* Rescale the county level flows. Currently the tool seems to be maintaining the state-level scale even when counties are selected.

Talking point for June 3rd – mention that other tabs exist to show this information

County level flows are available in the other tabs/ drop down options

* + - In the ITTS county to county tab one can see county flows
    - In the ITTS County to state one can see how a county trades with other states
  + Proposed change: Change tab text to better orient users to the page content
  + Proposed change: Change welcome tab/start user in welcome to better explain aspects of the tool
* Show all counties in the drop-down menu and place them in alphabetical order by state. Currently, users aren't able to scroll through the full list of counties though they can select them on the map.

Talking point for June 3rd – we were able to ensure all counties are included and in addition the list is searchable

* + Add more explanation
  + Add some tip for search
  + **Seth - fixed by expanding maximum allowable inputs – update this has been fixed**
* Add unit labels to all of the plots (e.g., Million $, Thousand Tons, etc.).
  + Talking point for June 3rd – units were added to each graph, especially in pop-ups
  + **Seth -fixed by adding units to all graphs in the map** -fixed
* Add the option to select the ITTS region to the scenario analyzer. (I know we intentionally omitted this for performance.) **–** [**@Seth LaRue**](mailto:slarue@camsys.com)
  + Talking point for June 3rd – this was added to show the ITTS region - it was precalculated to speed up the process as much as possible
  + Move it to top
  + Seth – fixed by adding it back haha
  + Pre-aggregate data
* Add back in the international tab. (Again, I know we intentionally removed this temporarily.)
  + Talking point for June 3rd – this data was added for 2022 and the whole tab re-added. As this tab is new, we likely will want their comments.
  + Data has been updated (thanks Chris)
    - Need to fix table/charts and implement scenarios?
* Drop "scenario" from the name of the first tab so user's aren't confused about which one has the scenario planning component. **–** [**@Seth LaRue**](mailto:slarue@camsys.com)
  + Talking point for June 3rd – tab name was changed to “Trade Explorer”
  + Seth – changed this to “Trade Explorer” ?

**Plan for draft user guide**

* Define Template/Format + page budget [**@Christopher Lindsey**](mailto:CLindsey@camsys.com)
* Draft Annotated Outline[**@Qi Si**](mailto:QSi@Camsys.com)
* Populate sections with content
  + Maps sections Tab [**@Qi Si**](mailto:QSi@Camsys.com)
  + Scenario Comparison Tab **–** [**@Seth LaRue**](mailto:slarue@camsys.com)
  + Other Tab + General sections –[**@Seth LaRue**](mailto:slarue@camsys.com)

**Running List of Other Issues**

* Initial Legend is Broken on the map shows tons when it should show value missing space as well
* Check that Sankey values for ITTS region are correct. It seems to not be filtering out duplicate rows correctly
* Please add anything else you see during QAQC @Qi
  + Incorporate the scenario function to international map.
    - UI ( update the scenario options, and the descriptive paragraphs when scenarios selected)
    - Server (do we need Scenarios for international flow?)
  + Adjust the scenario function for scenario analyzer. (about coal in S3)

**Active List:**

1. On the Scenario Analyzer tab, move the option “ITTS Region” to the top of the State dropdown list.
2. On the Scenario Analyzer tab, the label overlaps if too many commodities are selected.

A screenshot of a computer

Description automatically generated

1. On the Trade Explorer tab, remove the Scenario Options on the International tab.
2. check the filter and data visualization logic. When the user filters to a very specific selection, such as coal with “Other or Unknown” mode, there isn’t any data, so the data\_ss\_click() is Null. This causes rendering issues, and the tool will crash.

A screen shot of a computer

Description automatically generated

1. On the Trade Explorer tab, the datatable warning randomly happens again, it might relate to Issue #6 on the international tab. Check again after solving issue #6.

A screenshot of a computer

Description automatically generated

1. On the Trade Explorer tab, selecting the “Port” (Focus Map on:) casing rendering issue.

A screenshot of a computer

Description automatically generated

1. On the Trade Explorer tab, add space in the legend between the selected geography and the variable. And the legend is showing as “Thousand Tons” when the selected measure is value.

A map of the united states

Description automatically generated

1. On the Trade Explorer tab, under the Graphs tab, add subtitles to show the scenario selections. And adjust the “Thousand Tons” to “K Tons” on all the graphs.

A screenshot of a graph

Description automatically generated

Proposed speed fixes

Remove or consolidate following R Data object

All\_selected

county\_base county\_choices, county\_selected, cty\_labels

ini\_commcolors, ini\_international, ini\_modecolors, ini\_modecolors2

ITTS\_base, ITTS\_base\_comp,

ITTS\_states, ITTS\_states\_choices

Objects\_new,objects\_old, tostate1

State\_base, state\_base\_labels, state\_choice\_labels, state\_choices, state\_code, state\_join

Remove initial maps just start with reactivity?

Remove click\_counties$prev

Remove color pallete calculation for each map