

## Table of Major PI+ Changes – versions PI+ v1.4 through PI+ v2.2

05/09/2018

### v2.2

Incorporated BLS 2016-2026 Employment Projections.

New Industry Definitions for 70 and 160 sector models.

New and modified policy variables for Industry Employment, National Value Added Tax, National Border Adjustment Tax, Actual Capital Stock, Production Cost, and Detailed Intellectual Property Products.

Several software enhancements, including redesign of main application windows with tiles instead of ribbons and results navigation redesigned with many customization options.

New Results Comparisons for Share of Nation, Per Capita, Location Quotient, and Multiple Forecasts.

Added to the following articles to FAQs and Documentation: Comparing Employment Multiplier and Economic Migration Responses in Single vs Multi Region Models, BEA vs BLS Value Added, Comparing Business Cost Policy Variables

Updated method for estimating economic migrants by race/ethnicity in history.

Data unsuppression system modifications.

Labor Supply closure modification.

### v2.1

BEA revised proprietors' income data.

Incorporated BEA Total Personal Consumption Expenditures by state data.

Incorporated BEA GDP by state data.

Added new IO table category to account for noncomparable imports and rest of world adjustment.

Updated economic migration equation.

Updated endogenous labor force participation rate responses.

Added new land price equation for nonresidential cost of capital.

Now properly net interregional government and farm trade when aggregating regions.

New and modified policy variables for Real Estate Price, Consumer Spending with Consumption Reallocation, Federal Military Employment with Active Military Population, Actual Capital Stock, Employment, and Output.

Several software enhancements, including new model parameters display, alternative model options display, policy variable export center, and results table export center.

New Labor Supply Closure option for single and multi-region national models.

Unit conversion for nominal results reinstated.

### v2.0

Introducing REMI 2.0, our next generation of REMI models (dynamic, intuitive, smart).

Incorporated BLS 2014-2024 Employment Projections.

New estimates of Wage/Compensation/Earnings Rate coefficients.

New estimates of Investment coefficients.

History now begins in 2001 instead of 1990.

Added new Economic Profile Table (1969-2014).

Intellectual Property Products separated from Equipment investment.

Changes to College Population and Military Population Estimation.

Interface redesign for simulation inputs, new Policy Variable Selector and redefined policy variables.

New Custom policy variables for Investment, Consumer, Government, and Tourism Expenditures, as well as Government and Farm Industries, Imports, and Exports. Also new policy variables for Consumption, Government, and Investment Demand and Gas Tax, Sales Tax, Property Tax, and Consumer Price with alternative price elasticity.

Modified policy variables for Personal Taxes and Fuel Cost.

New Policy Variable Search Field.

New Industry Search Field.

New Policy Variable Import Utility.

Personalized settings added for map colors, screen size, and region selection.

New Macroeconomic Values options to incorporate employment or labor productivity assumptions.

Improved file association for REMI workbooks.

New "Export All" option for Occupation by Industry results.

New Forecast Log.

New Status Bar.

Redesigned Custom Variable Editor.

Redesigned Scenario Creator.

New Help Button.

FAQS and Documentation added to Model Details.

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### v1.7

New estimates of State and Local Government Spending parameters.

New estimates of Relative Housing Price parameters.

New estimates of Consumption parameters.

New Labor Productivity/Access policy variables.

Incorporation of BEA Regional Price Parities.

Expanded Property Income Components.

Expanded Transfer Payment Components.

Modified historical residence adjusted employment, industry output, and investment calculations.

Software changes to allow for automatic parallelization.

New National Demographic forecast option.

New National Forecast Assumptions Module.

Model calculations and results expanded to double precision.

New year selection dialog.

Software changes to allow for future “internationalization”.

### v1.6R

Historical data now includes restoration of previously eliminated Local Area Personal Income Statistics from the BEA.

### v1.6

Incorporated BLS 2012-22 Employment Projections

Updated real \$ base year from 2005 to 2009.

New estimates of Trade Flow parameters (industry betas and sigmas).

Added ability to start and stop control or simulation in any forecast year.

Upgraded software to target Microsoft 64-bit Windows platform.

Modified data suppression system to handle loss of county employment data, etc.

Interface redesign – replaced “pearl” button with new FILE tab.

Detailed industry policy variables (translators) updated to reflect new BEA 2007 Benchmark IO table.

Display/reference data added to Macroeconomic, Employment, and Population Update procedures.

Employment feedback option added to Population Update.

### v1.5

Fine tuned data suppression methodology.

New Custom Industry option for Farm.

Expanded detail added for Employment by Occupations results display.

Customization of non-existent local industries now possible.

Employment Update feature enhanced.

Detailed industry policy variables now reconciled with applicable aggregate industries.

Endogenous Residence Adjustment implemented.

New Commuter Earnings policy variables added.

New Commuter Earnings result table added.

Detailed policy variable and results lists now available for display under the Model Details button.

New Unemployment Rate result table added.

### v1.4

New 160 industries (reduced from 169) and modified 70 industries to match the detail supported by the new BLS input-output table.

New 75 consumption categories (reduced from 79) to match the detail supported by the new BLS input-output table.

Integrated BizDev Blueprint.