

Use IFs (Download): General Performance Analysis

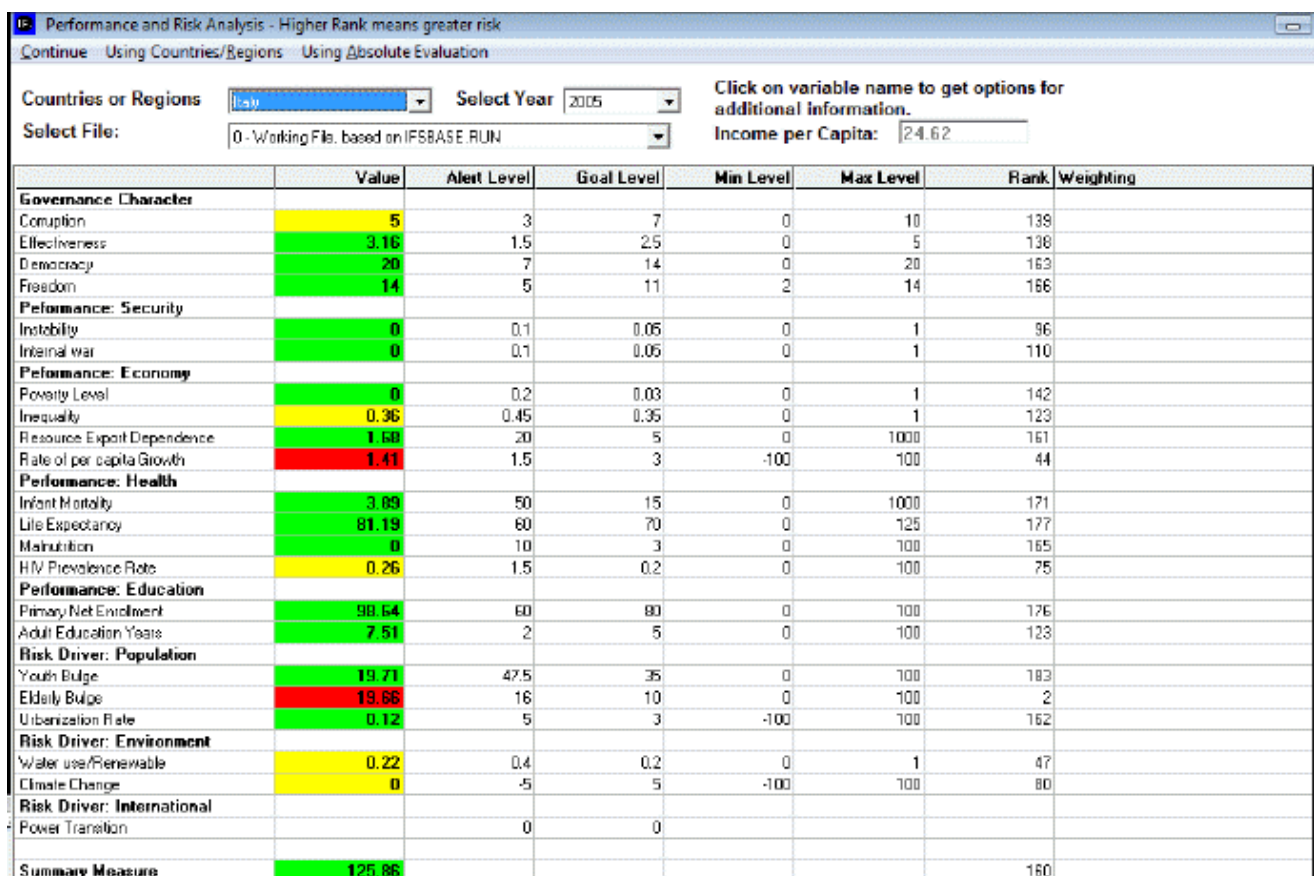
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Performance and Risk Analysis

Performance and Risk Analysis is located under the Specialized Display sub-option, as well as on the Main Menu Map. This feature is a tool to forecast the level of risk and performance of a given country or group over a time horizon of nearly one hundred years.

The first step in using this feature is to decide whether to examine a country or a group. For this example, we shall use the country Venezuela.



The screenshot shows the 'Performance and Risk Analysis' window. At the top, it says 'Higher Rank means greater risk'. Below this are tabs for 'Continue', 'Using Countries/Regions', and 'Using Absolute Evaluation'. The 'Using Countries/Regions' tab is active. In this tab, 'Countries or Regions' is set to 'Venezuela', 'Select Year' is '2005', and 'Select File' is '0 - Working File, based on IFSBASE.RUN'. There is a link 'Click on variable name to get options for additional information.' and a text box for 'Income per Capita' with the value '24.62'.

	Value	Alert Level	Goal Level	Min Level	Max Level	Rank	Weighting
Governance Character							
Corruption	5	3	7	0	10	139	
Effectiveness	3.16	1.5	2.5	0	5	138	
Democracy	20	7	14	0	20	163	
Freedom	14	5	11	2	14	166	
Performance: Security							
Instability	0	0.1	0.05	0	1	96	
Internal war	0	0.1	0.05	0	1	110	
Performance: Economy							
Poverty Level	0	0.2	0.03	0	1	142	
Inequality	0.36	0.45	0.35	0	1	123	
Resource Export Dependence	1.60	20	5	0	1000	161	
Rate of per capita Growth	1.41	1.5	3	-100	100	44	
Performance: Health							
Infant Mortality	3.09	50	15	0	1000	171	
Life Expectancy	81.19	60	70	0	125	177	
Malnutrition	0	10	3	0	100	165	
HIV Prevalence Rate	0.26	1.5	0.2	0	100	75	
Performance: Education							
Primary Net Enrollment	99.64	60	80	0	100	176	
Adult Education Years	7.51	2	5	0	100	123	
Risk Driver: Population							
Youth Bulge	19.71	47.5	35	0	100	183	
Elderly Bulge	13.66	16	10	0	100	2	
Urbanization Rate	0.12	5	3	-100	100	162	
Risk Driver: Environment							
Water use/Renewable	0.22	0.4	0.2	0	1	47	
Climate Change	0	-5	5	-100	100	80	
Risk Driver: International							
Power Transition		0	0				
Summary Measure	125.86					160	

Example of a performance and risk evaluation for Venezuela

Next, decide which year to examine. The year for the example above is set at 2010, but the user can view any year up to 2100. Next, decide which file to use. The example above is using the Policy First file.

The calculation of the performance and risk is based on a number of variables, such as

Corruption, Youth Bulge, and State fragility, divided into categories, such as Governance, Population, and Social/Political. The variables are highlighted in green, yellow or red. The color indicates whether or not the variable has met the goal level set for that variable. If it has, the variable will be highlighted in green. If it has not, it will either be highlighted in yellow, if the value for the variable is between the alert level and the goal level, or in red, if the value for the variable has crossed the threshold for the alert level.

Notice that the example above has one variable highlighted in red. The value for corruption is 2.4216, which is below the alert level value of 3. Now, adjust the selected year to 2005. Instead of two variables highlighted in green and one in red, each of the values for the variables is highlighted in a different color. The value for the youth bulge is 0.4046, which is between the alert level value of 0.5 and the goal level of 0.4. The value of the variable is accordingly highlighted in yellow.

To look at a variable in greater detail, click on the variable. A box appears that allows the user to select from two options: either to show the variable over time, or to view the variable cross-sectionally. Choosing the first option will bring up a table with several columns, each representing the different run files the user can choose from. Choosing the second option brings up a graph, with the selected variable shown in relation with the GDPPCPPP for that country or group.

Evaluate Priorities

Evaluate Priorities can be found under the Specialized Display sub-option under the Display option on the Main Menu. It is also located under the Main Menu Map options.

This display feature of IFs allows users to analyze and evaluate any Run-Result-File normatively. Users can set evaluative criterion and assign them numerical weights. The model is then run and each criterion is evaluated with respect to what variables most heavily affected the resulting number.

Evaluate Working Scenario

Continue Use Groups Display Reset Priorities Change Priorities

Countries or Regions Select Year Select File:

Afghanistan 2015 0 - Working File, based on IFSBASE.RUN

Afghanistan - 2015, Assign weights (from 1 to 10) to indicate your priorities

Category	SubCategory	Variable	Dimension2	Avg Prior	BaseFile	RunFile	CurRatio	Sign	Score
ECONOMIC				5					331.476
		Population with income less than \$2 per day.		5	0.001	22.834	0.151	-1	
		GDP per capita		5	21.113	0.214	0.007	1	
ENVIRONMENT				5					4968.284
		Annual carbon emissions from fossil fuels		5	0.089	0.002	0.007	-1	
		Land	Forest	5	0.778	1.417	0.239	1	
		Water usage per capita, annual		5	1.194	1.223	0.158	-1	
SECURITY				7.5					335.633
		Power index		10	0.432	0.12	0.084	1	
		Threat (received) index as probability (percent)		5	14.716	7.737	0.101	-1	
SOCIAL				5					9.6
	INDIVIDUAL			5					
		Life expectancy		5	85.23	48.535	0.098	1	
		Literacy, percentage of population		5	81.345	49.415	0.121	1	
	SOCIETAL			5					
		Democracy measure, Polity project (Democr		5	15.616	3.999	0.059	1	

Total Score: 1291.735

Example of evaluated priorities for a particular country/region or group

When this option is selected from the Display option on the Main Menu and the Specialized Display sub-option, a window opens that asks for your name. You are then guided to a menu that allows you to flexibly evaluate your Run-Result-File to your needs and goals.

On the Evaluate Priorities menu, you are able to toggle between countries/regions or groups. The next option is a Display option. This allows you to access some of the display features of IFs. The next option on the menu of Evaluate Priorities is the Reset Priorities option. This allows users to clear all priority changes that were previously made.

The final option allows users to Change Priorities. Choosing this option opens up a secondary window where users can individualize their evaluative criteria. For example, if you were interested in emphasizing GDP per capita, double click on the number found in the column labeled "Weight". This will bring up a smaller window that allows you to increase or decrease the numeric priority assigned to GDP per capita. The average priority for all variables is 5. From this screen, users can choose Define Priorities. This brings up a new window that allows for many different variables to be added to the main priorities menu.

If a user is interested in agricultural yield figures but it is currently not displayed on the Main Menu of Evaluate Priorities, they can click on the "No" that is found under the Guided Use column on the Define Priorities menu. Users can also delete any changes made to this list by selecting the Reset G.U. option found at the bottom of the Define Priorities menu.

Returning to the Evaluate Priorities form, users are able to see and change the weight allotted to certain variables by double clicking on the number located under the column labeled "Prior". Also, if you would like to display the result of one variable over time, double-click on the number located under the column labeled Run-File. This will bring up a new table.

From the scroll-down lists located at the top of the Evaluate Priorities screen just below the menu, users can change the countries/regions or groups, the year that is being displayed and the Run-Result-File that is used as the source of results.

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