PROGNOZ

Prognoz Platform 8.2

Demo Version

Version of 26.10.2017

Prognoz Platform 8

Prognoz Platform 8 is a modern BI platform for creating and developing desktop, web and mobile applications combining modern technologies of data storage, visualizations, OLAP, forming reports, modeling and forecasting of various processes.

Demo Version

Demo version contains all Prognoz Platform 8 tools, a repository with demo examples and a full set of drivers for integration into commercial DBMS. It enables the user to work with a full set of functionalities within the current information infrastructure. The demo version can be used during 30 days since the first use.

NOTE. Demo version is available only for Windows operating system.

Demo repository is based on public macroeconomic data that is used for illustration purposes and may differ from actual data.

To get a demo version, open the link http://platform.prognoz.com/#demo.

Prognoz Platform 8 Installation

Step 1

Before installing check system requirements.

After the Prognoz Platform 8 installation do not adjust system time, in this case the demo version is blocked.

Step 2

To install Prognoz Platform 8, run the PP8DemoEnSuite_x86.exe and follow the directions in the installation wizard.

If required, it is prompted to install prerequisites. Internet connection may be required for this.

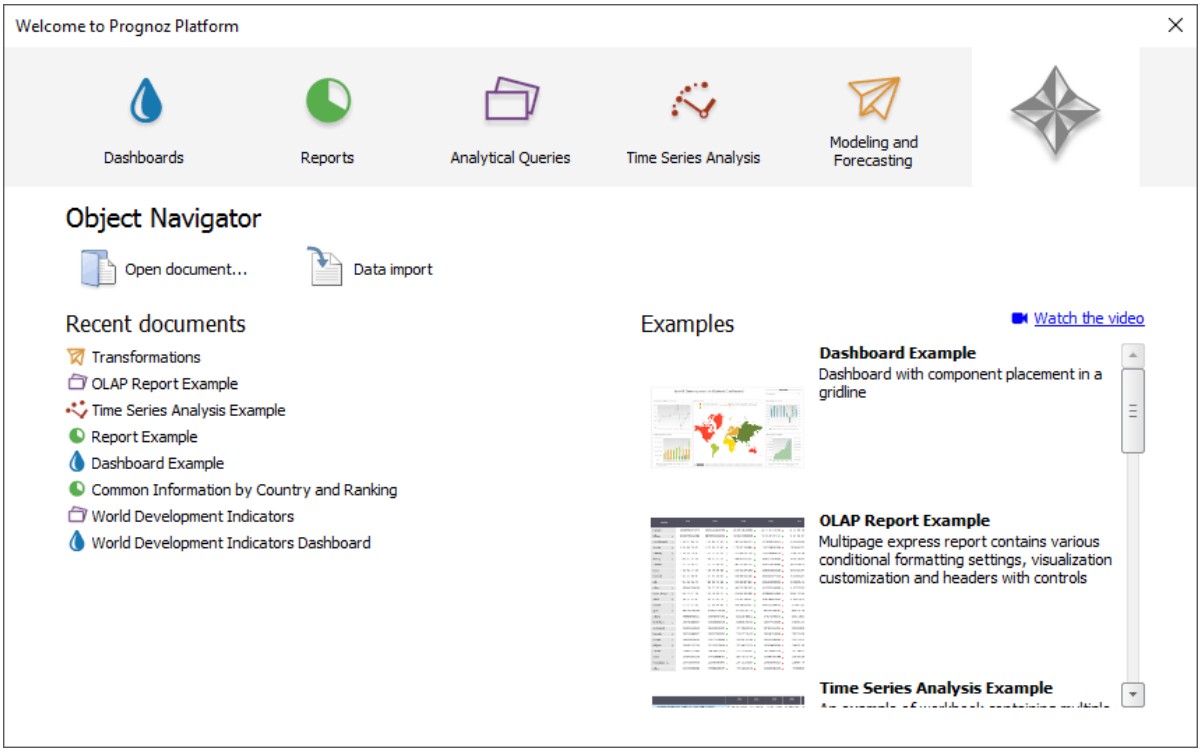
Step 3

Start Using Prognoz Platform 8 .

Start Using Prognoz Platform 8

Run Prognoz Platform 8 by clicking its shortcut on the desktop.

A welcome screen opens:



Get started with viewing Prognoz Platform 8 built-in examples or videos. Each tab of the welcome screen contains built-in examples for basic tools of Prognoz Platform 8:

- **Dashboards**. Enables the user to place several visualizers on one sheet to display summary analytical information from different sources.
- **Reports**. Enables the user to create custom-structure reports including the format of analytical note.
- **Analytical Queries (OLAP)**. Enables the use of features of data interactive analysis by means of visualizers.
- **Time Series Analysis**. Enables the user to analyze summary statistics of time series by using libraries of functions and methods of statistical analysis.
- **Modeling and Forecasting**. Enables the user to forecast changes of factors by using mathematical models.
- **Object Navigator**. A tool for visual presentation of repository, for navigation in repository, and for working with its objects.

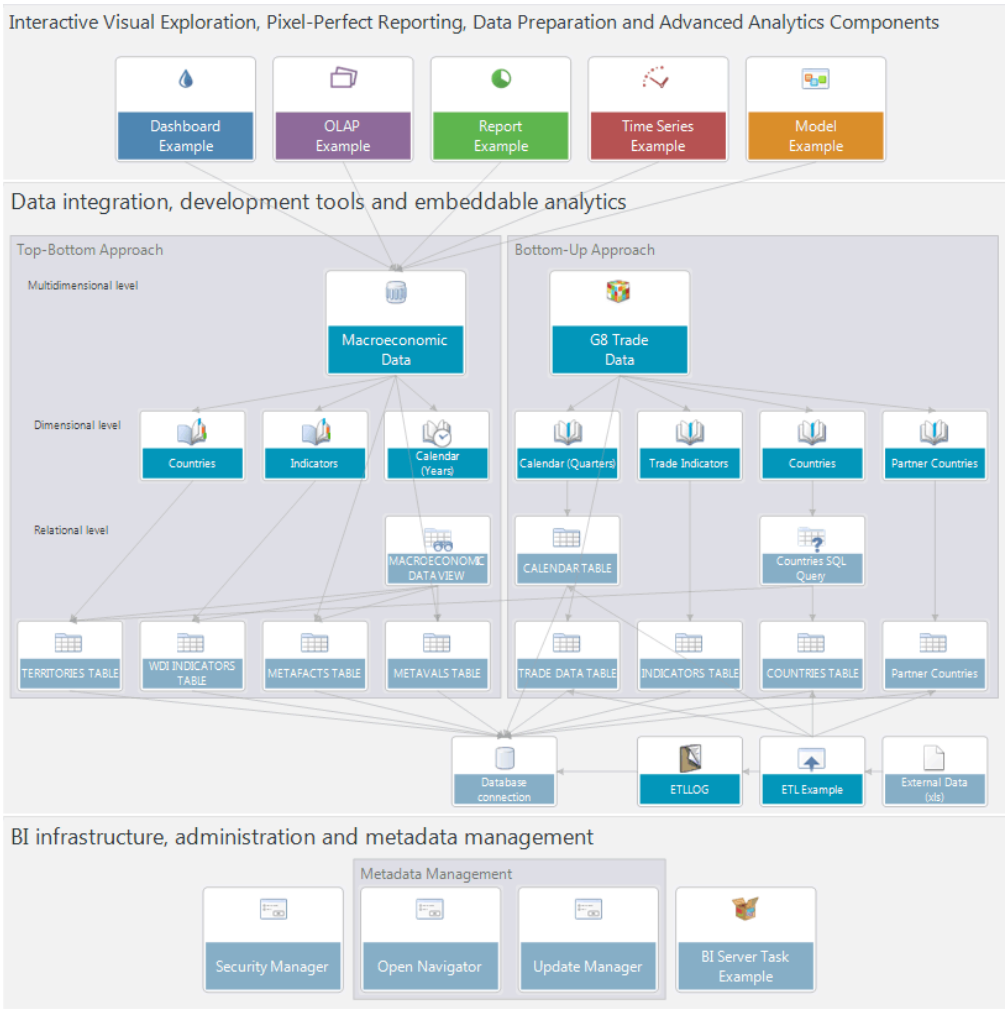
To open the example, click it with the main button of the mouse on its name. To open the tool, go to the corresponding tab and double click its name with the main button of the mouse.

Load your own data for analysis by selecting the Data Import item (see brief guide for data import). This item is available on each tab of the welcome screen.

Structure of Demo Repository

To understand principles of data creating and processing, open the Semantic Layer Example workspace by using the object navigator for it:

1. Double click with the main button of the mouse on the Object Navigator image on welcome screen. Demo repository opens.
2. Click the Search button on the Home ribbon tab. The Search dialog opens.
3. Enter the Example of Semantic Layer workspace name in the Search dialog box that opens.
4. Click the Search button. The required workspace is selected in the object navigator.
5. Close the Search dialog box.
6. Click the Edit button on the Home ribbon tab. The workspace opens:



The workspace shows interaction between various reports, data sources and dictionaries and data tables used. Workspace elements enable the user to open the report for view or for edit.

Built-in examples in the repository use the Macroeconomic Data data source.

Dashboards

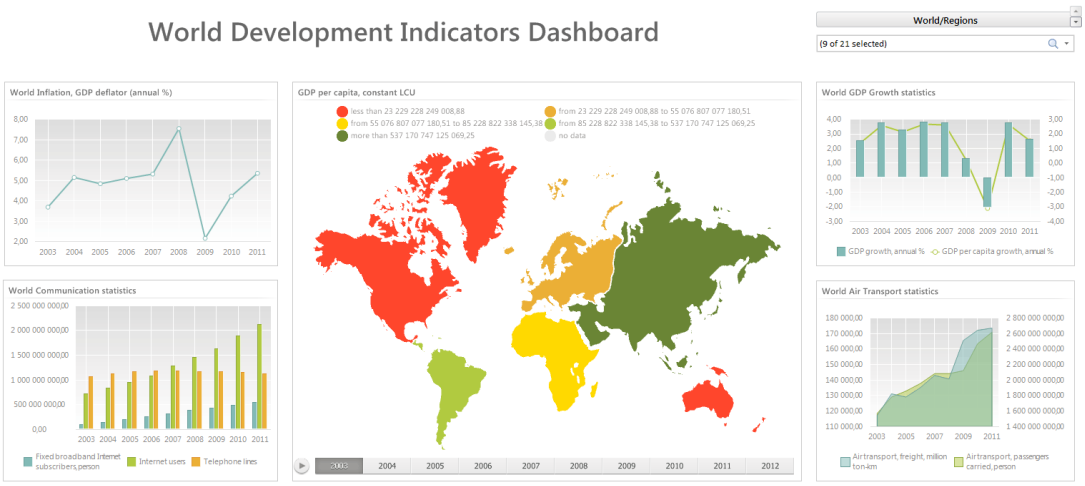
Dashboards are used to create analytical documents as a combination of interactive interrelated blocks. Dashboards display data from various data sources by means of business graphics, images and controls.

The demo repository contains two examples of dashboards: Dashboard Example and World Development Indicators Dashboard.

In case the dashboard is opened from the Recent Documents section, it opens in the edit mode, in case it is opened from the Examples side panel, it opens in the view mode. The Edit and Open commands are used on working in the object navigator.

Dashboard Example

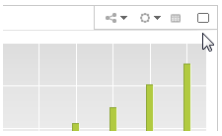
Dashboard Example enables the user to analyze main macroeconomic indicators by countries.



The first sheet contains five blocks showing information by various world development indicators.

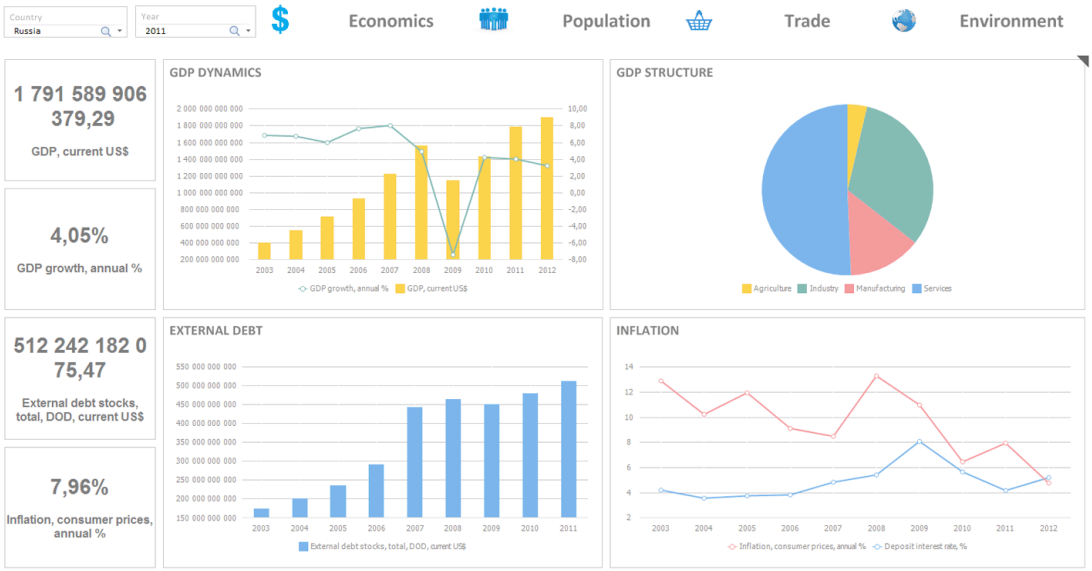
The upper part contains controls that are used to change time interval and move to the second sheet, to analyze indicators by a particular country. Changing of the indicator via the control affects all the visualizers. Double click on the map drills down data by each region.

A particular block with visualizer can be expanded to fit the screen or be printed by using the menu in the upper right block corner:



World Development Indicators Dashboard

World Development Indicators Dashboard enables the user to analyze data by four aspects for a particular country.



Controls are located in the upper part of the report, drop-down lists enable the user to change the country and the analyzed year. The Economics, Population, Trade, and Environment buttons toggle between sheets with corresponding information.

Reports

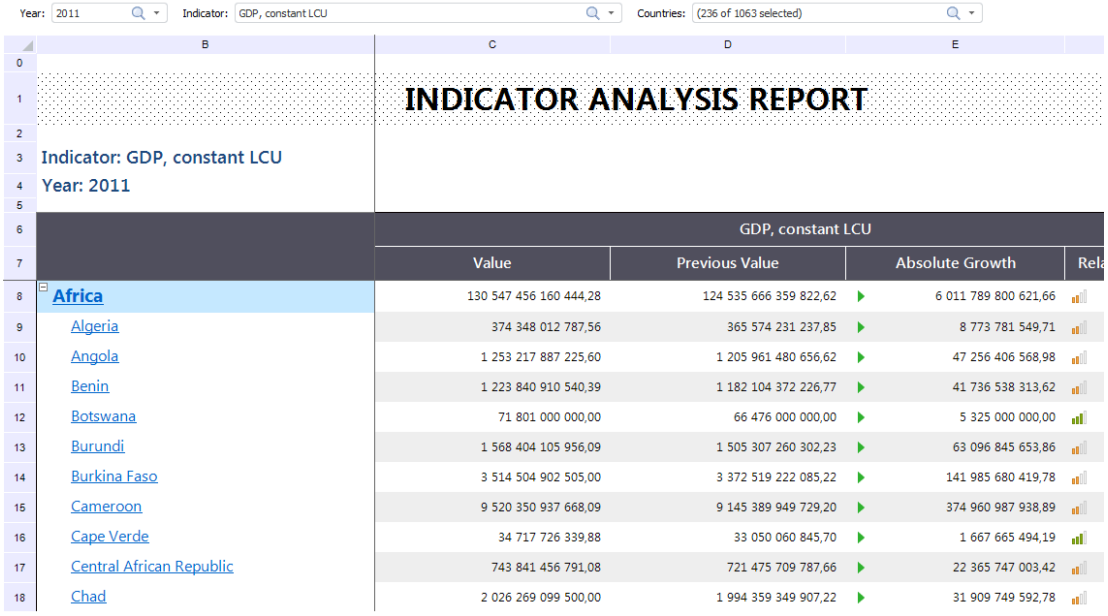
Reports are used to create, view and print regular reports with custom structure of information presentation, and enable the user to flexibly set up report appearance.

The demo repository contains two examples of regular reports: Report Example and Common Information by Country and Ranking.

In case the example is opened from the Recent Documents section, it opens in the edit mode, in case it is opened from the Examples side panel, it opens in the view mode. The Edit and Open commands are used on working in the object navigator.

Report Example

This example of report shows some features of Prognoz Platform 8 for creating interactive reports for print.



Year: 2011 Indicator: GDP, constant LCU Countries: (236 of 1063 selected)

INDICATOR ANALYSIS REPORT

Indicator: GDP, constant LCU
Year: 2011

	GDP, constant LCU			
	Value	Previous Value	Absolute Growth	Rela
Africa	130 547 456 160 444,28	124 535 666 359 822,62	6 011 789 800 621,66	
Algeria	374 348 012 787,56	365 574 231 237,85	8 773 781 549,71	
Angola	1 253 217 887 225,60	1 205 961 480 656,62	47 256 406 568,98	
Benin	1 223 840 910 540,39	1 182 104 372 226,77	41 736 538 313,62	
Botswana	71 801 000 000,00	66 476 000 000,00	5 325 000 000,00	
Burundi	1 568 404 105 956,09	1 505 307 260 302,23	63 096 845 653,86	
Burkina Faso	3 514 504 902 505,00	3 372 519 222 085,22	141 985 680 419,78	
Cameroon	9 520 350 937 668,09	9 145 389 949 729,20	374 960 987 938,89	
Cape Verde	34 717 726 339,88	33 050 060 845,70	1 667 665 494,19	
Central African Republic	743 841 456 791,08	721 475 709 787,66	22 365 747 003,42	
Chad	2 026 269 099 500,00	1 994 359 349 907,22	31 909 749 592,78	

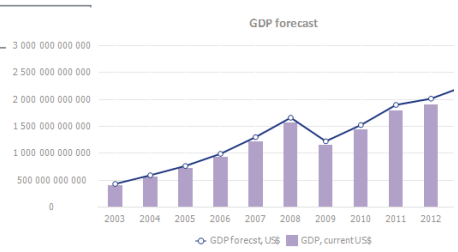
The built-in report can be dynamically changed by means of the controls where an analyzed year, an indicator and a list of countries can be selected. Clicking on the country title moves to the second sheet where information about the selected country by several indicators is shown.

Common Information by Country and Ranking

This example of report shows at once several economic indicators for a particular country.

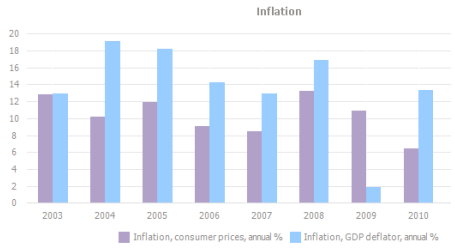
GDP Dynamic

Calendar (Years)	GDP, current US$	GDP growth, US$	GDP growth, %
2003	405 988 462 956		
2004	557 562 915 795	160 668 920 010	37
2005	720 755 567 133	172 984 210 418	29
2006	933 896 737 999	225 929 641 118	30
2007	1 226 137 513 985	309 775 222 546	31
2008	1 566 836 214 742	361 140 622 802	28
2009	1 153 441 636 062	-438 198 253 401	-26
2010	1 438 600 658 711	302 268 564 008	25
2011	1 791 589 906 379	374 168 602 529	25
2012	1 900 731 073 907	115 689 637 580	6



Inflation

Calendar (Years)	Inflation, consumer prices, annual %	Inflation, GDP deflator, annual %
2003	12,91	13,00
2004	10,25	19,13
2005	11,97	18,21
2006	9,13	14,31
2007	8,50	13,02
2008	13,31	16,94
2009	10,99	1,88
2010	6,47	13,38
2011	7,96	14,66
2012	4,78	7,97



The displayed country can be changed by using the controls in the upper part of the report, in this case all tables and charts are rebuilt.

The second sheet shows ranking of countries by the selected indicator.

Analytical Queries (OLAP)

Analytical queries (OLAP) are used to form ad-hoc queries to data and execute express analysis using business graphics tools and various analytical functions.

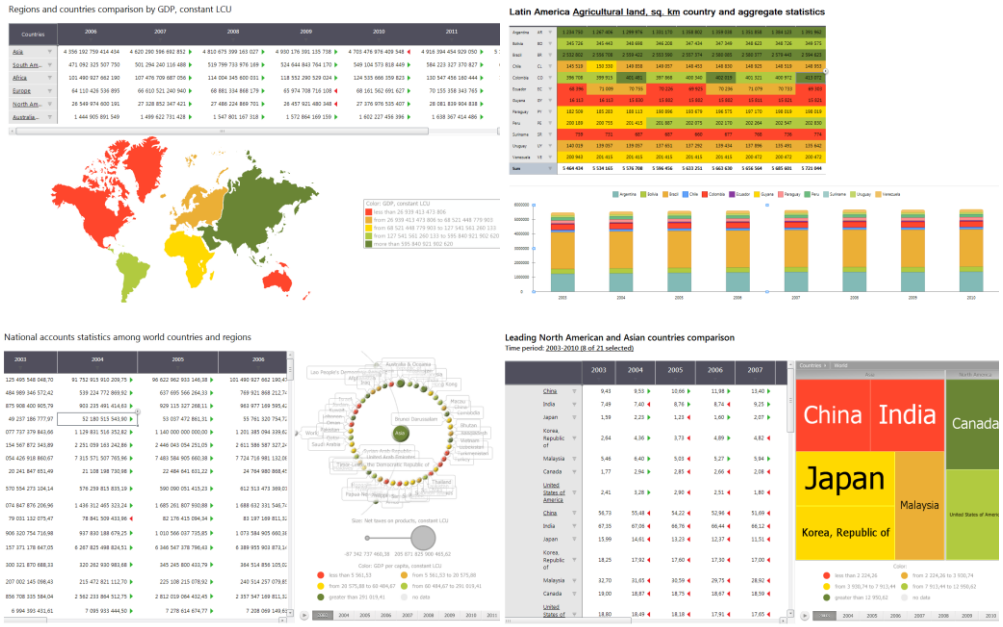
In case the example is opened from the Recent Documents section, it opens in the edit mode, in case it is opened from the Examples side panel, it opens in the view mode, not allowing to save changes made in the current copy.

Demo repository contains two examples of analytical queries: OLAP Report Example and World Development Indicators.

Information is analyzed by color highlighting of conditional values, highlighting of data by growth indicators, displaying of greatest and least values, positive or negative changes of factor values, calculation of totals, filtering, and so on.

Analytical query examples enable the user to view and analyze macroeconomic factors of different countries by using such forms of data presentation as tables, charts, maps, bubble trees and other visualizers.

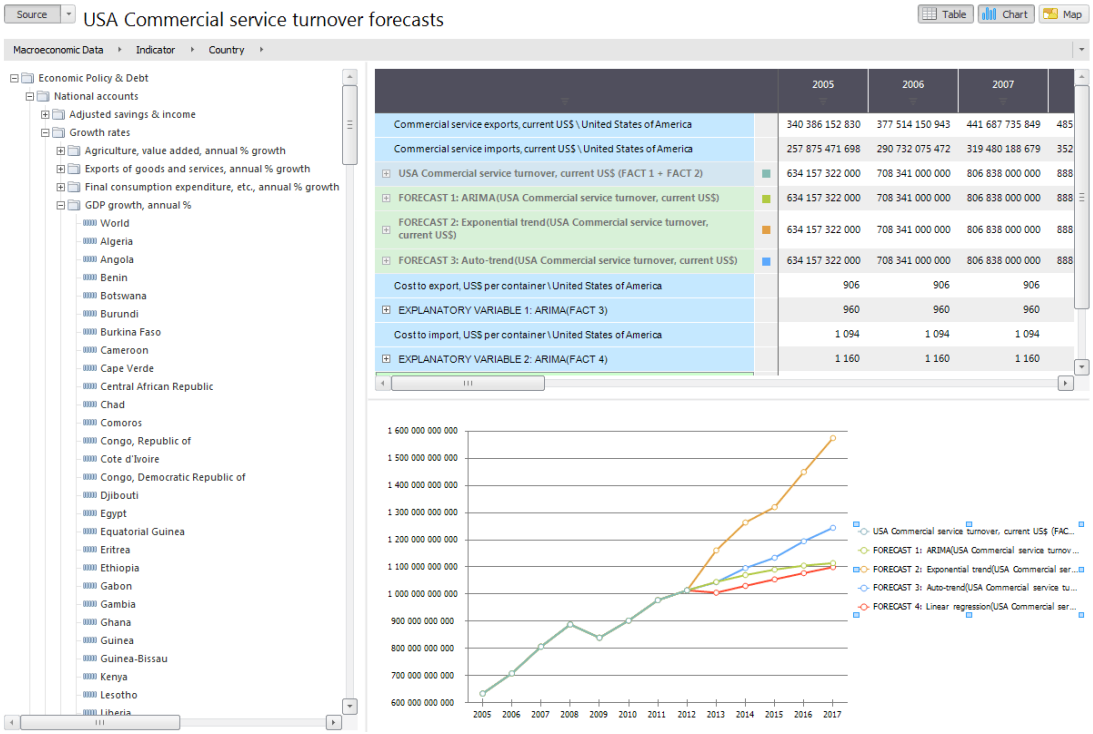
Both examples contain several sheets with data that show some features of the platform and enable the user to display data in different dimensions from one or several sources:



Time Series Analysis

Time series analysis is used to work with time series and enables the use of time series databases, simultaneous transformation of multidimensional data from several sources to time series, simple search and filtering of series and data. Selected series can be transformed in the retrospective period by various methods: arithmetic methods, aggregation, smoothing methods, time and static transformations, transformation by accumulation methods, missing data treatment, R methods and custom methods.

The Time Series Analysis Example object is used to illustrate the capabilities of the Time Series Analysis tool. To open the example, double click it with the main button of the mouse in the Recent Documents section of the home screen or the Examples side panel. The example can also be opened in the object navigator by using the Open command. The example opens in the edit mode:



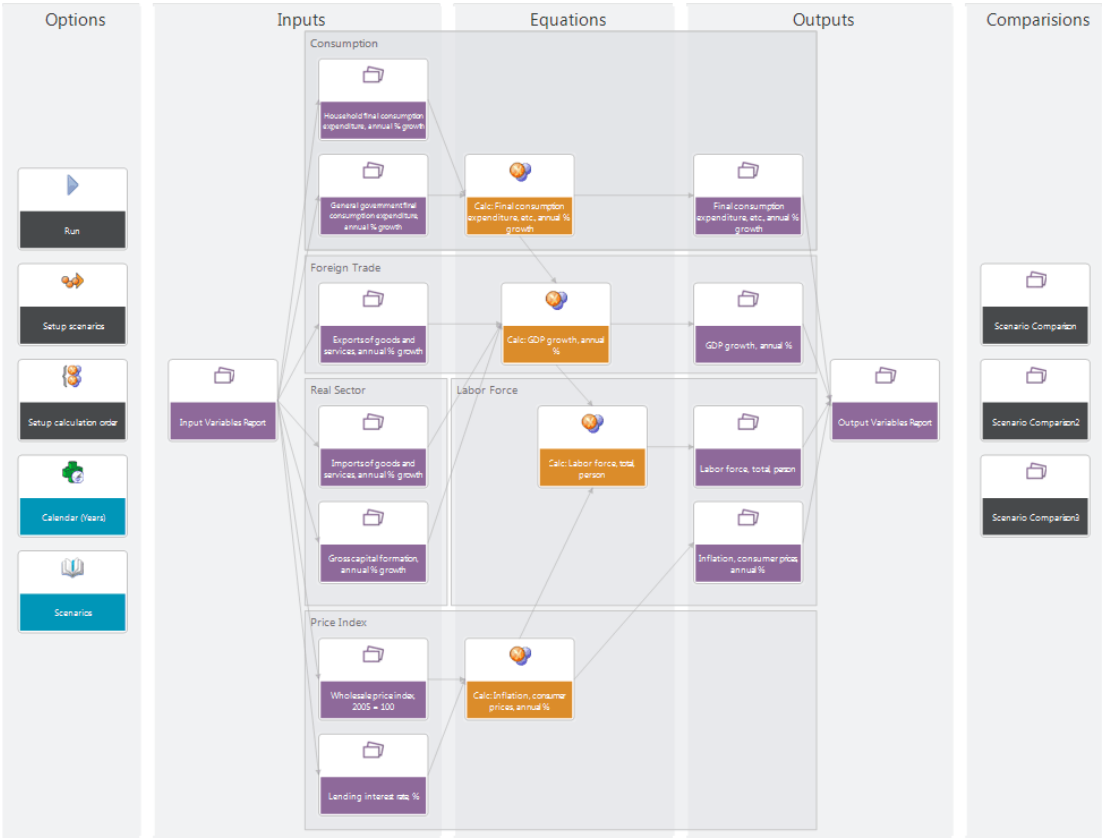
This example shows features of the tools in two directions:

- Forecasting of macroeconomic factors - the Forecast Example spreadsheet.
- Data validation - the Data Validation Example spreadsheet.

Several mathematical functions are applied to time series to get forecasts displayed on the line.

Modeling and Forecasting

Modeling and forecasting is used to analyze data, create models of processes (for example, economical) and execute analytical calculations on their basis. The tool enables the user to build complex hierarchical multi-step models for scenario multivariate calculations including multidimensional, forecasting, optimization problems and project management problems. This tool is designed for analysts who use statistical and mathematical tools.



For easier perception of the modeling process, this example is given as a workspace containing all objects used in the process of modeling and forecasting. During the creation of models and modeling problems developers and analysts work with a special modeling tool operating with static and mathematical functions and methods.

This example contains a simple economic model based on the United States macroeconomic data that contains seven input variables (the Inputs block), four equations (the Equations block) and four output variables (the Outputs block).

To calculate the model, start the model calculation form by selecting the Run object in the Options block. Click the Run button in the wizard that opens.