more data to the table.

what type of data each radio button would reveal.

didn't appear to be clickable, it grade and subject. indicated that those columns wouldn't able to be grouped. could be moved. Additional Notes: • One participant initially tried to drag-and-drop the columns, but realized they were clickable. What this tells us: Overall, participants were able to recognize that the hyperlinked columns were able to be clicked and would regroup the data.

For EOG Math, you're interested in seeing how growth at your school stacks up against growth in your district (Big City School District).

What this tells us:

What would you do?

2 out of 3 participants took some time figuring

out to go to the "Advanced" tab and click

point out the glossary and legend) • Define the Exceeds indicator in the legend.

• Include a definition or explanation of "Value-Added" and the purpose of the report overall.

• Consider another word for Advanced or just have the check boxes for each data category.

• Draw more attention to the legend and glossary - (one participant suggested a "joyride" or a pop-up to

• Add a definition for the growth standard in the legend/glossary.

Participants fully understood how to add a comparison and how to compare the data between the two selections.

When interpreting the Achievement, all

participants identified that entering achievement

was left of arrow and exiting was on the right.

One participant got stuck after

concluding that since the non-

hyperlinked column header

school. added scores, list of teachers,

One participant was unsure if

the graphs were showing

expected or whether it is

actual teachers."

1 out of 3 participants was able to locate the

legend and use it for reference for this scenario.

1 out of 3 participants specifically used the term

"growth index" when describing the white dot.

whether "the school meets

"Some type of value"

This participant questions if it

refers to the value the school is

adding to the students or areas

that are adding value to the