



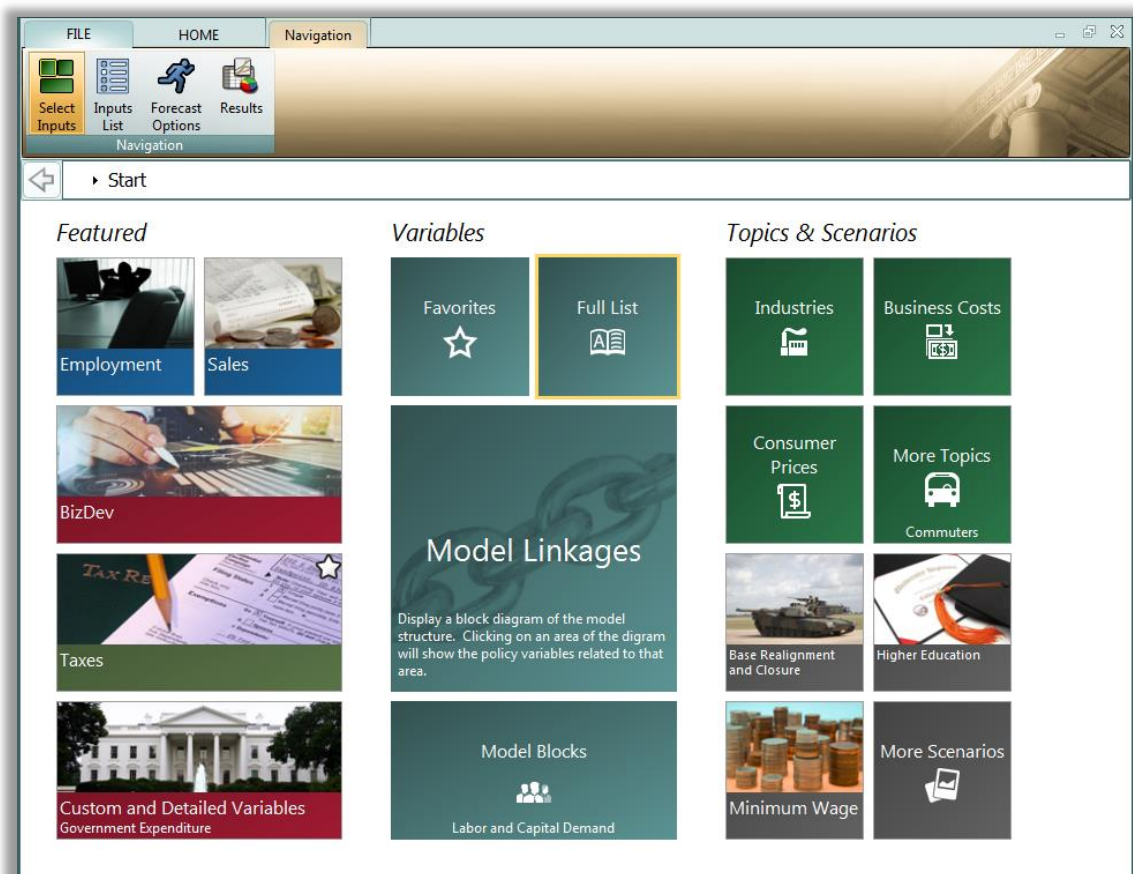
Using the new PI+ interface

The new 2.0 version of PI+ features a major redesign of the various forecast creation interfaces and the policy variable selector. In keeping up with the industry standard for Windows applications, the design of these interfaces has moved toward the use of smart tiles and has made PI+ much more tablet-friendly in the process.

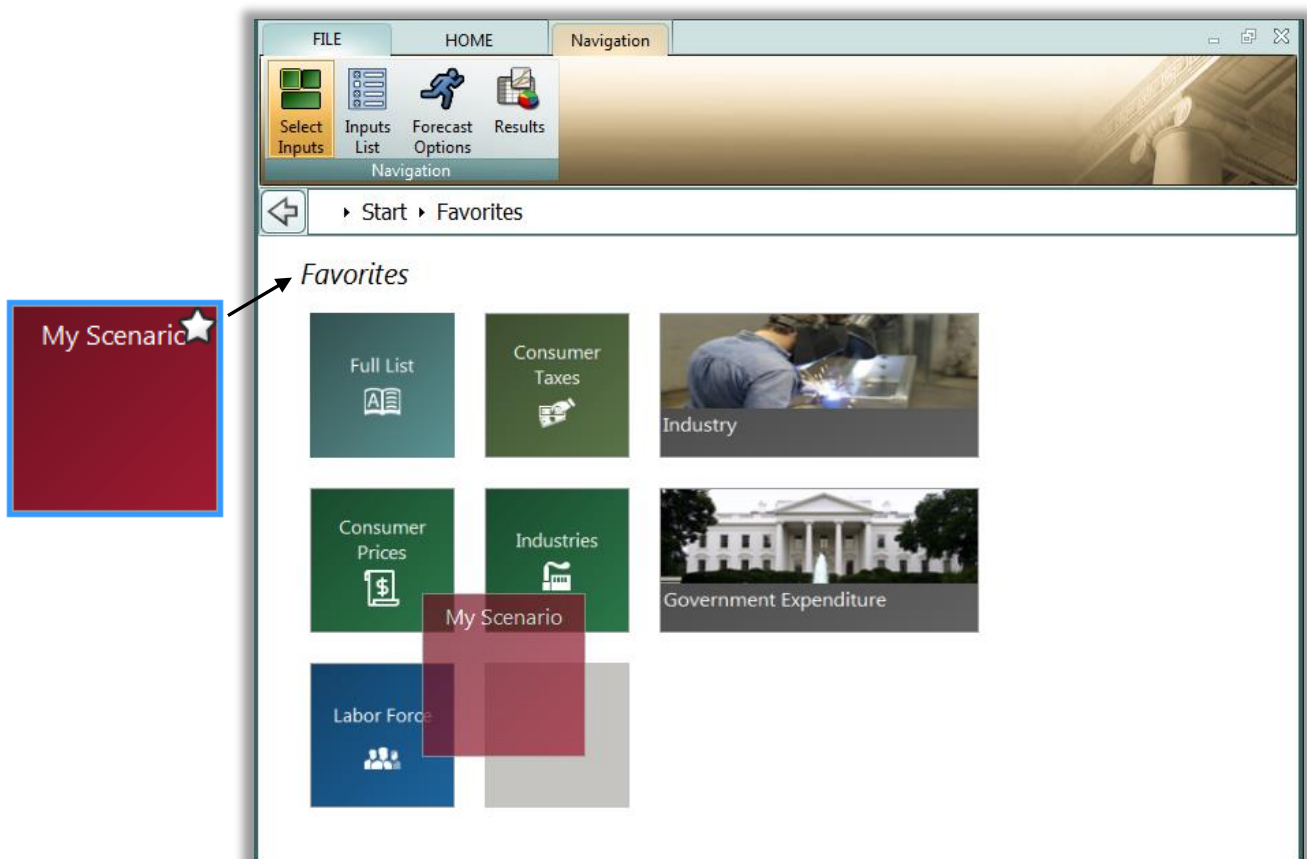
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Forecast Navigation Screen

While the home screen of PI+ will look familiar from the previous version, once you begin the process of creating a forecast you will experience our intuitive new tile design. Navigating to a policy variable via its topic, through a pre-built economic scenario, or with some other grouping like the model blocks, is now more user friendly, with all options on display instead of hidden in drop-down menus. At the forefront of the new forecast navigation screen, the Featured section highlights topics and tools that are likely to be used most often.



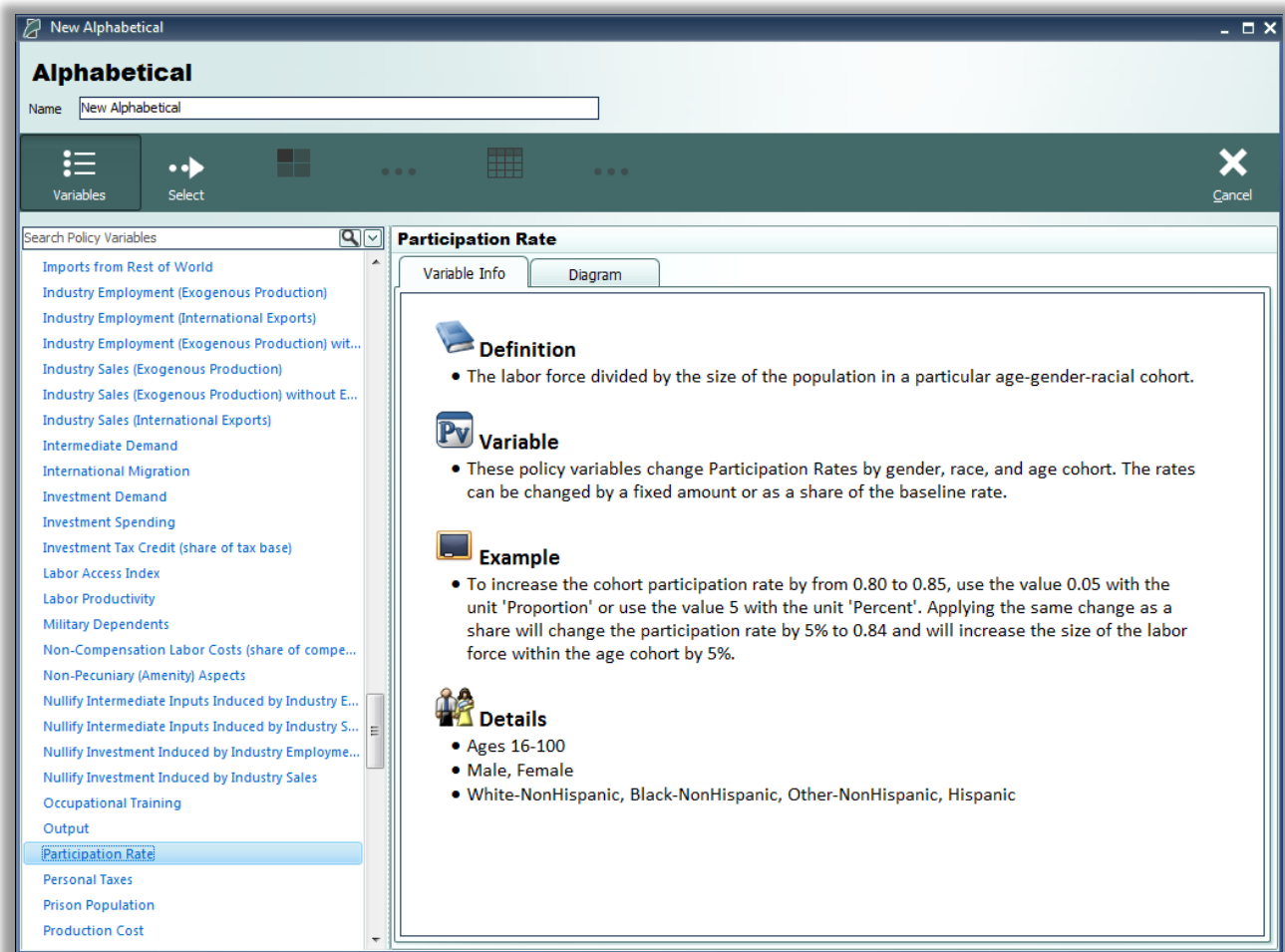
Another organizational improvement that we hope will simplify navigating to your most-used policy variables is the Favorites section. Right-clicking any tiles adds them to your Favorites (indicated with a star) where they can be dragged into any customized order.



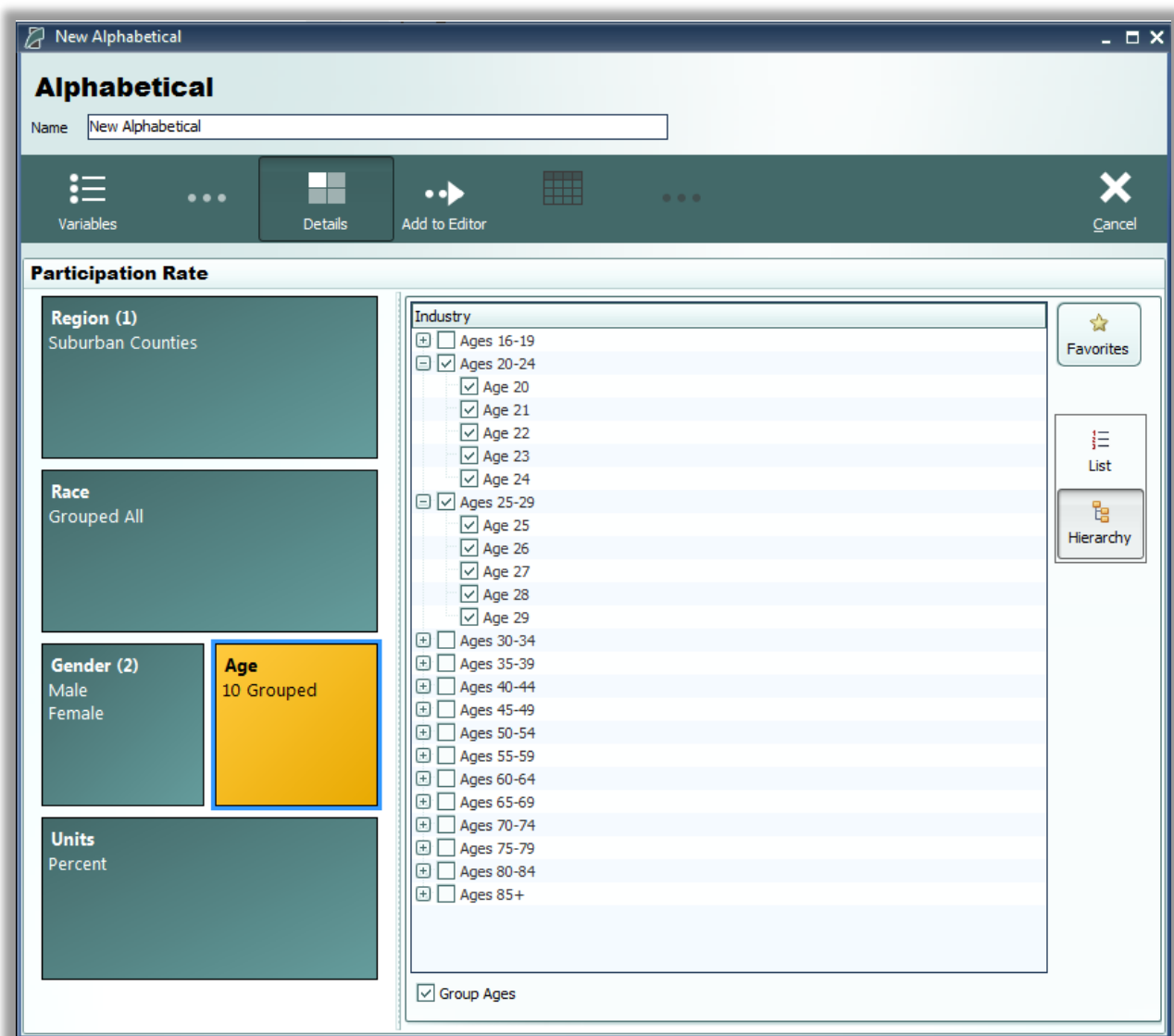
Creating a custom scenario, which consists of any number of policy variables, in custom groups and with pre-selected options, can prove to be another very effective way of easily accessing all of the policy variables you use most. Favoriting the resulting custom scenario tile will make it even easier.

Policy Variable Selector

Clicking on any tile that represents some number of policy variables will open up the policy variable selector in a new window. This selector window is split into several tabs that each represent a step in the process of defining exactly how your policy variable will enter into the model.



The first tab holds a list of logically grouped policy variables that can be selected. Search functionality has been added to this policy variable list to cut down on time spent looking through the longer lists of variables. Clicking a variable will show details about it and its options, as well as a diagram that depicts how the policy variable relates to other variables and fits into the model. After choosing a variable, clicking the Select arrow button will move the variable to the Details tab.



The Details tab is where you decide what the exact form of the policy variable should be. There is now a hierarchical view of industry, commodity, occupation, and age cohort details available on this tab to allow for easier input of values at a more aggregate level. Once all of the options on the policy variable have been specified, you will be able to click the Add to Editor button to move the variable into the editing grid.

Alphabetical

Name:

Variables Details Edit Values Add to Inputs Cancel Spreader Calculator

	Category	Detail	Region	Units	2015	2016	2017	2018	2019	2020	2021	2022	2023
← X	Participation Rate	Male, All Races, Ages (10)	Suburban Counties	Percent	-1	-0.875	-0.75	-0.625	-0.5	-0.375	-0.25	-0.125	0
▶ ← X	Participation Rate	Female, All Races, Ages (10)	Suburban Counties	Percent	-1	-0.875	-0.75	-0.625	-0.5	-0.375	-0.25	-0.125	0

Gender
Female

Race
White-NonHispanic
Black-NonHispanic
Other-NonHispanic
Hispanic

Age
Age 20
Age 21
Age 22
Age 23
Age 24
Age 25
Age 26
Age 27
Age 28
Age 29

The editor will allow you to input yearly values for each policy variable. One policy variable will be created for each option specified on the Details tab, unless you choose to group all details into one variable, which is depicted above for the age and race dimensions. Finished variables can be added to the forecast inputs list by clicking the final arrow button, Add to Inputs.

Inputs List

The forecast inputs list is a screen that displays which policy variables will be included as inputs to the model as it runs a simulation forecast. The policy variable import and export features are located on the inputs list. Importing in particular has seen big improvements, including an added ability to import policy variables from a REMI workbook file, an import preview window that allows for choosing which policy variables to import from a file and whether their yearly values or regions should be modified. Importing can also detect policy variable data problems before they happen and better handles each of the legacy import file formats.

Active	View	Category	Detail	Region	Units	2015	2016	2017	2018	2019	2020	2021	2022
<input checked="" type="checkbox"/>		Participation Rate	Male, All Races, Ages (10)	Suburban Counties	Percent	-1	-0.875	-0.75	-0.625	-0.5	-0.375	-0.25	-0.125
<input checked="" type="checkbox"/>		Participation Rate	Female, All Races, Ages (10)	Suburban Counties	Percent	-1	-0.875	-0.75	-0.625	-0.5	-0.375	-0.25	-0.125

Category	Detail	Units	2015	2016	2017	2018	2019	2020	2021	2022
Participation Rate	Female, White-NonHispanic, Age 20	Proportion	-0.00745428	-0.00633749	-0.00537431	-0.00450124	-0.00371219	-0.00279286	-0.00187371	-0.00095456
Participation Rate	Female, White-NonHispanic, Age 21	Proportion	-0.00745428	-0.00633749	-0.00537431	-0.00450124	-0.00371219	-0.00279286	-0.00187371	-0.00095456
Participation Rate	Female, White-NonHispanic, Age 22	Proportion	-0.00788082	-0.00703077	-0.00603306	-0.00505103	-0.00398506	-0.00300241	-0.00201976	-0.00103711
Participation Rate	Female, White-NonHispanic, Age 23	Proportion	-0.00788082	-0.00703077	-0.00603306	-0.00505103	-0.00398506	-0.00300241	-0.00201976	-0.00103711
Participation Rate	Female, White-NonHispanic, Age 24	Proportion	-0.00788082	-0.00703077	-0.00603306	-0.00505103	-0.00398506	-0.00300241	-0.00201976	-0.00103711
Participation Rate	Female, White-NonHispanic, Age 25	Proportion	-0.00877783	-0.00757341	-0.0064988	-0.00542797	-0.00433948	-0.00326101	-0.00218252	-0.00110403
Participation Rate	Female, White-NonHispanic, Age 26	Proportion	-0.00877783	-0.00757341	-0.0064988	-0.00542797	-0.00433948	-0.00326101	-0.00218252	-0.00110403
Participation Rate	Female, White-NonHispanic, Age 27	Proportion	-0.00877783	-0.00757341	-0.0064988	-0.00542797	-0.00433948	-0.00326101	-0.00218252	-0.00110403
Participation Rate	Female, White-NonHispanic, Age 28	Proportion	-0.00877783	-0.00757341	-0.0064988	-0.00542797	-0.00433948	-0.00326101	-0.00218252	-0.00110403
Participation Rate	Female, White-NonHispanic, Age 29	Proportion	-0.00877783	-0.00757341	-0.0064988	-0.00542797	-0.00433948	-0.00326101	-0.00218252	-0.00110403
Participation Rate	Female, Black-NonHispanic, Age 20	Proportion	-0.00585725	-0.00485575	-0.0041494	-0.00366154	-0.00304119	-0.00222124	-0.00140129	-0.00058134
Participation Rate	Female, Black-NonHispanic, Age 21	Proportion	-0.00585725	-0.00485575	-0.0041494	-0.00366154	-0.00304119	-0.00222124	-0.00140129	-0.00058134
Participation Rate	Female, Black-NonHispanic, Age 22	Proportion	-0.00672182	-0.00599224	-0.00510119	-0.00410815	-0.00322018	-0.00247085	-0.00172152	-0.00097219
Participation Rate	Female, Black-NonHispanic, Age 23	Proportion	-0.00672182	-0.00599224	-0.00510119	-0.00410815	-0.00322018	-0.00247085	-0.00172152	-0.00097219

Another new feature is the ability to inspect the converted versions of a given policy variable that will be the ones actually used by the model. Clicking on the magnifying glass icon on a policy variable in the Inputs List will open this converted variable window.

Forecast Options

Running a forecast has been moved to its own screen. There are frequently asked questions about the different options for running the relevant forecast right on this screen alongside the usual year selector and also closure options and iteration settings if they apply to the forecast being run. Simply click the run forecast button once you have selected your preferred options and the model will start calculating results, as indicated by the progress bar.

The screenshot shows a software interface for running a forecast. At the top, there is a navigation bar with tabs for FILE, HOME, and Navigation. Below this is a navigation pane with icons for Select Inputs, Inputs List, Forecast Options (highlighted), and Results. The main area contains a forecast name field set to "National Control 1" and a "Run Forecast" button. Below the name field are several configuration sections: "Run Years" with a slider from 2015 to 2060 and a label "Run forecast from 2020 to 2050"; "Closure Options" with a dropdown menu showing "Keynesian" selected; "Iteration Settings" with input fields for "Minimum Iterations" (35), "Maximum Iterations" (35), and "Solution Tolerance" (0.00005); and "Forecast Information" with a text area containing "Running a National Control (Based on Standard National Control) for 31 years." On the right side, there is a "Frequently Asked Questions" section with a list of questions and expandable answers.

FILE HOME Navigation

Select Inputs Inputs List Forecast Options Results

Navigation

Forecast Name National Control 1 Run Forecast

Run Years

2015 2050 2060

Run forecast from 2020 to 2050

Closure Options

Type Keynesian

- Historically Observed
- Keynesian
- Anticipatory Fed

Iteration Settings

Minimum Iterations: 35

Maximum Iterations: 35

Solution Tolerance: 0.00005

Forecast Information

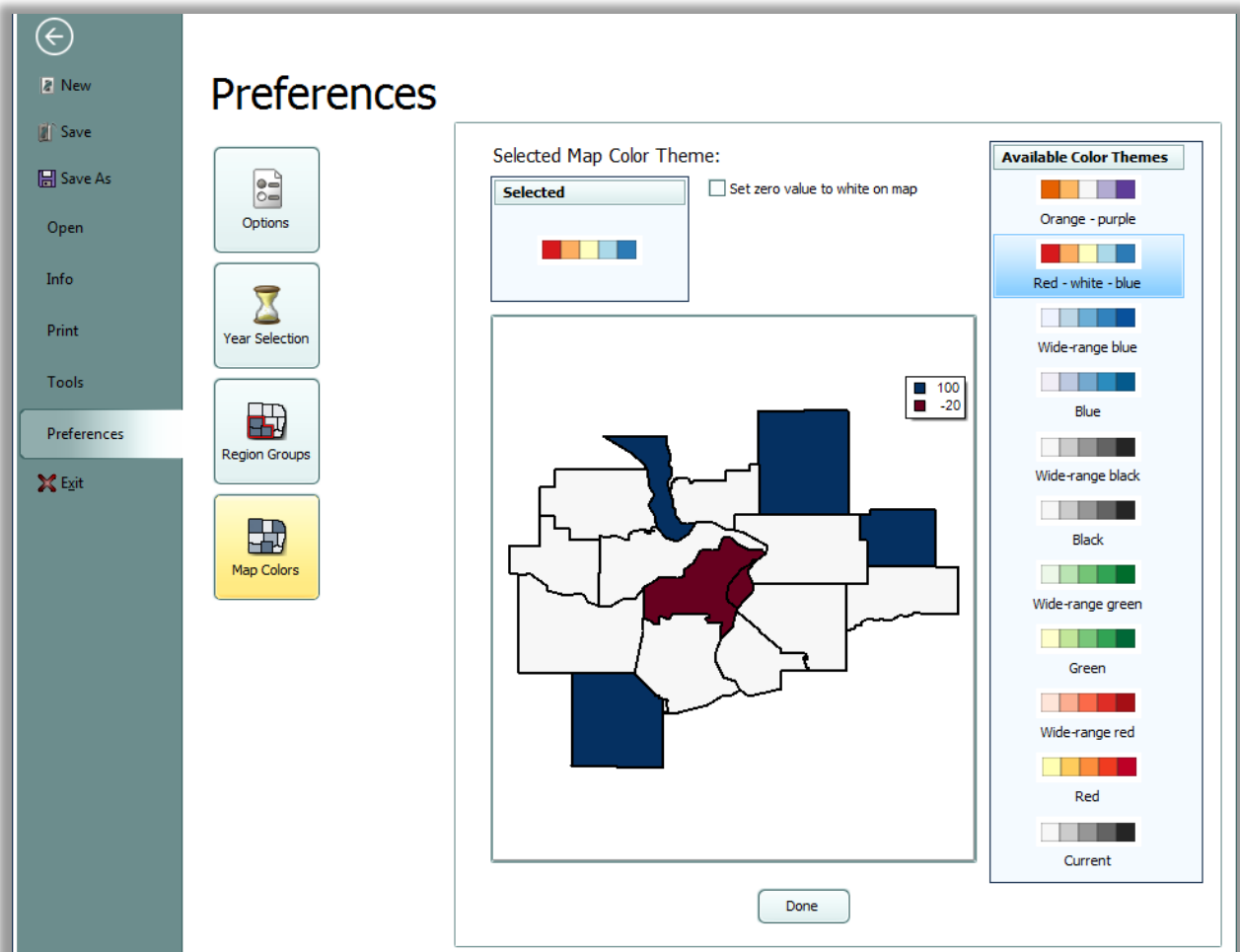
Running a National Control (Based on Standard National Control) for 31 years.

Frequently Asked Questions

- How do I use forecast years?
- What happens to policy variable changes made in the years prior to the forecast start year?
- How do I use iteration settings?
- What are closure options?
- What is the Keynesian Response?
- What is the Anticipatory Fed Response?
- What is the Historically Observed Response?
- Can I set the number of years for the Federal Reserve Response time?

Locating Other New Features

There are some new preference options available under the File > Preferences menu. Regions can now be grouped so that results are displayed for only some of your models regions. Additionally, the map of your regions can now be customized to use a variety of different color schemes, thereby making the map better for visualizing regional differences in the results and also more colorblind-friendly.



The Model Details menu located on the home page of PI+ and also under File > Info contains two new interfaces. There is now a window for viewing all frequently asked questions about PI+ in one place and an option to view them by topic. There is also a window for referencing all of the PI+ model documentation using a built-in PDF viewer.